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INDIA WEATHER REVIEW, 1960

Monthly Weather Report

January.

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Chief features:

(1) Prolonged spell of wet weather in the central parts of the country the first half of the month, and

(2) Cold spell in northern and central India during the second half of the month.

Three western disturbances moved across northwest India during the month. The first two caused a good amount of snowfall in Jammu and Kashmir, Himachal Pradesh and the Punjab-Kumaon hills, but the third one was feeble and caused only scattered rain or snow in Jammu and Kashmir on 30th. A tabular statement showing the movement and activity of each western disturbance is given below.

Statement showing the movement and activity of western disturbances during January 1960.

S.No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1	11th-18th	South Baluchistan-upper Sind-north Rajasthan-Punjab (I)	Rajasthan	Scattered showers	13th-15th	
			Punjab plains	Fairly widespread or local showers	13th-15th	
			Punjab hills	Fairly widespread or local rain/snow	13th-15th	
		West Uttar Prdesh	Plains of West Uttar Pradesh	Local or scattered showers	14th-15th	
			Himachal Pradesh	Widespread rain or snow	13th-15th	
				Local showers	17th	
			Kumaon Hills	Fairly widespread or local rain/snow	14th-15th	
				Scattered rain/snow	16th-17th	
			Jammu and Kashmir	Fairly widespread rain or snow	13th&14th	
				Scattered rain or snow	16th	
2	18th-22nd	Afghanistan-N.W.F.P.-Punjab (P) Punjab (I)-Kumaon hills	Punjab hills	Fairly widespread to local rain or snow	20th&22nd	
			Himachal Pradesh	Widespread rain or snow	21st	
			Kumaon hills	Fairly widespread rain or snow	21st-22nd	
			Jammu and Kashmir	Fairly widespread to local rain or snow	20th-21st	
3	28th-30th	Baluchistan-South Punjab (P) north Rajasthan-Punjab (I) Kashmir	Jammu and Kashmir	Scattered rain or snow	30th	

During the first half of the month, a stationary trough of low pressure extended from the Gulf of Cambay to southwest Madhya Pradesh. During the same period the seasonal anticyclonic cell of the north Peninsula remained well marked and was situated east of its normal position in the lower troposphere. These favoured a persistant flow of moist air from the Bay of Bengal into the central parts of the country. A spell of wet weather prevailed as a consequence in Madhya Pradesh, Vidarbha and neighbourhood during the first half of the month. Fairly widespread thundershowers occurred in Vidarbha, east Madhya Pradesh on 7th, Chhindwara reporting 8 cms of rain and Nagpur 6 cms on that day. These resulted in the month's rainfall over the central parts of the country being much more than normal.

In the rear of the first active western disturbance, cold continental air progressively invaded the northern and the central parts of the country and by 19th January, the night temperatures came down to below normal level in the whole of north and central India, with parts of Madhya Pradesh getting in the grip of a cold wave on that day. Minimum temperatures, appreciably to markedly below normal, were experienced in the central parts of the country again between 23rd and 25th. in the wake of the second western disturbance.

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1—17 D.D.G. Obs. Poona/64

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National Oceanic and Atmospheric Administration

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Information Manufacturing Corporation
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September 14, 1999

During the month of January as a whole, there was less than normal activity of easterly waves in the south Peninsula. However. two of these waves were comparatively active. The first developed into a shallow depression over southeast and the adjoining southwest Bay of Bengal on the morning of 19th. It shifted westwards, weakened into a low pressure area over Ceylon and neighbourhood by 21st and moved away as a low pressure wave across the southeast Arabian Sea by 22nd. The second easterly wave moved from the southeast Bay of Bengal to the Comorin area between 23rd and 28th. In association with these two easterly waves, Madras State had a spell of wet weather from 20th to 25th and Kerala from 22nd to 28th. Fairly widespread or local showers also occurred in the Bay Islands on all days between 22nd and 30th.

The rainfall for the month was in large excess in the Bay Islands, Madhya Pradesh and Vidarbha, in moderate excess in west Rajasthan, in slight excess in Gujarat, and Kerala and normal in Maharashtra (including Marathwada). It was in slight defect in west Uttar Pradesh and Jammu and Kashmir, in moderate defect in Orissa, east Uttar Pradesh and the Arabian Sea Islands and in large defect in Gangetic West Bengal, Bihar State, the Punjab (I), east Rajasthan, coastal Andhra Pradesh Telangana, the Madras state and south Interior Mysore. There was no rain over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in the Bay Islands and Assam, below normal in west Madhya Pradesh, Gujarat and Vidarbha and normal elsewhere over the country outside Himachal Pradesh. The mean minimum temperature was above normal in the Bay Islands, Maharashtra (including Marathwada), Telangana, Rayalaseema and Interier Mysore State, below normal in east Rajasthan and normal over the rest of country outside Himachal Pradesh.

The mean relative humidity in the morning was above in the Punjab (I), east Rajasthan, west Madhya Pradesh, Gujarat, Saurashtra and Kutch, Maharashtra (including Marathwada), Vidarbha and the Arabian Sea Islands, below normal in Assam, West Bengal and Bihar Plains and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in the Bay Islands, west Madhya Pradesh, Vidarbha, Madras State, coastal Mysore, south Interior Mysore, Kerala and the Arabian Sea Islands, below normal in Assam, Uttar Pradesh, the Punjab (I), Jammu and Kashmir, west Rajasthan, Saurashtra and Kutch and the Konkan and normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, relative humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I.S.T. of the date noted in the succeeding column. Similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I.S.T. of the date given in the succeeding column.

Poona 5,
The 2nd April 1960

C. RAMASWAMY,
for DIRECTOR GENERAL OF OBSERVATORIES

Errata to M.W.R. January, 1960 (Pausa 11 - Magha 11, 1881 Saka)

Page No.	Station	Hour	Column	For	Read
Text portion					
1.	1st line last but 6th word		-	(Not given)	during
Table - II					
5	Bhubaneswar		2	27.7	27.6
5	Puri		2	26.7	26.6
5	Puri		4	29.9	28.9
5	Koraput		2	28.4	23.4
5	Gaya		19	+1.2	-1.2
6	Karnal		17	7.6(b)	7.6(1)
6	Karnal		18	5.3(b)	5.3(1)
6	(Foot Note)		-	(b)Mean of 19 days	(1) Mean of 19 days
7	Ujjain		1	Ujjaen	Ujjain*
8	Porbandar (Aerodrome)		12	1.0	..
8	Parbhani		5	31	30
8	Gannavaram		11	0	0.4
8	(Foot Note)		-	(k) Mean of 21 days	(k) Mean of 20 days
9	Pamban		7	+0.5	+0.8
9	Mathurai (Aerodrome)		20(a)	1	0
9	Nagapattinam		19	+5.3	+5.8
9	Tiruchirapalli		19	+4.0	+4.8
10	Nainital		8	-0.5	-5.0
11	Jhadol		9	20,52,29	20,25,29
11	Timure		8	0.2	-0.2
11	Taplejung		20(a)	2	0
11	Taplejung		23,24	3,6	0,0
Table - III					
12	Car Nicobar	1730	4	1010.4	1010.3
12	Kondul	0830	5	1011.5	1011.6
12	(Stations)	After station Dibrugarh (Mohanbari Aerodrome) read North Lakhimpur, Sibsagar, Jorhat, Golaghat* and Gohpur etc.			
12	Jorhat	1130	10	13.4	13.5
14	Asansol	0830	14	-0.5	+0.5
15	Koraput	0830	15	9.3	..
15	Koraput	1730	15	5.3	..
16	Bhagalpur	2330	8	14.4	12.4
16	Varanasi (Banaras)	0830	6	+1.7	+1.2
16	Varanasi (Banaras)	0830	15	4.1	4.1(e)
16	Varanasi (Babatpur Aerodrome)	0530	15	3.8(e)	3.8
19	Bilaspur	0830	4	1021.	1021.8
19	Sri Ganganagar	1130	9	(Blank)	5.4
19	Jodhpur	0230	2	(Not clear)	0230
19	Barmer	1130	16	(Blank)	0
22	Bhuj (Aerodrome)	2330	27	2	22
23	Bombay (Santa Cruz Aerodrome)	1130	24	(Blank)	2
23	Harnai	0830	28	0	1
24	(Foot Note)	-	-	* Data not ayailable	* Data not available
25	Calingapatam	0830	13	(Not clear)	1.4
26	Tuticorin	0830	16	(Blank)	0

Contd.2

Page No.	Station	Hour	Column	For	Read
26	Mathurai	0830	2	131	133
26	Mathurai (Aerodrome)	0530	2	133	131
29	Ootacamund	0830	24	1	0
29	Trincomalee	1730	5	(Not clear)	1010.3
30	Mannar	0830	5	1013.2	1013.4
30	Khudi Bazar	0830	1	Khurdi Bazar	Khudi Bazar

Page	Station	Time in I.S.T	Height in Km.	Entry under column	Existing entry	Correct entry
32	-	-	-	Line No.2	42	43
32	-	-	-	Line No.3	13	12
34	Ahmedabad	0530	0.9	D	668	068
35	Bairagarh	0530	6.0 to 9.0	n V v D	Values printed against the levels 6.0 to 9.0 may be read for the levels 5.4 to 7.2	
38	Darjeeling	1730	5.4	v	24.6	24.0
39	Gannavaram	1730	7.2	V	11.0	16.0
40	Gaya	0530	0.15 a.g	V	1.5	4.5
40	Gopalpur	0530	5.4	v	15.4	12.9
41	Jagdalpur	0530	Surface	V	9.1	0.1
46	Tiruchirapalli	1730	3.0	V	4.0	4.6
46	Udaipur	1730	1.5	V	363	3.3
47	Visakhapatnam	0530	6.0 to 9.0	n V v D	Values for 6.0 to 9.0 levels printed slightly above.	
48	Bajpe	1730	12.5	Ht in Km	12.5	12.0
48	Dum Dum	2330	12.0	v	2.27	22.7
48	Madras	2330	-	Time IST	2330*	2330
48	Minicoy	-	-	Name of station	INICOY	MINICOY
48	New Delhi	-	-	Name of station	NEW DELHI*	NEW DELHI
48	New Delhi	0530	-	Time IST	0530	0530*
49	Poona	1730	-	Time IST	1730*	1730

RADIO-SONDE DATA

Page	Station	Time	Level	Entry under column	Existing entry	Correct entry
51	Amritsar	00 GMT	250 mb	Ht. gpm	10508	10503
51	Bombay	00 GMT	Surface	Max.	-	297
52	New Delhi	00 GMT	800 mb	Max.	295	285
52	Trivandrum	00 GMT	100 mb.	Mean	200.0	200.9
52	Veraval	00 GMT	800 mb.	Mean	255.0	285.0
53	Visakhapatnam	00 GMT	100 mb	Mean	200.2	200.0
54	Amritsar	12 GMT	800 mb	Dew Point	261.6	261.7
54	Calcutta	12 GMT	200 mb	Mean	222.1	222.6
55	Madras	12 GMT	300 mb	Max.	254	245
55	Veraval	12 GMT	175 mb	Min.	297	197

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	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	0 −19·2	0	24·3 +1·2	9·9 +0·6	80 −9	67	2·2 −0·9	1·1
2. West Bengal	0·3 −11·0	3	25·0 −0·1	12·1 +0·2	66 −9	50	1·4 −0·3	1·0
3. Orissa	4·7 −4·6	51	26·9 −0·7	13·8 −0·6	70 −4	51	1·7 −0·1	1·6
4. Bihar	3·1 −13·1	19	24·3 +0·1	10·0 +0·2	69 −5	50	2·0 +0·2	2·0
5. Uttar Pradesh	14·5 −7·0	67	22·5 +0·1	7·6 −0·2	76 +1	48	1·5 −0·6	1·6
6. Punjab (India) (Including Himachal Pradesh and Delhi)*	11·5 −17·9	39	21·1 +0·4	5·5 −0·8	83 +8	55	2·1 −0·6	2·1
Division—(*Contd.*)								
7. Jammu and Kashmir	31·5 −10·1	76	+1·9 +0·1	−8·5 −0·6	69 −3	62	4·6 −1·4	4·5
8. Rajasthan	1·4 −5·0	22	23·6 0	7·6 −0·3	63 +5	31	1·3 −0·7	1·3
9. Madhya Pradesh	34·0 +21·2	266	24·3 −1·5	9·9 −0·1	70 +6	45	2·2 −0·3	2·3
10. Bombay	9·6 +6·0	267	29·0 −0·1	14·7 +0·6	67 +6	45	1·3 −0·2	1·7
11. Andhra Pradesh	0·8 −7·8	9	22·3 +0·2	18·7 +1·4	76 +2	55	2·3 −0·1	2·1
12. Madras State	13·1 −24·8	34	29·7 +0·4	21·0 +0·9	80 −1	60	4·0 +0·7	4·2
13. Mysore	0 −3·9	0	30·1 +0·4	17·5 +1·1	70 +4	40	2·4 +0·4	2·6
14. Kerala	20·0 +2·8	115	31·4 +0·4	23·1 +0·8	76 +1	68	3·2 +1·0	3·5
Sub-division								
1. Bay Islands	95·5 +50·0	210	30·7 +1·7	23·6 +1·6	72 +1	79	4·9 +1·5	5·7
2. Assam (Including Manipur, Tripura)	0 −19·2	0	24·3 +1·2	9·9 −0·6	80 −9	67	2·2 −0.9	1·1
3. Sub-Himalayan West Bengal	0 −9·4	0	23·4 −0·2	10·3 0	73 −6	49	1·2 0	1·0
4. Gangetic West Bengal.	0·4 −11·7	3	25·6 −0·1	12·8 +0·3	64 −10	50	1·5 −0 3	1·1
5. Orissa	4·7 −4·6	51	26·9 −0·7	13·8 −0·6	70 −4	51	1·7 −0·1	1·6
6. Bihar Plateau	4·2 −13·7	23	24·5 −0·6	10·4 +0·2	69 −4	49	2·1 +0·3	2·3
7. Bihar Plains	2·3 −12·7	15	24·1 +0·9	9·6 +0·3	69 −6	52	1·9 +0.2	1·7
8. Uttar Pradesh (East)	9·2 −8·1	53	23·2 +0·1	8·4 +0·1	77 −1	50	1·1 −0·7	1·4
9. Uttar Pradesh (West)	20·5 −5·9	78	21·8 +0·1	6·8 −0·5	75 +3	46	1·9 −0·5	1·9
10. Punjab (India) (Including Delhi)	11·5 −17·9	39	21·1 +0·4	5·5 −0·8	83 +8	55	2·1 −0·6	2·1
11. Himachal Pradesh.	49·6 ..	..	18·5 ..	2·6 ..	95 ..	53	5·2 ..	3·2
12. Jammu and Kashmir.	31·5 −10·1	76	+1·9 +0·1	−8·5 −0·6	69 −3	62	4·6 −1·4	4·5
13. Rajasthan (West)	1·5 −4·6	133	23·6 +0·9	7·4 +0·5	61 +1	29	1·3 −1·2	1·3
14. Rajasthan (East)	1·4 −5·5	25	23·6 −0·8	7·8 −1·1	65 +9	33	1·4 −0.3	1·2
15. Madhya Pradesh (West)	32·3 +21·8	308	23·8 −1·9	9·2 −0·7	67 +7	42	2·1 +0·4	2·2
Sub-division—(*Contd.*)								
16. Madhya Pradesh (East).	36·5 +20·3	225	24·9 −0·9	10·9 +0·6	74 +4	49	2·2 +0·3	2·5
17. Gujarat	2.2 +0·5	113	28·5 −1·1	12·3 +0·6	63 +6	33	1·1 −0·2	1·2
18. Saurashtra and Kutch	0 −1·6	0	26·7 −0·7	11·8 −0·3	62 +7	42	0·9 −0·4	0·9
19. Konkan	0 −2·4	0	29·3 +0·8	19·1 +0·6	66 −3	64	0·7 −0·7	1·0
20. Maharashtra (Including Marathwada)	3·8 −0·4	90	30·7 −0·7	14·4 +1·2	61 +7	32	1·3 −0·1	2·4
21. Vidarbha	60·4 +51·5	679	27·9 −1·5	14·0 +0·6	73 +15	46	2·3 +0·7	2·3
22. Coastal Andhra Pradesh	1·2 −9·1	15	28·9 +0·1	19·3 +1·0	79 +1	66	2·4 −0·3	2·3
23. Telangana	0·8 −6·4	11	29·7 +0·4	17·4 +2·3	72 +3	40	2·4 +0·3	1·9
24. Rayalaseema	0 −6·6	0	31·3 +0·1	18·6 +1·1	71 −1	42	1·9 −0.1	2·1
25. Madras State	13·1 −24·8	34	29·7 +0·4	21·0 +0·9	80 −1	60	4·0 +0·7	4·2
26. Coastal Mysore	0 −2·7	0	31·9 +0·2	20·5 −0·1	71 +2	61	2·9 +0·7	2·5
27. Interior Mysore (North)	0 −4·4	0	30·5 +0·5	16·9 +1·3	65 +5	34	1·5 0	2·6
28. Interior Mysore (South)	0·1 −3·9	1	28·9 +0·4	16·8 +1·5	74 +4	37	3·1 +0·7	2·7
29. Kerala	20·0 +2·8	115	31.4 +0·4	23·1 +0·8	76 +1	68	3·2 +1·0	3·5
30. Arabian Sea Islands	27·8 −18·7	60	29·8 +0·3	23·0 +0·2	83 +9	71	3·9 +1·0	4·1

NOTE :—The entries in the second line for each division and sub-division indicate departures from normal.
*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Bay Islands																														
Maya Bandar	27·1	..	28·6	1	23·4	..	21·5	5	7·4	93.4	..	41.2	27	4	..	12·9	8·9	..	0	5	0	0	2	3	0	0	0	0	0
Long Island	30·2	..	31·1	2, 8,24	23·0	..	20·6	16	16·0	114·2	..	56·0	25	5	..	3·3	2·1	..	0	5	0	0	0	0	0	0	0	0	0
Port Blair	30·7	+1·7	32·2	24	23·6	+1·6	19·3	5	35·8	95·5	+50·0	55·2	25	7	+4·7	12·1	10.3	−3·4	1	7	0	0	3	2	0	0	0	0	0
Car Nicobar	29·7	..	30·7	10,12	24·6	..	21·1	31	19·9	103·1	..	36·0	24	5	..	8·3	5·9	..	0	8	0	0	1	0	0	0	0	0	0
Nancowry	31·2	..	33·1	8	24·9	..	22·2	25	33·3	134·8	..	26·2	25	8	..	0·2	0·2	..	2	10	0	0	3	0	0	0	0	0	0
Kondul	28·6	..	29·7	27	24·7	..	22·3	15	53·1	118·4	..	31·3	12	11	..	9·8	8·7	..	2	13	0	0	1	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																														
Pasighat	24·1	..	25·5	7,8	11·4	..	9·3	20	0	8·0	..	8·0	18	1	..	10·1	16.6	..	0	1	0	0	0	0	0	0	0	0	0
Digboi	24·0	..	..	..	(g) 8·1	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dibrugarh	24·8	+2·9	26·1	15	8·6	−1·5	6·2	22	0	0	−37·9	0	..	0	−3·7	2·2	1·2	+0·2	0	0	0	0	1	1	0	0	0	0	0
Dibrugarh (Mohanbari Aerodrome)	24·4	..	25·9	11	6·1	..	3·5	22	0	0·4	..	0·4	18	0	..	2·9	1·2	..	0	1	0	0	2	20	0	0	0	0	0
North Lakhimpur	24·3	..	25·7	10	5·5	..	3·6	26	2·0	2·0	..	2·0	18	0	..	..	..	..	0	1	0	0	1	3	0	0	0	0	0
Sibsagar	24·5	+3·1	26·1	7	8·6	−1.2	6·2	27	0	0	−30·7	0	..	0	−3·5	2·0	1·2	−0·6	0	0	0	0	0	0	0	0	0	0	0
Jorhat	24·1	..	25·0	27	7·7	..	5·3	20,21	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	2	0	0	0	0	0
Golaghat	24·4	..	25·7	9	8·8	..	6·1	20	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Gohpur	23·2	..	24·9	27, 29,30	6·3	..	4·2	20	0	0	..	0	..	0	..	4·1	2·6	..	0	0	0	0	0	27	0	0	0	0	0
Tezpur	25·0	+1·8	26·1	17	10·7	−0·7	9·2	26	0	0	−4.7	0	..	0	−1·5	4·2	3·2	+0·5	0	0	0	0	0	2	0	0	0	0	0
Tezpur (P.B.O.)	23·9	..	25·0	30	8·9	..	5·7	25	0	0	..	0	..	0	..	3·0	1·3	..	0	0	0	0	0	3	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	3·9	2·3	..	0	0	0	0	0	5	0	0	0	0	0
Chaparmukh	25·7	..	26·8	29	9.9	..	7.3	20	0	0	.	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Tangla	25·4	..	26·8	9, 15,16	7·5	..	6·0	21,23	0	0	..	0	..	0	..	0·8	0·3	..	0	0	0	0	0	0	0	0	0	0	0
Gauhati	24·5	+0·8	25·8	24,29	10·5	−0·1	8·4	4	0	0	−9·7	0	..	0	−1·1	1·3	1·2	−0.7	0	0	0	0	0	24	0	0	0	0	0
Gauhati (Bhorjor Aerodrome)	24·4	..	25·8	9	7·9	.	5·1	20	0	0	..	0	..	0	..	5·0	2·5	..	0	0	0	0	0	3	0	0	0	0	0
Rangiya	25·5	..	28·2	11	10·3	..	6·1	25	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Goalpara	25·0	..	26·6	25	9·1	..	6·1	19	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	12	0	0	0	0	0
Dhubri	22·7	−0·3	25·1	18	12·0	+0·2	8·9	24	0	0	−7·9	0	..	0	−0·8	5·4	4·2	−0·8	0	0	0	0	0	6	0	0	0	0	0
Dhubri (Rupsi Aerodrome)	24·7	..	26·0	9	8·3	..	5·0	18	0	0	..	0	..	0	..	4·7	2·5	..	0	0	0	0	0	5	0	0	0	0	0
Tura	24·8	..	26·9	4	11·1	..	8·4	18,24	0	0	..	0	..	0	..	4·8	6·4	..	0	0	0	0	0	0	0	0	0	0	0
Agartala	25·8	..	27·4	12	9·0	..	5·8	25	0	0	..	0	..	0	..	8·0	4 0	.	0	0	0	0	0	2	0	0	0	0	0
Kailashar (C.W.O.)	26·7	..	28·3	12,17	9·1	..	6·0	25	0	0	..	0	..	0	..	3·9	2.0	..	0	0	0	0	0	7	0	0	0	0	0
Silchar	23·4	−2·2	27·5	9	11·7	+0·4	8·8	26, 7	0	0	−19·6	0	..	0	−1·5	2.0	1.0	−0·8	0	0	0	0	0	0	0	0	0	0	0
Silchar (Kumbhigram Aerodrome)	27·0	..	28·8	22	11·0	..	8·3	26	0	0	..	0	..	0	..	6·0	8·0	..	0	0	0	0	0	0	0	0	0	0	0
Imphal	22·1	..	23·6	8	3·2	..	0·8	26	0	0	..	0	..	0	..	6·7	3·8	..	0	0	0	0	1	1	0	0	0	0	0
Haflong	21·8	..	23·8	16	10·9	..	8·8	19	0	0	..	0	..	0	..	4·6	3·7	..	0	0	0	0	0	6	0	0	0	0	0
Lumding	25·1	+2·0	27·2	14	6·9	−1·5	3·4	27	0	0	−14·2	0	..	0	−1·4	2·0	5·1	..	0	0	0	0	0	3	0	0	0	0	0
Sub-Himalayan West Bengal																														
Cooch Behar (C.W.O.)	24·8	..	26·6	4	7·9	..	5·0	24	0	0	−6·6	0	..	0	−0·5	3·8	1·5	..	0	0	0	0	0	14	0	0	0	0	0
Jalpaiguri	22·1	−1·5	23·3	13	9·6	−1·0	6·7	18	0	0	−7·9	0	..	0	−0·7	5·3	3·9	+2·5	0	0	0	0	0	0	0	0	0	0	0
Bagdogra	25·2	..	26·7	11	6·6	..	3·4	18	0	0	..	0	..	0	..	7·5	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Malda	24·7	−1·1	27·6	16	11·0	+1·0	8.3	24,28	0	0	−13·7	0	..	0	−0·9	7·5	5·2	+0·9	0	0	0	0	0	0	0	0	0	0	0
Gangetic West Bengal.																														
Dum Dum	26·1	..	28·8	5	11·5	..	8·5	25	0.4	0·4	..	0·4	6	0	..	6·6	3·2	..	0	1	0	0	0	5	0	0	0	0	0
Calcutta	26·4	0	28·6	5	13·1	+0·5	10·2	25,28	0	0	−9·4	0	..	0	−0·8	6·8	3·4	+0·2	0	0	0	0	0	2	0	0	0	0	0
Barrackpore	25·1	..	27·9	6	11·5	..	8·3	29	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Saugor Island	24·9	−1·1	27·1	16,17	15·3	+0·5	12·1	25	0	0	−10·4	0	..	0	−0·9	16.8	12.2	+3.3	0	0	0	0	0	16	0	0	0	0	0
Sandheads	27·1	..	30·5	28	20.8	..	13·5	25	0	0	−4·8	0	..	0	−0·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Contai	26.2	..	28·6	16,17	13·6	..	10·1	25	0	0	..	0	..	0	..	4·8	2·8	..	0	0	0	0	0	3	0	0	0	0	0
Midnapore	25·7	−1·4	28·7	5	12·4	−0.7	8·4	20, 21,25	0	0	−11·9	0	..	0	−0·9	5·5	3·3	+0·7	0	0	0	0	0	0	0	0	0	0	0
Purulia	24·5	..	29·8	12	12·6	..	8·9	28	5·8	9·8	..	5·8	6	2	..	4·7	3·3	..	0	2	0	0	0	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	0	−14·7	0	..	0	−1·2	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Burdwan*																														
Krishnagar	26·5	+0·9	29·4	16	11·0	+0·1	7·8	24,27	0	0	−11·4	0	..	0	−0·9	2·3	1·6	−0·2	0	0	0	0	0	0	0	0	0	0	0
Asansol	25·0	−0·4	28·4	16	12·5	+1·0	9·2	24	2·4	2·6	−14·4	2·4	6	0	−1·4	8·3	5·7	+0·4	1	1	0	0	0	6	0	0	0	0	0
Suri	25·1	..	27·1	4	12·4	..	9·1	25	0	0	..	0	..	0	..	8·3	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Berhampore	25·0	+0·2	27·9	16	12·3	+0.5	9·8	19	0	0	−9·7	0	..	0	−1·0	2·5	1·1	−0·7	0	0	0	0	0	1	0	0	0	0	0
Orissa																														
Baripada	26·6	..	29·8	16	11.8	..	8·3	28	0	1·2	..	1·2	18	0	..	3·7	1·8	..	0	1	0	0	0	26	0	0	0	0	0

(g) Mean of 24 days. *Data not reliable.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 mm. and 0·2 mm.)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Orissa—(*Contd.*)																													
Balasore	26·7	—0·5	29·3	17	13·0	—0·5	9·4	21	0	0	—13·5	0	..	0	—1·0	3·5	1·5	—1·4	0	0	0	0	0	0	0	0	0	0	0
Chandbali	26·6	—0·8	29.9	16, 18,31,	12·5	—1·9	9·4	25	0	0	—5·1	0	..	0	—0·7	8·3	6.0	+0·2	0	0	0	0	0	0	0	0	0	0	0
Cuttack	28·0	—0·4	29·8	17	15·1	—0·3	12 4	20	0	0	—8·1	0	..	0	—0·7	5·3	3.5	+1·7	0	0	0	0	0	0	0	0	0	0	0
Bhubaneswar	27·7	..	29·8	14	15·2	..	11·9	31	0	0	..	0	..	0	..	7·7	6·3	..	0	0	0	0	0	1	0	0	0	0	0
Puri	26·7	—0·1	29·9	17	16·8	—0·8	14·4	31	0	0	—1·4	0	..	0	—0·5	15·0	12.7	+2·7	0	0	0	0	0	0	0	0	0	0	0
Gopalpur	26·7	—0·3	29·6	17	16·3	—0·5	13·6	26	0	0	—1·2	0	..	0	—0·5	14·1	10·6	+0·8	0	0	0	0	0	0	0	0	0	0	0
Koraput	28·4	..	27·8	16	12·4	..	10·0	1,26	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Titilagarh	28·5	..	30·7	1,16	14·4	..	8·5	25	0	0	.	0	..	0	..	(a) 3·0	(b) 2·5	..	0	0	0	0	0	0	0	0	0	0	0
Bolangir	27·4	..	31·2	17	13·6	..	8·6	29	3·7	6·3	..	3·7	8	2	..	4·6	3·7	..	0	2	0	0	0	0	0	0	0	0	0
Angul	26·6	—1·1	28·6	18	13·3	—0·1	9·4	29	0	0	—11·2	0	..	0	—0·9	5·6	4·7	—0·1	0	0	0	0	0	0	0	0	0	0	0
Keonjhar	24·9	..	28·1	5	11·7	..	7·9	28, 29	0	8·6	..	3·6	17	1	..	5·0	3·2	..	0	1	0	0	0	0	0	0	0	0	0
Sambalpur	26·5	—1·2	29·5	5	12·6	—0·2	7·4	25	3·2	28·2	+17·3	25·0	7	2	+1·1	4·4	3·5	+0·1	0	2	0	0	0	1	0	0	0	0	0
Jharsuguda	26·3	..	30·1	27	11·9	..	7·5	29	1·9	20·2	..	14·5	7	2	..	7·2	6·7	..	1	5	0	0	0	1	0	0	0	0	0
Bihar Plateau																													
Jamshedpur	25·9	—1·0	29·4	16	11·6	+0·9	7·0	25	1 2	6·4	—2·7	5·2	17	1	+0·1	5 5	3·2	+0.8	0	3	0	0	0	1	0	0	0	0	0
Jamshedpur (P.B.O.).	25·3	..	28·3	17	11·6	..	7·0	27	3·4	9·2	..	5·7	14	2	..	6·1	3·2	..	3	2	0	0	0	1	0	0	0	0	0
Chaibasa	25·5	—0·7	27·8	5, 16,31	11·6	+0·3	7·7	27	5 0	6·2	—10·1	3·2	6	1	—0·4	2·1	1·1	—1·0	0	3	0	0	0	1	0	0	0	0	0
Ranchi	23·9	+0·8	20.5	1	9·4	—1·2	5·0	28	0	13·0	—10·4	9.0	5	2	+0·2	1·9	1·1	—4·5	0	2	0	0	0	0	0	0	0	0	0
Ranchi (C.W.O.)	21·5	..	24·2	16	10·2	..	5·6	25, 27	0	3·8	..	3.8	5	1	..	9·8	6·0	..	0	1	0	0	0	1	0	0	0	0	0
Daltonganj	24.0	—0·4	27·2	1	8·9	+0·8	3·2	24	0	2·6	—20·8	1·2	15	0	—1·9	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Hazaribagh	22·4	—0·3	25·1	15,16	9·5	—0·7	4·5	25	0·3	1·5	—21·1	1·2	5	0	—1·9	9·1	6·8	—1·6	0	2	0	0	0	0	0	0	0	0	0
Dhanbad	24·4	..	26·4	16	12·5	..	8·9	24	0	2·6	..	2·6	5	1	..	5·1	4·5	..	0	1	0	0	0	8	0	0	0	0	0
Dumka	24.9	+0.5	28.9	16	10·5	0	7·2	26	0	1·4	—15·6	1·4	5	0	—1·3		..	..	0	0	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Purnea	25·1	—1·4	27·2	16	7·9	—0·8	5·3	28	0	0	—20·4	0	..	0	—0·9	4·1	2·0	—0·3	0	0	0	0	0	0	0	0	0	0	0
Forbesganj	26·2	..	28·4	3	27·3	..	5·2	19	0	0	..	0	..	0	..	4·0	3·9	..	0	0	0	0	0	12	0	0	0	0	0
Darbhanga	24·9	+1·4	27.8	16	9·3	—0·6	6·4	23	0	0	—11·2	0	..	0	—1·0	2·8	2·2	—0·1	0	0	0	0	0	0	0	0	0	0	0
Motihari	20·9	—1·9	25	16	8.5	+0·2	6	20 23, 27	0	0	—11.9	0	..	0	—1·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	.	.	..	0	—13·2	0	..	0	—1·1	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chapra	23·8	..	26·4	2,16	10·3	..	6·9	25	1·8	2·4	—12·1	1·8	3	0	—1·3	6 1	4·1	..	0	2	0	0	0	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	4·8	—12·2	4·8	1	1	—0·3	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Patna	23·9	+1·1	27·1	15	11·2	+0·6	7·8	23	0	0	—16·0	0	..	0	—1·3	5·4	5·3	+1·8	0	0	0	0	0	0	0	0	0	0	0
Patna (Aerodrome)	23·6	..	26·6	16	9·5	..	5·2	23	0	0·6	..	0·6	1	0	..	7·2	5·5	..	0	1	0	0	0	0	0	0	0	0	0
Dehri	23·4	..	26·1	15	10·8	..	6·9	27	10·0	11·2	6·1	11·2	3	1	—0·5	6·1	4·3	..	0	1	0	0	0	0	0	0	0	0	0
Gaya	23·4	—0·1	26·3	16	9·5	—0·1	4·4	28	0	0·4	—17·9	0·4	1	0	—1·3	6·7	3·9	+1·2	0	1	0	0	0	1	0	0	0	3	0
Jamui	25·0	..	28·9	16	17·0	..	..	..	0	0	..	5	..	0	..	6·5	2·9	..	0	0	0	0	0	0	0	0	0	0	0
Bhagalpur	23·6	..	27 1	16	11·4	..	8·4	20	0	0	..	0	..	0	..	7·3	5·1	..	0	0	0	0	0	0	0	0	0	0	0
Sabour	24·4	+1·1	27·3	16	8·4	+1·2	4·7	26	0	0	—13·7	0	..	0	—1·1	9·0	5·1	+0·1	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (East)																													
Gonda	22·9	—0·3	25·9	16	7·9	+0·2	5·0	10	0	15·5	+2·6	15·2	14	1	—0·2	5·6	3·7	—0·6	0	2	0	1	2	0	0	0	0	0	0
Nautanwa	19·7	..	22·1	16	7·5	..	5·3	24	0	0	..	0	..	0	..	4.7	2·4	..	0	0	0	0	0	0	0	0	0	0	0
Gorakhpur	24.2	+1·4	26·9	16	10·1	+0·9	7·6	19	0	0	—15·0	0	..	0	—1·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Azamgarh	24·1	..	26·5	16	8·5	..	5·5	22, 25	0	11·6	..	9·6	2	1	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Ballia	24·1	..	25·8	16	9·4	..	6·2	20	0	4·0	..	4·0	1	1	..	5.1	2·5	..	0	1	0	0	0	2	0	0	0	0	0
Varanasi (Banaras)	22·7	—0·7	25·6	14,31	9·8	+0·9	5·1	20	3·6	13·2	—5.6	7·6	1	2	+0·5	(g) 5·7	(g) 4·3	+0.2	0	3	0	0	0	5	0	0	0	0	0
Varanasi (Banaras) (Babatpur Aerodrome).	22·8	..	26·2	31	8·6	..	3·9	25	5·3	18·7	..	11·8	1	2	..	10·3	6·6	..	0	4	0	0	0	2	0	0	0	0	0
Allahabad (Bamrauli).	23·0	—0·2	28·0	31	9·1	+0·7	5·0	23	13·1	12·4	—6·2	12·4	3	1	—0·1	5·6	3·6	—0·6	0	3	0	0	2	2	0	0	0	0	0
Sultanpur	23·0	..	26·2	31	8·4	..	4·9	25	0	4·2	..	4·2	2	1	..	3·9	3·6	..	0	1	0	0	0	0	0	0	0	0	0
Faizabad	23·5	..	26·1	31	7.0	..	3·8	25	0·6	5·7	..	2·1	14	0	..	5·1	2·6	..	0	4	0	1	3	0	0	0	0	0	0
Banda	23·5	..	27·8	31	7·8	..	3.7	25	11·0	14·2	..	11.0	3	2	..	4·5	2.3	..	0	3	0	0	1	0	0	0	0	0	0
Fatehpur	22·8	—1·2	27·2	31	8·3	+0·3	3·5	25	8·4	15·8	+2·1	8·4	3	2	+0·6	7·4	3·9	+0·7	0	3	0	0	1	0	0	0	0	0	0
Kanpur	23·1	+0·9	27·4	31	8·2	+0·6	3·8	25	0	5·0	—9·2	5·0	14	1	—0·4	13·1	8·3	+4·6	0	1	0	0	0	6	0	0	0	0	0
Kanpur (Aerodrome)	23·1	..	27·3	31	7·3	..	3·4	25	0	0	..	0	..	0	..	..	..	..	0	0	0	0	1	2	0	0	0	0	0
Lucknow	23·4	+0·1	26·6	31	7·9	—0·5	5·8	26	0	0	—19·3	0	..	0	—1·5	5·1	3·2	+1·1	0	0	0	0	2	1	0	0	0	0	0
Lucknow (Amausi Aerodrome)	23·0	+0·1	26·7	31	6·1	—1·5	2·8	25, 26	0·8	12·6	—6·7	12·6	14	1	—0.5	10·2	7·1	..	0	1	0	0	2	2	0	0	0	0	0

(b) Mean of 29 days. (g) Mean of 24 days. (a) Mean of 30 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830—1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1703 hours	Mean 24 hours	Departure from normal	Precipitation 0·1 and 0·2 mm)	Precipitation(0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—*(contd.)*																															
Hardoi	23·0	..	26·7	31	6·8	..	4·2	25	1·8	1·8	..	1·8	14	0	..	7·7	4·9	..	0	1	0	0	0	2	0	0	0	0	0
Lakhimpur Kheri	23·5	..	26·4	31	7·6	..	4·8	10	0	0	..	0	..	0	..	4·6	3·0	..	0	0	0	0	2	0	0	0	0	0	0
Bahraich	23.4	+0·8	26·1	16	8·0	−0·4	5·0	25	2.0	5·2	−15·6	3·2	14	1	−0·6	6·8	4·7	+2·1	0	2	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																															
Orai	23.1	..	27·8	31	6·3	..	2·6	18	0	0	..	0	..	0	..	9·9	7·3	..	0	0	0	0	0	0	0	0	0	0	0
Jhansi	23·6	−0 9	28·9	31	8·2	−0·4	3·9	24	0	0	−13·7	0	..	0	−1·2	3·9	3 2	−0·3	0	0	0	0	0	0	0	0	0	0	0
Agra	22·5	−0·1	27·8	31	6·6	−0·2	2·8	24	0	0	−12·9	0	..	0	−1·2	4·4	2·9	−1·4	0	0	0	0	0	2	0	0	0	0	0
Agra (Aerodrome)	22·5	..	27·9	31	5·7	..	1·6	24	0	0·8	..	0·4	13,15	0	..	..	..	..	0	2	0	0	2	2	0	0	0	0	0
Mainpuri	23·4	+0·5	26·2	13	6·7	−0·9	3·3	25	0	0	−14·5	0	..	0	−1·3	0·9	1·2	−1·1	0	0	0	0	0	0	0	0	0	0	0
Aligarh	21·8	+0·2	27·4	31	6·4	−0·9	3·2	23,24	1·4	5·2	−6·5	3·0	15	1	−0.2	7·5	5·5	+0.2	0	2	0	0	1	1	0	0	0	0	0
Bareilly	22·7	+1·1	26·2	31	7·9	0	4·9	19	0·8	2·6	−22·5	1·8	13	0	−1·9	4·5	2·3	−0·1	0	2	0	1	2	7	0	0	0	0	0
Meerut	21·3	+0·2	25·8	31	6·2	−1·0	3·4	10	..	17·0	−14·7	7·0	14	3	+0·5	..	4·2	..	0	3	0	0	0	0	0	0	0	0	0
Najibabad	20·9	..	25·1	3	5·2	..	2·4	9	4·2	35·0	..	20·4	21	4	..	5·3	3·1	..	0	4	0	0	3	2	0	0	0	0	0
Roorkee	19·9	−0·3	24·0	3	6·6	+0·1	4·1	5,9,10	2·8	64·6	+22·2	36·6	21	4	+1·2	4·5	2·8	−0·1	0	4	0	1	3	0	0	0	0	0	0
Dehra Dun	18·9	0	21·9	3	6·0	−0·7	1·2	22	23·3	74·7	+15·8	39·9	21	3	−0·9	4·2	3·5	+1·1	2	5	0	1	3	0	0	0	0	0	0
Punjab (India) (Including Delhi)																															
New Delhi	21·5	+0.4	26.9	31	6.6	−0.7	4.1	24	1.6	11.6	−13.5	11.1	13	1	−1.0	11.8	7.5	−1.5	1	2	0	0	2	12	0	0	0	1	0
New Delhi (Palam Aerodrome)	21·0	..	..	..	6·1	..	..	..	9·3	12·9	..	9·5	13	2	..	..	..	..	0	2	0	0	4	5	0	0	0	1	0
Hissar	21·5	−0·1	26·4	30,31	5·1	−0·1	2·3	22	11·4	11·4	−1·3	9·6	13	1	−0·4	6·5	5·5	+0·2	0	2	0	1	2	0	0	0	0	0	0
Karnal	20·5	..	24·4	3	5·4	..	2·8	23	4·0	46·9	..	36·3	14	2	..	(b) 7·6	(b) 5·3	..	0	3	0	0	1	0	0	0	0	0	0
Patiala	19·9	..	25·0	31	5·7	..	2·3	25	8·6	9·8	−27·8	6·4	15	1	−2·0	8·0	6·3	..	0	3	0	0	2	0	0	0	0	0	0
Ambala	21·1	+0·5	26·2	3	5·9	−0·5	3·2	5	13·4	13·4	−20·1	7·0	14	2	−0·5	7·5	5·7	+1·7	0	2	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	20·1	..	24·6	31	4·2	..	1·2	10	12·6	15·1	..	10·1	14	2	..	..	..	..	0	3	0	0	1	0	0	0	0	0	0
Chandigarh	20·4	..	25·1	3	6·4	..	2·2	23,24	14·2	25·7	..	10·2	15	3	..	..	..	..	1	3	0	0	0	0	0	0	0	0	0
Ludhiana	20·3	+0·9	25·1	29,31	4·5	−2 0	0·8	4	6.2	11·4	−26·9	6·2	15	2	−0·7	4·8	3·0	+0·9	0	3	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	19·2	..	23·1	4,31	3·0	..	0·4	26	11·1	11·1	..	7·6	15	2	..	..	..	..	0	2	0	0	2	5	0	0	0	0	0
Bhatinda	20.0	..	23·6	31	3·2	..	..	..	0	3·8	..	2.0	14	0	..	(d) 6·9	(c) 5·2	..	0	2	0	0	0	1	0	0	0	0	0
Ferozepur	19·6	..	22·7	11,31	4·0	..	0·8	5	4·6	6·4	..	4·6	15	1	..	1·9	0·7	..	0	2	0	0	0	0	0	0	0	0	0
Amritsar	18.8	..	22.1	31	3·6	..	1.6	5,18	21·0	23.2	..	20.8	15	1	..	7·0	6·0	..	0	2	0	0	1	0	0	0	0	3	0
Pathankot (Aerodrome)	19.0	..	23.6	31	5.0	..	1.8	23	20.3	59.5	..	35·0	21	4	..	7·1	6·2	..	0	5	0	0	3	0	0	0	0	0	0
Adampur (Aerodrome)(R)																															
Himachal Pradesh																															
Bilaspur	19·1	..	24·9	31	3·1	..	0·3	23	17·9	39·3	..	16·2	15	4	..	3·9	2·5	..	0	6	0	0	1	23	0	0	0	0	0
Mandi	17·8	..	22·6	4,31	2·0	..	0	24	21·4	60·0	..	23·6	15	5	..	2·2	1·5	..	0	6	0	0	1	11	0	0	0	0	0
Jammu and Kashmir																															
Srinagar	5·1	+0·1	9·9	1,3,5	−3·5	−0 9	−9·4	24	20·9	33·3	−40·4	15·4	20	4	−2.1	4·9	4·3	+0·8	0	6	5	0	0	1	21	0	0	0	0
Srinagar (Aerodrome)	4·8	..	9.3	9	−4·3	..	−11.8	24	20.0	42·3	..	19.2	20	4	..	..	..	..	0	5	5	0	0	1	0	0	0	0	0
									Closed during winter month																						
Gulmarg	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sonemarg	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	0	0	0	0	0	0	0	0
Dras (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leh	−1·2	+0 2	1·7	11,29, 31	−13·6	−0·3	−18.4	24	0	29·8	+20·1	8·5	20	3	+2·0	4·7	4·3	+2·5	0	4	5	0	0	0	0	0	0	0	0
Skardu (R)																													
Gilgit (R)																													
Misgar (R)																													
Jammu† Jammu (Aerodrome)	18·8	..	22·2	31	6·5	..	2.5	23	10.2	49.1	..	35·6	..	4	..	..	..	..	0	4	0	0	3	0	0	0	0	0	0
Rajasthan (West)																															
Sri Ganganagar	20·8	+0·9	24·4	10	5·6	+2·2	3·1	22	0·6	4·9	−6.5	3·8	15	1	−0·3	4·8	3·1	−2·5	0	3	0	0	0	1	0	0	0	0	0
Churu	22·5	..	27·9	30	4·0	..	−0·7	22	0	0	..	0	..	0	..	7·0	5·0	..	0	0	0	0	1	2	0	0	0	0	0
Bikaner	23.4	+1·5	28·4	29	3·9	−1·0	−1·2	24	0	2·6	−4·3	2·6	14	1	+0·2	5·1	4·3	−0·5	0	1	0	0	0	1	0	0	0	0	0
Jaisalmer	24·2	..	27·8	28	6·9	..	1·6	16	0	0	..	0	..	0	..	10·1	8.3	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	23·0	..	28·0	29	6·8	..	3·2	23	0	0	−3·6	0	..	0	−0·5	9·2	6·5	..	0	0	0	0	0	0	0	0	0	0	0
Nagaur	23·6	..	27·5	29	6·0	..	1·1	16	0	0	..	0	..	0	..	5·9	4·3	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	24·9	+0·3	28·5	29	9·4	+0·2	3·8	16	0	0	−3·8	0	..	1	−0·3	5·8	4·7	−6·4	0	0	0	0	0	0	0	0	0	0	0
Barmer	25·4	+0·7	29·6	28	10·7	+0·7	7·1	16	0	0	−4·6	0	..	0	−0·4	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Rajasthan (East)																															
Pilani	22·2	..	27.8	30	4.6	..	0.5	23,24	3·0	3.0	..	3·0	13	1	..	9·2	7.3	..	0	1	1	0	0	0	0	0	0	0	

(b) Mean of 19 days. (c) Mean of 28 days. †Temporarily closed. (R) Register not received. *Data not reliable. (d) Mean of 27 days.

Division and station	Air temperature in °C								Rainfall in millimetres				No. of rainy days (2·5 mm. or more)			Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East) Contd.																														
Alwar	22·2	..	28·1	31	6.0	..	3·1	25	1·6	2·6	..	2·6	13	1	..	4.9	2.7	..	0	1	0	0	0	0	0	0	0	0	0
Sikar	22·6	..	27·3	30	4.9	..	—1·1	24	0	0	..	0	..	0	..	6·0	4·7	..	0	0	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer Aerodrome).	22·4	..	26·2	31	7·3	..	2·3	24	0	1·9	..	1·9	13	0	..	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Dholpur	22·6	..	28·1	31	6·4	..	2·2	25	0	5·0	..	5.0	15	1	..	6·5	4·2	..	0	1	0	0	2	3	0	0	0	0	0
Tonk	23·6	..	27·8	30	5·8	..	1·1	24	0·7	0·7	..	0·7	10	0	..	7·3	5·0	..	0	1	0	0	2	3	0	0	0	0	0
Ajmer	22 0	—0·6	25·8	30	5·9	—1·7	1·9	18, 24	0	0·4	—9·0	0·4	13	0	—1·0	6·9	4·6	+2·0	0	1	0	0	0	0	0	0	0	0	0
Kotah	24·5	—0 6	28·4	31	9·9	—0·7	5·9	24	1·2	1·3	—4·8	1·1	13	0	—0·6	2·1	1·5	—0 6	1	1	0	0	2	0	0	0	0	0	0
Chambal	24·6	..	28·6	31	6·3	..	0·8	24	0	0·1	..	0·1	13	0	..	6·4	5·0	..	1	0	0	0	2	1	0	0	0	0	0
Jhalawar	24·6	—0·9	29.4	31	8·7	—0·1	3·6	18, 19	0	0	—7·1	0	..	0	—0·7	5·3	3·7	+0·5	0	0	0	0	0	0	0	0	0	0	0
Udaipur	23 2	—1·1	26·7	12	6·8	—1·8	1·8	23	0	3·8	—1 3	3·8	11	1	+0·6	4.3	2·5	..	0	1	0	0	1	0	0	0	0	0	0
Erinpura (Jawai Dam).	25·8	..	29 4	29	8·2	..	2.8	23, 24	2·2	2 2	..	2·2	10	0	..	4·1	3·5	..	0	1	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																														
Gwalior (P.B.O.)	23·1	+0 2	28·6	31	6·1	—1·7	2·4	24	8·0	8·6	—10·2	8·0	15	1	—0·5	7 3	4 0	..	0	2	0	0	3	4	0	0	0	0	0
Sheopur Kalan	22·5	..	27·0	13	6·4	..	2·5	24	1·2	5·0	..	3·8	13	1	..	6·9	5·3	..	0	2	0	0	2	0	0	0	0	0	0
Guna	23·3	—1·8	27·3	13,31	7·0	—0·6	1·1	23	0·3	2·8	—3·8	2·2	3	0	—1·2	9·0	5·8	..	0	2	0	0	0	4	0	0	0	0	0
Rajgarh	24·7	..	29·5	31	7·5	..	1·6	19, 24	14·2	15·7	..	12·9	4	1	..	6·7	5·1	..	0	3	0	0	0	0	0	0	0	0	0
Neemuch	24·0	—1·1	27·9	30	8·9	—0·3	4·2	23	2·2	3·8	—1·3	2·0	11	0	—0·4	7·4	6·1	—0·3	1	2	0	0	0	2	0	0	0	0	0
Ratlam	24·4	..	28·5	31	9·8	..	6·0	23, 24	27·4	33·8	..	12·7	7	4	..	12·8	9·9	..	0	6	0	0	3	1	0	0	0	0	0
Alirajpur	26·9	..	30·6	31	11·2	..	6·0	18	2 0	3 8	..	2·0	10	0	..	7·2	4·1	..	0	2	0	0	0	0	0	0	0	0	0
Indore	23·7	—2·7	29·4	31	8·9	—0·8	2·2	23	25·8	39·9	+33 8	11·2	11	5	+4·5	11·7	8·7	..	0	8	0	1	4	4	0	0	0	0	0
Ujjain Bhopal (Bairagarh)	23·2	—3·1	28·6	31	9·4	—0.5	4·3	19, 23	19·0	41·3	+35·2	16·6	3	4	+3·2	9·9	8·2	0	0	6	0	0	1	2	0	0	0	1	0
Khandwa	27 6	—1·7	32·0	31	10·7	—0·7	4·2	28	16·8	32·8	+24 9	10·8	10	3	+2·4	8.2	6·4	+2·1	0	6	0	0	2	5	0	0	0	0	0
Hoshangabad	24·2	—2·7	29·3	31	12·0	—0·3	6·2	24	7 0	46·2	+36 0	27·8	2	4	+3·1	6·0	4·5	+1·1	0	5	0	0	1	0	0	0	0	0	0
Betul	24·5	..	29·1	31	11·2	..	3·8	23	12·4	36·4	..	10·8	7	3	..	5·7	4·1	..	1	10	0	0	3	1	0	0	0	0	0
Chhindwara	23·7	..	29·1	31	10·6	..	3·2	24	92·1	143·5	..	75·4	7	7	..	6·4	4·7	..	1	10	0	0	4	0	0	0	0	0	0
Seoni	23·7	—2·3	29·0	31	10·7	—0·4	5·2	24	50·7	69·8	+55·8	32·2	7	5	+3·8	8·1	5·5	+1·8	0	11	0	0	4	1	0	0	0	0	0
Sagar	22·0	—3·2	26·7	31	11·5	+0·1	6·6	22	38·0	74·0	+59·5	38·0	3	4	+2.7	6.9	6·6	..	0	4	0	0	2	1	0	0	0	0	0
Nowgong	23·6	—0·2	28·5	31	6·6	—1·5	1·7	24	3·4	3·4	—11·6	3·4	3	1	—0·5	5·1	2·5	+0·7	0	1	0	0	1	1	0	0	0	0	0
Madhya Pradesh (East)																														
Sutna	23·1	—0·8	27·0	31	9.1	+0.2	3·5	24	14 0	59·4	+38 3	30·2	2	3	+1.2	4·6	3.0	—0·4	0	6	0	0	2	0	0	0	0	0	0
Sidhi	23·3	..	26·4	8	8·2	..	2·5	25	17·8	17·8	..	17·8	2	1	..	5·2	2·6	..	0	1	0	0	4	0	0	0	0	0	0
Umaria	23·3	—1·7	26·9	31	8·4	+0·3	3·1	24	34·2	84·0	+58·3	47.6	7	5	+2 9	1·6	0·8	—2·6	0	9	0	0	3	3	0	0	0	0	0
Jabalpur	24·1	—1·1	28·8	31	9·8	+1·0	3·7	23	18·7	55·4	+34·6	18·8	2	6	+4·3	4·9	3·3	+1·0	1	8	0	0	2	3	0	0	0	0	0
Mandla	23·9	..	28·7	2	9·2	..	2·7	24	24·0	52·4	..	17.6	14	6	..	2·8	1·5	..	1	9	0	0	3	12	0	0	0	0	0
Pendra	21.8	—1·9	25·0	30	10·3	0	5·5	24	23·7	43·1	+21·5	10.2	16	7	+5·3	7·7	5·3	..	0	7	0	0	1	2	0	0	0	0	0
Ambikapur	22·4	..	27·2	1	8·5	..	3·4	24	5·4	32.6	..	18·6	7	3	..	6·4	4·7	..	0	8	0	0	0	2	0	0	0	0	0
Champa	25·9	..	28·4	4,5	12·8	..	8·5	20	0	27·2	..	19.6	7	3	..	5·1	5 1	..	0	5	0	0	1	2	0	0	0	0	.
Raigarh	26·7	..	29·5	17	11·7	..	7·0	25	2·7	23·3	..	20·2	7	1	..	4·7	4·2	..	0	4	0	0	0	0	0	0	0	0	0
Raipur	26·3	—1·3	29·4	14	13·0	—0·2	9·1	25	1·0	13·3	+5·9	5·8	14	2	+1·2	5·9	4·9	+0·4	0	5	0	0	0	2	0	0	0	0	0
Kanker	27·3	—0·8	29·4	1,14	13·1	+1·8	8·0	25	0·4	0·4	—4·7	0·4	8	0	—0·5	4·5	3·2	+0·3	0	1	0	0	0	0	0	0	0	0	0
Jagdalpur	28·5	+0·6	30·3	1,16	12·7	+1·2	9·2	25	0	0	—9·9	0	..	0	—0·7	(c) 4·5	(b) 2·5	..	0	0	0	0	0	3	0	0	0	0	0
Gujarat																														
Deesa	27·4	..	30·4	10	9·6	..	5·5	21	2·2	2·2	..	2·2	11	0	..	9·0	7·8	..	0	1	0	1	1	0	0	0	0	0	0
Radhanpur	26·8	..	29·8	11	10·1	..	5·6	22	0	0	..	0	..	0	..	6·2	4·6	..	0	0	0	0	0	0	0	0	0	0	0
Idar	26·6	..	29·2	31	14·7	..	8·5	20	0	2·2	..	2·2	9	0	..	8·0	7·9	..	0	1	0	0	1	0	0	0	0	0	0
Ahmedabad	27·7	—1.4	30·3	29	11·4	—0·2	7·4	17, 18, 20	0	6·3	+5·8	3·7	10	2	+1·9	11·6	6·9	+2·9	0	2	0	0	2	0	0	0	0	1	0
Dohad	25·9	—3·0	..	..	11·4	+0·3	5·4	23	0·1	0·6	—1·7	0·4	10	0	—0·2	10·8	8·5	..	1	1	0	0	2	0	0	0	0	0	0
Baroda	29·4	—0·8	32·2	10	11·7	+1·9	6.7	18	0	2·0	+0·5	2·0	8	0	—0·1	5·5	4·4	+0·1	0	1	0	0	0	1	0	0	0	0	0
Baroda (Aerodrome)	29·1	..	32·4	10	11.7	..	6·6	18	0	3·8	..	3·8	8	1	..	10·9	8·0	..	0	1	0	0	0	0	0	0	0	0	0
Broach	31·3	..	34·0	11	11·9	..	7·8	22	0	0	..	0	..	0	..	8·5	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Surat	31·2	+0·3	34·2	9	14·6	+0·3	10.5	19	0	0	—2·8	0	..	0	—0·2	9·8	8·8	+4·3	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																														
Naliya	26·8	..	30·1	11	8·0	..	3·3	16, 23	0	0	..	0	..	0	..	15·1	10·5	..	0	0	0	0	0	6	0	0	0	0	0
Bhuj (Aerodrome)	26·4	+0·8	30·1	11	8·3	—2·4	3·5	17	0	0	—2·0	0	..	0	—0.2	12·5	8·5	—0·5	0	0	0	0	0	0	0	0	0	0	0
Bhutaki Bhimasar	26·5	..	30·3	12	11·8	..	6·0	20	0	0	..	0	..	0	..	16·3	14·9	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	25·1	..	29.6	12	14·0	..	10.7	17	0	0	..	0	..	0	..	12·6	13·3	..	0	0	0	0	0	0	0	0	0	0	0

(b) Mean of 29 days. (c) Mean of 28 days. *Data not available

Division and station	Air temperature in °C								Rainfall in millimeters					No. of rain days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—(*Contd.*)																													
mandvi	..	..	..	..	13·9	..	10·2	27	0	0	..	0	..	0	..	17·4	15·5	..	0	0	0	0	0	0	0	0	0	0	0
Dwarka	25.5	0	28·7	11	14·9	−0·4	12.3	25	0	0	−2.5	0	..	0	−0·3	18·8	14·7	+1·5	0	0	0	0	0	0	0	0	0	0	0
Porbander	27·6	..	30 6	8	15·2	..	11·1	18	0	0	..	0	..	0	..	12·1	10.5	..	0	0	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome)	..	..	..	..	..	..	..	..	..	..	1·0	..	..	..	..	15.4	13·5	..	..	..	0	0	0	0	0	0	0	0	0
Jamnagar	25·5	−1.4	28.3	12	10·2	0	5.7	17	0	0	−1 3	0	..	0	−0·1	..	..	..	0	0	0	0	0	2	0	0	0	0	0
Rajkot (Aerodrome)	27·6	−0·9	31·7	10	10·5	−0·1	5.6	17	0	0	−1·0	0	..	0	−0·1	17·6	12·5	..	0	0	0	0	0	3	0	0	0	0	0
Surendranagar	27·5	..	30·9	12	12·7	..	8·6	22	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar	28·4	−0·5	31·4	10	11·6	−0·6	6.3	18	0	0	−2 3	0	..	0	−0·1	10·5	7·0	+1·2	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar (Aerodrome)	27·1	..	30·0	12	13·3	..	8.6	18,19	0	0	..	0	..	0	.	17·3	14·6	..	0	0	0	0	0	0	0	0	0	0	0
Mahuva	29·4	..	33.5	27	15·5	..	10.1	20	0	0		0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Keshod	29·3	..	32.2	10	11.8	..	6.9	17,18	0	0	..	0	..	0	..	18.5	14·3	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	28.7	..	32·2	31	13·3	..	8.9	22	0	0	−1·0	0	..	0	−0·1	17·9	15·0	..	0	0	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu	27·5	−0·1	33·7	9,25	16·2	−0·5	12·7	28	0	0	−2 3	0	..	0	−0·2	19·6	12·5	+0·3	0	0	0	0	0	0	0	0	0	0	0
Bombay (Colaba)	30·0	+1·6	33·8	24,25	19·3	0	15·9	27	0	0	−3 6	0	..	0	−0.2	10·2	8·8	−1·8	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz Aerodrome)	30·6	+1·6	34·2	25	16·8	+1·5	12·0	29	0	0	−0·3	0	..	0	0	12·0	8.4	..	0	0	0	0	0	0	0	0	0	0	0
Alibag	28·6	+0·5	33·4	24	18·3	+0·8	13·5	28	..	0	−1·3	0	..	0	−0·2	..	7·8	+0·4	0	0	0	0	0	0	0	0	0	0	0
Harnai	28·4	+0·7	32·5	24,25	22·2	+0·9	18·9	29	0	0	−2·5	0	..	0	−0·6	14·5	13·1	+0·9	0	0	0	0	0	0	0	0	0	0	0
Ratnagiri	30·9	..	34·8	24	19·2	..	15·2	29	0	0	−2·0	0	..	0	−0.1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Devgad	30·6	+0·6	32·8	24,25	21·6	+0 5	18·4	28	0	0	−4·8	0	..	0	−0·4	15·7	12·8	−4·3	0	0	0	0	0	0	0	0	0	0	0
Vengurla	32·3	..	34·7	9	18·5	..	12·0	29	0	0	..	0	..	0	..	9.6	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Maharashtra (Including Marathwada)																													
Nandurbar	29·0	..	32·2	31	15·8	..	12·4	27	0·4	3·4	..	3·0	3	1	..	8·2	6·5	..	0	2	0	0	0	0	0	0	0	0	0
Jalgaon	29·0	..	32·6	31	13·0	..	7·8	21	1·0	24·7	+16·1	21·8	3	1	+0·4	12·2	10.9	..	1	3	0	0	6	0	0	0	0	0	0
Malegaon	29·8	−0·3	32·8	31	12·1	+0·8	6·5	28	1·3	11·6	+7·3	7·1	3	2	+1·7	7·6	6·1	+0·3	0	3	0	0	0	0	0	0	0	0	0
Deolali	29·5	..	32·0	31	12·1	..	6·3	27	0	0	..	0	..	0	..	9·4	5·5	..	0	0	0	0	0	0	0	0	0	0	0
Aurangabad	29·7	+0·4	32·6	31	15.8	+2·1	12·0	14	1·0	1·8	−5.6	1·0	14	0	−0·5	8·7	8.3	+0·9	0	2	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome)	28·9	..	32·1	31	12·3	..	6·2	27	1·2	3·2	..	2·0	2	0	..	10·3	7·2	..	0	2	0	0	1	0	0	0	0	0	0
Khandala	..	..	..	..	..	..		..	..	0	−2·5	0	..	0	−0·1	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ahmednagar	30·6	+1·4	33·4	31	13·7	+1·9	10·0	21,27	0	0	−5·3	0	..	0	−0·4	8·2	6·3	+0·3	0	0	0	0	0	0	0	0	0	0	0
Parbhani	30·3	..	33·1	31	14·3	..	11·2	24	0	3·0	−6·1	2.8	1	1	+0·3	8·7	6·7	..	1	1	0	0	0	0	0	0	0	0	0
Nanded*																													
Poona	31·2	+0·9	33·8	31	13·0	+1·3	7·7	28	0	0	−1·5	0	..	0	−0.2	4·1	2·3	−3·7	0	0	0	0	0	0	0	0	0	0	0
Poona (Lohagaon Aerodrome)	30·1	..	32·3	31	14·0	..	8·9	28	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Baramati	31·0	..	33·0	30	14·4	..	9·2	28	0	0	..	0	..	0	..	8·1	6·9	..	0	0	0	0	0	0	0	0	0	0	0
Jeur	30·7	..	33·0	27	13·5	..	6·7	28	0	0	..	0	..	0	..	10·1	6·6	..	0	0	0	0	0	0	0	0	0	0	0
Sholapur	31·3	+0.5	34·3	20	16·3	+1·1	11·9	28	0	0	−3·8	0	..	0	−0·3	9·7	7·8	−1·4	0	0	0	0	0	0	0	0	0	0	0
Miraj	31·0	+0 9	33·0	31	14·7	+0·5	8·9	29	0	0	−0·3	0	..	0	−0.1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Kolhapur	31·3	+0·9	33·2	31	15·1	+0·4	10·0	28	0	0	−2·5	0	..	0	−0·4	9·5	7·5	−1·2	0	0	0	0	0	5	0	0	0	0	0
Vidarbha																													
Buldhana	26·7	..	30·8	30	14.8	..	11·0	18	22·5	34·0	..	13·2	14	3	..	9·1	7·8	..	0	4	0	0	0	0	0	0	0	0	0
Akola	28·6	−1·5	32·6	1	14·5	+1·8	7·9	24	12·0	40·4	+31·5	12·5	7	5	+4.3	7·1 (j)	6·1 (k)	+1·8	0	5	0	0	0	0	0	0	0	0	0
Amravati	27·5	−1·8	30·6	1,31	14·9	−0·2	8·8	24	2·4	96·1	+86·7	53·6	7	8	+7·2	9·6	9·8	+4·0	0	9	0	2	4	0	0	0	0	0	0
Yeotmal	27·3	..	31·0	27	15·3	..	11·8	24	0	54·2	..	36·0	7	4	..	9·0	7·6	..	0	4	0	0	0	0	0	0	0	0	0
Nagpur	26·8	−1·8	29·9	31	12·8	0	6·2	24	12·0	104·0	+94·6	60.3	7	7	+6·2	7·7	6·6	..	1	10	0	0	5	0	0	0	0	2	0
Gondia	26·1	..	29·0	1,4,31	13·9	..	8·0	24	6·2	28·0	..	17·0	7	3	..	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Brahmapuri	27·4	..	29·9	30,31	14·9	..	9·1	24	7·2	48.1	..	26·0	6	4	..	6·4	4.3	..	0	6	0	0	0	0	0	0	0	0	0
Chanda	28·8	−0·8	30·8	27,30, 31	13·7	+0·7	7·9	24	0	1·2	−6·7	1·2	14	0	−0·5	6·5	4·6	+2·0	0	1	0	0	0	0	0	0	0	0	0
Sironcha	30·2	..	31·9	30	16·8	..	12·9	25	0	0	..	0	..	0	..	5·5	3·9	..	0	0	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Nellore	29·1	+0·1	30·7	27	20·8	+1·1	19·0	12,13	0·8	1·2	−32·1	0·8	22	0	−1·4	10·0	6·0	+1·5	0	2	0	0	0	0	0	0	0	0	0
Ongole	29·2	..	30·4	18	20·7	..	16·9	14	0	0	..	0	..	0	..	7·2	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Rentichintala	31·9	+1·2	33·6	27	19·0	+2·5	16·3	17	0	0	−0·3	0	..	0	0	6·1	4·2	−1·1	0	0	0	0	0	0	0	0	0	0	0
Gannavaram	29·9	..	31·0	18	20·1	..	17·4	17	0	0	..	0·4	21	0	..	13·8	10·1	..	0	1	0	0	0	0	0	0	0	0	0

(j) Mean of 21 days. (k) Mean of 21 days *Data not available.

Division and station	Air temperature in °C								Rainfall in millimeters					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—*Contd.*																													
Masulipatam	28·0	−0·3	29·9	11	19·0	+0·1	18·3	7days	0	5·4	+0·3	5·4	21	1	+0·7	14·4	10·3	+0·4	0	1	0	0	0	0	0	0	0	0	0
Nidadavolu	29·9	..	31·6	19	17·5	..	14·1	17	0	0	..	0	..	0	..	10·5	8·1	..	0	0	0	0	0	0	0	0	0	0	0
Kakinada	27·6	+0·3	28·4	17,18	19·9	+0·8	17·4	14	0	0·8	−6·3	0·8	21	0	−0·5	17·0	13·5	+4·6	0	1	0	0	0	0	0	0	0	0	0
Visakhapatnam	29·2	−0·1	32·0	17	18·9	+0·1	15·5	31	0	0	−10·9	0	..	0	−0·5	16·3	9·8	+5·1	0	0	0	0	0	0	0	0	0	0	0
Calingapatam	27·0	−0·7	29·4	14,31	18·3	+0·8	13·9	31	0	0	−5·6	0	..	0	−0·6	13·5	8·8	+1·1	0	0	0	0	0	0	0	0	0	0	0
Telangana																													
Ramagundam	31·0	..	33·2	30	16·3	..	12·2	24	0	0	..	0	..	0	..	7·8	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Nizamabad	30·0	−0·1	32·8	27	17·0	+2·8	13·0	24	0	2·4	−1·0	1·4	14	0	−0·4	3·2	2·4	−1·0	0	2	0	0	0	0	0	0	0	0	0
Mahbubnagar	29·5	..	32·6	28	17·0	..	15·3	16,17	0	0	..	0	..	0	..	10·2	8·9	..	0	0	0	0	0	0	0	0	0	0	0
Hyderabad (Begumpet Aerodrome)	28·4	+0·1	31·2	28	17·0	+2·3	14·3	24	0	0	−7·9	0	..	0	−0·5	12·2	8·6	+1·4	..	..	..	..	..	..	..	..	..	..	..
Hakimpet	27·5	..	30·7	30	16·6	..	14·6	24	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	5	0	0	0	0	0
Hanamkonda	30·6	+1·2	32·3	27	18·3	+1·7	14·6	24	0	0	−10·2	0	..	0	−0·7	9·0	7·3	+1·5	0	0	0	0	0	0	0	0	0	0	0
Bhadrachallam	31·0	..	33·0	29	18·2	..	14·6	17	0	0	..	0	..	0	..	6·2	4·6	..	0	0	0	0	0	4	0	0	0	0	0
Khammameth	31·3	..	33·2	26	19·4	..	16·0	17	0	0	..	0	..	0	..	5·2	3·8	..	0	0	0	0	0	0	0	0	0	0	0
Rayalaseema																													
Arogyavaram	27·1	..	29·7	28	14·7	..	12·4	13	0	0	..	0	..	0	..	8·2	5·4	..	0	0	0	0	0	0	0	0	0	0	0
Cuddapah	30·7	−0·5	34·2	27	18·7	0	16·4	17,18	0	0	−9·9	0	..	0	−0·6	9·7	7·6	−3·0	0	0	0	0	0	0	0	0	0	0	0
Anantapur	30·8	..	33·5	28	18·0	..	15·3	13	0	0	−6·1	0	..	0	−0·3	11·7	10·6	..	0	0	0	0	0	0	0	0	0	0	0
Kurnool	31·9	+0·6	34·5	28	18·5	+2·1	15·5	16	0	0	−3·8	0	..	0	−0·3	9·6	7·0	+2·3	0	0	0	0	0	0	0	0	0	0	0
Madras State																													
Palayamcottai	31·9	.	33·9	21,27	22·5	..	20·3	14	0	5·8	−37·6	5·8	3	1	−1·7	12·8	9·4	..	0	1	0	0	0	0	0	0	0	0	0
Tuticorin	27·8	..	29·8	21	22·8	..	20·8	14	0	0	..	0	.	0	..	21·8	21·6	..	0	0	0	0	0	0	0	0	0	0	0
Pamban	28·9	+0·8	29·4	7days	24·4	+0·5	22·8	4	0	4·4	−60·9	4·4	24	1	..	14·9	18·9	..	0	1	0	0	0	0	0	0	0	0	0
Tondi	29·7	..	31·8	17	22·2	..	20·1	13	2·8	2·8	..	2·8	3	1	..	20·3	15·9	..	0	1	0	0	0	0	0	0	0	0	0
Mathurai	31·5	+1·6	32·9	22	21·5	+1·3	18·8	14	0	0	−19·8	0	..	0	−1·5	9·7	7·4	+0·2	0	0	0	0	0	0	0	0	0	0	0
Mathurai (Aerodrome)	31·3	..	32·5	27	20·6	..	18·5	15	0	2·8	..	2·8	1	1	..	..	..	..	1	1	0	0	0	0	0	0	0	0	0
Nagapattinam	27·8	−0·1	28·9	8	22·5	+0·4	19·6	14	39·2	72·9	+3·6	34·6	21	4	+1·0	19·6	18·5	+5·3	0	7	0	0	0	0	0	0	0	0	0
Tiruchirapalli	31·0	+0·5	33·0	27	21·4	+1·3	19·2	15	0·1	0·2	−24·9	0·1	21	0	−1·7	16·4	13·5	+4·0	2	0	0	0	0	0	0	0	0	0	0
Coimbatore	30·8	+0·8	32·9	29	19·6	+1·3	16·1	14	0	0	−16·0	0	23 ..	0	−1·1	8·5	6·0	+1·8	0	0	0	0	0	0	0	0	0	0	0
Coimbatore (Peelamedu Aerodrome)	30·5	..	33·1	5	18·7	..	14·4	13	0	0	..	0	..	0	..	14·3	9·9	..	0	0	0	0	0	0	0	0	0	0	0
Salem	31·7	+0·5	33·9	27	19·9	+1·6	15·9	13	0	0	−7·4	0	..	0	0·7	10·5	11·3	+5·0	0	0	0	0	0	0	0	0	0	0	0
Kallakurichi	30·0	..	31·5	6	21·0	..	..	..	0	0	..	0	..	0	..	13·1	10·0	..	0	0	0	0	0	0	0	0	0	0	0
Cuddalore	27·9	−0·3	29·9	28	20·6	+0·1	18·4	13	15·2	23·2	−36·5	16·2	21	2	−0·4	15·0	10·6	+3·4	0	3	0	0	0	0	0	0	0	0	0
Tirupattur	30·0	..	33·1	28	17·1	..	13·1	14	0	0	..	0	..	0	..	3·1	2·3	..	0	0	0	0	0	7	0	0	0	0	0
Vellore	29·7	+0·9	32·7	28	18·1	+0·2	15·1	13,18	0	0	+36·8	0	..	0	−2·1	12·4	8·1	+4·2	0	0	0	0	0	0	0	0	0	0	0
Tambaram (Aerodrome)	..	..	..	..	20·4	..	18·9	4days	24·6	34·2	..	23·3	21	2	..	..	..	..	0	3	0	0	0	1	0	0	0	0	0
Madras	28·3	−1·3	29·8	20	20·6	+1·1	18·0	13	6·5	24·4	−11·4	18·7	21	3	+1·3	17·0	10·9	+1·2	1	3	0	0	0	1	0	0	0	0	0
Madras (Nungambakkam).	28·2	..	29·4	20,26	21·0	..	19·3	12,30	..	43·1	..	39·2	21	2	..	..	6·2	..	0	3	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	31·5	..	35·0	25,31	19·2	..	16·0	30	0	0	−1·3	0	..	0	−0·1	10·8	7·0	..	0	0	0	0	0	0	0	0	0	0	0
Honavar	32·3	+0·5	35·6	3,25	18·5	−1·4	16·4	12,28	0	0	−4·1	0	..	0	−0·1	8·6	7·9	+3·1	0	0	0	0	0	0	0	0	0	0	0
Mangalore	31·6	−0·1	34·0	9	22·5	+1·1	20·7	13	0	0	−2·8	0	..	0	−0·2	10·9	8·8	+1·1	0	0	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe Aerodrome).	32·6	..	34·5	20	21·7	..	19·6	13	0	0	..	0	..	0	..	11·5	7·6	..	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (North)																													
Bidar	28·5	−0·3	30·9	28	16·7	0	13·7	2	0	0	−4·6	0	..	0	−0·5	12·6	10·7	+0·4	0	0	0	0	0	0	0	0	0	0	0
Gulbarga	30·7	0	33·2	27,28	17·3	+1·7	13·4	2	0	0	−5·3	0	..	0	−0·3	10·7	10·0	+2·4	0	0	0	0	0	0	0	0	0	0	0
Bijapur	31·2	+1·1	34·4	29	17·9	+2·2	16·0	18,28	0	0	−4·6	0	..	0	−0·2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Belgaum	30·6	+0·5	32·6	28,29	14·8	+1·0	12·4	29	0	0	−3·1	0	..	0	−0·2	9·8	5·7	−0·1	0	0	0	0	0	0	0	0	0	0	0
Belgaum (Sambre Aerodrome).	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	1	1	0	0	0	0	0
Gadag	31·5	+1·9	34·5	29	17·9	+1·5	15·0	29	0	0	−4·3	0	..	0	−0·2	10·5	8·3	+0·9	0	0	0	0	0	0	0	0	0	0	0
Raichur	30·4	0	33·9	28	..	..	..	..	0	0	−3·3	0	..	0	−0·2	10·6	10·5	+1·8	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	31·2	+0·2	33·8	27,28, 29	18·6	+1·8	16·4	16	0	0	−2·5	0	..	0	−0·3	9·9	6·5	+2·2	0	0	0	0	0	0	0	0	0	0	0
Chitaldrug	29·4	+0·1	32·8	29	18·2	+1·2	15·6	9	0	0	−6·3	0	..	0	−0·3	8·5	6·4	−1·0	0	0	0	0	0	0	0	0	0	0	0
Shimoga	30·8	..	33·2	29	15·8	..	12·8	13	0	0	..	0	..	0	..	6·6	3·3	..	0	0	0	0	0	14	0	0	0	0	0
Balehonnur	27·9	+0·7	29·4	27	15·7	+1·0	13·9	15	0	0	−1·3	0	..	0	−0·2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hassan	28·5	+0·3	31·0	29	15·6	+1·7	12·8	13	0	0·4	−3·9	0·4	23	0	−0·3	4·6	2·5	−2·5	0	1	0	0	0	0	0	0	0	0	0
Mysore	..	..	..	..	..	..	..	..	0	0	−3·6	0	..	0	−0·3	10·8	11·0	+1·5	0	0	0	0	0	1	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimeters					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Interior Mysore (South)—*Contd.*																													
Bangalore (Central Observatory).	27·7	+0·9	30·8	28	15·7	+1·6	12·7	13	0	0	−6·1	0	..	0	−0·5	11·8	11·3	+3·1	0	0	0	0	0	3	0	0	0	0	0
Bangalore (Aerodrome).	29·0	..	30·9	28	16·0	..	13·5	13	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	4	0	0	0	0	0
Kerala																													
Kozhikode	31·7	+0·6	32·9	3	22·5	+0·9	19·9	15	0	0	−8·9	0	..	0	−0·6	12·8	10·0	+1·6	0	0	0	0	0	0	0	0	0	0	0
Palghat	33·4	..	35·0	29	22·4	..	20·8	13	0	0	..	0	..	0	..	12·2	9·4	..	0	0	0	0	0	0	0	0	0	0	0
Fort Cochin	31·0	+0·5	32·5	20	24·1	+1·0	21·7	14	0	13·2	−9·4	6·8	26	2	+0·9	12·0	8·6	+2·0	0	3	0	0	1	0	0	0	0	0	0
Cochin (Naval Air Station).	31·7	..	32·6	20	23·3	..	20·4	14	0	68·0	..	37·1	18	2	..	11·4	8·2	..	0	3	0	0	2	0	0	0	0	0	0
Alleppey	32·5	..	33·6	9	23·5	..	21·3	12	0	8·6	..	4·4	27	2	..	13·9	10·0	..	0	3	0	0	1	0	0	0	0	0	0
Punalur	34·5	..	36·3	22	20·3	..	19·1	19,20 29	0	7·6	..	7·6	28	1	..	7·2	4·7	..	0	1	0	0	0	0	0	0	0	0	0
Trivandrum	31·4	+0·1	33·3	1	22·7	+0·5	20·9	15	15·4	46·7	+26·6	34·4	23	4	+2·3	7·2	5·1	+0·6	0	5	0	0	0	0	0	0	0	0	0
Trivandrum (Aerodrome)	31·1	..	32·0	16	22·2	..	20·2	14	..	92·6	..	44·8	24	3	..	..	6·2	..	0	5	0	0	0	0	0	0	0	0	0
Arabian sea Islands																													
Minicoy*																													
Amini Divi*																													
Hill Stations excluding Kashmir																													
Walong (R)																													
Kohima	15·4	..	16·7	22,23	12·0	..	7·2	24	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Aizal	21·4	..	23·7	22	11·8	..	9·9	25	0	0	..	0	..	0	..	7·6	6·6	..	0	0	0	0	0	0	0	0	0	0	0
Shillong	(a) 16·2	+0·6	19·2	12	(a) 3·0	−0·8	−0·5	19	0	0	−13·2	0	..	0	−1·1	..	..	−2·4	0	0	0	0	0	0	0	0	0	0	0
Cherrapunji	16·7	+1·0	19·1	22	7·9	+0·1	4·7	19	0	0	−19·1	0	..	0	−1·5	8·2	7·0	+1·4	0	0	0	0	0	0	0	0	0	0	0
Darjiling (Raj Bhawan).	11·6	+2·4	14·7	5	2·8	−0·1	0	18	0	0	−13·5	0	..	0	−1·2	1·3	0·9	−0·2	0	0	0	0	0	4	0	0	0	0	0
Kalimpong	17·5	+2·3	23·6	22	9·0	+1·1	3·4	29	0	0	−10·4	0	..	0	−0·9	5·3	4·0	−6·8	0	0	0	0	0	0	0	0	0	0	0
Mukteswar (Kumaon).	9·3	−0·6	15·3	10	1·3	−0·6	−4·3	22	36·8	62·2	+7·3	25·4	21	3	−0·6	9·9	10·2	+1·2	0	4	3	0	3	2	0	0	0	0	0
Nainital	9·8	..	15·1	10	0·6	..	−0·5	22	29·5	49·5	..	25·0	14	3	..	9·4	7·5	..	0	4	3	0	0	0	0	0	0	0	0
Joshimath	10·4	..	13·9	31	0·4	..	−4·4	22	38·1	92·5	..	39·4	14	3	..	5·0	6·5	..	0	5	3	0	0	0	0	0	0	0	0
Badrinath									Closed	during	winter	months																	
Lokpal	−6·6	..	−5·8	26,30	−10·9	..	−12·1	3	..	175·0	..	45·0	14, 21	7	..	.. (a)	.. (a)	..	0	7	0	0	0	0	0	23	0	0	0
Mussooree	9·4	−0·3	14·4	10	1·4	−1·3	..	..	33·6	44·2	−24·6	18·8	15	4	−0·1	9·2	7·6	..	0	6	4	4	3	0	0	0	0	0	0
Simla	8·3	−0·3	14·9	10	1·5	−0·4	−4·2	21	60·6	149·8	+83·5	73·6	15	5	+0·2	3·8	3·7	+1·2	0	8	7	0	0	0	0	0	0	0	0
Dharampore	..	..	..	..	..	..	..	..	..	56·6	−13·8	18·4	14	4	0	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Dalhousie (R)																													
Dharamshala	14·6	..	18·2	31	5·7	..	−5·0	21	8·7	83·3	..	26·2	15	6	..	5·6	4·9	..	0	7	1	2	2	0	0	0	0	0	0
Abu	21·0	+2·2	23·2	28	7·7	−2·7	4·1	17, 22	0·3	0·3	−6·3	0·3	10	0	−0·6	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Pachmarhi	20·9	−1·3	25·6	3	8·0	−0·7	−0·3	24	14·6	46·8	+30·5	18·0	4	4	−2·7	5·3	3·5	−0·4	0	10	0	0	4	0	0	0	0	0	0
Mahabaleshwar	25·0	+1·4	27·3	31	15·7	+1·8	14·0	22	0	0	−3·6	0	..	0	−0·2	8·5	8·5	−1·0	0	0	0	0	0	0	0	0	0	0	0
Nandi Hills	21·6	..	24·5	31	14·7	..	12·1	31	..	0	..	0	..	0	..	..	12·2		0	0	0	0	0	31	0	0	0	0	0
Mercara	25·4	+0·3	27·2	28	14·9	+0·9	12·4	15	0	3·4	−0·7	3·4	23	1	+0·7	10·6	9·3	+2·9	0	1	0	0	0	1	0	0	0	0	0
Kodaikanal	17·5	+0·7	19·9	2	8·3	+0·2	5·6	13	0	0	−80·6	0	..	0	−4·0	9·9	10·6	−3·2	0	1	0	0	0	3	0	0	0	0	0
Ootacamund	19·8	+1·0	21·7	2,16	5·6	−0·5	1·1	13	0·3	0·5	−32·3	0·5	22	0	−1·8	2·1	1·3	−3·7	0	1	0	0	0	0	0	5	0	0	0
Coonoor	19·6	+0·6	21·4	28	9·2	+0·9	4·8	12	..	44·0	−18·6	26·6	23	3	+0·3	..	6·1	+0·8	0	6	0	0	0	0	0	0	0	0	0
Nepal																													
Katmandu	18·3	..	20·4	12	0·1	..	−2·1	18	0	0	..	0	..	0	..	1·7	1·1	..	0	0	0	0	0	8	0	19	0	0	0
Sikkim																													
Lachen	7·6	..	9·7	12	−2·3	..	−5·8	18	..	21·8	..	6·0	15	4	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Tibet																													
Yatung (Chumbi) (R)																													
Ceylon																													
Colombo	30·4	−0·1	33·0	27	22·5	+0·3	17·9	29	8·4	57·5	−38·8	29·0	24	4	−3·3	..	..	..	0	5	0	0	2	0	0	0	0	0	0
Trincomalee	27·4	−0·4	31·1	20	24·2	+0·5	21·8	10	122·4	426·3	+253·1	197·6	23	12	+3·9	..	..	..	0	23	0	0	3	0	0	0	0	0	0
Batticoloa	28·0	..	28·4	20	23·3	..	20·7	28	125·2	395·1	..	116·3	3	10	..	..	..	..	0	18	0	0	3	0	0	0	0	0	0
Hambantota	29·6	+0·3	31·4	27	23·0	+0·6	18·2	28	16·6	31·0	−69·3	11·2	14	5	−1·0	..	..	..	0	8	0	0	3	0	0	0	0	0	0
Mannar	28·6	..	30·1	8	24·6	..	21·8	28	8·0	50·2	..	27·7	15	3	..	..	..	..	0	11	0	0	1	0	0	0	0	0	0

(R) Register not received. (a) Mean of 30 days. *Data given as addenda in "December, 1960 issue."

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm.)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories.																													
Damodar Catchment.																													
Bokaro	24·6	..	27·8	16	8·3	..	3·3	25	0	1·6	..	1·4	5	0	..	6·8	4·4	..	1	1	0	0	0	2	0	0	0	0	0
Hazaribagh	21·3	..	24·7	16	8·9	..	4·3	25	0·5	2·7	..	2·0	5	0	..	8·1	4·5	..	0	2	0	0	0	1	0	0	0	0	0
Tilaiya	22·7	..	25·5	15	11·4	..	5·8	29	3·4	4·2	..	1·8	17	0	..	8·3	6·2	..	0	3	0	0	0	0	0	0	0	0	0
Ramgarh	24 9	..	27·9	4	9·0	..	4·2	25	0	6·6	..	3·6	5	2	..	3·3	1·7	..	0	2	0	0	0	1	0	0	0	0	0
Panchet Hills	25·2	..	28·8	16	12·4	..	8·9	28	2·8	3·0	..	2·8	6	1	..	7·6	4·9	..	1	1	0	0	0	0	0	0	0	0	0
Durgapur	25·3	..	28·8	16	11·7	..	8·3	19	0	0	..	0	..	0	..	9·3	7·0	..	0	0	0	0	0	0	0	0	0	0	0
Mahanadi Catchment.																													
Hirakud	26·3	..	29·2	17	14·3	..	9·3	25	2·8	35 8	..	32·2	7	2	..	5·3	3·9	..	0	3	0	0	0	0	0	0	0	0	0
Khijrawan	27·1	..	29·0	6	12·7	..	7·4	24	16·4	24·2	..	13·4	8	2	..	6·2	3·7	..	0	2	0	0	0	0	0	0	0	0	0
Sonepur	27·2	..	30·6	17	10·6	..	8·3	25	..	2·2	..	2·2	8	0	..	..	3·0	..	0	1	..	..	..	..	..	..	..	..	..
Ginabahar	25·1	..	27·6	31	9·2	..	4·7	29	..	37·9	..	18·0	7	4	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Bhimkund	26·6	..	29·3	17	9·6	..	5·6	28	0	0	..	0	..	0	..	2·6	1·2	..	0	0	0	0	0	0	0	0	0	0	0
Narbada Catchment.																													
Punasa	25·5	..	30·8	31	11·4	..	5·1	24	16·2	32·4	..	15·8	2	2	..	(b) 6·8	4·2	..	0	4	0	0	0	0	0	0	0	0	0
Bagra Tawa	24·1	..	29·6	31	10·9	..	3 2	24	12·7	42·6	..	21 7	7	2	..	5·5	3·6	..	0	6	0	0	0	6	0	0	0	0	0
Thikri	27·6	..	32·1	31	12·2	..	5·7	23	..	22·1	..	8·3	7	5	..	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Sabarmati Catchment.																													
Jhadol	24·1	..	29·6	16	4·1	..	−0·8	20, 52,29	..	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Dharoi	27·2	..	29·4	31	10·7	..	5·3	20	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ganga Catchment.																													
Mukhim	11·0	..	15·4	10	2·7	..	3·4	22	76·2	160·4	..	66·0	21	4	..	..	..	..	1	5	6	2	2	3	0	0	0	0	0
Tehri	18·7	..	23·2	31	3·3	..	0·2	22	28·8	63·5	..	25·8	21	3	..	1·7	1·3	..	0	5	1	0	1	2	0	7	0	0	0
Gandak Catchment																													
Gorkha	18·3	..	20·0	17	8·8	..	6·7	19	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Pokhara	19·2	..	20·9	12,16	6·6	..	3·9	3	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Nawakot	(a) 20·0	..	21·5	30,31	7·9	..	6·1	18	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Jomosom	..	..	..	..	..	..	..	..	0·3	0·3	..	0·3	22	0	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Kundi Bazar	..	..	..	..	..	..	..	..	..	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Timure	15·2	..	16·9	12	2·3	..	0·2	18	0	0	..	0	..	0	..		..	..	0	0	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Gogra Catchment.																													
Dandeldhura	10·6	..	14·9	31	3·6	..	−1·3	22	25·2	46·5	..	24·3	14	2	.		..	..	0	3	2	2	3	2	0	0	0	0	0
Butwal	23 5	..	26·1	26	11·8	..	5·6	18	0	0	..	0	..	0	..		..	..	0	0	..	..	..	..	..	..	..	..	..
Bagmati Catchment.																													
Katmandu†																													
Kosi Catchment.																													
Chautara	18·0	..	20·3	16	5·7	..	3·3	18	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Okhaldunga (R)																													
Barahkshetra	23·9	..	25·3	12,17, 23	10·2	..	7·3	23	0	0	..	0	..	0	..	7·0	5.5	..	0	0	0	0	0	0	0	0	0	0	0
Angbung	(b) 18·7	..	(b) 20·5	15	6·5	..	4·1	19	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Taplejung	14·3	..	16·3	4	3·6	..	0·6	19	0	0	..	0	..	0	..	..	..	..	2	0	0	0	3	6	0	0	0	0	0
Taplethok	20·0	..	23·3	6	5·7	..	3·1	19, 21	0	3·2	..	3·2	29	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Wallungchung Gola	6·6	..	9·2	4	−4·7	..	−6·9	18	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bhojpur	15·7	..	17·9	16	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chainpur	19·7	..	22·0	14	10·6	..	8·5	6	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Tista Catchment.																													
Gangtok	15·1	..	18·5	4	4·1	..	1·3	19	0	0·4	..	0·4	31	0	..	2·8	2·0	..	0	1	0	0	0	0	0	8	0	0	0
Geyzing	18·5	..	21·2	11	5·1	..	2·8	18, 19	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..

(a) Mean of 30 days. (b) Mean of 29 days. †Data included under 'Nepal'. (R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1013·9	1010·7	..	26·3	23·5	22·1	26·8	78	..	4·4	..	6·1	0	0	22	0	8	0	0	0	1	0	1	9	12
	1730	"	1011·4	1008·3	..	26·6	23·5	22·0	26·6	76	..	5·2	..	10·2	0	0	30	1	16	1	0	0	0	0	1	1	11
Long Island	0830	25	1013·6	1010·8	..	26·4	24·0	22·7	27·7	81	..	3·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	1011·1	1008·3	..	26·6	23·8	22·4	27·3	79	..	3·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Port Blair	0530	79	1011·9	1002·9	..	24·2	22·7	21·7	26·7	88	..	5·5	..	8·0	0	0	24	2	12	5	2	1	0	1	1	7	0
	0830	"	1013·7	1004·5	..	28·2	24·4	22·6	27·3	72	+1	4·9	+1·5	10·4	0	1	26	0	20	7	0	0	0	0	0	4	0
	1130	"	1012·1	1003·3	..	29·5	24·8	22·5	27·4	67	..	5·2	..	11·8	0	2	29	2	16	12	0	1	0	0	0	0	0
	1730	"	1011·3	1002·4	..	26·1	23·4	22·1	26·4	79	..	5·7	..	10·8	0	2	28	2	20	7	0	0	0	1	0	1	0
	2330	"	1012·6	1003·7	..	24·7	22·9	22·0	26·9	85	..	4·7	..	10·0	0	2	25	4	14	5	1	2	0	0	1	4	0
Car Nicobar	0830	10	1012·7	1011·5	..	28·2	24·7	23·0	28·0	74	..	4·5	..	7·0	0	0	28	0	8	18	2	0	0	0	0	3	0
	1730	"	1010·4	1009·1	.	26·9	24·0	22·6	27·2	77	..	5·0	..	4·0	0	0	17	0	8	9	0	0	0	0	0	14	0
Nancowry	0830	26	1012·4	1009·5	..	27·7	25·3	24·2	30·1	82	..	5·9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	"	1010·4	1007·5	..	27·1	24·6	23·6	30·0	82	..	5·8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Kondul	0830	8	1012·6	1011·5	..	27·1	25·3	24·6	31·2	86	..	5·7	..	6·3	0	1	23	0	8	10	3	0	0	0	0	7	3
	1730	"	1010·3	1009·4	..	26·8	25·0	24·1	29·9	86	..	6·2	..	6·1	0	1	19	0	10	7	2	0	0	0	0	11	1
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1018·9	1000·4	..	15·0	11·4	7·6	10·6	62	..	1·7	..	26·1	0	31	0	9	0	0	0	0	0	0	22	0	0
	1730	"	1014·5	996·1	..	16·3	13·3	10·5	12·8	69	..	1·6	..	2·7	0	0	13	1	0	0	0	0	0	0	12	18	0
Digboi	0830	152	..	..	..	15·3	13·2	11·5	13·5	78	..	4·5	..	..	..	..	..	0	9	0	7	0	3	4	2	0	0
	1730	"	..	..	..	19·5	15·4	12·1	14·1	63	..	4·8	..	..	..	..	..	2	5	4	2	0	1	2	2	6	0
Dibrugarh	0830	106	1018·9	1006·3	+0·2	15·7	13·0	10·6	12·6	72	−19	1·5	−2·6	3·1	0	0	28	4	4	19	0	1	0	0	0	3	0
	1730	"	1014·2	1001·7	..	17·6	14·3	11·6	13·5	68	..	1·1	..	0·2	0	0	2	0	1	0	0	1	0	0	0	29	0
Dibrugarh (Mohanbari Aerodrome)	0230	111	1016·5	1002·7	..	7·8	7·4	7·1	10·1	95	..	1·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0530	"	1017·0	1003·5	..	6·8	6·6	6·4	9·5	97	..	1·4	..	0·1	0	0	1	0	1	0	0	0	0	0	0	30	0
	0830	"	1019·1	1005·9	..	14·8	12·6	10·8	12·7	77	..	2·0	..	2·8	0	0	21	1	4	15	0	1	0	0	0	10	0
	1130	"	1015·9	1003·4	..	21·6	14·6	8·3	11·1	43	..	2·0	..	4·6	0	0	23	2	9	8	1	0	0	0	3	8	0
	1730	"	1014·4	1001·4	..	16·1	13·5	10·8	13·6	69	..	2·3	..	0·2	0	0	1	0	1	0	0	0	0	0	0	30	0
	2330	"	1016·4	1003·3	..	9·3	8·8	8·4	10·9	94	..	1·5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
[illegible]mpur	0830	102	1018·7	1006·6	..	15·2	12·9	10·7	13·2	77	..	1·4	..	3·0	0	0	23	2	9	9	0	1	0	1	1	8	0
	1130	"	1016·4	1004·6	..	21·7	15·2	9·6	12·2	46	..	1·4	..	0·5	0	0	28	1	3	11	9	3	1	0	0	3	0
	1730	"	1014·4	1002·4	..	16·6	13·5	10·7	13·0	69	..	1·6	..	2·2	0	0	18	4	3	0	1	2	1	1	6	13	0
[illegible]	0830	97	1019·4	1007·0	+0·1	15·1	13·3	11·7	14·0	80	−13	6·0	−0·4	0·6	0	0	5	0	2	2	0	0	1	0	0	26	0
	1730	"	1014·6	1003·9	..	20·2	15·6	12·3	13·5	61	..	1·5	..	0·3	0	0	2	0	1	1	0	0	0	0	0	29	0
	0530	90	1016·3	1005·5	..	8·1	8·1	8·0	10·8	99	..	2·2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	"	1018·5	1007·8	..	14·4	13·0	11·7	14·1	84	..	1·9	..	0·5	0	0	3	0	0	0	0	0	2	0	1	28	0
	1130	"	1016·1	1005·7	..	21·3	15·8	11·4	13·4	55	..	1·5	..	5·2	0	0	21	2	14	2	1	1	0	0	1	10	0
	1730	"	1013·8	1003·4	..	17·3	14·3	11·7	13·8	70	..	1·2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	2330	"	1016·0	1005·4	..	10·6	10·1	9·7	11·8	95	..	0·8	..	0·5	0	0	2	0	0	0	0	0	2	0	0	29	0
[illegible]*	0830	..	..	..	..	15·6	13·1	10·7	13·0	74	..	0·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	..	..	..	..	22·2	16·5	12·4	14·1	56	..	1·5	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Sohpur	0830	..	..	..	..	14·0	12·4	11·0	12·9	83	.	1·4	..	2·6	0	0	27	0	1	18	2	3	0	2	1	4	0
	1730	..	..	..	..	18·0	15·3	13·2	14·8	76	..	1·7	..	2·0	0	0	21	0	3	14	0	1	0	2	1	10	0
Tezpur	0830	79	1019·9	1010·6	+1·1	14·5	12·8	11·3	13·4	81	−7	1·6	−1·1	3·0	0	0	28	1	14	6	4	1	1	0	1	3	0
	1730	"	1015·0	1005·7	..	18·7	15·0	12·6	14·1	69	..	1·7	..	0·7	0	0	8	0	8	0	0	0	0	0	0	23	0
Tezpur (F.B.O.)	0230	78	1016·2	1006·8	..	11·3	10·9	10·4	12·5	94	..	0·7	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0530	"	1016·9	1007·4	..	9·7	9·3	9·0	11·6	95	..	0·7	..	0·1	0	0	1	0	1	0	0	0	0	0	0	30	0
	0830	"	1019·1	1009·8	..	15·0	12·7	10·6	13·0	76	..	1·1	..	2·7	0	0	23	5	9	7	1	0	1	0	0	8	0
	1130	"	1016·8	1007·6	..	21·6	15·2	10·4	12·2	52	..	1·7	..	4·4	0	0	27	1	9	10	4	0	2	0	1	4	0
	1730	"	1014·6	1005·4	..	19·0	15·2	12·4	14·0	61	..	1·1	..	0·1	0	0	1	0	0	0	0	0	0	1	0	30	0
	2330	"	1016·6	1007·2	..	12·1	11·7	11·0	13·2	92	..	0·7	..	0·4	0	0	3	2	1	0	0	0	0	0	0	28	0
Majitha	0830	..	..	..	..	..	..	..	..	..	..	1·5	..	3·0	0	0	25	0	7	14	2	2	0	0	0	6	0
	1730	..	..	..	..	..	..	..		..	..	1·1	..	1·0	0	0	23	0	6	0	0	1	1	0	0	23	0
Chaparmukh	0830	66	1019·8	1012·1	..	16·6	14·1	12·5	14·2	75	..	1·5	..	6·4	0	0	29	0	7	2	20	0	0	0	0	2	0
	1730	"	1014·6	1007·1	..	19·4	15·9	13·2	15·3	68	..	0·8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Tangla	0830	78	1018·6	1009·1	..	14·7	12·6	10·8	12·7	77	..	1·3	..	0·2	0	0	2	0	0	2	0	0	0	0	0	29	0
	1730	"	1014·0	1004·9	..	17·3	14·8	12·5	14·3	73	..	0·9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0

*Observations for 30 days.

Division and station	Hour of observation I.S.T.	Station elevation metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—*Contd.*																											
Gauhati	0830	55	1018·6	1012·1	+0·5	13·6	12·4	11·1	13·6	85	−3	1·0	−1·0	1·0	0	0	12	3	6	2	0	0	0	0	1	19	0
	1730	"	1014·0	1007·6	..	21·0	16·6	12·5	15·3	59	..	1·0	..	0·2	0	0	2	0	1	1	0	0	0	0	0	29	0
Gauhati (Bhorjo Aerodrome)	0230	54	1015·8	1009·3	..	9·9	9·6	9·2	12·2	95	..	0·2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0530	"	1016·2	1009·7	..	8·7	8·5	8·1	10·8	96	..	1·0	..	0·3	0	0	2	0	[illegible]	0	0	1	0	0	0	29	0
	0830	"	1018·5	1012·0	..	15·1	13·5	12·2	14·1	83	..	1·6	..	0·5	0	0	4	0	2	2	0	0	0	0	0	27	0
	1130	"	1016·2	1010·0	..	21·7	16·4	12·2	14·4	56	..	1·1	..	3·8	0	0	22	4	8	3	1	0	0	1	5	9	0
	1730	"	1013·9	1007·7	..	18·3	15·4	13·1	15·4	72	..	1·7	..	0·7	0	0	4	1	0	0	0	0	2	1	0	27	0
	2330	"	1016·1	1009·7	..	11·8	11·2	10·7	12·9	92	..	0·7	..	0·2	0	0	2	0	0	0	0	2	0	0	0	29	0
Rangiya	0830	..	..	..	..	15·8	14·0	13·0	14·5	82	..	0·6	..	4·7	0	0	30	0	10	17	2	0	0	0	1	1	0
	1730	..	..	..	..	20·9	17·2	15·0	16·7	70	..	0·2	..	0·6	0	0	6	0	2	2	0	0	1	0	1	25	0
Goalpara	0830	38	1017·7	1013·1	..	14·1	12·5	11·0	12·7	84	..	4·2	..	1·6	0	0	16	0	7	4	2	0	0	3	0	15	0
	1730	"	1013·6	1009·2	..	22·7	18·1	14·6	16·9	61	..	0·6	..	1·2	0	0	12	0	7	1	0	0	3	0	1	19	0
Dhubri	0830	35	1018·7	1014·5	+0·8	15·3	13·5	11·9	14·3	81	−3	1·6	−0·1	2·4	0	0	18	0	16	1	0	1	0	0	0	13	0
	1730	"	1014·6	1010·5	..	20·1	16·0	13·1	14·9	66	..	0·4	..	1·0	0	0	8	2	5	0	0	0	0	1	0	23	0
Dhubri (Rupsi Aerodrome)	0530	36	1015·0	1010·6	..	9·2	8·7	8·3	10·7	93	..	1·0	..	1·1	0	0	10	2	7	1	0	0	0	0	0	21	0
	0830	"	1017·5	1013·2	..	15·1	12·6	10·5	12·6	74	..	0·9	..	6·0	0	0	28	0	13	9	3	1	0	0	0	3	2
	1130	"	1015·7	1011·5	..	22·1	15·7	10·4	12·7	47	..	1·2	..	8·1	0	1	30	2	4	13	5	1	1	2	0	0	3
	1730	"	1013·4	1009·2	..	16·9	14·3	12·3	14·4	75	..	0·9	..	0·3	0	0	3	0	2	0	1	0	0	0	0	28	0
Tura	0830	370	1019·1	976·0	..	15·3	11·5	8·6	10·9	64	..	3·1	..	3·5	0	0	30	0	2	21	6	0	0	1	0	1	0
	1730	"	1014·8	972·8	..	22·1	15·5	10·2	11·6	49	..	3·5	..	2·9	0	0	27	1	2	1	4	7	9	2	1	4	0
Agartala	0230	16	1014·6	1012·3	..	11·1	10·4	9·7	12·3	91	..	0·5	..	1·3	0	0	12	1	3	0	6	1	0	0	1	19	0
	0530	"	1014·9	1013·2	..	9·5	9·1	8·6	11·5	94	..	0·9	..	2·1	0	0	20	0	2	2	6	9	1	0	0	11	0
	0830	"	1016·9	1015·0	..	17·1	14·3	12·0	14·0	72	..	1·5	..	3·0	0	0	22	6	3	0	3	2	3	3	2	9	0
	1130	"	1015·4	1013·6	..	23·9	16·3	10·2	12·6	41	..	2·0	..	10·6	0	0	31	9	1	0	0	1	0	5	15	0	0
	1730	"	1013·5	1011·6	..	20·8	15·5	11·3	13·4	54	..	2·0	..	3·2	0	0	23	6	3	0	0	0	1	4	9	8	0
	2330	"	1015·1	1013·2	..	12·7	11·6	10·5	12·8	87	..	0·7	..	2·8	0	0	18	3	1	2	7	2	1	0	2	13	0
Kailashar (C.W.O.)	0530	29	1016·3	1012·7	..	9·6	9·4	9·2	11·9	98	..	1·3	..	0·9	0	0	7	1	0	2	0	3	0	0	1	24	0
	0830	"	1018·2	1014·8	..	15·7	13·5	11·7	13·7	78	..	1·3	..	1.6	0	0	14	3	2	0	0	3	4	1	1	17	0
	1130	"	1016·1	1012·7	..	24·1	17·3	12·0	14·5	47	..	2·0	..	4·9	0	0	28	7	4	0	1	2	2	1	11	3	0
	1730	"	1014·4	1011·0	..	20·2	16·3	13·3	15·5	65	..	1·7	..	0·2	0	0	2	1	0	0	0	0	0	0	1	29	0
Silchar	0830	29	1017·9	1014·1	−0·1	16·5	14·4	12·7	14·9	78	−5	1·4	−0·4	0·3	0	0	3	0	1	1	1	0	0	0	0	28	0
	1730	"	1013·6	1010·2	..	21·0	16·7	13·4	15·3	62	..	0·7	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Silchar (Kumbhigram Aerodrome)	0530	97	1014·4	1002·8	..	11·4	10·7	9·9	12·5	90	..	1·0	..	9·9	0	0	31	1	1	28	1	0	0	0	0	0	0
	0830	"	1016·3	1005·0	..	16·8	13·8	11·2	13·2	69	..	1·3	..	11·6	0	0	31	0	0	29	2	0	0	0	0	0	0
	1130	"	1014·2	1003·1	..	23·3	16·2	10·3	12·5	44	..	1·7	..	8·3	0	0	31	0	0	8	12	9	2	0	0	0	0
	1730	"	1012·1	1000·9	..	21·9	15·8	11·5	13·0	54	..	1·6	..	3·1	0	0	24	5	0	0	0	0	2	13	4	7	0
Imphal	0530	801	1021·2	927·0	..	4·2	4·1	3·9	8·3	98	..	2·1	..	0·4	0	0	3	1	0	0	0	1	0	0	1	28	0
	0830	"	1020·3	928·6	..	12·1	9·7	7·5	10·2	71	..	2·2	..	2·5	0	0	23	1	1	0	5	11	4	1	0	8	0
	1130	"	1015·2	926·1	..	19·5	13·1	7·5	10·4	47	..	2·4	..	4·8	0	1	30	0	1	4	3	8	11	3	1	0	0
	1730	"	1014·4	924.2	..	15·6	11·2	7·2	10·0	57	..	1·8	..	4·7	0	0	23	2	0	0	1	1	13	5	1	8	0
	2330	"	1018·9	926·2	..	7·7	7·3	6·8	10·2	83	..	1·1	..	0·3	0	0	3	0	0	0	0	1	0	1	1	28	0
Haflong	0830	682	1017·3	939·5	..	15·5	12·2	9·4	11·6	67	..	0·8	..	3·0	0	0	31	13	6	0	1	7	2	0	2	0	0
	1730	"	1012·2	935·4	..	18·1	14·7	10·3	14·1	62	..	2·3	..	5·0	0	0	31	5	1	0	0	2	16	0	7	0	0
Lumding	0230	149	1019·1	1000·8	..	13·1	11.7	10·8	12·7	80	−10	2·0	..	0·9	0	0	7	0	1	0	5	1	0	0	0	24	0
	1730	"	1015·0	997·6	..	19·2	..	..	..	..	..	3·5	..	0·2	0	0	1	0	0	0	0	0	0	0	1	30	0
Sub-Himalayan West Bengal																											
Cooch Behar	0830	43	1018·2	1013·1	..	14·6	12·3	10·2	12·6	76	..	1·1	..	2·4	0	0	12	0	6	6	0	0	0	0	0	19	0
	1130	"	1016·5	1011·6	..	22·1	15·4	9·5	12·2	45	..	0·9	..	6·4	0	0	27	0	8	9	2	0	2	0	0	4	6
	1730	"	1014·2	1009·2	..	18·6	14·8	11·5	13·6	64	..	0·9	..	0·1	0	0	1	0	0	0	0	0	0	1	0	30	0
Jalpaiguri	0830	83	1018·7	1008·6	+0·8	11·9	10·8	9·7	11·5	87	+1	0·7	−0·7	3·6	0	0	26	15	1	0	0	1	1	1	7	5	0
	1730	"	1014·3	1004·7	..	21·7	15·4	10·1	12·3	48	..	0.4	..	2·6	0	0	17	0	1	1	5	1	6	3	0	14	0
Bagdogra	0230	131	1015·5	999·8	..	11·0	9·7	8·5	10·8	85	..	0·7	..	2·7	0	0	26	21	1	0	0	0	1	0	3	5	0
	0530	"	1015·9	1000·0	..	7·9	7·8	7·6	10·7	98	..	0·9	..	2·8	0	0	26	15	5	1	0	0	3	0	2	5	0
	0830	"	1018·1	1002·5	..	14·5	12·8	11·4	13·5	82	..	1·5	..	2·8	0	0	24	12	3	5	1	2	1	0	0	7	0
	1130	"	1016·3	1001·3	..	23·2	17·5	13·3	15·2	54	..	1·4	..	5.4	0	0	30	0	0	5	7	6	8	1	3	1	0
	1730	"	1014·0	998·7	..	17·6	15·2	13·3	15·1	76	..	1·9	..	3·1	0	0	25	0	0	1	1	1	11	9	2	6	0
	2330	"	1016·1	1000·5	..	12·4	10·7	9·9	11·6	80	..	1·2	..	3·5	0	0	25	18	1	1	0	2	0	2	1	6	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan (West-Bengal)—*Contd.*																											
Malda	0830	31	1018·6	1014·8	+0·9	17·7	13·4	9·4	12·2	59	—3	1·7	+0·7	8·5	0	0	31	7	1	0	0	2	1	4	16	0	0
	1730	,,	1014·6	1010·9	..	21·1	15·3	10·2	12·2	50	..	1·6	..	5·0	0	0	28	2	0	0	0	0	1	7	18	3	0
Gangetic West Bengal																											
Dum Dum	0230	6	1015·3	1014·5	..	13·2	12·2	11·3	13·2	89	..	0·6	..	1·3	0	0	13	6	1	0	0	0	0	2	4	18	0
	0530	,,	1015·8	1015·0	..	12·2	11·4	10·6	12·8	90	..	0·9	..	1·7	0	0	14	8	0	0	0	0	0	0	6	17	0
	0830	,,	1018·0	1017·2	..	17·4	13·9	11·0	12·9	66	..	1·9	..	4·5	0	0	28	17	3	0	0	0	0	1	7	3	0
	1130	,,	1016·7	1015·9	..	23·9	15·9	8·9	12·1	39	..	1·5	..	7·1	0	0	30	22	2	0	0	0	0	1	5	1	0
	1730	,,	1014·3	1013·5	..	22·1	16·8	12·8	14·9	56	..	1·3	..	0·9	0	0	8	8	0	0	0	0	0	0	0	23	0
	2330	,,	1015·8	1015·0	..	14·2	13·2	12·2	14·2	88	..	0·7	..	1·1	0	0	8	5	2	0	0	0	1	0	0	23	0
Calcutta	0830	6	1017·9	1017·1	+0·4	17·5	13·4	9·6	12·0	61	—21	1·4	—0·4	4·7	0	0	27	13	6	1	0	0	0	0	7	4	0
	1130	,,	1016·4	1015·7	..	24·3	15·9	8·4	11·5	37	..	1·3	..	9·5	0	0	31	11	6	1	0	0	0	1	12	0	0
	1730	,,	1014·1	1013·4	..	22·6	15·9	10·5	12·7	46	..	1·1	..	1·5	0	0	14	5	0	0	0	0	0	2	7	17	0
Barrackpore	0530	7	1016·2	1015·4	..	12·9	11·6	10·2	12·5	85	..	1·1	..	1·5	0	0	7	5	0	0	0	0	0	1	1	24	0
	0830	,,	1018·4	1017·6	..	17·9	14·1	10·6	12·9	63	..	2·1	..	8·2	0	0	27	8	3	1	0	0	0	1	14	4	0
	1130	,,	1017·3	1016·5	..	23·7	16·2	9·7	12·4	42	..	1·8	..	11·9	0	2	28	12	1	0	1	0	1	5	10	1	0
	1730	,,	1014·7	1013·9	..	20·9	15·7	11·7	13·5	57	..	1·2	..	1·3	0	0	7	4	0	0	0	0	0	0	3	24	0
	2330	,,	1016·2	1015·3	..	14·0	12·9	11·6	14·0	86	..	0·9	..	0·5	0	0	3	2	0	0	0	0	0	0	1	28	0
Saugor Island	0830	3	1017·3	1016·9	+0·1	19·0	16·1	13·8	16·2	72	—8	1·3	—0·9	13·0	0	3	28	15	11	1	0	0	0	0	4	0	0
	1730	,,	1013·9	1013·5	..	22·4	18·0	14·9	17·1	63	..	1·6	..	9·7	0	0	30	11	6	0	1	3	3	2	4	1	0
Sandheads	0530	10	1015·1	1014·0	..	21·5	17·4	14·3	16·4	65	..	0·3	..	12·9	0	4	24	14	6	1	0	0	0	4	3	3	0
	0830	,,	1017·6	1016·5	+0·4	21·9	17·4	14·2	16·4	62	—1	1·3	—0·5	14·9	0	6	24	12	13	1	0	0	1	1	2	1	0
	1130	,,	1016·8	1015·7	..	22·9	17·7	14·1	15·9	58	..	1·4	..	15·6	0	5	25	14	14	0	0	0	0	1	1	1	0
	1730	,,	1014·5	1013·4	..	23·4	17·8	13·7	16·0	55	..	1·1	..	7.7	0	1	22	9	6	1	0	0	3	1	3	8	0
	2330	,,	1015·5	1014·4	..	22·1	17·8	14·6	17·1	63	..	0·6	..	9 5	0	2	23	10	6	1	0	2	4	0	2	6	0
Contai	0830	11	1017·7	1016·5	..	18·3	13·8	9·7	12·3	58	..	0·8	..	2·6	0	0	25	9	8	2	0	0	0	3	3	6	0
	1730	,,	1014·0	1012·8	..	22.9	16·3	11·0	13·1	48	..	0·8	..	1·7	0	0	17	2	1	2	4	7	1	0	0	14	0
Midnapore	0830	45	1018·6	1013·3	+1·1	20·7	14·1	7·7	10·7	44	—20	1·5	—0·3	4·3	0	0	27	10	13	2	0	1	1	0	0	4	0
	1730	,,	1014·4	1009.1	..	24·5	15·4	7·0	10·6	34	..	0·6	..	4·3	0	0	23	5	15	2	0	0	0	0	1	8	0
Purulia	0830	255	1019·5	989·6	..	16·1	12·1	7·8	11·1	59	..	2·0	..	3·5	0	0	26	3	0	2	1	0	3	11	6	5	0
	1730	,,	1015·0	985·9	..	21·9	14·7	7·9	10·9	43	..	2·3	..	1·5	0	0	12	8	0	0	1	0	0	0	3	19	0
Burdwan*	0830	32																									
	1730	,,																									
Krishnagar	0830	15	1018.4	1016·7	+1·0	17·6	13·4	9·8	12·0	61	—12	1·1	—0·2	1·3	0	0	13	5	2	0	0	1	0	2	3	18	0
	1730	,,	1014·7	1013·0	..	21·7	16·1	12·0	13·9	54	..	1·0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Asansol	0230	126	1016·1	1001·2	..	14·1	11·7	9·3	11·7	73	..	1·3	..	1·2	0	0	9	0	0	0	0	0	0	3	6	22	0
	0530	,,	1016·3	1001·3	..	13·1	11·2	9·2	11·7	78	..	1·7	..	2·0	0	0	11	0	0	0	0	0	0	1	10	20	0
	0830	,,	1018·5	1003·7	+1·0	16·6	13·1	10·0	12·1	65	—1	2·4	+0 5	5·3	0	0	27	1	1	0	0	0	0	13	12	4	0
	1130	,,	1017·2	1002·6	..	22·5	15·2	8·5	11·5	42	..	1·5	..	6·5	0	0	28	2	0	1	0	0	1	5	19	3	0
	1730	,,	1014·5	999·9	..	21·7	14·9	8·8	11·5	44	..	1·7	..	2·5	0	0	20	1	0	0	0	0	0	5	14	11	0
	2330	,,	1016·5	1001·6	..	15·4	12·2	9·0	11·5	66	..	1·1	..	1·5	0	0	10	3	0	0	0	0	0	2	5	21	0
Suri	0830	77	1018·5	1009·4	..	17·1	12·6	8·1	11·1	56	..	2·2	..	7·1	0	0	29	6	1	0	0	0	3	9	10	2	0
	1730	,,	1014·7	1005·9	..	22·3	14·7	7·4	10·8	39	..	1·7	..	3·3	0	0	22	5	1	0	1	0	0	3	12	9	0
Berhampore	0830	19	1017·6	1015·3	—0·2	14·5	12·6	10·7	13·5	79	+2	1·0	—0·8	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1014·2	1012·0	..	22·1	17·3	13·3	16·1	60	..	0·3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Orissa																											
Baripada	0830	54	1019·4	1013·0	..	18·3	13·7	9·5	12·0	57	..	2·3	..	2·4	0	0	25	5	17	2	1	0	0	0	0	6	0
	1730	,,	1014·7	1008·5	..	23·4	16·4	10·6	13·1	46	..	0·7	..	0·6	0	0	5	0	4	1	0	0	0	0	0	26	0
Balasore	0830	20	1018·0	1015·7	+0·5	17·9	13·7	9·9	12·4	60	—12	2·1	+0·3	2·5	0	0	21	15	5	0	0	0	0	0	1	10	0
	1730	,,	1014·1	1011·8	..	22·1	16·5	12·0	14·4	54	..	1·5	..	0·1	0	0	1	0	0	0	1	0	0	0	0	30	0
Chandbali	0830	6	1017·9	1017·2	+0·4	19·3	15·7	13·3	14·9	68	—7	1·1	—0·7	5·0	0	0	29	17	1	0	0	0	0	2	9	2	0
	1730	,,	1014·5	1013·8	..	23·4	16·9	12·5	14·2	51	..	1·4	..	4·2	0	0	28	4	14	6	4	0	0	0	0	3	0
Cuttack	0830	27	1017·6	1014·5	+0·1	17·9	15·7	13·9	16·1	78	0	0·7	—1·3	1·0	0	0	3	0	3	0	0	0	0	0	0	28	0
	1730	,,	1013·7	1010·6	..	25·1	18·3	13·2	15·8	49	..	0·8	..	0·2	0	0	1	0	0	1	0	0	0	0	0	30	0
Bhubaneswar	0230	46	1015·4	1009·9	..	16·8	14·9	13·4	15·4	80	..	0·7	..	3·0	0	0	17	12	1	0	0	0	0	1	3	14	0
	0530	,,	1015·7	1010·2	..	15·8	14·2	13·0	14·8	83	..	1·1	..	4·0	0	0	23	16	1	1	0	0	0	1	4	8	0
	0830	,,	1018·0	1012·5	..	20·2	16·3	13·1	15·4	64	..	1·4	..	4·5	0	0	17	7	6	2	0	0	0	0	2	14	0
	1130	,,	1016·8	1011·5	..	25·5	17·2	10·6	12·8	40	..	1·5	..	7·2	0	0	30	4	14	6	1	0	1	2	1	1	1
	1730	,,	1014·2	1008·9	..	24·6	17·2	11·1	13·6	43	..	1·9	..	5·5	0	0	25	3	4	6	7	2	0	0	1	6	0

*Data not reliable

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*Contd.*																											
Bhubaneswar (*Contd.*)	2330	46	1016·3	1010·8	..	18·2	15·6	13·5	15·9	74	..	0·8	..	2·4	0	0	16	4	4	2	1	0	2	2	1	15	0
Puri	0830	6	1017·8	1017·1	+0·8	20·4	16·8	14·2	16·2	68	—9	1·6	—0·2	12·2	0	2	28	21	9	0	0	0	0	0	0	1	0
	1730	"	1014·3	1013·5	..	23·2	19·1	16·4	18·7	65	..	6·5	..	17·3	0	10	21	0	0	8	13	10	0	0	0	0	0
Gopalpur	0530	17	1015·5	1013·5	..	17·2	15·7	14·6	16·9	84	..	1·2	..	8·0	0	0	30	14	0	0	0	0	0	0	16	1	0
	0830	"	1017·7	1015·7	+0·7	20·2	17·1	14·9	17·1	72	—2	1·8	+0·4	10·4	0	0	31	16	1	0	0	0	0	0	14	0	0
	1130	"	1016·7	1014·7	..	25·9	19·6	15·4	18·1	54	..	1·8	..	10·9	0	3	27	2	5	11	10	1	0	0	1	1	0
	1730	"	1014·2	1012·1	..	23·8	19·2	16·3	18·3	64	..	1·7	..	12·4	0	1	30	0	2	17	10	1	1	0	0	0	0
	2330	"	1015·9	1013·9	..	19·4	17·2	15·7	17·9	79	..	0·9	..	3·5	0	0	26	9	0	1	1	0	1	1	13	5	0
Kalahandi	0830	913	1548·3	915·9	..	17·3	14·0	11·3	13·6	69	..	0·7	..	9·3	0	0	31	0	0	1	4	11	13	1	1	0	0
	1730	"	1534·2	913·3	..	22·1	14·7	8·6	11·2	44	..	0·9	..	5·3	0	0	31	5	0	0	2	0	3	4	17	0	0
Titilagarh	0830	211	1018·1	993·5	..	18·2	15·0	12·5	14·5	68	..	1·4	..	2·2	0	0	23	1	18	0	3	0	1	0	0	8	0
	1730	"	1013·2	989·4	..	26·6	18·3	12·5	14·5	43	..	1·3	..	3·1	0	0	30	7	17	0	6	0	0	0	0	1	0
Bolangir	0830	190	1017·9	995·7	..	18·6	15·5	13·0	15·2	71	..	1·9	..	4·9	0	0	31	13	9	2	2	1	0	0	4	0	0
	1730	"	1014·0	992·3	..	25·0	18·0	13·0	15·1	51	..	2·4	..	4·3	0	0	31	17	10	0	0	0	1	0	3	0	0
Phulbani	0830	..	..	..	..	14·5	12·8	11·1	13·4	81	..	1·2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	..	..	..	..	22·9	18·3	14·9	17·1	61	..	1·3	..	3·1	0	0	12	4	2	1	1	0	0	1	3	19	0
Angul	0830	139	1018·6	1002·3	+1·1	16·4	14·0	11·8	13·9	75	+2	2·5	+0·2	3·4	0	0	28	3	1	0	0	2	0	4	18	3	0
	1730	"	1014·0	996·2	..	24·9	16·9	10·5	12·7	42	..	2·3	..	3·3	0	0	28	4	11	5	6	0	0	0	2	3	0
Keonjhar	0830	463	1018·6	962·6	..	17·6	13·9	10·8	13·3	65	..	1·8	..	2·6	0	0	24	8	5	1	1	2	0	2	5	7	0
	1730	"	1014·0	959·0	..	22·3	16·7	12·8	15·0	57	..	2·1	..	2·7	0	0	27	7	8	1	0	2	1	4	4	4	0
Sambalpur	0830	148	1018·3	1001·0	+0·7	18·4	14·9	11·8	14·1	66	—5	2·0	+0·2	1·0	0	0	9	4	3	1	0	0	0	0	1	22	0
	1730	"	1013·9	997·0	..	24·4	17·1	10·7	13·8	45	..	2·0	..	1·5	0	0	13	6	1	1	1	0	0	0	4	18	0
Jharsuguda	0230	230	1016·1	988·9	..	14·1	13·0	12·0	14·1	87	..	1·5	..	4·2	0	0	24	14	5	2	2	0	0	1	0	7	0
	0530	"	1016·5	989·3	..	12·8	12·0	11·3	13·8	92	..	2·1	..	5·8	0	0	27	20	5	0	2	0	0	0	0	4	0
	0830	"	1018·5	991·6	..	15·8	13·8	11·7	14·3	77	..	2·0	..	6·8	0	0	30	16	11	3	0	0	0	0	0	1	0
	1130	"	1017·0	990·7	..	22·5	16·8	12·2	14·8	54	..	2·1	..	6·6	0	0	29	15	6	2	4	1	0	0	1	2	0
	1730	"	1014·0	987·8	..	22·7	17·3	13·1	15·6	56	..	2·0	..	4·5	0	0	22	8	1	1	1	2	2	6	1	9	0
	2330	"	1016·3	989·4	..	15·9	14·2	12·6	14·9	82	..	1·3	..	3·9	0	0	20	9	1	2	4	0	1	1	2	11	0
Bihar Plateau																											
Jamshedpur	0830	129	1018·7	1003·5	+0·7	14·9	12·5	10·2	12·5	75	+1	2·2	+0·3	2·8	0	0	21	0	0	0	0	0	0	13	8	10	0
	1730	"	1014·2	999·3	..	22·9	15·9	9·7	12·6	45	..	1·7	..	1·5	0	0	14	1	1	0	1	0	1	6	4	17	0
Jamshedpur (P.B.O.)	0530	142	1016·8	999·6	..	12·6	11·1	9·7	12·2	83	..	1·9	..	1·8	0	1	7	0	0	0	0	1	1	2	4	23	0
	0830	"	1019·0	1002·2	..	15·0	12·3	9·6	12·0	71	..	2·2	..	5·0	0	0	25	0	0	0	0	1	4	12	8	6	0
	1130	"	1017·2	1000·8	..	22·0	14·8	7·8	11·0	42	..	1·8	..	6·8	0	0	28	1	3	2	0	1	4	10	7	3	0
	1730	"	1014·3	998·1	..	23·1	15·5	8·7	11·7	41	..	2·5	..	2·7	0	0	16	2	2	3	0	1	1	2	5	15	0
	2330	"	1016·8	1000·0	..	15·0	12·7	10·7	13·0	76	..	1·3	..	2·1	0	0	10	0	0	0	1	0	2	4	3	21	0
Chaibasa	0830	226	1018·6	992·1	+1·0	16·0	12·9	9·9	12·5	67	—9	1·8	—0·2	0·8	0	0	8	0	2	0	0	0	6	0	0	23	0
	1730	"	1014·0	988·1	..	21·9	15·3	9·6	12·0	47	..	2·4	..	0·4	0	0	3	0	1	0	0	1	1	0	0	28	0
Ranchi	0830	655	1018·8	943·9	+1·5	15·5	11·6	8·2	10·8	62	+3	2·2	+0·1	1·0	0	0	9	2	0	2	0	1	0	3	1	22	0
	1730	"	1015·5	941·3	..	17·7	12·9	8·9	11·4	57	..	1·9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Ranchi (G.W.O.)	0530	652	1016·8	941·2	..	11·3	8·8	5·8	9·6	71	..	2·2	..	1·4	0	0	8	1	0	0	0	0	0	0	7	23	0
	0830	"	1017·9	943·4	..	15·3	10·7	5·8	9·4	56	..	2·3	..	2·5	0	0	13	9	0	0	1	0	1	0	2	18	0
	1130	"	1017·2	943·4	..	18·5	11·5	3·5	8·6	41	..	2·0	..	6·4	0	0	23	9	0	3	2	2	1	2	4	8	0
	1730	"	1014·2	940·6	..	17·6	11·3	3·9	8·7	44	..	2·7	..	2·5	0	0	13	8	1	0	1	0	0	2	1	18	0
Daltonganj	0830	221	1019·3	993·1	+0·7	14·1	11·6	9·1	11·7	73	—7	2·5	+0·9	..	..	..	..	0	0	0	0	0	0	0	0	31	0
	1730	"	1014·9	989·4	..	19·7	14·6	9·7	12·7	55	..	2·5	..	..	..	..	..	0	1	0	0	0	0	1	0	29	0
Hazaribagh	0830	611	1018·7	948·4	+0·9	14·8	10·7	6·4	9·8	59	—1	1·9	0	3·8	0	0	18	3	1	1	1	2	2	0	8	13	0
	1730	"	1014·8	945·6	..	18·2	12·3	6·5	10·2	49	..	2·5	..	5·0	0	0	29	8	4	1	0	1	0	0	15	2	0
Dhanbad	0830	257	1018·2	988.2	..	16·9	12·8	8·9	12·0	60	..	2·4	..	3·7	0	0	28	6	0	0	0	2	0	17	3	3	0
	1730	"	1014·7	985·1	..	20·9	15·2	9·3	12·5	48	..	2·3	..	0·5	0	0	5	2	0	0	0	0	0	0	3	26	0
Dumka	0830	149	1018·8	1001·2	+0·8	16·9	13·3	10·2	12·3	67	+1	1·9	+0·5	1·0	0	0	9	1	0	0	1	0	0	6	1	22	0
	1730	"	1014·8	997·5	..	20·9	16·1	12·3	14·5	58	..	1·0	..	0·6	0	0	6	1	0	0	0	0	1	3	1	25	0
Bihar Plains																											
Purnea	0830	38	1018·9	1014·5	+1·1	15·7	12·8	10·1	12·3	70	—15	1·9	+0·5	1·9	0	0	15	1	0	0	0	0	6	8	0	16	0
	1730	"	1014·4	1010·1	..	18·9	14·8	11·4	13·5	61	..	0·9	..	0	0	0	1	0	0	0	0	0	1	0	0	30	0
Forbesganj	0830	61	1018·0	1010·7	..	12·5	11·2	9·6	12·1	83	..	1·7	..	0	0	0	24	1	8	0	2	0	4	4	5	7	0
	1730	"	1014·0	1007·0	..	20·9	15·9	11·9	14·0	57	..	1·3	..	2·0	0	0	14	0	0	0	0	0	2	11	1	17	0
Darbhanga	0830	49	1019·3	1013·4	+1·5	16·1	12·3	8·3	11·1	61	—21	1·3	—0·3	5·0	0	0	31	1	3	2	0	0	4	8	13	0	0
	1730	"	1015·3	1009·6	..	20·5	14·7	10·0	12·0	52	..	1·3	..	3·4	0	0	30	1	1	1	0	1	7	8	11	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—*Contd.*																											
Motihari	0830	66	1019·2	1011·2	+1·8	15·9	13·0	10·7	12·7	73	−5	0	−2·0	1·5	0	2	1	0	0	0	1	0	0	2	0	28	0
	1730	,,	1015·7	1007·9	..	18·5	15·2	12·3	14·6	67	..	0	..	0·1	0	0	0	0	0	0	0	0	0	0	0	31	0
Chapra	0830	..	..	..	..	13·6	11·2	9·0	11·3	75	..	1·3	..	6·2	0	0	31	3	2	1	0	3	18	3	1	0	0
	1730	..	..	..	..	20·0	14·8	10·3	12·5	54	..	1·1	..	3·0	0	0	22	0	0	1	1	1	9	8	2	9	0
Patna	0830	53	1018·5	1012·1	+0·3	15·2	12·2	9·2	11·7	68	−3	1·8	+0·1	5·3	0	0	27	1	3	0	1	4	8	8	2	4	0
	1730	,,	1014·9	1008·8	..	20·6	14·7	9·4	12·1	49	..	(a) 1·1	..	4·6	0	0	24	0	0	1	0	0	3	20	0	7	0
Patna (Aerodrome)	0530	60	1016·0	1008·8	..	10·5	9·4	8·0	10·9	86	..	1·6	..	1·7	0	0	6	0	0	0	0	0	2	3	1	25	0
	0830	,,	1018·1	1010·9	..	13·7	11·5	9·0	11·7	74	..	2·0	..	5·3	0	0	21	0	0	2	1	2	6	8	2	10	0
	1130	,,	1017·4	1010·5	..	21·0	15·2	9·4	12·6	49	..	1·5	..	9·9	0	0	28	0	3	1	2	1	0	8	13	3	0
	1730	,,	1014·6	1007·6	..	20·7	15·5	10·8	13·4	55	..	1·7	..	3·1	0	0	14	0	0	0	0	0	0	8	6	17	0
	2330	52	1016·8	1010·6	..	15·9	13·4	11·6	13·4	75	..	2·5	..	0·3	0	0	2	0	0	0	0	0	0	0	2	29	0
Dehri	0830	107	1018·4	1005·7	..	14·8	12·2	9·6	12·3	73	..	2·2	..	3·9	0	0	30	0	1	0	5	1	19	1	3	1	0
	1730	,,	1014·6	1002·2	..	21·4	14·3	7·5	10·4	43	..	2·4	..	5·2	0	0	31	0	6	1	1	0	2	2	19	0	0
Gaya	0230	116	1017·0	1003·1	..	11·5	9·7	7·7	10·8	78	..	1·9	..	3·8	0	0	22	0	0	1	6	10	3	0	2	9	0
	0530	,,	1017·1	1003·1	..	10·3	8·9	7·4	10·3	82	..	1·7	..	4·2	0	0	22	0	0	1	3	12	4	2	0	9	0
	0830	,,	1019·3	1005·5	+1·3	14·6	11·6	8·3	11·1	67	+4	2·3	+0·6	6·9	0	1	23	0	1	0	3	7	11	0	2	7	0
	1130	,,	1018·3	1004·8	..	21·2	14·4	7·6	11·2	44	..	2·2	..	10·3	0	2	29	2	4	2	3	1	1	4	14	0	0
	1730	,,	1015·6	1002·1	..	20·7	14·3	7·9	11·2	46	..	2·1	..	7·0	0	0	29	4	6	2	0	0	1	2	14	2	0
	2330	,,	1017·5	1003·7	..	13·1	10·6	7·7	10·8	71	..	1·7	..	3·5	0	0	18	0	0	1	2	3	5	5	2	13	0
Jamui	0830	82	1018·9	1008·9	..	14·2	11·9	9·6	12·3	74	..	1·7	..	0·9	0	0	7	0	0	4	1	0	0	1	1	24	0
	1730	,,	1014·6	1004·4	..	20·7	15·5	11·2	13·3	55	..	1·4	..	2·2	0	0	15	0	0	0	0	0	5	5	5	16	0
Bhagalpur	0530	49	1016·6	1010·7	..	12·7	10·8	8·8	12·4	78	..	1·8	..	3·1	0	0	21	0	0	1	1	7	7	4	1	10	0
	0830	,,	1019·0	1013·2	..	14·6	11·9	9·0	12·1	70	..	1·9	..	3·0	0	0	16	0	0	0	0	0	10	6	0	15	0
	1130	,,	1017·8	1012·1	..	20·7	14·7	9·8	11·7	51	..	1·8	..	6·0	0	0	27	2	1	2	0	0	3	11	8	4	0
	1730	,,	1015·5	1009·8	..	19·9	14·9	10·7	12·9	56	..	1·9	..	4·9	0	0	22	0	0	0	0	1	5	14	2	9	0
	2330	,,	1017·0	1011·3	..	15·6	14·4	9·4	12·6	67	..	1·3	..	3·5	0	0	19	0	0	0	1	1	10	7	0	12	0
Sabour	0830	37	1018·6	1014·1	+0·5	13·9	12·0	9·9	12·5	78	−4	2·3	+0·5	3·1	0	0	25	0	1	0	1	1	13	7	2	6	0
	1730	,,	1014·6	1010·2	..	20·2	15·7	12·0	14·3	60	..	2·4	..	2·9	0	0	24	0	0	0	0	0	3	6	15	7	0
Uttar Pradesh (East)																											
Gonda	0830	110	1018·9	1005·7	..	12·4	10·6	8·8	10·9	80	0	0·8	−1·5	3·6	0	0	28	2	3	5	0	0	0	10	8	3	0
	1730	,,	1015·2	1002·4	..	18·7	14·7	11·2	13·3	62	..	0·9	..	0·9	0	0	7	0	0	3	1	0	0	2	1	24	0
Nautanwa	0830	99	1018·6	1006·6	..	11·7	10·2	8·7	11·2	82	..	0·8	..	3·6	0	0	20	1	0	6	6	4	1	1	1	11	0
	1730	,,	1014·9	1003·4	..	19·7	14·5	10·3	12·2	56	..	1·0	..	2·5	0	0	16	0	0	1	1	3	7	3	1	15	0
Gorakhpur	0830	77	1018·4	1008·9	+0·7	13·1	10·6	7·9	10·5	69	−10	0·8	−0·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1014·9	1005·9	..	21·8	15·1	9·6	11·7	47	..	0·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gorakhpur (P.B.O.)	0230	78	1016·1	1006·7	..	13·1	10·8	8·3	11·2	74	..	0·4	..	3·0	0	0	20	3	3	0	0	1	8	3	2	11	0
	0530	,,	1015·9	1006·5	..	11·7	9·8	7·8	10·5	78	..	0·5	..	3·4	0	0	23	7	2	0	0	0	6	6	2	8	0
	1130	,,	1017·8	1008·7	..	20·0	14·4	9·4	12·0	51	..	0·8	..	6·2	0	0	31	4	2	0	6	3	9	5	2	0	0
	2330	,,	1016·5	1007·2	..	14·4	12·0	9·5	12·0	74	..	0·5	..	2·5	0	0	19	2	1	0	0	2	5	6	3	12	0
Azamgarh	0830	78	1018·1	1008·8	..	11·6	10·4	9·0	11·7	85	..	0·8	..	..	0	0	29	1	1	4	0	0	1	22	0	2	0
	1730	,,	1015·0	1005·9	..	18·6	15·6	13·1	15·2	71	..	1·1	..	..	0	0	20	0	0	4	0	0	1	15	0	11	0
Ballia	0830	64	1019·0	1011·4	..	13·6	11·3	8·9	11·6	75	..	1·5	..	3·0	0	0	21	0	5	0	2	0	2	8	4	10	0
	1730	,,	1015·6	1008·1	..	20·4	15·2	10·8	12·9	56	..	1·1	..	1·6	0	0	11	0	0	0	1	0	2	5	3	20	0
Varanasi (Banaras).	0830	76	1019·2	1010·0	+1·7	13·4	11·3	8·9	11·4	76	−2	2·3	+0·7	4·1	0	0	19	4	1	1	0	1	8	2	2	7	0
	1730	,,	1015·7	1006·7	..	20·4	14·6	9·8	12·1	53	..	2·1	..	(c) 4·0 (c)	0	0	23	3	6	0	0	1	4	6	3	3	0
Varanasi (Banaras) (Babatpur Aerodrome).	0530	85	1017·8	1007·4	..	9·5	8·9	8·2	10·9	92	..	1·0	..	3·8	0	0	15	0	0	3	0	0	6	6	0	16	0
	0830	,,	1020·0	1009·4	..	13·2	11·5	9·8	12·4	81	..	1·4	..	7·4	0	0	26	0	2	1	2	0	14	6	1	5	0
	1130	,,	1019·3	1009·3	..	20·2	15·5	11·7	13·5	59	..	1·3	..	9·6	0	1	29	0	3	5	3	0	4	11	4	1	0
	1730	,,	1016·7	1006·7	..	19·5	15·8	12·5	15·1	65	..	1·4	..	7·1	0	0	26	1	3	2	0	1	4	11	3	5	1
	2330	,,	1018·3	1008·0	..	12·3	11·1	9·8	12·8	85	..	1·3	..	4·8	0	0	23	1	1	2	2	0	6	8	3	8	0
Allahabad (Bamrauli)	0230	98	1016·7	1004·9	..	11·3	10·1	8·7	11·8	84	..	0·1	..	2·4	0	0	17	2	3	2	0	0	5	5	0	14	0
	0530	,,	1016·7	1004·8	..	10·2	9·1	7·9	10·6	86	..	1·0	..	3·4	0	0	20	0	3	2	2	0	6	6	1	11	0
	0830	,,	1018·8	1007·1	+0·7	12·9	10·9	8·7	11·7	77	−3	1·8	−0·5	3·6	0	0	20	0	1	4	1	0	4	10	0	11	0
	1130	,,	1018·4	1007·0	..	20·8	14·5	8·5	11·3	47	..	1·8	..	7·4	0	0	31	4	1	5	1	2	3	11	4	0	0
	1730	,,	1015·5	1004·1	..	20·6	15·0	10·1	12·6	52	..	2·0	..	3·0	0	0	18	1	2	2	1	0	0	9	3	13	0
	2330	,,	1017·2	1005·5	..	12·8	10·9	8·8	11·7	77	..	1·1	..	1·9	0	0	16	1	2	4	0	0	2	6	1	15	0
Sultanpur	0830	97	1019·3	1007·8	..	14·9	11·2	7·4	10·5	60	..	0	..	1·6	0	0	16	0	0	4	0	0	0	9	2	15	0
	1730	,,	1015·2	1004·0	..	20·8	14·8	9·4	11·7	49	..	1·0	..	2·0	0	0	18	0	0	6	0	0	0	11	1	13	0

(a) Mean of 30 days. (c) Mean of 26 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %.	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Faizabad	0830	102	1018·3	1006·1	..	11·0	9·5	7·6	10·9	80	..	1·0	..	2·6	0	0	20	0	3	2	1	0	0	11	3	11	0
	1730	"	1015·1	1003·2	..	19·2	14·6	10·7	12·9	59	..	1·5	..	1·0	0	0	8	0	0	0	1	0	2	4	1	23	0
Banda	0830	121	1019·1	1004·6	..	13·7	11·4	8·9	11·7	74	..	1·2	..	1·3	0	0	10	0	1	0	6	0	1	2	0	21	0
	1730	"	1015·4	1001·4	..	21·0	15·6	11·2	13·7	55	..	1·4	..	1·0	0	0	10	0	3	1	1	0	1	1	3	21	0
Fatehpur	0830	114	1018·9	1005·2	..	11.4	9·8	7·9	10·5	80	+11	0·9	—1·0	3·3	0	0	23	0	3	4	1	1	4	5	5	8	0
	1730	"	1015·6	1002·4	..	20·5	14·2	8·4	11·0	47	..	1·3	..	3·7	0	0	18	2	1	1	1	0	0	3	10	13	0
Kanpur	0830	126	1018·7	1003·6	+0·8	10·1	8·3	6·0	9·6	78	0	0·8	—0·5	5·0	0	0	28	5	1	4	2	0	4	8	4	3	0
	1730	"	1015·9	1001·3	..	21·1	13·7	6·2	9·5	41	..	1·5	..	7·8	0	0	31	5	1	4	0	1	1	13	6	0	0
Kanpur (Aerodrome)	0530	126	1016·8	1001·6	..	8·5	7·1	5·2	9·0	80	..	0·3	..	..	0	1	13	0	3	1	1	0	1	8	0	17	0
	0830	"	1018·5	1003·5	..	11·2	9·0	6·4	9·6	73	..	0·9	..	..	0	0	21	1	2	3	1	0	4	7	3	10	0
	1130	"	1018·3	1003·7	..	20·6	13·1	5.4	9·0	39	..	1·3	..	..	0	6	22	3	2	4	2	0	2	12	3	3	0
	1730	"	1015·5	1000·9	..	20·6	13·1	4·8	9·0	38	..	1·5	..	..	0	0	22	1	1	2	3	0	1	9	5	9	0
	2330	"	1017·3	1002·3	..	12·3	9·4	6·2	9·6	67	..	0·7	..	..	0	0	15	1	1	1	1	0	1	10	0	16	0
Lucknow	0830	111	1019·1	1005·5	+1·1	10.3	9·1	7·8	10·7	84	+6	0·8	—1·0	2·2	0	0	23	1	0	3	0	3	0	15	1	8	0
	1730	"	1015·7	1002·7	..	20·1	14·0	8·5	10·9	48	..	1·0	..	3·0	0	0	30	3	0	3	0	0	0	24	0	1	0
Lucknow (Amausi Aerodrome).	0230	128	1016 8	1001·3	..	8·9	7·8	6·5	9·7	87	..	0·6	..	8·0	0	0	24	2	3	2	0	0	3	8	6	7	0
	0530	"	1016·6	1001·0	..	7.6	7·0	6·3	9·5	91	..	0·6	..	7·4	0	1	20	1	1	1	1	0	4	7	6	10	0
	0830	"	1018·9	1003·1	+0·5	11·0	9·2	7·3	10·1	79	+2	0·7	—1·1	7·7	0	1	21	1	3	2	2	0	1	9	4	9	0
	1130	"	1018·1	1003·2	..	20·1	13·9	7·9	10·9	47	..	0·9	..	13·8	0	6	25	2	3	2	2	2	1	10	9	0	0
	1730	"	1015·4	1000·6	..	19·6	13·6	7·8	10·4	48	..	1·3	..	10·1	0	0	27	2	0	3	2	0	0	9	11	4	0
	2330	"	1017·2	1001·9	..	10·4	8·9	7·0	10·4	81	..	0·7	..	8·2	0	1	25	0	2	3	0	0	3	12	6	5	0
Hardoi	0830	142	1018·6	1001·4	..	9·9	8·4	6·7	10·1	81	..	0·9	..	4·3	0	0	24	1	0	4	2	0	1	14	2	7	0
	1730	"	1015·2	998·7	..	19·9	13·6	7·6	10·9	46	..	1.3	..	4·7	0	0	25	1	1	3	3	1	0	13	3	6	0
Lakhimpur Kheri	0830	147	1018·0	1000·3	..	10·2	8·9	7.3	10·2	83	..	0.6	..	2·0	0	0	17	1	0	4	0	0	0	11	1	14	0
	1730	"	1014·8	997·7	.	20·4	14·9	10·4	12·6	55	..	1·3	..	0·9	0	0	8	0	0	1	1	0	0	6	0	23	0
Bahraich	0830	124	1018·6	1003 8	+1·3	13·1	10·5	7·5	10·7	70	—11	1·0	—0·5	4·7	0	0	31	4	0	9	0	1	0	17	0	0	0
	1730	"	1015·8	1001·3	..	18·9	13·6	8·6	11·3	52	..	1·5	..	3·1	0	0	31	1	0	7	0	0	0	23	0	0	0
Uttar Pradesh (West).																											
Orai	0830	141	1021·1	1004·3	..	14·0	11·0	7·6	10·6	65	..	1·3	..	3·3	0	0	27	0	1	0	2	0	1	2	21	4	0
	1730	"	1015·8	999·5	..	21·3	15·1	9·3	12·3	49	..	0·8	..	3·2	0	0	31	6	2	0	3	1	0	2	17	0	0
Jhansi	0830	251	1019·5	989·8	+0·9	13·9	10·0	5·4	9·2	58	—4	1·4	—0·3	0·9	0	0	8	3	0	2	0	0	0	0	3	23	0
	1730	"	1015·3	986.5	..	21·9	13·4	4·6	8·4	33	..	1·3	..	2·5	0	0	26	8	2	4	3	0	0	2	7	5	0
Agra	0830	169	1019·6	999·2	+1.1	10·4	8·2	5·1	9·2	71	+7	0·7	—1·5	2 6	0	0	20	1	4	0	0	2	7	3	3	11	0
	1730	"	1015·9	996·5	..	20·9	13·3	5·2	9·1	37	..	0·3	..	1·8	0	0	17	0	2	2	3	0	1	1	8	14	0
Agra (Aerodrome)	0530	169	1017·8	997·1	..	6·7	5·8	4·6	8·6	87	..	1.2	..	..	0	0	7	0	1	0	1	0	0	4	1	24	0
	0830	"	1019·7	993·9	..	9·1	7·5	5·3	8·8	78	..	2·1	..	..	0	0	22	2	1	1	1	0	3	10	4	9	0
	1130	"	1019·2	999·2	..	18·8	12·9	6·8	10·3	47	..	1·8	..	..	0	2	26	2	2	2	6	1	1	5	9	3	0
	1730	"	1016·0	996·2	..	19·5	13·1	6·7	9·9	45	..	1·6	..	..	0	0	30	5	6	4	1	0	0	7	7	1	0
	2330	"	1018·1	997·6	..	10·2	8·4	6·1	9·6	77	..	1·2	..	..	0	0	14	3	3	2	1	0	0	4	1	17	0
Mainpuri	0830	157	1017·9	998·9	—0·4	9·7	8·3	6·8	9·9	81	+8	1·1	—1·1	1·7	0	0	18	1	1	1	0	0	0	13	2	13	0
	1730	"	1016·6	998·3	..	20·0	14·6	9·8	12·0	53	..	0·9	..	0·7	0	0	6	0	0	1	0	0	0	4	1	25	0
Aligarh	0830	187	1019·3	996·6	..	8·8	7·3	5·5	9·0	80	+16	2·1	+0·6	2·7	0	0	25	1	0	6	0	0	0	18	0	6	0
	1730	"	1016·2	994·3	..	19 3	13·3	7·4	10·5	47	..	2·0	..	2·7	0	0	22	8	0	3	0	2	0	6	3	9	0
Bareilly	0830	173	1018·3	997 6	+0·7	10·7	9·1	7·2	10·2	79	—2	2·0	—0·3	2·6	0	0	16	3	1	3	0	0	0	5	4	15	0
	1730	"	1015·0	994·9	..	19·2	13·4	7·6	10·6	48	..	2·2	..	1·4	0	0	10	0	0	0	0	0	0	9	1	21	0
Bareilly (P.B.O.)	0230	172	1017·1	996·4	..	11·3	9·7	8·5	10·7	33	..	1·0	..	4·0	0	0	24	3	3	4	0	0	0	6	8	7	0
	0530	"	1016·5	995,8	..	9·8	8·7	7·6	10·3	87	..	1·2	..	3·4	0	0	23	1	1	4	1	0	1	8	7	8	0
	1130	"	1018·0	997·8	..	17·4	13·7	11·1	12·9	67	..	1·6	..	7·6	0	1	28	2	3	3	2	0	2	7	10	2	0
	2330	"	1017·2	996·6	..	12·6	10·7	9·0	11·2	80	..	0·6	..	3·8	0	0	23	2	2	5	0	0	0	8	6	8	0
Meerut	0830	222	1019·4	992·9	+2·0	11·5	9·0	5·9	9·6	71	—6	1·9	—0·6	1·6	0	0	11	0	0	2	0	0	0	7	2	20	0
Najibabad	0830	270	1018·9	986·5	..	7·9	7·2	6·2	9·3	89	..	1·7	..	2·2	0	0	14	0	4	0	1	0	0	0	9	17	0
	1730	"	1016·5	985·3	..	18·5	14·5	10·8	13·3	61	..	1·5	..	2·7	0	0	18	0	0	0	1	0	1	0	11	18	0
Roorkee	0830	274	1020·0	987·2	+2·0	9·7	8·2	6·7	9·2	83	0	2·7	+0·1	1·0	0	0	10	0	1	0	0	0	0	0	9	21	0
	1730	"	1016·4	984·5	..	17·5	12·7	7·8	10·4	54	..	3·5	..	1·2	0	0	12	0	1	0	0	0	1	0	10	19	0
Dehra Dun	0530	682	1018·2	998·1	..	7·4	6.0	4·6	8·3	82	..	2·0	..	1·5	0	0	13	4	4	1	0	1	0	1	2	18	0
	0830	"	1019·3	939·3	+1·1	8·8	6·9	4·6	8·4	75	+2	2·9	—0·5	3·2	0	0	12	4	3	0	0	1	1	2	1	19	0
	1130	"	1018·0	940·2	..	15·9	10·5	5·1	8·3	50	..	2·6	..	4·4	0	0	31	2	1	0	3	6	6	10	3	0	0
	1730	"	1015·9	938·1	..	15·2	11·1	7·1	9·9	60	..	3·0	..	1·4	0	0	10	1	1	0	0	2	2	3	1	21	0
	2330	"	1018·5	939·1	..	9·9	7·9	6·0	9·2	77	..	2·5	..	2·8	0	0	17	12	4	0	0	0	0	1	0	14	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour.	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)																											
New Delhi	0230	216	1018·0	991·9	..	8·9	7·3	5·3	8·8	79	..	0·7	..	4·5	0	0	19	2	2	2	1	1	0	3	8	12	0
	0530	"	1017·9	991·6	..	7·6	6·3	4·7	8·5	81	..	0·7	..	5·4	0	0	18	0	2	0	1	0	1	6	8	13	0
	0830	"	1019·6	993·4	+1·1	8·5	6·7	4·3	8·5	73	−3	2·4	−0·9	7·0	0	1	19	0	2	1	1	0	1	9	6	11	0
	1130	"	1019·1	993·4	..	17·8	11·7	5·1	8·8	45	..	2·2	..	11·0	0	3	27	1	2	6	2	2	1	6	10	1	0
	1730	"	1016·1	990·9	..	18·9	12·7	6·1	9·9	45	..	2·4	..	9·8	0	1	29	2	5	4	2	0	0	0	17	1	0
	2330	"	1018·7	992·7	..	11·0	8·7	6·1	9·6	73	..	1·0	..	6·0	0	2	16	4	4	0	1	0	0	1	8	13	0
New Delhi (Palam Aerodrome)	0230	233	1017·9	990·1	..	10·1	8·4	6·2	9·6	78	..	1·1	..	..	0	0	19	0	3	8	1	0	4	1	2	12	0
	0530	"	1017·7	989·7	..	8·1	6·8	5·1	8·5	82	..	1·1	..	..	0	0	26	0	3	7	3	3	6	4	0	5	0
	0830	"	1019·4	991·3	..	8·8	7·1	4·9	8·8	78	..	2·5	..	..	0	1	23	0	0	3	3	4	11	3	0	7	0
	1130	"	1019·2	992·0	..	17·0	12·2	7·8	10·7	56	..	2·7	..	..	0	6	25	0	2	7	2	1	7	6	6	0	0
	1430	"	1016·4	989·5	..	19·9	13·3	6·7	9·9	44	..	3·0	..	..	0	7	24	4	3	5	2	1	1	7	8	0	0
	1730	"	1016·4	989·2	..	18·8	12·8	6.7	9·9	47	..	2·3	..	..	0	0	30	3	3	5	1	0	0	6	12	1	0
	2030	"	1017·6	990·0	..	14·2	11·1	7·9	10·5	67	..	1·6	..	..	0	1	23	4	3	6	1	0	0	7	3	7	0
	2330	"	1018·1	990·5	..	12·1	9·7	7·2	10·1	73	..	1·2	..	..	0	0	20	3	3	5	1	1	2	4	1	11	0
Hissar	0530	221	1018·2	991·3	..	6·5	5·9	5·2	8·8	91	..	1·2	..	4·1	0	0	26	2	4	2	5	1	2	4	6	5	0
	0830	"	1019·8	992·9	+0·7	6·8	5·9	4·8	8·5	87	+18	2·6	+0·4	3·9	0	0	25	2	0	2	3	2	4	10	2	6	0
	1130	"	1019·6	993·6	..	17·1	12·8	8·9	11·5	60	..	2·2	..	4·7	0	0	30	1	4	1	6	2	3	4	9	1	0
	1730	"	1016·7	990·9	..	18·6	14·0	10·4	12·6	60	..	2·2	..	4·3	0	0	28	3	3	4	1	1	0	8	8	3	0
	2330	"	1018·7	992·1	..	10·0	8·6	7·0	10·1	82	..	1·4	..	4·5	0	0	29	2	6	0	5	0	2	3	11	2	0
Karnal	0830	249	1019·3	989·3	..	9.0	7·4	5·3	8·8	77	..	0·6	..	(l) 1.0	0	0	4	0	0	3	0	0	0	0	1	15	0
	1730	"	1016·9	987·8	..	17·7	12·4	8·0	10·3	53	..	0·9	..	(l) 1·6	0	0	5	1	0	3	0	0	0	0	1	14	0
Patiala	0830	251	1019·4	989·3	..	9·2	7·0	4·6	8·2	73	..	2·5	..	3·9	0	0	19	0	0	0	5	0	0	0	14	12	0
	1730	"	1017·2	987·9	..	16·3	11·5	6.2	9·9	53	..	2·5	..	3·7	0	0	15	0	0	0	2	0	0	0	13	16	0
Ambala	0830	272	1019·2	986·4	+1·0	7.9	7.1	5·9	9.3	87	+12	1.6	−1.2	1·7	0	0	14	0	1	0	9	0	0	0	4	17	0
	1730	"	1016.2	984·5	..	17.2	12.9	8.5	11.7	58	..	1.6	..	1.6	0	0	19	0	3	0	9	0	0	0	7	12	0
Ambala (P.B.O.)	0230	278	1017·5	984·3	..	9·3	8·2	6·6	9·6	81	..	2·2	..	6 0	0	1	23	4	5	3	1	1	0	3	7	7	0
	0530	"	1017·1	983·8	..	8·5	7·3	6.2	9·3	86	.	1·6	..	4·8	0	0	25	5	4	1	3	1	1	4	6	6	0
	1130	"	1018·7	986·2		16·2	11·8	8·2	10·2	54	..	2·7	..	8·2	0	3	24	1	1	0	10	2	0	3	10	4	0
	2330	"	1017·7	984·7	..	11·8	9.5	7.7	10·1	75		2·0	..	6·7	0	1	23	3	1	2	2	0	1	2	12	7	0
Ambala (Aerodrome)	0530	274	1017·7	984·4	..	6·1	5·6	4·7	8·6	89		1·6	..	..	0	0	13	0	0	2	0	0	0	5	6	18	0
	0830	"	1018·2	985·7	..	6.9	6·2	5·4	8·9	89		2·8	..	..	0	2	15	0	0	2	4	1	0	4	6	14	0
	1130	"	1018·8	986·6	..	16·2	11·7	7·1	10·2	56		2·8	..	..	0	6	22	0	0	1	8	1	1	4	13	3	0
	1730	"	1015·9	984·0	..	17·1	12·2	7·1	10·3	54	..	2·9	..	..	0	3	21	0	1	1	0	0	0	8	14	7	0
	2330	"	1018·1	985·2	..	9·5	7·9	6·0	9·2	81	..	2·1	..	..	0	2	9	0	0	1	1	0	0	5	4	20	0
Chandigarh	0830	347	1018.5	977·2	..	10.5	8.1	4.5	8.8	65	..	2.2	..	..	0	0	7	1	1	3	1	0	0	0	1	24	0
	1730	"	1016·0	975·8	..	16.7	11.4	5.5	9.2	51	..	2.1	..	..	0	0	15	1	1	3	1	0	2	0	7	16	0
Ludhiana	0830	247	1019·6	989·7	+1·1	8·2	6.9	5.6	9.2	34	+5	2·0	−0.7	2.0	0	0	19	1	0	1	4	0	1	4	8	12	0
	1730	"	1015·9	987·5	..	16.6	12.0	7.3	10.5	55	..	2.3	..	2·3	0	0	20	4	0	1	2	0	1	2	10	11	0
Halwara (Aerodrome)	0830	242	1019·6	990·2	..	5·9	5.3	4·8	8·5	92	..	2·5	..	..	0	0	16	3	1	0	1	1	0	3	7	15	0
	1730	"	1017·0	988·7	..	16.4	12·1	7.9	10·3	58	..	2·8	..	..	0	0	26	2	1	2	1	1	0	4	15	5	0
Bhantinda	0830	211	1019·4	993·8	..	8.3	6.7	4.8	8·5	79	..	(b) 1·2	..	(b) 3.9	0	0	23	8	1	0	2	1	3	3	5	6	0
	1730	"	1017·8	993·1	..	18.0	12.7	7.1	10.5	51	..	(b) 0·8	..	(b) 4.8	0	0	23	4	3	0	2	1	0	2	16	1	0
Ferozepur	0830	200	1018·5	994·1	..	6·3	5·3	4·2	8.0	87	..	1·7	..	0.3	0	0	3	0	3	0	0	0	0	0	0	28	0
	1730	"	1016·9	993·2	..	17.5	12·6	7·3	10.7	53	..	2·4	..	1.2	0	0	11	1	1	0	1	0	0	0	8	20	0
Amritsar	0530	234	1018·4	989·7	..	4.7	4·3	3·6	8·0	93	..	1·3	..	2·7	0	0	14	4	0	2	1	0	1	1	5	17	0
	0830	"	1019·8	991·2	..	5·1	4·6	3·8	8·1	91	..	2·2	..	2 8	0	0	18	2	1	5	0	1	1	3	5	13	0
	1130	"	1019.7	992·0	..	14·5	10·5	6·3	9·5	59	..	2·2	..	5·0	0	1	23	3	1	3	2	1	1	2	11	7	0
	1730	"	1017.1	989·5	..	16·1	11·6	6·9	10·2	56	..	3·1	..	5·6	0	0	25	2	1	1	2	0	0	8	11	6	0
Pathankot (Aerodrome)	0830	312	1019.4	981·9	..	7·9	6·3	4·3	8·3	79	..	3·0	..	3·1	0	0	22	4	6	4	2	1	2	2	1	9	0
	1130	"	1019.0	982·6	..	16.1	10·7	4·7	8·6	45	..	3·1	..	4·2	0	0	27	2	5	3	6	4	5	1	11	4	0
	1730	"	1016·8	980·5	..	15·9	11·2	6·1	9·6	54	..	3·6	..	5.2	0	1	27	2	1	2	0	1	5	12	5	3	0
Adampur (Aerodrome)	0530	238																									
(R)	0830	"																									
(R)	1130	"																									
(R)	1730	"																									
(R)	2330	"																									

(l) Mean of 19 days. (b) Mean of 29 days. (R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Himachal Pradesh																											
Bilaspur	0830	493	1021·	962·7	..	4·7	4·3	3.8	8·2	94	..	6·0	..	1·1	0	0	9	1	2	2	1	2	1	0	0	22	0
	1730	"	1016·5	959·7	..	16·3	10·8	5·3	8·7	51	..	3·1	..	2·8	0	0	22	0	0	3	4	6	2	1	6	9	0
Mandi	0830	761	1022·0	931·9	.	3·5	3·2	2·9	7·4	95	..	4·4	..	0·4	0	0	4	0	0	0	0	1	1	1	1	27	0
	1730	"	1015·2	928·5	.	14·3	10·0	4·0	8·8	55	..	3·3	..	0·4	0	0	4	0	0	0	1	2	1	0	0	27	0
Jammu and Kashmir																											
Srinagar	0830	1587	1553·6	846·7	+1·4	−2·1	−2·5	−3·3	4·8	92	+6	5·6	−1·0	5·0	0	0	19	0	0	0	13	1	0	4	1	12	0
	1130	"	1555·3	847·2	..	1·8	−0·1	−3·0	4·6	72	..	5.5	..	2·5	0	0	21	2	2	0	9	1	0	3	4	10	0
	1730	"	1534·3	844·7		3·1	0·9	−2·1	5·0	70	..	4 9	..	2·5	0	0	20	2	1	0	2	0	0	6	9	11	0
Srinagar (Aerodrome)	0530	1666	1539·3	837·2	..	−3·1	3·5	—4·4	4·0	92	..	4·7	..		0	0	12	0	1	3	3	2	1	1	1	19	0
	0830	"	1549·9	838·3	..	−2·9	−3·1	−4·2	4·4	89	..	5·4	..	..	0	0	18	0	0	2	4	7	0	2	3	13	0
	1130	"	1557,9	839·0	..	1·4	−0·4	−3·2	4·9	73	..	5·2	..	..	0	0	21	2	2	4	4	0	0	1	8	10	0
	1730	"	1532·4	836·7	..	2·0	0·1	−2·9	4·9	73	..	4·7	..	..	0	0	14	2	1	2	1	2	0	1	5	17	0
Culmarg	0830	2655		closed	during	winter	months)																				
	1730	"																									
Leh	0530	3514	3113·2	664·7	..	−12·4	−13·9	—19·6	1·1	54	..	3·1	..	2·7	0	0	13	2	11	0	0	0	0	0	0	18	0
	0830	"	3120·2	665·8	+1·4	−11·0	−13·1	−19·3	0·9	47	—12	3·6	—1 6	2·2	0	0	12	0	12	0	0	0	0	0	0	19	0
	1730	"	3086·4	663·5	..	−4·1	—6·4	−11·8	2·6	54	..	4·0	..	2·2	0	0	16	0	4	2	0	2	6	2	0	15	0
Skardu (R)	0830	2288																									
(R)	1730	"																									
Gilgit (R)	0830	1491																									
(R)	1730	"																									
Misgar (R)	0830	3106																									
(R)	1730	"																									
Jammu*	0830	..																									
Jammu (Aerodrome)	0530	292	1018·5	983·1	..	8·8	6·4	4·8	8·1	79	..	2·2	..	8·2	0	0	23	0	22	0	0	0	0	0	1	8	0
	0830	"	1019·5	984·2	..	8·8	6·7	4·1	8·0	74	..	3·0	..	6·9	0	0	23	1	19	2	0	0	0	0	1	8	0
	1130	"	1019·6	985·0	..	15·2	10·4	4·9	8·7	52	..	3·2	..	5·9	0	1	21	4	10	1	2	2	2	0	1	9	0
	1730	"	1017·0	982·7		16·2	11·1	5·5	9·2	50	..	3·7	..	7·0	0	0	22	0	2	1	2	2	3	8	4	9	0
Rajasthan (West)																											
Sri Ganganagar	0530	177	1018·4	996·8	..	6·7	5·3	3·4	7·8	80	..	0·5	..	1·3	0	0	9	1	4	1	3	0	0	0	0	22	0
	0830	"	1019·5	997·9		6·5	5·2	3·4	7·8	82	+7	1·9	−1·3	2·2	0	0	19	4	3	3	3	1	2	1	2	12	0
	1130	"	1019·8	998·9	..	16·0	11·0	..	9·2	51	..	2·1	..	4·1	0	0	25	4	3	3	5	1	1	5	3	6	0
	1730	"	1016·5	995·9	..	19·3	12·8	6·3	9·9	43	..	2·1	..	0·8	0	0	7	4	1	1	0	0	0	1	0	24	0
	2330	"	1018·7	997·4		9·6	7·7	4·9	8·8	72	..	1·1	..	1·7	0	0	11	3	1	3	2	0	0	0	2	20	0
Churu	0830	291	1020·2	984·8		6·6	4·3	0·5	6·6	67	..	2·5	..	2·5	0	0	17	2	0	2	3	3	4	3	0	14	0
	1730	"	1015·9	982·3	..	20·9	12·3	2·0	7·6	30	..	1·6	..	7·3	0	1	29	18	1	2	0	1	1	1	6	1	0
Bikaner	0830	224	1019·8	992·5	+0·9	7·3	4·4	−0·4	6·2	60	−5	0·8	−1·4	3·2	0	0	23	2	3	2	15	0	0	0	1	8	0
	1730	"	1015·8	990·0	..	21·5	12·4	1·5	7·1	28	..	0·7	..	5·7	0	0	29	7	7	0	3	0	3	0	9	2	0
Bikaner (P.B.O.)	0530	224	1018·4	991·0	..	5·3	4·1	2·2	7·2	81	..	0·5	..	1·6	0	0	8	1	3	0	1	2	0	1	0	23	0
	1130	"	1019·3	993·1	..	18·6	12·8	6·8	9·8	48	..	1·2	..	7·2	0	0	29	3	7	4	5	4	1	1	4	2	0
	2330	"	1018·5	991·6	..	10·4	7·8	4·6	8·8	68	..	0·9	..	3·8	0	0	15	7	5	1	0	0	0	0	2	16	0
Jaisalmer	0830	242	1018·8	989·8	..	9·0	6·4	2·3	7·6	65	..	1·2	..	5·9	0	1	14	6	6	0	0	1	1	0	1	16	0
	1730	"	1015·4	987·7	..	22·6	10·4	−8·4	3·0	13	..	1·5	..	14·2	0	6	23	11	9	0	0	2	3	2	2	2	0
Phalodi	0830	234	1019·8	991·6	..	9·1	6·3	2·2	7·2	65	..	1·2	..	5.2	0	1	18	3	4	2	5	1	2	2	0	12	0
	1730	"	1016·1	989·2	..	22·5	15·2	8·0	11·5	45	..	1·6	..	8·1	0	1	25	8	6	0	1	1	4	4	2	5	0
Nagaur	0830	298	1019·8	984·2	..	10·5	6·2	−0·4	6·3	51	..	1·1	..	3·3	0	0	18	4	3	4	2	2	1	1	1	13	0
	1730	"	1015.4	981·0	..	21.9	11·8	−1·9	5·9	23	..	1·2	..	6·6	0	0	27	9	4	1	1	2	1	2	7	4	0
Jodhpur	02	224	1017·5	990·8	..	12·8	7·7	−0·2	6·4	42	..	0·9	..	8·9	0	0	29	9	16	1	1	0	0	2	0	2	0
	0530	"	1017·4	990·6	..	11·3	6·7	−0·4	6·2	47	..	0·4	..	9·0	0	0	29	8	19	0	0	0	1	0	1	2	0
	0830	"	1019·1	992 3	+2·4	11·4	6·8	−0·5	6·3	47	0	1·3	−1·1	8·1	0	0	28	6	22	0	0	0	0	0	0	3	0
	1130	"	1019·1	992·9	..	19·4	11·5	1·6	7·2	33	..	1·2	..	6·8	0	1	21	2	10	9	1	0	0	0	0	9	0
	1730	"	1015 2	989·5	..	23·3	12·3	−2·2	5·6	19	..	1·1	..	7·5	0	0	29	9	10	3	0	1	1	2	3	2	0
	2330	"	1017·7	991·2	..	15·2	8·7	−0·8	6·0	35	..	1·1	..	8·8	0	0	29	10	13	1	1	0	2	1	1	2	0
Barmer	0530	194	1016·5	993·3	..	12·3	8·3	2·5	7·9	52	..	0·6	..	..	0	0	30	13	2	0	0	0	0	0	15	1	0
	0830	"	1017·7	994·5	+0·1	11·7	7·7	2·1	7·5	53	+2	1·1	−1·0	..	0	0	31	12	4	1	2	0	0	1	11	0	0
	1130	"	1018·3	995·7	..	19.4	11·6	3·0	7·4	35	..	1·1	..	..		0	31	11	10	4	2	1	1	0	2	0	0

(R) Register not received. *Temporarily closed.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West) —*Contd.*																											
Barmer—*Contd.*	1730	194	1014·6	992·4	..	23·8	13·7	2·2	7·8	27	..	1·4	..	..	0	0	31	4	14	2	3	0	2	1	5	0	0
	2330	"	1016·8	993·9	..	16·0	9·8	1·6	7·4	39	..	1·0	..	..	0	0	31	9	4	3	0	4	2	2	7	0	0
Rajasthan (East)																											
Pilani	0830	..	..	..	..	9·4	6·5	2·4	7·2	62	..	1·7	..	8·6	0	1	29	4	0	5	4	3	7	4	3	1	0
	1730	..	..	..	..	20·5	13·3	6·1	9·7	41	..	0·9	..	10·4	0	0	31	9	4	5	2	0	2	2	7	0	0
Alwar	0830	271	1018·7	986·0	..	8·2	7·4	6·5	9·6	89	..	1·5	..	0·4	0	0	4	0	0	1	1	0	0	0	2	27	0
	1730	"	1015·4	984·2	..	20·4	14·3	8·4	11·3	49	..	2·0	..	5·1	0	0	28	6	11	3	3	1	0	1	2	3	1
Sikar	0830	433	1019·7	968·8	..	11·7	7·4	1·9	6·9	52	..	1·8	..	1·8	0	0	19	0	4	7	8	0	0	0	0	12	0
	1730	"	1015·2	965·9	..	20·5	11·9	1·1	7·1	29	..	1·6	..	2·3	0	0	23	4	4	0	2	2	0	4	7	8	0
Jaipur (Sanganer Aerodrome).	0230	390	1017·6	971·2	..	9·9	6·8	2·4	7·5	61	..	0·8	..	..	0	0	24	4	12	6	0	0	0	0	2	7	0
	0530	"	1017·7	971·1	..	8·9	6·2	2·2	7·2	64	..	0·7	..	..	0	0	25	3	11	9	0	0	0	0	2	6	0
	0830	"	1019·1	972·7	+0·2	10·8	7·5	2·9	7·9	61	..	1·5	..	..	0	0	23	1	8	8	1	0	2	0	3	8	0
	1130	"	1018·4	973·3	..	18·9	11·7	3·3	7·9	37	..	1·2	..	..	0	2	29	2	1	7	4	5	5	4	3	0	0
	1730	"	1015·1	970·3	..	20·1	11·8	1·2	7·0	30	..	1·8	..	..	0	0	29	2	1	6	2	3	3	4	8	2	0
	2330	"	1017·9	971·7	..	11·5	7·7	2.5	7·8	55	..	0·4	..	..	0	0	27	7	10	7	0	0	0	0	3	4	0
Dholpur	0830	176	1018·7	997·5	..	9·7	7·8	5·3	9·0	75	..	1·7	..	2·6	0	0	18	0	0	0	1	0	1	7	9	13	0
	1730	"	1014·9	994·5	..	20·3	13·0	5 2	9·1	39	..	1·7	..	2·8	0	0	21	7	3	2	0	0	0	1	8	10	0
Tonk	0830	272	1018·7	986·0	..	8·8	7·1	4·6	8·8	76	..	1·3	..	3·0	0	0	19	2	1	2	5	0	0	1	8	12	0
	1730	"	1014·2	983·0	..	20·8	14·0	7·0	10·8	43	..	1·7	..	6·9	0	0	29	3	6	3	1	0	2	2	12	3	0
Ajmer	0830	486	1020·3	962·6	+0·7	8·1	6·0	3·3	7·7	73	+17	1·4	—0·5	2·9	0	0	22	7	5	2	1	0	0	3	4	9	0
	1730	"	1015·2	960·1	..	20·4	11·2	0·1	6·1	27	..	1·3	..	6·2	0	0	29	1	7	5	3	1	4	3	5	2	0
Kotah	0530	257	1017·8	987·1	..	10·8	8·4	5·5	9·0	70	..	0·5	..	0·5	0	0	5	1	0	0	0	0	1	3	0	26	0
	0830	"	1019·3	988·8	+0·8	12·7	9·5	5·4	9·5	62	+5	1·2	—0·6	0·7	0	0	7	1	0	3	0	0	0	2	1	24	0
	1130	"	1018·4	988·8	..	20·9	13·8	6·4	9·8	40	..	0·9	..	0·3	0	0	3	0	1	1	0	0	0	0	1	28	0
	1730	"	1015·6	986·1	..	22·2	14·0	5·8	9·3	36	..	1·1	..	1·0	0	0	9	2	2	2	0	0	0	1	2	22	0
	2330	"	1017·7	987·5	..	14·6	10·5	5·8	9·2	56	..	0·4	..	0·2	0	0	2	0	0	0	0	0	0	1	1	29	0
Chambal	0830	351	1019·5	977·8	..	10·6	8·0	5·0	9·0	69	..	1·7	..	1·7	0	0	8	3	1	0	0	0	1	0	3	23	0
	1730	"	1014·7	974·7	..	22·4	14·1	5·6	9·8	35	..	2.2	..	8·2	0	0	28	4	12	3	2	1	0	3	3	3	0
Jhalawar	0830	321	1019·1	981·1	+0·9	12·3	8·8	5·1	8·5	58	0	1·2	—0·5	1·1	0	0	11	4	2	1	0	1	0	0	3	20	0
	1730	"	1014·1	977·7	..	23·6	14·0	5·9	28·3	28	..	1·2	..	3·5	0	0	28	6	9	1	3	1	2	3	3	3	0
Udaipur	0230	582	1018·2	949·9	..	9·6	7·7	5·9	9·0	77	..	0·7	..	0·3	0	0	3	2	0	0	0	0	0	1	0	28	0
	0530	"	1018·5	949·8	..	8·1	6·7	5·0	8·8	82	..	0·4	..	0·3	0	0	3	0	0	0	0	0	0	0	3	28	0
	0830	"	1019·7	951·7	+1·3	11·0	8·2	5·0	9·0	67	+13	1·0	—0·4	0·8	0	0	7	2	1	0	0	0	0	1	3	24	0
	1130	"	1017·7	951·8	..	20·0	12·9	6·1	10·6	43	..	1·3	..	3·5	0	0	23	2	5	8	2	1	0	4	1	8	0
	1730	"	1014·1	948·7	..	21·3	13·7	6·9	10·1	41	..	1·3	..	2·7	0	0	20	0	4	7	5	1	2	1	0	11	0
	2330	"	1018·3	950·5	..	11·6	9·0	6·2	9·8	71	..	1·7	..	0·8	0	0	3	1	1	0	0	0	0	0	1	28	0
Erinpura (Jawai Dam)	0830	295	1018·5	983·3	..	11·0	9·1	7·1	10·1	79	..	1·3	..	3·1	0	0	11	1	0	0	4	2	3	0	1	20	0
	1730	"	1014·1	980·5	..	23·4	16·2	10·1	12·5	44	..	1·4	..	4·8	0	0	25	6	10	0	0	0	3	2	4	6	0
Madhya Pradesh (West)																											
Gwalior (P.B.O.)	0230	207	1017·4	992·5	..	8·7	6·9	4·5	8·5	75	..	0·7	..	1·9	0	0	12	0	0	0	5	3	1	2	1	19	0
	0530	"	1017·5	992·4	..	7·4	5·9	3.8	8·1	79	..	0·8	..	1·7	0	0	11	1	0	0	7	0	1	1	1	20	0
	0830	"	1019·2	994·4	+0·9	11·3	8·5	4·9	8·9	67	—5	1·8	—0·7	3·0	0	0	18	1	0	2	6	3	2	1	3	13	0
	1130	"	1018·6	994·5	..	19·3	12·4	4·4	9·2	41	..	1·4	..	7·6	0	0	28	5	7	2	2	2	2	2	6	3	0
	1730	"	1015·5	991·5	..	20·5	12·7	3.8	8·5	36	..	1·8	..	5 5	0	0	27	8	7	2	3	1	0	0	6	4	0
	2330	"	1017·7	992·8	..	10·2	7·9	4·9	8·9	71	..	0·9		2·3	0	0	17	1	0	1	8	1	3	3	0	14	0
Sheopurkalan	0830	235	1018 8	990·7	..	10·2	8·3	5.7	9·4	74	..	1·5	..	2·7	0	0	19	3	6	1	3	3	1	1	1	12	0
	1730	"	1014·4	987·5	..	22·2	14·8	8 5	10·1	41	..	1·7	..	7·4	0	0	29	7	5	3	1	0	2	3	8	2	0
Guna	0530	478	1017·3	960 7	..	8·4	6·2	3.2	8·3	71	..	0·6	..	1·7	0	0	15	1	4	2	4	3	0	0	1	16	0
	0830	"	1019·0	963·1	+0·5	12·7	8·9	4·2	8·7	59	—3	1·6	+0·2	2·6	0	0	19	4	2	6	4	1	0	2	0	12	0
	1130	"	1017·5	963·1	..	20·4	12·4	3.6	8·6	37	..	2·2	..	5·0	0	0	29	2	5	8	5	2	2	2	3	2	0
	1730	"	1014·0	960·0	..	21·7	12·7	2·5	8·1	32	..	1·9	..	6·2	0	0	28	6	1	6	2	2	1	3	7	3	0
	2330	"	1017·5	961·5	..	12·0	8·4	3·9	8·4	59	..	0·8	..	2·0	0	0	15	1	3	2	5	1	0	1	2	16	0
Rajgarh	0830	382	1018·2	973·1	..	11·2	8·4	4·7	9·0	65	..	1·9	..	3·2	0	0	20	1	5	1	3	0	0	8	2	11	0
	1730	"	1013·8	970·6	..	23·2	14·4	4·9	9·6	34	..	1·7	..	4·6	0	0	27	3	5	1	4	0	0	14	0	4	0
Neemuch	0830	496	1019·7	961·1	+1·1	12·1	8·0	2·8	7·8	55	0	1·1	—0·4	3·3	0	0	23	2	15	4	2	0	0	0	0	8	0
	1730	"	1014·8	959·0	..	22·5	12·5	1·3	7·3	28	..	1·5	..	7·6	0	0	29	2	19	2	1	0	1	4	0	2	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, Km. per hour	Wind speed, (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Ratlam	0830	486	1018·5	961·5	..	11·9	9·0	5·6	9·4	68	..	1·5	..	13·1	0	1	27	5	15	6	1	0	1	0	0	3	0
	1730	"	1013·8	959·0	..	22·9	15·4	9·2	12·0	46	..	2.3	..	10·3	0	0	28	2	11	6	0	1	2	3	0	3	0
Alirajpur	0830	293	1018·1	983·7	..	14·2	11·1	7·3	10·6	66	..	1·9	..	4·1	0	0	18	0	2	13	3	0	0	0	0	13	0
	1730	"	1012·8	979·9	..	25·7	15·8	5·3	10·3	31	..	1·6	..	6·5	0	0	26	2	1	9	3	0	0	9	2	5	0
Indore	0530	567	1016·6	950·5	..	10·8	8·7	6·0	9·8	74	..	1·4	..	5·4	0	0	28	0	14	4	2	4	2	0	2	3	0
	0830	"	1018·5	952·6	+0·5	12·5	9·9	7·0	10·5	71	+11	2·3	+0·6	5·5	0	0	23	1	13	4	2	2	1	0	0	8	0
	1130	"	1016·9	952·8	..	20·3	13·9	7·7	11 2	49	..	2·4	..	14·3	0	4	27	0	8	11	4	5	1	0	1	0	1
	1730	"	1013·3	949·8	..	22·1	14·5	7·2	11·1	44	..	2·3	..	11·4	0	3	28	4	10	6	2	1	4	2	2	0	0
	2330	"	1016·9	951·3	..	13·8	10·8	7·5	9·1	68	..	1·2	..	7·2	0	1	26	1	12	5	4	3	1	1	0	4	0
Ujjain*	0830																										
Bhopal (Bairagarh)	0230	523	1016·5	955·6	..	12·9	9·9	6·5	10·1	68	..	1·1	..	8·9	0	0	29	5	10	4	7	0	1	2	0	2	0
	0530	"	1016·7	955·6	..	11·4	9·2	6·7	10 0	75	..	1·4	..	7·9	0	0	27	1	18	2	3	2	0	0	1	4	0
	0830	"	1018·6	957·9	+0·3	13·8	10·5	6·9	10·3	66	+1·5	1·9	+0·1	6·5	0	0	27	2	13	4	5	1	1	1	0	4	0
	1130	"	1017·4	957·9	..	20·0	13·4	6·9	10·6	47	..	2·4	..	11·2	0	0	30	2	9	7	8	1	2	0	1	1	0
	1730	"	1014·1	955·1	..	21·3	14·1	7·1	10·8	45	..	2·1	..	8·6	0	0	29	6	10	6	3	0	1	2	1	2	0
	2330	"	1016·7	956·4	..	14·3	11·0	7·3	10·7	66	..	1·1	..	7·3	0	1	26	4	6	6	6	2	2	0	1	4	0
Khandwa	0830	318	1018·0	980·8	+0·9	15·5	12·7	9·6	12·1	70	+14	3·2	+1·8	3·2	0	0	24	2	14	3	3	0	2	0	0	7	0
	1730	"	1012·6	977·0	..	25·0	17·1	10·1	12·8	42	..	2·8	..	5·5	0	0	31	2	21	0	14	1	1	1	1	0	0
Hoshangabad	0830	302	1018·4	982·9	+0·4	14·9	12·0	8·9	11·7	69	+13	2 8	+1·1	5·2	0	0	27	3	3	18	3	0	0	0	0	4	0
	1730	"	1014·2	980·1	..	22·4	15·9	9·8	12·9	50	..	2·8	..	3·1	0	0	21	2	3	14	1	0	0	1	0	10	0
Betul	0830	653	1018·1	943·3	..	15·1	12·5	9·8	12·6	74	..	3·1	..	3·6	0	0	23	0	4	4	4	1	0	0	0	8	0
	1730	"	1013·3	940·6	..	21·6	15·3	10·1	13·1	53	..	3·1	..	5·7	0	0	29	6	13	4	3	1	1	0	1	2	0
Chhindwara	0830	685	1018·5	939·9	..	14·0	11·8	9·6	12·2	76	..	3·1	..	3·7	0	0	22	4	7	3	2	2	1	1	2	9	0
	1730	"	1013·4	936·9	..	20·8	14·9	9·6	12·8	54	..	3·4	.	5·8	0	0	30	5	4	2	3	6	3	3	4	1	0
Seoni	0830	619	1017·4	946·8	+0·4	15·2	12·6	10·2	12·8	74	+13	3·1	+1·5	3·1	0	0	24	5	6	4	3	5	1	0	0	7	0
	1730	"	1013·4	944·1	..	20·9	15·7	11·5	14·1	59	..	3·1	..	3·5	0	0	29	4	8	2	8	2	1	0	4	2	0
Sagar	0830	551	1018·1	954·4	+0·4	14·5	10·5	6·3	9·7	59	+9	2·2	+0·4	7·2	0	0	31	0	10	14	2	1	2	2	0	0	0
	1730	"	1014·1	951·8	..	20·5	13·6	8·0	10·5	46	..	2·4	..	4·3	0	0	29	0	4	10	3	0	0	7	5	2	0
Nowgong	0830	229	1019·5	991·9	+0·8	9·4	8·0	6·3	9·6	83	+7	1·5	−0·7	2·3	0	0	18	0	2	2	1	4	8	0	1	13	0
	1730	"	1015·4	989·1	..	21·9	14·3	6·3	10·3	40	..	1·5	..	4·7	0	0	26	3	7	2	0	0	1	3	10	5	0
Madhya Pradesh (East)																											
Satna	0530	317	1017·0	979·3	..	10·2	9·3	8·2	11·0	87	..	1.8	..	0·6	0	0	4	0	0	2	0	1	0	1	0	27	0
	0830	"	1018·9	981·5	+0·8	13·2	11·4	8·8	12·2	75	+7	1·9	−0·1	2·2	0	0	19	0	0	4	1	6	3	5	0	12	0
	1130	"	1017·8	981·3	..	19·6	13·7	7·6	11·0	49	..	1·8	..	4·3	0	0	28	2	0	10	4	2	1	8	1	3	0
	1730	"	1015·1	978·6	..	20·3	14·4	8·7	11·8	50	..	2·2	..	2·9	0	0	20	2	1	6	0	1	0	3	7	11	0
	2330	"	1017·2	979·8	..	13·0	11·0	8·9	11·6	77	..	1·8	..	0·1	0	0	1	0	0	1	0	0	0	0	0	30	0
Sidhi	0830	..	..	..	..	13·0	11·1	9·4	11·4	80	..	1·8	..	0·4	0	0	3	0	0	1	0	1	0	0	1	28	0
	1730	..	..	..	..	20·9	15·8	11·1	13·6	57	..	2·2	..	1·4	0	0	11	3	0	3	0	1	0	3	1	20	0
Umaria	0830	459	1019·1	965·4	..	13·0	11·1	9·3	11 9	79	+11	2·4	−0·1	0·9	0	0	6	0	0	1	4	0	0	1	0	25	0
	1730	"	1014·5	962·3	..	20·2	14·9	10·6	13·1	57	..	2·9	..	0·3	0	0	3	0	1	0	1	1	0	0	0	28	0
Jabalpur	0530	393	1016·7	970·4	..	11·0	10·3	9·6	12·0	92	..	1·9	..	2·5	0	0	16	0	3	2	9	2	0	0	0	15	0
	0830	"	1018·7	972·6	+0·9	13·1	11·6	9·9	11·9	81	+10	2·5	+0·7	3·0	0	0	22	1	3	2	13	2	0	0	1	9	0
	1130	"	1017·5	972·6	..	20·2	15·2	10·5	13·7	57	..	2·7	..	6·0	0	0	28	4	10	0	3	7	0	3	1	3	0
	1730	"	1014·3	969·7	..	21·6	16·2	11·5	13·5	56	..	2·6	..	4·5	0	0	27	5	17	0	5	0	0	0	0	4	0
	2330	"	1017·0	971·1	..	13·6	12·4	11·3	13·5	87	..	1·9	..	3·1	0	0	19	1	3	2	10	3	0	0	0	12	0
Mandla	0830	443	1019 1	967·1	..	12·0	11·2	10·3	11·7	90	..	2·7	..	1·0	0	0	9	6	0	1	1	1	0	0	0	22	0
	1730	"	1014·2	963·9	..	21.1	15·2	9·3	12·5	53	..	2·5	..	2·2	0	0	13	8	0	0	0	0	0	0	5	18	0
Pendra	0530	625	1017·2	944·8	..	11·5	9·4	7·0	10·4	75	..	2·5	..	2·8	0	0	23	7	0	0	0	4	3	3	6	8	0
	0830	"	1019·0	946·9	+0·4	13·4	11·0	8·4	11·4	74	+8	2·8	+1·0	3·1	0	0	22	7	3	0	0	3	1	4	4	9	0
	1130	"	1017·4	946·7	..	18·5	13·1	7·8	11·2	55	..	2·7	..	5·8	0	0	31	15	2	1	0	4	6	0	3	0	0
	1730	"	1014·4	944·1	..	19·3	13·7	8·4	11·7	54	..	2·9	..	4·9	0	0	28	16	2	1	0	2	2	1	4	3	0
	2330	"	1017·5	945·6	..	13·6	10·8	7·8	11·0	71	..	2·5	..	3·0	0	0	24	6	1	0	0	1	2	6	8	7	0
Ambikapur	0830	611	1019·5	948·6	..	12·6	10·9	9·2	11·8	81	..	2·4	..	2·9	0	0	15	4	4	1	0	3	3	0	0	16	0
	1730	"	1014·5	945·7	..	19·7	13·9	8·7	12·0	53	..	2·2	..	6·5	0	0	27	16	4	1	0	0	0	0	6	4	0
Champa	0830	245	1018·6	989·7	..	15·1	12·7	10·2	13·0	74	..	2·3	..	4·1	0	0	28	18	4	3	0	0	0	0	3	3	0
	1730	"	1014·3	986·3	..	23·6	16·0	9·1	12 2	43	..	2·2	..	4·2	0	0	24	14	0	2	1	0	0	1	6	7	0
Raigarh	0830	220	1018·2	992·3	..	16·3	13·3	10·5	12·9	69	..	2·1	..	4·2	0	0	28	1	21	1	5	0	0	0	0	3	0
	1730	"	1014·0	988·9	..	23·8	16·7	10·8	13·2	48	..	2.1	..	3·1	0	0	20	3	15	0	0	0	0	0	1	11	1

*Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(*Contd.*)																											
Raipur	0530	298	1016·3	981·3	..	14·2	12·4	10·5	12·9	80	..	2·5	..	3·5	0	0	19	7	6	5	1	0	0	0	0	12	0
	0830	"	1018·3	983·5	+1·0	16·6	13·4	10·2	12·9	68	+6	2·5	+1·0	3·9	0	0	22	5	10	3	2	0	0	0	1	9	1
	1130	"	1017·0	983·0	..	22·7	15·6	8·8	11·9	45	..	2·0	..	5·7	0	0	28	7	7	8	2	2	1	1	0	3	0
	1730	"	1014·0	980·2	..	23·9	16·2	9·0	12·1	43	..	2·3	..	3·7	0	1	15	8	2	0	1	0	1	0	4	15	0
	2330	"	1016·4	981·8	..	17·9	13·9	10·0	12·7	63	..	1·7	..	5·3	0	0	23	7	7	4	1	1	1	0	2	8	0
Kanker	0830	402	1018·0	971·6	+0·6	16·9	13·7	11·2	13·0	69	−2	1·7	−0·1	0·6	0	0	3	1	0	0	0	1	0	1	0	28	0
	1730	"	1012·9	967·9	..	25·2	17·1	10·5	13·2	41	..	2·1	..	2·1	0	0	17	2	9	1	0	0	0	2	3	14	0
Jagdalpur (P.B.O.)	0530	553	1016·0	952·3	..	13·4	12·2	11·3	13·4	87	..	1·5	..	0·1	0	0	1	0	1	0	0	0	0	0	0	30	0
	0830	"	1017·5	954·4	+0·[illegible]	17·0	13·8	11·4	13·5	69	−9	1·8	−0·1	0·7	0	0	5	1	0	1	1	0	0	0	2	26	0
	1130	"	1014·4	953·2	.	25·2	16·5	9·9	12·5	39	..	1·3	..	3·0	0	0	23	3	6	3	5	2	0	0	4	8	0
	1730	"	1012·0	950·8	.	24·9	16·7	10·7	12·9	42	..	2·6	..	3·1	0	0	17	7	1	0	1	2	1	0	5	14	0
	2330	"	1015·9	953·1	.	16·8	14·2	12·3	14·4	75	..	1·4	..	0·9	0	0	8	1	0	3	1	0	0	1	2	23	0
Gujarat																											
Deesa	0830	136	1017·8	1001·5	+0·7	12·3	8·7	3·8	8·0	58	..	1·1	..	3·5	0	0	26	5	15	5	1	0	0	0	0	5	0
	1730	,,	1014·0	998·5	.	25·6	14·6	0·5	6·3	24	..	1·1	..	4·6	0	0	28	10	8	3	0	2	1	1	3	3	0
Radhanpur	0830	30	1017·5	1013·9	..	12·9	10·6	8·0	10·7	73	..	0·6	..	6·0	0	0	28	11	4	9	0	0	0	2	2	3	0
	1730	,,	1014·6	1011·1	..	25·3	19·1	14·7	16·7	54	..	0·7	..	5·2	0	0	29	15	2	2	0	1	1	4	4	2	0
Idar	0830	219	1017·3	991·7	..	17·5	10·9	2·2	7·1	39	..	1·0	..	6·4	0	0	25	7	12	6	0	0	0	0	0	6	0
	1730	"	1013·6	988·7	..	25·0	14·6	2·4	7·3	26	.	1·1		5·1	0	0	21	0	2	6	2	0	0	8	3	10	0
Ahmedabad	0230	55	1015·3	1008·7	.	14·6	10·8	6·1	9·9	59	.	0·7	.	9·8	0	1	28	9	13	3	1	0	0	0	3	2	0
	0530	"	1015·2	1008·6	.	13·0	9·9	5·9	9·7	64	..	0·4	..	11·0	0	0	31	4	17	6	1	0	0	2	1	0	0
	0830	"	1017·2	1010·6	+0·3	14·2	10·4	5·8	9·6	59	+6	0·9	−0·4	11·9	0	2	27	0	4	14	0	0	0	0	1	2	0
	1130	"	1017·4	1010·9	..	23·5	14·7	5·5	9·6	34	..	1·1	..	18·5	0	16	14	2	3	20	2	0	0	2	1	1	0
	1730	"	1013·6	1007·4	..	26·4	15·6	3·9	8·9	27	..	1·4	..	14·3	0	1	30	2	12	8	2	0	0	2	5	0	0
	2330	"	1015·7	1009·1	..	16·7	12·1	6·6	10·4	54	..	0·7	..	8·9	0	0	29	9	12	2	0	0	0	1	5	2	0
Dohad	0830	333	1017·6	978·5	..	13·9	10·7	7·2	10·1	63	+2	(a) 1·1	−0·4	(a) 7·1	0	0	29	0	9	10	5	3	2	0	0	1	0
	1730	"	1013·9	975·3	..	24·6	15·6	7·0	10·0	34	..	(a) 1·1	..	(a) 10·2	0	0	30	1	12	5	1	0	7	2	2	0	0
Baroda	0530	34	1014·8	1010·5	.	13·1	11·0	8·5	11·6	75	..	0·4	.	3·5	0	0	24	1	19	3	0	0	0	0	1	7	0
	0830	"	1016·8	1012·6	..	14·0	11·2	7·9	11·1	68	+10	1·5	+0·5	3·3	0	0	24	0	22	1	0	0	0	0	1	7	0
	1130	"	1016·9	1012·8	..	24·8	16·5	8·8	12·0	39	..	1·0	.	5·3	0	0	18	0	22	2	1	0	1	0	2	3	0
	1730	"	1013·1	1009·1	..	27·3	17·9	9·8	12·8	36	..	1·2	.	4·0	0	0	23	3	14	1	0	0	0	2	3	8	0
	2330	"	1015·4	1011·2	..	17·2	13·4	9·6	13·1	62	..	0·9	.	3·7	0	0	27	1	22	1	1	0	0	0	2	4	0
Baroda (Aerodrome)	0830	38	1016·7	1012·1	..	14·9	11·3	7·2	10·5	62	..	1·5	..	7·6	0	0	29	17	9	0	0	1	0	0	2	2	0
	1130	"	1016·6	1012·2	..	24·8	16·0	7·4	11·1	36	..	1·3	.	10·7	0	2	27	7	10	7	1	0	2	0	2	2	0
	1730	,,	1012·9	1008·6	..	27·0	16·7	6·7	10·7	31	..	1·4	..	8·3	0	0	29	13	5	0	0	0	1	0	10	2	0
Broach	0830	17	1015·8	1013·7	..	13·7	11·0	8·0	10·7	69	..	1·0	.	6·9	0	0	31	5	19	2	0	0	0	2	3	0	0
	1730	"	1012·1	1010·1	..	29·4	18·2	8·5	11·1	29	..	1·4	..	10·0	0	3	28	3	20	0	0	0	0	4	4	0	0
Surat	0530	12	1013·9	1012·5	..	16·1	12·7	9·5	11·9	66	..	0·2	.	7·9	0	0	31	15	11	4	0	0	0	0	1	0	0
	0830	"	1015·9	1014·5	+0·3	16·8	13·1	9·7	12·0	64	+5	0·7	..	6·4	0	0	29	20	5	4	0	0	0	0	0	2	0
	1130	"	1015·9	1014·5	..	26·7	17·7	10·2	12·4	37	..	0·6	..	9·8	0	1	30	7	19	3	1	0	0	0	1	0	0
	1730	"	1012·4	1011·0	..	27·7	18·3	10·6	12·8	37	..	1·0	..	7·4	0	0	31	9	5	1	0	1	0	2	13	0	0
	2330	"	1014·7	1013·3	..	19·8	14·7	9·9	12·2	55	..	0·6	..	7·5	0	0	30	17	8	1	2	0	0	0	2	1	0
Saurashtra and Kutch																											
Naliya	0830	..	..	..	..	10·7	8·2	5·0	8·7	69	..	2·2	..	6·6	0	0	26	6	11	8	1	0	0	0	0	5	0
	1730	..	..	..	..	24·7	14·3	3·3	7·7	28	..	1·5	..	19·1	0	9	22	10	6	1	1	0	2	8	3	0	0
Bhuj (Aerodrome)	0230	80	1016·3	1006·6	.	11·5	8·6	5·0	8·7	65	..	0·2	..	2·1	0	0	7	0	3	0	0	0	4	0	0	24	0
	0530	"	1016·2	1006·5	..	9·7	7·7	5·1	8·8	74	..	0·2	..	1·7	0	0	7	0	4	0	0	0	3	0	0	24	0
	0830	,,	1018·0	1008·3	+1·1	11·9	9·4	6·6	9·7	71	+36	0·8	−0·5	1·1	0	0	7	3	0	0	0	0	3	1	0	24	0
	1130	"	1018·2	1008·8	..	22·1	13·5	3·9	8·1	32	..	0·8	..	11·5	0	4	22	10	11	3	0	0	0	0	2	5	0
	1730	"	1014·7	1005·5	..	24·8	13·8	0·4	6·3	22	..	1·2	..	16·0	0	8	21	9	14	2	0	0	1	0	3	2	0
	2330	"	1016·9	1007·2	..	13·7	9·8	5·3	8·9	58	..	0·3	..	3·2	0	0	9	1	4	0	0	0	2	0	2	2	0
Bhutakia Bhimasar	0830	47	1017·6	1011·9	..	13·5	11·1	8·6	11·2	73	..	..	..	14·1	0	6	24	13	8	0	1	0	0	3	5	1	0
	1730	,,	1014·6	1009·1	..	25·3	17·9	12·1	14·1	45	..	..	..	16·0	0	7	24	16	7	1	0	0	1	2	4	0	0
Kandla	0830	14	1017·8	1016·1	..	15·3	11·6	7·6	10·7	61	..	0·9	..	12·1	0	1	30	14	2	2	1	0	1	1	10	0	0
	1730	"	1015·1	1013·4	..	23·8	15·8	8·0	11·5	39	..	1·5	..	14·0	0	5	23	12	7	1	1	2	2	0	3	3	0
Mandvi	0830	9	1017·6	1016·5	..	15·2	11·3	7·2	10·1	60	..	1·4	..	14·8	0	3	28	6	10	11	0	0	1	3	0	0	0
	1730	"	1015·0	1013·9	..	22·7	17·1	12·3	14·3	56	.	1·6	..	22·2	0	14	17	5	4	0	2	2	7	7	1	0	3
Dwarka	0830	11	1017·4	1016·1	+0·8	17·0	14·1	11·6	13·8	71	+4	1·5	−0·1	10·6	0	2	29	6	22	2	0	0	0	0	1	0	0
	1730	,,	1014·5	1013·2	..	23·4	17·1	11·6	14·2	51	..	0·8	..	17·4	0	6	25	8	8	2	0	0	0	0	13	0	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea or height in g.p.m. of the nearest tandard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Relative humidity: Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal.	Mean wind speed Km. per hour.	Wind speed. (Km.p.h.): 62 or more	Wind speed. (Km.p.h.): 20 to 61	Wind speed. (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —(*Contd.*)																											
Porbander	0830	7	1016·8	1016·0	..	16·9	14·5	12·5	14·5	76	..	0·4	..	10·7	0	0	31	17	3	0	0	0	0	0	11	0	0
	1730	"	1014·0	1013·2	..	25·5	21·3	18·7	21·6	67	..	1·3	..	17·3	0	3	28	7	4	0	0	0	0	8	12	0	0
Porbander (Aerodrome)	0830	"	1016·7	1015·9	..	17·8	12·0	6·5	9·7	51	..	0·6	..	8·1	0	5	11	2	8	3	1	0	0	0	2	15	0
	1130	"	1017·1	1016·3	..	24·6	15·1	7·0	10·0	35	..	0·3	..	16·8	0	10	19	3	17	6	0	0	0	2	1	2	0
	1730	"	1013·6	1012·8	..	26·2	16·3	8·2	10·9	36	..	0·6	..	21·6	0	17	14	6	7	2	0	0	1	14	1	0	0
Jamnagar	0530	23	1015·4	1012·7	..	12·3	10·3	8·2	10·9	77	.	0·1	..	10·7	0	4	26	2	13	6	2	4	1	1	1	1	0
	0830	"	1017·3	1014·6	+0·4	13·1	10·5	7·7	10·5	72	+12	1·2	+0·2	10·8	0	4	26	0	7	11	4	5	2	0	1	1	0
	1130	"	1017·8	1015·2	..	21·8	15·6	10·2	12·4	49	..	0·7	..	19·4	0	12	19	6	20	4	0	0	0	1	0	0	0
	1730	"	1014·2	1011·6	..	24·3	16·7	10·3	12·5	42	.	1·0	..	17·3	0	11	20	13	12	1	0	0	0	2	3	0	0
	2330	"	1016·4	1013·7	..	16·9	14·4	12·2	14·2	75		0·6	..	11·9	0	2	29	6	10	3	0	2	2	3	5	0	0
Rajkot (Aerodrome)	0830	138	1017·2	1000·9	+0·5	14·0	9·7	3·9	8·6	54	+4	0·5	—1·0	5·1	0	2	13	5	5	2	1	0	0	0	2	16	0
	1130	"	1017·0	1001·3	..	23·8	14·5	4·1	9·0	31	..	0·5	..	18·3	0	11	20	9	18	3	0	0	0	0	1	0	0
	1730	"	1013·5	997·9	..	26·3	14·7	5·3	7·3	21	..	0·7	.	19·8	0	17	13	9	13	0	0	0	0	1	7	1	0
Surendranagar	0830	74	1017·2	1008·3	..	15·1	10·7	5·1	8·8	54	..	0·9	..	5·5	0	0	29	14	6	2	0	0	0	2	5	2	0
	1730	"	1013·5	1005·0	..	26·7	16·2	4·3	8·3	29	..	1·5	.	5·9	0	0	29	10	14	0	0	0	0	1	4	2	0
Bhavnagar	0830	17	1016·8	1014·8	+0·5	14·8	11·4	7·7	10·5	63	+17	0·7	—0·7	2·7	0	0	26	5	2	0	0	0	3	5	11	5	0
	1730	"	1013·1	1011·2	..	27·3	18·6	11·7	13·7	40	..	1·0	..	7·0	0	7	21	2	18	5	1	0	0	1	1	3	0
Bhavnagar (Aerodrome).	0830	11	1016·6	1015·4	..	16·2	12·3	8·1	10·8	60	..	0·9	..	12·3	0	4	25	6	6	1	0	0	0	4	12	2	0
	1130	"	1017·0	1015·8	..	22·5	16·4	11·3	13·4	51	..	0·5	..	16·2	0	5	26	11	17	3	0	0	0	0	0	0	0
	1730	"	1013·3	1012·1	..	26·1	17·9	11·2	13·3	41	..	0·8	.	16·8	0	5	26	0	24	5	1	0	0	0	1	0	0
Mahuva	0830	9	1015·7	1014·6	..	17·1	13·6	10·2	12·4	65	..	0·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	1012·3	1011·3	..	26·6	19·8	14·8	16·8	51	..	0·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Keshod	0830	51	1017·0	1010·7	..	14·8	9·6	3·1	7·6	45	..	0·7	..	13·8	0	5	26	4	11	15	0	0	0	0	1	0	0
	1130	"	1017·0	1011·1	..	24·5	14·8	4·1	8·2	31	..	0·5	..	20·1	0	15	16	5	17	9	0	0	0	0	0	0	0
	1730	"	1013·5	1007·6	..	28·0	15·8	1·9	7·0	21	..	1·0	..	21·2	0	15	16	6	8	4	0	0	1	5	7	0	0
Veraval	0230	8	1014·5	1013·6	..	16·4	11·1	4·7	9·0	49	..	0·2	..	16·4	0	6	25	20	10	0	0	0	0	0	1	0	0
	0530	"	1014·2	1013·2	..	15·2	10·3	3·7	8·6	49	..	0	..	15·4	0	5	24	17	12	0	0	0	0	0	0	2	0
	0830	"	1016·1	1015·2	+0·2	16·3	11·0	4·4	8·8	48	—2	0·7	—0·4	12·7	0	5	24	15	12	1	0	0	0	0	1	2	0
	1130	"	1016·4	1015·5	..	26·1	16·7	7·8	11·3	34	..	0·6	..	16·9	0	10	20	9	11	2	0	2	1	3	2	1	0
	1730	"	1013·1	1012·2	..	25·4	19·1	13·3	16·9	54	..	1·1	..	19·8	0	14	16	2	5	0	1	0	1	12	9	1	0
	2330	"	1015·3	1014·4	..	18·5	13·4	7·6	11·3	53	..	0·4	..	13·9	0	5	23	18	8	1	0	0	0	0	1	3	0
Konkan																											
Dahanu	0830	5	1014·6	1014·1	+0·4	19·3	15·9	13·1	15·1	68	—9	0·7	—1·1	7·1	0	0	31	5	2	16	8	0	0	0	0	0	0
	1730	"	1012·0	1011·5	..	24·9	21·8	20·1	23·5	76	..	1·5	..	17·4	0	12	19	24	2	0	1	0	0	2	2	0	0
Bombay (Colaba)	0830	11	1014·5	1013·2	—0·5	21·0	17·9	15·7	18·1	72	+2	0·4	—0·9	4·5	0	0	25	4	7	10	3	1	0	0	0	6	0
	1130	"	1014·7	1013·5	..	27·2	20·3	16·0	18·1	51	..	0·6	..	4·7	0	0	28	3	5	8	6	0	0	2	4	3	0
	1730	"	1011·7	1010·5	..	26·5	21·6	18·9	21·7	63	..	0·6	..	11·0	0	0	31	6	0	0	0	0	0	4	21	0	0
Bombay (Santacruz Aerodrome).	0230	15	1012·8	1011·1	..	18·9	16·0	13·5	15·5	73	..	0·5	..	1·9	0	0	8	3	2	2	1	0	0	0	0	23	0
	0530	"	1012·7	1011·0	..	17·8	15·2	13·0	15·0	75	..	0·3	..	3·5	0	0	16	2	7	6	0	0	0	0	1	15	0
	0830	"	1014·7	1013·0	—0·3	20·9	16·3	12·7	14·7	61	—4	0·5	—0·8	4·1	0	1	20	2	7	11	1	0	0	0	0	10	0
	1130	"	1014·7	1013·0	..	28·6	19·0	12·1	14·1	38	..	0·5	..	7·3	0	1	26	2	6	7	4	0		2	4	4	0
	1730	"	1011·8	1010·1	..	26·7	20·2	16·0	18·2	53	..	0·7	..	12·8	0	1	30	6	0	0	0	0	0	1	24	0	0
	2330	"	1013·8	1012·1	..	20·7	17·6	15·3	17·4	72	..	0·4	..	2·6	0	0	17	6	7	3	0	0	0	0	1	14	0
Alibag	0830	7	1014·4	1013·6	—0·3	21·1	16·9	13·7	15·9	64	—1	0·4	—1·1	3·2	0	0	24	4	13	6	1	0	0	0	0	7	0
Harnai	0830	20	1013·4	1011·1	—0·1	23·7	18·4	14·3	16·3	58	—9	1·5	..	11·8	0	6	19	3	10	8	1	0	0	0	2	6	0
	1730	"	1010·6	1008·7	..	26·9	23·0	21·0	24·9	70	..	1·5	..	25·3	0	18	12	6	0	0	0	0	0	5	19	1	0
Ratnagiri	0830	35	1013·9	1009·9	—0·2	22·3	17·9	14·7	17·1	63	..	1·2	..	..	0	1	30	0	0	31	0	0	0	0	0	0	0
	1730	"	1010·8	1006·8	..	28·6	22·2	18·5	21·3	55	..	1·1	..	..	0	1	30	0	0	0	0	0	0	21	10	0	0
Devgad	0830	36	1013·9	1009·8	+0·2	23·1	19·5	17·2	19·6	71	0	1·6	+0·2	8·2	0	0	31	2	10	19	0	0	0	0	0	0	0
	1730	"	1010·6	1006·6	..	28·8	23·2	20·2	23·7	60	..	1·2	..	22·5	0	13	18	1	0	0	0	0	0	12	18	0	0
Vengurla	0230	9	1011·8	1010·8	..	21·0	19·3	18·3	21·0	85	..	0·3	..	1·5	0	0	9	7	0	1	0	0	0	1	0	22	0
	0530	"	1011·9	1010·9	..	19·7	18·3	17·4	19·9	87	..	0·4	..	2·9	0	0	20	15	1	1	2	0	0	0	1	11	0
	0830	"	1014·1	1013·1	..	20·7	18·5	17·1	19·5	80	..	1·1	..	1·8	0	0	14	10	1	2	0	0	0	1	0	17	0
	1130	"	1014·0	1013·0	..	30·4	21·0	14·9	16·9	40	..	0·8	..	6·3	0	0	30	1	3	5	8	2	8	3	0	1	0
	1730	"	1010·7	1009·7	..	29·1	22·6	18·9	21·8	55	..	0·8	..	5·9	0	0	31	0	0	0	1	0	7	15	8	0	0
	2330	"	1013·1	1012·1	..	22·5	20·4	19·1	22·1	81	..	0·5	..	2·9	0	0	19	14	0	0	0	0	0	1	4	12	0
Maharashtra (Including Marathwada)																											
Naudurbar	0830	206	1016·9	993·0	..	19·3	15·8	12·8	14·8	66	..	0·6	..	5·7	0	0	31	0	0	29	0	0	0	1	1	0	0
	1730	"	1011·9	988·7	..	27·7	20·0	14·8	16·8	47	..	0·7	..	5·4	0	0	31	2	0	19	0	0	0	7	3	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars. At station level	Mean pressure in millibars. Departure from normal.	Mean Temperature in °C. Dry bulb	Mean Temperature in °C. Wet bulb	Mean Temperature in °C. Dew Point.	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas). Mean amount	Cloud amount (Oktas). Departure from normal.	Mean wind speed Km. per hour.	Wind speed, (Km.p.h.) 62 or more	Wind speed, (Km.p.h.) 20 to 61	Wind speed, (Km.p.h.) 1 to 19	No. of observations. Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Maharashtra (Including Marathwada) —(*Contd.*)																											
Jagaon	0830	201	1017·2	993·4	..	15·9	13·1	10·1	12·3	71	..	1·8	..	9·6	0	0	29	2	3	17	6	0	0	1	0	2	0
	1730	"	1012·1	989·5	..	27·7	18·4	10·7	12·9	38	..	1·8	..	9·3	0	1	29	4	6	12	2	0	1	3	2	1	0
Malegaon	0830	437	1017·1	966·3	+0·1	14·8	11·3	7·1	10·1	63	+11	1·6	+2·0	1·7	0	0	17	0	0	1	0	0	1	11	4	14	0
	1730	"	1010·9	962·5	..	27·8	16·9	7·2	10·1	29	..	2·3	..	6·3	0	0	28	7	8	5	1	1	2	4	0	3	0
Deolali	0830	571	1017·5	951·9	..	15·5	12·6	10·0	12·3	71	..	0·8	..	3·9	0	0	23	15	3	3	0	1	0	0	1	8	0
	1730	"	1011·2	948·6	..	27·9	18·6	12·1	14·1	39	..	1·7	..	10·9	0	0	30	4	1	2	2	0	11	9	1	1	0
Aurangabad	0830	581	1016·7	951·1	+0·5	19·1	14·2	10·0	12·3	57	+10	1·2	−0·4	4·9	0	0	26	0	2	23	1	0	0	0	0	5	0
	1730	"	1010·9	947·2	..	27·2	17·7	9·9	12·2	34	..	2·0	..	0·4	0	0	28	1	1	8	1	4	5	5	3	3	0
Aurangabad (Chikalthana Aerodrome).	0230	579	1014·5	948·3	..	16·1	12·7	9·8	12·1	67	..	1·3	..	2·9	0	0	9	1	2	4	2	0	0	0	0	22	0
	0530	"	1015·1	948·4	..	13·8	11·2	8·7	11·2	72	..	1·1	..	2·6	0	0	11	0	0	6	2	1	0	2	0	20	0
	0830	"	1016·5	950·5	..	17·8	13·9	10·7	12·9	64	..	1·5	..	4·4	0	0	15	0	0	6	9	0	0	0	0	16	0
	1130	"	1014·9	950·4	..	24·5	17·6	13·1	15·1	50	..	1·5	..	12·4	0	1	30	0	1	7	14	6	2	1	0	0	0
	1730	"	1010·4	946·9	..	27·3	17·9	11·3	13·4	38	..	2·5	..	5·4	0	0	18	1	0	3	3	2	5	2	2	13	0
	2330	"	1014·7	948·9	..	18·2	14·0	10·5	12·7	62	..	1·4	..	6·5	0	0	19	1	6	6	3	0	0	0	3	12	0
Ahmednagar	0830	657	1016·6	942·0	+0·1	17·0	12·4	8·1	10·8	57	+10	1·5	+0·2	3·1	0	0	20	0	1	1	3	2	1	2	10	11	0
	1730	"	1009·7	938·4	..	28·8	17·2	8·6	11·2	29	..	2·6	..	3·5	0	0	16	1	0	2	2	4	3	3	1	15	0
Parbhani	0830	423	1017·3	968·6	..	17·7	13·9	10·2	12·4	63	..	2·6	..	6·6	0	1	27	3	9	8	5	0	1	1	1	3	0
	1730	"	1011·2	964·4	..	28·8	17·9	9·4	11·8	31	..	2·1	..	7·4	0	0	30	3	8	9	1	1	3	1	4	1	0
Nanded*	0830	358																									
	1730	"																									
Poona	0530	559	1014·5	950·2	..	14·6	12·5	10·8	13·0	79	..	0·6	..	0·3	0	0	2	0	1	0	0	0	1	0	0	29	0
	0830	"	1016·4	952·3	−0·1	16·2	13·3	11·1	13·2	72	+6	0·9	−0·5	0·4	0	0	1	1	0	0	0	0	0	0	0	30	0
	1130	"	1013·8	951·9	..	25·9	17·2	10·9	13·3	40	..	0·6	..	2·9	0	0	13	2	3	5	1	1	1	0	0	18	0
	1730	"	1009·4	948·3	..	28·5	18·1	10·8	13·2	34	..	2·7	..	1·9	0	0	12	1	1	2	1	0	1	0	6	19	0
	2330	"	1014·2	950·9	..	19·0	14·9	11·9	13·9	64	..	0·9	..	0·5	0	0	2	0	1	0	0	0	0	1	0	29	0
Poona (Lohagaon Aerodrome).	0230	593	1013·9	946·4	..	17·1	13·0	9·3	11·7	61	..	0·3	..	3·3	0	1	13	1	0	1	2	0	0	8	2	17	0
	0530	"	1014·3	946·4	..	15·5	12·2	9·3	11·7	67	..	0·4	..	3·0	0	0	13	0	0	2	1	0	0	7	3	18	0
	0830	"	1016·0	948·4	..	17·4	13·1	9·3	11·7	60	..	1·2	..	3·0	0	1	15	0	0	5	1	0	0	5	5	15	0
	1130	"	1014·0	948·3	..	25·8	16·7	9·7	12·0	37	..	0·7	..	9·1	0	2	26	1	1	7	11	2	0	4	2	3	0
	1730	"	1009·4	944·7	..	28·6	17·1	7·9	10·6	28	..	1·7	..	11·7	0	6	21	0	0	2	5	1	3	10	6	4	0
	2330	"	1014·1	947·1	..	19·5	14·2	9·8	12·1	55	..	0·6	..	6·1	0	0	27	1	0	3	0	0	0	12	11	4	0
Baramati	0330	551	1016·3	953·4	..	17·0	13·2	10·1	12·3	64	.	1·1	.	5·8	0	0	27	5	1	4	2	1	1	2	11	4	0
	1730	"	1009·2	949·3	..	29·4	19·3	12·4	14·4	37	..	1·9	..	7·7	0	0	28	0	2	10	4	1	3	6	2	3	0
Jeur	0830	521	1015·6	956·3	..	19·0	..	..	..	..	..	1·2	..	4·7	0	0	22	3	2	7	4	2	3	0	1	9	0
	1730	"	1009·4	952·5	..	29·3	..	..	..	..	..	2·1	..	5·5	0	0	29	1	1	4	5	6	9	1	2	2	0
Sholapur	0530	479	1013·8	959·2	..	18·4	13·9	10·2	12·4	60	..	1·2	..	6·7	0	0	20	0	3	4	9	3	0	1	0	11	0
	0830	"	1015·8	961·6	+0·2	21·4	15·7	11·5	13·6	54	+6	1·3	0	10·2	0	0	31	0	5	0	22	0	2	0	2	0	0
	1130	"	1014·4	961·3	..	26·8	18·8	13·5	15·5	44	..	1·1	..	12·1	0	3	26	1	2	1	17	2	5	1	0	2	0
	1730	"	1009·7	957·1	..	29·9	19·2	12·2	14·2	34	..	2·2	..	5·0	0	0	21	1	4	1	8	1	2	0	4	10	0
	2330	"	1013·2	959·4	..	22·4	15·4	9·9	12·2	48	..	1·0	..	7·4	0	1	22	2	4	1	13	1	1	0	1	8	0
Miraj	0830	554	1015·0	952·5	−0·7	18·9	14·9	11·9	13·9	64	+5	1·5	−0·2	..	0	0	9	0	0	7	0	0	0	1	1	22	0
	1730	"	1008·5	948·4	..	29·8	19·6	13·3	15·3	37	..	2·9	..	..	0	0	19	0	1	8	1	0	1	6	2	12	0
Kolhapur	0530	570	1013·5	948·6	..	16·6	13·4	10·7	12·9	69	..	0·7	..	5·0	0	0	25	1	3	10	1	0	4	6	0	6	0
	0830	"	1015·4	950·8	−0·2	19·3	14·6	10·8	12·9	60	−2	1·2	0	4·7	0	0	20	2	7	7	1	1	1	1	0	11	0
	1130	"	1013·1	950·7	..	27·3	17·7	10·9	13·0	37	..	1·1	..	10·6	0	5	25	1	4	13	8	3	0	0	1	1	0
	1730	"	1008·9	946·9	..	29·2	17·7	9·2	11·6	29	..	2·2	..	10·1	0	2	27	0	6	9	1	0	0	9	4	2	0
	2330	"	1013·1	949·2	..	20·7	15·6	11·8	13·8	58	..	1·0	..	6·1	0	0	26	1	1	4	1	1	5	12	1	5	0
Vidarbha																											
Buldhana	0830	650	1016·3	942·5	..	17·3	14·6	11·1	14·5	72	..	2·3	..	3·6	0	0	22	0	7	0	14	0	1	0	0	9	0
	1730	"	1011·4	939·6	..	24·4	17·8	13·1	15·5	52	..	2·8	..	2·9	0	0	24	0	18	0	6	0	0	0	0	7	0
Akola	0830	282	1017·1	984·2	+0·4	16·3	14·1	12·0	14·3	77	+23	3·0	+1·3	2·6	0	0	19	0	2	12	3	1	0	0	1	12	0
	1130	"	1016·2	984·1	..	23·4	16·8	11·0	13·7	49	..	2·4	..	4·0	0	0	27	1	11	7	7	0	0	1	0	4	0
	1730	"	1011·7	980·1	..	27·0	18·0	10·6	13·4	39	..	2·4	..	3·6	0	0	30	10	6	5	1	0	0	6	2	1	0
Akola (Aerodrome)	0530	309	1014·6	978·5	..	14·9	13·4	11·8	14·1	83	..	1·7	..	3·5	0	0	25	0	1	21	3	0	0	0	0	6	0
	2330	"	1014·6	978·9	..	18·9	15·9	13·1	15·8	72	..	2·0	..	4·9	0	0	26	0	4	16	4	2	0	0	0	5	0
Amravati	0830	370	1017·5	974·9	+0·9	18·3	14·8	11·4	13·9	67	+18	2·3	+1·6	12·3	0	1	30	1	14	9	6	0	0	0	1	0	0
	1730	"	1012.4	970·9	..	25.3	18·0	12·1	14.4	47	..	2·9	..	9.7	0	0	31	4	11	3	7	0	0	3	3	0	0

* Data not available.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1960 (PAUSA 11,—MAGHA 11, 1881 SAKA)

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nea.est standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—(*Contd.*) Yeotmal	0830	451	1017·1	965·3	..	18·5	14·5	10·4	13·3	63	..	2·6	..	6·2	0	0	26	2	6	9	6	2	1	0	0	5	0
	1730	"	1012·3	961·9	..	25·5	17·6	11·1	13·6	43	..	2·0	..	3·9	0	0	24	7	8	5	2	1	0	0	1	7	0
Nagpur	0230	310	1015·3	979·0	..	15·2	13·8	12·4	14·7	84	..	2·3	..	3·9	0	0	24	9	8	2	1	1	0	0	3	7	0
	0530	"	1015·5	979·1	..	13·9	13·1	12·2	14·4	90	..	2·0	..	3·8	0	0	24	10	8	1	1	0	0	0	4	7	0
	0830	"	1017·9	981·7	+0·6	16·2	14·2	12·4	14·6	79	+16	2·2	+0·4	3·8	0	0	27	12	7	2	1	0	0	0	5	4	0
	1130	"	1016·7	981·3	..	23·1	17·1	12·1	14·6	53	..	2·6	..	7·2	0	0	28	3	5	14	3	2	1	0	0	3	0
	1730	"	1013·2	978·2	..	24·1	17·7	12·5	15·1	51	..	2·5	..	5·0	0	0	26	2	9	10	2	1	0	0	2	5	0
	2330	"	1016·1	979·9	..	16·4	14·5	12·8	15·4	80	..	2·2	..	4·8	0	1	24	9	9	3	0	0	0	1	3	6	0
Gondia	0830	313	1018·1	981·5	..	15·8	13·7	11·6	13·9	77	..	2·8	..	1·4	0	0	16	1	3	0	7	0	1	0	1	15	3
	1730	"	1014·7	978·6	..	24·1	17·0	10·9	13·6	47	..	2·6	..	2·2	0	0	23	4	3	0	0	1	2	0	9	8	4
Brahmapuri	0830	229	1017·4	990·5	..	16·6	14·4	12·5	15·0	78	..	2·1	..	2·9	0	0	22	5	6	2	3	1	2	1	2	9	0
	1730	"	1013·4	987·5	..	25·5	18·3	12·6	15·1	48	..	1·8	..	2·8	0	0	25	7	10	3	3	1	1	0	0	6	0
Chanda	0830	193	1017·2	994·6	+0·3	18·3	15·3	12·8	14·9	71	+8	1·9	+0·3	3·6	0	0	27	6	5	8	4	1	0	0	3	4	0
	1730	"	1012·5	990·7	..	26·5	18·7	13·0	15·2	46	..	1·2	..	5·4	0	0	27	7	13	3	2	1	0	0	1	4	0
Sironcha	0830	123	1017·3	1002·9	..	19·8	17·1	15·1	17·4	74	..	1·7	..	3·5	0	0	26	5	3	5	8	2	1	0	2	5	0
	1730	"	1012·5	998·5	..	28·7	20·1	14·5	16·5	42	..	1·5	..	3·9	0	0	28	4	8	5	5	2	1	1	2	3	0
Coastal Andhra Pradesh Nellore	0530	20	1013·6	1011·3	..	20·6	20·2	19·9	23·2	96	..	1·8	..	1·0	0	0	8	1	3	3	0	0	0	0	1	23	0
	0830	"	1016·0	1013·7	0	23·1	21·5	20·7	24·4	87	+3	3·0	−0·4	3·1	0	0	24	2	2	4	0	0	0	2	14	7	0
	1130	"	1015·4	1013·1	.	28·0	22·4	19·4	22·5	60	..	5·0	..	9·5	0	0	31	1	20	9	1	0	0	0	0	0	0
	1730	"	1012·8	1010·5	..	26·4	22·0	19·6	22·8	66	..	4·0	..	5·6	0	0	31	0	20	11	0	0	0	0	0	0	0
	2330	"	1014·8	1012·5	..	22·2	21·1	20·5	24·1	91	..	1·4	..	2·2	0	0	16	1	9	5	0	0	0	0	1	15	0
Ongole	0830	12	1015·8	1014·4	.	23·0	21·5	20·7	24·4	87	..	3·8	..	3·4	0	0	31	6	10	2	0	0	0	1	12	0	0
	1730	"	1012·2	1010·9	.	26·2	23·2	21·6	25·8	75	..	3·8	..	4·8	0	0	31	0	7	5	18	1	0	0	0	0	0
Rentachintala	0830	106	1016·6	1004·9	..	23·7	20·6	19·1	22·1	75	+6	3·8	+0·2	2·5	0	0	23	2	1	8	8	4	0	0	0	8	0
	1730	"	1011·7	999·8	..	29·9	20·1	14·1	16·0	38	..	2·6	..	3·7	0	0	30	5	0	19	4	2	0	0	0	1	0
Gannavaram	0230	24	1014·2	1011·4	..	21·3	20·2	19·5	22·3	89	..	1·5	..	4·9	0	0	21	1	5	12	3	0	0	0	0	10	0
	0530	"	1014·5	1011·7	..	20·7	19·7	19·1	22·2	91	..	2·2	..	5·7	0	0	24	3	8	13	0	0	0	0	0	7	0
	0830	"	1016·7	1013·9	..	23·3	20·4	18·8	21·7	76	..	2·5	.	11·5	0	3	28	3	9	17	2	0	0	0	0	0	0
	1130	"	1016·0	1013·2	..	27·5	21·8	18·6	21·4	59	..	4·1	..	15·7	0	7	23	0	2	19	9	0	0	0	0	1	0
	1730	"	1012·9	1010·1	..	27·8	21·3	17·6	20·1	54	..	2·3	..	12·1	0	1	29	0	1	7	21	1	0	0	0	1	0
	2330	"	1015·3	1012·5	..	22·2	20·7	19·8	23·1	87	..	2·0	..	6·8	0	0	24	1	5	14	4	0	0	0	0	7	0
Masulipatam	0830	3	1016·3	1015·9	−0·1	22·3	20·8	19·8	23·1	84	+1	2·6	+0·7	5·3	0	0	30	7	19	0	3	0	0	0	1	1	0
	1730	"	1013·1	1012·7	..	25·3	22·5	21·0	24·9	77	..	1·6	..	8·8	0	0	31	1	3	0	15	12	0	0	0	0	0
Nidadavolu	0830	12	1016·6	1015·1	..	22·8	19·9	17·9	20·5	76	..	3·3	..	8·1	0	0	31	11	18	2	0	0	0	0	0	0	0
	1730	"	1012·7	1011·3	..	27·1	21·2	17·5	20·0	57	..	3·8	..	9·4	0	0	29	0	0	18	9	1	0	1	0	2	0
Kakinada	0830	8	1016·9	1016·0	+0·5	25·2	21·5	19·4	22·5	70	−5	1·3	−1·4	11·2	0	0	31	0	31	0	0	0	0	0	0	0	0
	1730	"	1013·3	1012·4	..	25·6	21·7	19·6	22·8	70	..	1·3	..	11·8	0	0	31	0	20	0	11	0	0	0	0	0	0
Visakhapatnam	0230	3	1014·7	1014·3	..	20·8	19·3	18·4	21·1	86	..	2·1	..	1·9	0	0	11	4	1	2	0	0	0	0	4	20	0
	0530	"	1014·8	1014·4	..	19·8	18·6	17·7	20·5	87	..	2·5	..	1·3	0	0	6	1	0	1	0	0	1	0	2	25	1
	0830	"	1017·0	1016·6	+0·5	23·7	20·1	17·8	20·4	70	−5	2·1	−0·5	4·7	0	0	23	2	3	7	2	0	1	1	3	8	2
	1130	"	1016·0	1015·6	..	27·3	20·6	16·0	18·2	50	..	2·6	..	9·0	0	1	29	1	4	18	6	0	0	0	1	1	0
	1730	"	1013·7	1013·3	..	24·8	20·4	17·7	20·2	66	..	2·6	..	12·5	0	5	26	0	0	27	3	1	0	0	0	0	0
	2330	"	1015·7	1015·3	..	21·9	20·1	19·0	22·0	84	..	2·8	..	2·0	0	0	9	3	4	2	0	0	0	0	0	22	0
Calingapatam	0830	6	1017·0	1016·3	+0·2	20·1	18·4	17·6	20·1	89	+9	·4	−0·5	3·7	0	0	31	7	14	3	0	0	0	0	7	0	0
	1730	"	1014·3	1013·5	..	24·7	22·5	21·2	25·2	81	..	1·4	..	12·7	0	1	30	3	11	13	2	2	0	0	0	0	0
Telangana Ramagundam	0830	156	1016·5	998·6	..	20·5	17·5	15·2	17·3	72	..	3·0	..	3·9	0	0	22	8	3	0	7	3	0	0	1	9	0
	1730	"	1011·6	994·1	..	29·2	20·0	13·7	15·7	39	..	2·9	..	5·5	0	0	30	10	6	4	6	1	1	2	0	1	0
Nizamabad	0830	381	1016·1	972·9	+0·5	22·5	17·8	14·3	16·3	60	−3	1·3	−0·1	1·6	0	0	16	0	1	10	3	1	0	1	0	15	0
	1730	"	1011·4	969·1	..	28·0	19·3	13·3	15·3	41	..	2·2	..	0·5	0	0	6	0	3	1	2	0	0	0	0	23	0
Mahbubnagar	0830	505	1015·7	958·5	..	20·8	17·6	15·6	17·7	73	..	1·6	..	7·6	0	0	29	0	4	19	6	0	0	0	0	2	0
	1730	"	1010·6	955·0	..	27·7	17·8	10·8	12·9	39	..	2·2	..	5·9	0	0	29	1	1	18	7	0	2	0	0	2	0
Hyderabad (Begumpet Aerodrome)	0230	545	1013·9	952·3	..	19·0	16·1	14·1	16·1	74	..	1·1	..	6·7	0	0	27	0	12	14	1	0	0	0	0	4	0
	0530	"	1014·5	952·5	..	17·6	15·9	14·8	16·8	84	..	1·8	..	5·9	0	1	26	2	3	8	14	0	0	0	0	4	0
	0830	"	1016·4	954·8	+0·5	19·7	17·4	15·9	18·1	80	+10	4·1	+1·9	8·2	0	0	27	0	2	3	21	1	0	0	0	4	0
	1130	"	1014·9	954·3	..	24·7	18·6	14·8	16·8	55	..	2·8	..	13·2	0	3	28	0	1	3	20	6	1	0	0	0	0
	1730	"	1011·3	951·4	..	26·7	17·6	11·4	13·5	39	..	2·5	..	10·9	0	0	31	1	1	11	17	0	0	0	1	0	0
	2330	"	1014·3	953·2	..	20·4	16·3	13·4	15·4	65	..	6·1	..	6·4	0	0	24	0	3	8	13	0	0	0	0	7	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—(*Contd.*)																											
Hakimpet	0530	613	1014·1	944·9	..	17·4	16·2	15·3	17·4	88	..	2·6	..	8·4	0	1	29	0	3	14	13	0	0	0	0	1	0
	0830	,,	1015·9	946·7	..	19·0	17·2	16·1	18·3	84	..	4·3	..	12·1	0	2	29	1	4	5	20	1	0	0	0	0	0
	1130	,,	1014·6	946·3	..	24·1	18.6	15·3	17·4	58	..	2·6	..	14·1	0	5	26	0	2	5	19	3	2	0	0	0	0
	1730	,,	1011·4	944·0	..	25·9	18·3	13·5	15·5	47	..	3·0	..	8·2	0	0	31	1	4	12	12	1	0	0	1	0	0
Hanamkonda	0830	269	1016·5	985·4	−0·4	21·4	18·7	16·8	19·1	76	+3	1·8	−0·8	4·7	0	0	29	3	0	1	5	18	0	1	1	2	0
	1730	,,	1012·1	982·1	..	28.2	19·3	13·0	15·0	40	..	0·9	..	3·7	0	0	30	4	9	3	10	3	1	0	0	1	0
Bhadrachallam	0830	111	1017·2	1004·4	..	21·9	19·1	17·0	19·4	76	..	3·6	..	3·3	0	0	24	0	5	10	9	0	0	0	0	7	0
	1730	,,	1012·1	999·6	..	27 7	20·5	15·1	17 1	45	..	1·8	..	3·3	0	0	30	0	15	5	10	0	0	0	0	1	0
Khammameth	0830	112	1016·5	1003·6	..	22·2	19·9	18 6	21·4	80	..	2·9	..	2·6	0	0	17	2	0	10	5	0	0	0	0	14	0
	1730	,,	1011·8	999·2	..	29·5	20·7	15·0	17·0	43	..	2·6	..	2·6	0	0	19	1	2	12	2	1	0	1	0	12	0
Rayalaseema																											
Arogyavaram	0830	701	1015 8	937 3	..	19·4	17·5	16 2	18·4	83	..	2·5	..	0·9	0	0	8	0	0	0	7	1	0	0	0	23	0
	1730	,,	1010·5	933·8	..	25·5	20·2	17·3	19·7	60	..	2·8	..	3 8	0	0	26	1	15	7	3	0	0	0	0	5	0
Cuddapah	0830	130	1016·1	1001·2	+0·4	25·0	20·9	18 5	21·3	67	−7	1·8	−0·4	3·8	0	0	17	0	0	17	0	0	0	0	0	14	0
	1730	,,	1011·6	996·9	..	28 6	21·3	17·0	19·4	50	..	1·5	..	8·9	0	0	30	0	0	30	0	0	0	0	0	1	0
Anantapur	0530	350	1013·3	973·2	..	19·1	16·9	15·3	17·4	79	..	1·2	..	3·6	0	0	17	0	0	13	4	0	0	0	0	14	0
	0830	,,	1015·4	975·6	..	21·6	18·0	15·5	17·6	68	..	2·0	..	4·5	0	0	13	0	0	10	3	0	0	0	0	18	0
	1130	,,	1013·8	974·8	..	27·1	19·0	13·4	15·4	44	..	1·7	..	12·7	0	0	29	0	4	16	9	0	0	0	0	2	0
	1730	,,	1010·0	971·5	..	29·5	18·6	10·2	12·4	31	..	1·8	..	11·9	0	4	26	0	8	19	3	0	0	0	0	1	0
	2330	,,	1013·0	973·5	..	23·5	18·2	14·6	16·6	58	..	0·7	..	15 3	0	7	24	0	0	23	8	0	0	0	0	0	0
Kurnool	0830	281	1016·3	983·9	+0·4	20·7	17·9	16·1	18·3	75	+6	1·9	+0·2	6·1	0	1	27	1	0	18	6	1	1	0	1	3	0
	1730	,,	1010·4	979·3	..	30·5	20·0	12·7	14·7	34	..	2·6	..	7·9	0	1	30	0	0	25	4	1	0	0	1	0	0
Madras State																											
Palayamcottai	0830	51	1014·5	1008·7	..	24·7	21·5	19·8	23·1	75	..	4·0	..	8·0	0	0	30	28	1	0	0	0	0	0	1	1	0
	1730	,,	1010·1	1004·4	..	29·3	23·0	19·6	22·6	56	..	4·3	..	9·0	0	0	31	4	7	20	0	0	0	0	0	0	0
Tuticorin	0830	4	1014·8	1014·4	..	25·3	22·3	20·8	24·6	76	..	4·3	..	15·1		2	29	20	11	0	0	0	0	0	0	0	0
	1730	,,	1010·5	1010·1	..	27·2	24·2	22·8	27·7	77	..	3·1	..	26·5	0	26	5	0	12	19	0	0	0	0	0	0	0
Pamban	0830	11	1013·9	1012·6	−0·1	25·4	23·5	22·5	27·3	84	+1	4·7	+1·4	12·2	0	2	29	16	10	1	0	0	0	0	4	0	0
	1730	,,	1011·0	1009·7	..	26·5	23·7	22·3	26·9	78	..	3·5	..	14·2	0	3	28	12	17	0	0	0	0	0	2	0	0
Tondi	0830	5	1014·2	1013·6	..	24·1	21·7	20·3	23·8	80	..	3·5	..	9·4	0	0	22	18	0	0	0	0	0	0	4	9	0
	1730	,,	1010·9	1010·3	..	27·1	23·7	22·0	26·4	74	..	4·5	..	24·7	0	24	7	1	18	12	0	0	0	0	0	0	0
Mathurai	0830	131	1014·5	999·2	−0·3	24·2	20·8	18·8	21·7	72	−7	5·0	+1·4	4·2	0	0	31	0	25	0	0	0	0	0	6	0	0
	1730	,,	1009·9	995·1	..	29·7	2·0	17·5	20·0	49	..	6·3	..	7·8	0	0	31	0	31	0	0	0	0	0	0	0	0
Mathurai (Aerodrome)	0530	133	1012·6	997·4	..	21·1	20·1	19·6	22·8	91	..	2·7	..	6·7	0	0	28	23	4	1	0	0	0	0	0	3	0
	0830	,,	1014·5	999·5	..	24·3	21·2	19·4	22·5	75	..	2·6	..	8·5	0	0	30	20	10	0	0	0	0	0	0	1	0
	1130	,,	1013·6	998.7	..	28·5	21·9	18·2	20·9	54	..	3·1	..	12·5	0	1	30	8	21	2	0	0	0	0	0	0	0
	1730	,,	1010·1	995·4	..	29·5	22·0	17 7	20·2	50	..	3·7	..	13 6	0	1	30	0	13	18	0	0	0	0	0	0	0
Nagapattinam	0830	9	1014·6	1013·5	+0·1	24·1	22·2	21·3	25·3	85	+6	4·7	+0·4	12·7	0	2	29	8	6	2	0	0	0	3	12	0	0
	1730	,,	1011·3	1010·2	..	26·1	23·2	21·8	26·1	78	..	5·1	..	20·7	0	9	22	9	21	1	0	0	0	0	0	0	0
Tiruchirapalli	0230	88	1012·5	1002·4	..	22·2	20·7	19·8	23·1	86	..	2·3	..	12·3	0	3	28	4	20	7	0	0	0	0	0	0	0
	0530	,,	1012·6	1002·5	..	21·7	20·3	19·5	22·6	87	..	2·0	..	11·2	0	0	29	5	21	3	0	0	0	0	0	2	0
	0830	,,	1014·9	1004.8	−0·3	23·8	21·0	19·4	22·5	76	−4	2·7	−0·2	14·7	0	4	27	8	19	2	0	0	0	0	2	0	0
	1130	,,	1013·9	1003·9	..	27·9	21·6	17·9	20·5	55	..	3·7	..	17·8	0	11	20	9	19	3	0	0	0	0	0	0	0
	1730	,,	1010·9	1001·0	..	28·3	21·6	17·1	20·1	53	..	3·6	..	18·3	0	9	22	1	15	15	0	0	0	0	0	0	0
	2330	,,	1013·9	1003·7	..	22·8	21·0	20·0	23·4	85	..	1·8	..	11·8	0	1	30	2	20	8	1	0	0	0	0	0	0
Coimbatore	0830	409	1015·0	968·8	+0·1	22·4	19·3	17.3	19·7	73	−7	4·2	+0·8	14·2	0	0	31	1	9	14	7	0	0	0	0	0	0
	1730	,,	1009·5	964·6	..	29·3	20·3	14·3	16·3	41	..	3·2	..	10·5	0	0	31	0	9	16	6	0	0	0	0	0	0
Coimbatore (Peelamedu Aerodrome)	0530	400	1013·3	967·8	..	19·5	17·9	16·8	19·1	85	..	3·8	..	4·4	0	0	20	3	9	2	1	0	0	1	4	11	0
	0830	,,	1015·1	969·9	..	22·4	19·3	17·4	19·9	74	..	2·9	..	8·3	0	0	28	1	14	12	1	0	0	0	0	3	0
	1130	,,	1013·6	969·1	..	26·6	19·8	15·3	17·4	51	..	3·4	..	15·0	0	5	26	0	19	12	0	0	0	0	0	0	0
	1730	,,	1009·5	965·6	..	29·1	19·5	12·5	14·5	37	..	3·0	..	13·5	0	1	30	0	10	21	0	0	0	0	0	0	0
	2330	,,	1013·3	968·3	..	23·2	18·8	15·8	17·9	64	..	2·1	..	8·9	0	1	24	0	4	18	1	0	0	1	1	6	0
Salem	0530	278	1013·1	981·2	..	20·3	18·3	17·0	19·4	82	..	3·1	..	1·5	0	0	13	0	10	3	0	0	0	0	0	18	0
	0830	,,	1014·9	983·3	−0·2	23·0	19·5	17·3	19·7	71	−5	2·5	0	5·8	0	0	28	0	15	12	0	0	0	1	0	3	0
	1130	,,	1013·5	982·4	..	28·6	21·6	17·4	19·9	52	..	3·8	..	5·4	0	0	24	1	7	12	4	0	0	0	0	7	0
	1730	,,	1009·8	979·0	..	29·5	21·7	17·1	19·5	48	..	4.2	..	6 7	0	0	31	0	5	20	6	0	0	0	0	0	0
	2330	,,	1013·4	981·9	..	23·7	20·2	18·1	20·8	72	..	2·5	..	17·0	0	17	14	0	6	23	2	0	0	0	0	0	0
Kallakurichi	0830	127	1015·1	1000·6	..	23·4	21·9	21·2	25·2	82	..	3·0	..	8·9	0	0	31	16	1	0	0	0	0	0	14	0	0
	1730	,,	1011·0	996·9	..	28·3	24·7	23·1	28·5	74	..	3·4	..	13·8	0	0	31	1	24	6	0	0	0	0	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(*Contd.*)																											
Cuddalore	0530	12	1012·3	1010·9	..	21·5	20·9	20·5	24·1	94	..	3·1	..	1·2	0	0	6	3	3	0	0	0	0	0	0	25	0
	0830	"	1014·8	1013·4	−0·3	23·1	21·7	20·9	24·7	88	+4	4·3	+0·8	4·9	0	0	28	12	12	0	0	0	0	0	4	3	0
	1130	"	1014·4	1013·0	..	27·0	22·8	20·7	24·4	69	..	4·5	..	7·3	0	0	30	6	24	0	0	0	0	0	0	1	0
	1730	"	1011·7	1010·3	..	25·9	22·6	20·8	24·6	74	..	4·6	..	7·2	0	0	30	9	19	2	0	0	0	0	0	1	0
	2330	"	1013·9	1012·5	..	24·2	22·0	20·9	24·7	82	..	3·1	..	3·6	0	0	18	4	14	0	0	0	0	0	0	13	0
Tirupattur	0830	390	1015·8	971·2	..	19·2	17·8	16·9	19·3	87	..	5·3	..	1·1	0	0	11	6	0	0	0	4	0	1	0	20	0
	1730	"	1010·6	967·4	..	27·5	20·2	15·6	17·7	49	..	5·0	..	6·3	0	0	30	22	1	1	0	6	0	0	0	1	0
Vellore	0530	214	1013·9	989·1	..	19·0	18·3	17·9	20·5	93	..	2·7	..	1·1	0	0	9	0	9	0	0	0	0	0	0	22	0
	0830	"	1015·8	991·2	+0·2	21·2	19·3	18·1	20·8	83	−3	3·7	+0·9	0·4	0	0	4	0	3	0	0	0	0	0	1	27	0
	1130	"	1014·7	990·5	.	26·8	20·8	17·1	19·5	56	..	4·3	..	10·7	0	0	30	5	22	2	0	0	0	0	1	1	0
	1730	"	1011·0	987·0	..	27·8	20·3	15·6	17·7	48	..	3·6	..	9·2	0	0	31	1	24	6	0	0	0	0	0	0	0
	2330	"	1014·5	990·1	..	23·7	20·0	17·7	20·2	70	..	1·8	..	9·8	0	0	31	0	27	4	0	0	0	0	0	0	0
Tambaram (Aerodrome)	0830	29	1014·8	1011·6		23·6	22·3	21·6	25·8	89	..	3·8	..	9·4	0	0	31	17	4	0	0	0	0	1	9	0	0
	1730	"	1012·1	1008·7	..	25·8	22·0	20·0	23·4	70	..	3·9	..	19·2	0	9	22	2	19	9	1	0	0	0	0	0	0
Madras	0230	16	1013·2	1011·4	..	21·8	20·7	20·1	23·5	90	..	3·0	..	4·8	0	0	30	8	5	1	0	0	0	5	11	1	0
	0530	"	1013·3	1011·5	.	21·2	20·4	19·9	23·2	92	..	3·1	..	5·5	0	0	30	7	4	1	0	0	0	5	13	1	0
	0830	"	1015·6	1013·8	+0·2	23·2	21·6	20·8	24·6	86	+2	4·3	+1·2	8·5	0	0	31	15	3	0	0	0	0	3	10	0	0
	1130	"	1015·0	1013·2	..	27·2	22·0	19·2	22·2	62	..	4·8	..	18·4	0	14	17	6	17	6	0	0	0	0	0	0	2
	1730	"	1012·7	1010·9	..	25·9	21·6	19·2	22·2	67	..	4·1	.	17·2	0	3	28	6	19	6	0	0	0	0	0	0	0
	2330	"	1014·6	1012·8	..	23·1	21·2	20·2	23·7	84	..	3·0	..	7·6	0	0	30	11	12	3	0	0	0	0	4	1	0
Madras (Nungambakkam)	0830	6	1015·1	1014·4	..	23·8	21·9	19·5	22·7	84	..	3·4	..	4·5	0	0	29	13	4	1	0	0	0	0	11	2	0
Coastal Mysore																											
Karwar	0830	4	1014·1	1013·7	+0·3	23·2	20·1	18·1	20·8	74	..	8·0	..	4·5	0	0	28	0	1	24	2	1	0	0	0	3	0
	1730	"	1010·5	1010·0	..	29·0	23·2	20·2	23·7	60	..	8·0	..	7·4	0	1	23	2	0	0	0	0	0	4	18	7	0
Honavar	0830	26	1013·7	1010·7	−0·5	22·5	19·2	17·0	19·4	72	+3	2·6	0	4·4	0	0	31	0	6	24	0	0	0	1	0	0	0
	1730	"	1010·4	1007·4	..	29·4	23·4	20·3	23·8	58	..	2·4	..	8·5	0	0	31	1	0	0	0	1	6	15	8	0	0
Mangalore	0830	22	1013·5	1011·1	−0·2	25·5	21·6	19·3	22·4	69	+1	3·3	+1·3	7·1	0	0	31	2	2	21	3	0	0	0	0	0	3
	1730	"	1009·8	1007·3	..	28·8	23·6	20·9	24·7	63	..	2·6	..	7·5	0	0	31	7	0	0	0	1	5	8	10	0	0
Mangalore (Bajpe Aerodrome)	0230	102	1011·4	999·7	..	23·6	21·4	20·2	23·7	82	..	2·2	..	3·5	0	0	21	1	5	11	4	0	0	0	0	10	0
	0530	"	1011·4	999·7	..	22·4	20·7	19·8	23·1	86	..	2·4	..	5·6	0	0	29	0	5	20	4	0	0	0	0	2	0
	0830	"	1013·4	1001·8	..	24·2	21·3	19·6	22·8	76	..	2·6	..	7·4	0	0	31	0	1	23	7	0	0	0	0	0	0
	1130	"	1012·9	1001·5	..	29·8	21·7	16·8	19·1	47	..	2·5	..	10·6	0	0	30	1	0	15	11	1	0	0	2	1	0
	1730	"	1009·6	998·2	..	28·8	22·7	19·4	22·5	57	..	2·3	..	11·9	0	0	31	0	0	0	0	0	2	19	10	0	0
	2330	"	1012·2	1000·7	..	24·6	22·1	20·7	24·4	79	..	1·5	..	4·5	0	0	20	8	6	2	3	0	0	0	1	11	0
Interior Mysore (North)																											
Bidar	0830	664	1016·0	941·2	..	19·0	16·0	14·0	16·0	73	+14	1·8	−0·3	10·3	0	1	30	2	2	8	11	3	4	1	0	0	0
	1730	"	1010·3	937·8	..	26·6	17·2	10·5	12·7	37	..	3·2	..	10·7	0	1	30	0	9	6	5	5	3	1	2	0	0
Gulbarga	0830	456	1015·9	964·1	+0·3	22·1	17·0	13·5	15·5	59	+3	2·0	+0·7	15·2	0	7	24	1	1	12	12	5	0	0	0	0	0
	1730	"	1010·1	959·9	..	29·3	17·8	9·4	11·8	30	..	3·2	..	18·2	0	13	16	2	2	9	7	7	0	0	2	2	0
Bijapur	0830	594	1015·6	948·5	0	19·5	15·3	11·9	13·9	63	+3	2·1	+0·6	6·2	0	0	25	2	0	1	7	10	0	2	3	6	0
	1730	"	1009·0	944·4	..	28·9	18·5	11·3	13·4	34	..	3·3	..	2·5	0	0	14	3	1	6	1	2	0	1	0	17	0
Belgaum	0830	755	1014·7	931·1	0	19·8	16·0	13·3	15·3	67	..	0·6	−0·9	3·7	0	0	25	2	5	7	9	0	0	0	2	6	0
	1730	"	1008·5	927·4	..	28·4	17·5	9·4	11·8	32	..	2·0	..	9·0	0	0	31	0	2	9	5	1	2	8	4	0	0
Belgaum (Sambra Aerodrome)	0530	747	1013·6	929·7	..	17·6	14·2	11·7	13·7	70	..	0·9	..	2·7	0	1	6	0	0	6	0	0	0	1	0	24	0
	0830	"	1015·3	931·7	..	19·0	15·0	12·2	14·2	66	..	1·2	..	4·0	0	1	10	0	2	9	0	0	0	0	0	20	0
	1130	"	1013·4	931·6	..	25·3	17·5	12·5	14·5	46	..	1·2	..	17·3	0	13	16	1	2	17	7	1	0	0	1	2	0
	1730	"	1009·0	928·3	..	27·8	18·1	12·2	14·7	39	..	2·0	..	8·7	0	3	20	0	0	12	2	3	1	3	2	8	0
Gadag	0530	650	1013·1	940·1	..	18·8	15·4	12·8	14·8	69	..	0·8	..	8·1	0	0	25	0	1	16	6	1	0	1	0	6	0
	0830	"	1014·9	942·2	−0·2	20·9	16·8	13·8	15·8	65	+3	1·6	+0·2	10·0	0	1	24	0	0	14	10	0	0	1	0	6	0
	1130	"	1013·0	942·1	..	27·6	19·0	13·7	15·7	43	..	1·2	..	12·0	0	0	31	2	6	15	7	1	0	0	0	0	0
	1730	"	1009·0	938·7	..	29·0	18·9	12·0	14·0	38	.	2·8	..	9·0	0	0	31	0	12	13	1	1	0	2	2	0	0
	2330	"	1013·0	940·8	.	22·1	16·1	11·7	13·7	53	..	1·1	..	9·8	0	0	30	0	3	15	5	1	1	4	1	1	0
Raichur	0830	400	1014·9	969·6	−0·6	22·4	18·1	15·4	17·5	66	+2	0·2	−1·3	5·0	0	0	30	0	8	0	21	0	1	0	0	1	0
	1730	"	1009·7	965·6	..	29·2	19·4	11·4	13·5	33	..	0·3	..	3·9	0	0	26	0	9	0	15	0	1	0	1	5	0
Interior Mysore (South)																											
Bellary	0830	449	1015·4	964·6	+0·1	21·7	18·6	15·5	17·6	69	+5	4·2	+2·1	5·2	0	0	27	0	0	0	18	5	3	0	1	4	0
	1730	"	1009·6	960·2	..	29·2	19·7	12·7	14·7	37	..	4·3	..	6·2	0	0	31	0	3	4	23	1	0	0	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)—contd.																											
Chitaldrug	0830	733	1014·6	933·1	+0.1	20·8	16·9	14·5	16·5	68	+6	2·3	+0·1	6·4	0	0	24	0	0	16	6	0	2	0	0	7	0
	1730	"	1008·7	929·5	..	27·6	17·7	10·6	12·8	35	..	1·6	..	1·9	0	0	18	0	3	13	1	1	0	0	0	13	0
Shimoga	0830	571	1014·8	950·4	..	19·5	16·9	15·4	17·5	78	..	2·4	..	1·4	0	0	12	0	0	4	4	2	0	2	0	19	0
	1730	"	1008·1	946·1	..	29·4	18·9	11·9	13·9	35	..	1·6	..	3.5	0	0	25	1	4	13	4	0	0	1	2	6	0
Balehonnur	0830	..	..	..	..	17·6	15·3	14·2	16·2	84	+11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1532·3	909·0	..	18·4	15·7	13·9	15·9	75	+3	3·1	+0·6	2·3	0	0	13	0	0	9	4	0	0	0	0	18	0
	1730	"	1515·6	905·6	..	26·5	16·9	9·7	12·0	35	..	2·2	..	1·5	0	0	10	2	0	7	1	0	0	0	0	21	0
Mysore	0830	..	..	..	..	..	..	..	..	..	..	4·2	+1·5	7·4	0	0	27	0	8	11	2	3	2	0	1	4	0
	1730	..	..	..	..	..	..	..	..	..	..	3·8	..	6·7	0	0	27	0	5	16	3	0	3	0	0	4	0
Bangalore (Central Observatory).	0230	921	1511·4	911·2	..	17·1	15·6	14·5	16·5	85	..	2·3	..	11·8	0	0	31	0	0	25	6	0	0	0	0	0	0
	0830	"	1533·4	913·4	+0·4	18·5	15·6	13·8	15·8	74	−4	3·0	0	13·1	0	1	29	0	2	22	6	0	0	0	0	1	0
	1130	"	1541·5	912·9	..	24·3	16·6	10·8	12·9	44	..	1·9	..	13·4	0	4	27	0	5	15	8	2	0	1	0	0	0
	1730	"	1517·3	910·1	..	25·4	16·8	10·5	12·7	40	..	2·5	..	11·1	0	1	29	0	4	21	5	0	0	0	0	1	0
Bangalore (Aerodrome)	0530	897	1509·9	913·9	..	16·3	15·1	14·3	16·3	88	..	2·7	..	7·2	0	0	23	0	0	23	0	0	0	0	0	8	0
	0830	"	1535·1	916·0	..	19·2	16·1	13·9	14·9	72	..	3·7	..	11·4	0	0	29	0	2	25	2	0	0	0	0	2	0
	1130	"	1544·6	915·5	..	25·4	17·4	11·9	13·9	44	..	2·5	..	13·8	0	2	27	0	3	24	2	0	0	0	0	2	0
	1730	"	1519·2	912·8	..	26·6	17·6	11.4	13·5	39	..	2·7	..	13·5	0	3	26	0	3	26	0	0	0	0	0	2	0
	2330	"	1526·3	915·6	..	19·1	16·4	14·6	16·6	76	..	1·4	..	11·7	0	0	29	0	0	28	1	0	0	0	0	2	0
Kerala																											
Kozhikode	0530	5	1011·3	1010·8	..	23·4	21·9	21·2	25·2	87	..	1·3	..	7·9	0	0	31	0	8	22	0	1	0	0	0	0	0
	0830	"	1013·4	1012·9	0	24.8	22·1	20·6	24·3	78	0	2·6	+0·4	8·9	0	0	31	0	4	25	0	1	1	0	0	0	0
	1130	"	1013·0	1012·5	..	30·0	23·9	20·9	24·7	59	..	2·0	..	8·1	0	0	30	1	0	1	0	1	11	12	4	1	0
	1730	"	1009·7	1009·2	..	29·9	24·7	22·2	26·7	64	..	1·6	..	13·6	0	0	31	0	0	0	0	0	2	16	13	0	0
	2330	"	1012·2	1011·7	..	26·3	23·7	22.4	27·1	79	..	0·9	..	6·4	0	0	29	9	13	1	0	0	0	0	6	2	0
Palghat	0830	97	1014·0	1002·9	..	25·1	20·7	18·1	20·8	66	..	2·0	..	12·5	0	0	31	0	0	29	2	0	0	0	0	0	0
	1730	"	1009·2	998·3	..	32·1	21·6	15·1	17·1	37	..	2·9	..	8·2	0	0	28	1	3	17	7	0	0	0	0	0	3
Port Cochin	0830	3	1013·2	1012·9	0	27·5	23·6	21·6	25·8	71	+1	4·7	+2·8	5·2	0	0	31	1	14	13	2	0	0	1	0	0	0
	1730	"	1009·4	1009·1	..	28·6	25·2	23·5	28·9	74	..	4·6	..	8·5	0	0	31	0	0	0	0	0	4	21	6	0	0
Cochin (Naval Air Station).	0230	3	1011·3	1011·0	..	25·0	23·3	22·4	27.1	86	..	3·2	..	3·6	0	0	19	2	2	14	1	0	0	0	0	12	0
	0530	"	1011·3	1011·0	..	23·9	22·2	21·4	25·5	86	..	2·1	..	3·9	0	0	25	0	2	20	1	1	1	0	0	6	0
	0830	"	1013·3	1013·0	..	25·9	22·5	20·6	24·3	73	..	3·0	..	5·7	0	0	30	0	8	20	2	0	0	0	0	1	0
	1130	"	1012·9	1012·6	..	29·9	23·5	20·2	23·7	56	..	2·7	..	7·3	0	0	28	0	3	9	2	1	3	3	7	3	0
	1730	"	1009·5	1009·2	..	29·3	24·4	21·9	26·3	65	..	3·3	..	16·7	0	4	27	0	0	0	0	0	5	22	4	0	0
	2330	"	1012·6	1012·3	..	26·3	24·0	22·9	27·9	82	..	2·9	..	4·3	0	1	21	2	1	7	6	3	2	1	0	9	0
Alleppey	0830	4	1012·7	1012·3	..	26·9	23·5	21·7	25·9	73	..	3·4	..	5·4	0	0	30	1	2	10	16	1	0	0	0	1	0
	1730	"	1009·0	1008·6	..	29·9	25·3	23·2	28·4	67	..	3·4	..	20 4	0	14	17	0	0	0	0	0	0	13	18	0	0
Punalur	0830	34	1012·7	1008·9	..	24·7	21·2	19·2	22·2	73	..	4·3	..	1·9	0	0	9	1	1	4	3	0	0	0	0	22	0
	1730	"	1008·5	1004·8	..	32·1	22·9	17·7	20·2	44	..	5·0	..	6·7	0	0	31	0	2	5	7	3	12	0	2	0	0
Trivandrum	0230	64	1010·9	1003·6	..	24·2	22·7	21·8	26·1	87	..	2·4	..	2·4	0	0	18	5	6	4	1	0	1	0	1	13	0
	0530	"	1011·0	1003·6	..	23·6	22·0	21·2	25.1	87	..	2·4	..	3·4	0	0	26	5	14	1	1	1	0	0	4	5	0
	0830	"	1012·9	1005·5	0	25·3	22·6	21·2	25·2	78	+1	2·4	−0·2	3·0	0	0	24	4	12	4	1	0	0	0	3	7	0
	1130	"	1012·1	1004·9	..	20·1	23·7	20.3	23·8	56	..	3·6	..	4·5	0	0	26	2	1	1	3	2	7	5	5	5	0
	1730	"	1009·9	1002·6	..	28·6	23·9	21·6	25·8	66	..	4·3	..	6·3	0	0	31	0	0	0	1	4	16	6	4	0	0
	2330	"	1012·3	1005·1	..	25·3	23·4	22·5	27·3	85	..	3·4	..	3·1	0	0	18	5	5	3	2	0	1	0	2	13	0
Trivandrum (Aerodrome)	0830	8	1012·8	1011·9	..	26·4	22·9	21·1	25·0	74	..	3·5	..	14·8	0	0	29	10	12	4	0	1	0	0	0	2	2
Arabian Sea Islands																											
Minicoy*	0530	2																									
	0830	"																									
	1130	"																									
	1730	"																									
	2330	"																									
Amini Divi*	0830	4																									
Hill Stations excluding Kashmir																											
Walong (R)	0830																										
(R)	1730																										
Kohima	0830	1406	1579·5	867·8	..	12·3	8·8	4·0	8·9	63	..	1·6	..	2 0	0	0	31	2	3	8	8	4	4	2	0	0	0
	1730	"	1575·2	867·3	..	12·8	10·6	8·4	11·1	76	..	2·2	..	2 0	0	0	31	1	0	0	0	0	9	3	18	0	0

(R) Register not received. *Data given as addenda in "December, 1960 issue".

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Kms. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—(*Contd.*)																											
Aijal	0830	..	..	..	..	15·5	11·2	6·7	10·5	57	..	1·4	..	3·0	0	0	31	1	1	18	5	1	0	3	2	0	0
	1730	..	..	..	..	18·8	12·8	7·8	10·3	52	..	2·0	..	3·0	0	0	31	0	1	2	0	0	6	21	1	0	0
Shillong	0830	1500	1522·0	852·4	..	12·4	7·9	0·2	7·4	45	—25	1·0	—0·5	0·4	0	0	3	0	1	0	0	1	1	0	0	27	0
	1730	„	1493·6	849·6	..	11·1	8·8	6·6	9·8	73	..	5·0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Cherrapunji	0830	1313	1521·2	871·4	—0·1	13·4	9·1	4·3	8·4	56	—7	..	..	4·0	0	0	31	1	20	4	0	0	5	1	0	0	0
	1730	„	1500·4	869·4	..	12·3	9·7	6·9	10·1	69	..	..	..	3·5	0	0	31	0	19	1	0	1	10	0	0	0	0
Darjeeling (Raj Bhawan)	0830	2128	1566·5	794·2	+4·9	5·7	3·6	1·8	7·6	73	+9	3·2	—0·2	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	„	1529·5	791·6	..	6·8	4·7	2·7	7·9	74	..	5·0	..	1·1	0	0	12	1	0	2	0	0	7	2	0	19	0
Kalimpong	0830	1209	1455·5	875·3	—7·7	13·4	11·4	10·3	12·2	80	+5	1·3	—1·1	3·0	0	0	31	0	0	0	0	0	0	0	31	0	0
	1730	„	1445·9	874·4	..	13·4	11·9	10·9	13·1	84	..	2·1	..	3·0	0	0	31	0	0	0	31	0	0	0	0	0	0
Mukteswar (Kumaon)	0830	2311	3107·4	773·1	—0·1	3·8	0·1	—7·9	3·7	50	+1	2·4	—0·7	10·5	0	2	28	3	7	7	1	2	5	3	2	1	0
	1730	„	3104·9	772·1	..	5·2	2·4	—1·6	5·4	65	..	2·7	..	8·8	0	2	24	1	3	3	0	1	4	9	5	5	0
Nainital	0830	1953	1516·8	800·0	..	3·1	0·6	—3·5	4·4	63	..	2·7	..	4·2	0	1	19	0	0	2	3	0	0	8	7	11	0
	1730	„	1496·4	804·6	..	5·6	3·3	0	6·0	72	..	2·9	..	4·9	0	0	25	2	0	1	2	5	2	13	0	6	0
Joshimath	0830	..	..	..	..	3·4	0	—6·2	4·6	54	..	2·8	..	5·7	0	0	29	0	0	17	9	2	1	0	0	2	0
	1730	..	..	..	..	6·8	2·6	—3·6	4·7	50	..	3·2	..	5·7	0	0	31	1	0	4	3	10	8	4	1	0	0
Badrinath	0830	..					Closed	during	winter	months																	
Lokpal	0830	..	..	..	..	—9·9	11·4	—15·3	+1·6	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooree	0830	2042	1519·1	797·8	—0·1	4·3	1·7	—2·6	5·5	65	+9	3·0	—0·6	(a) 2·9	0	0	22	5	4	1	4	4	2	2	3	5	0
	1730	„	1506·7	796·8	..	5·9	2·9	2·0	3·1	79	..	4·5	..	(a) 3·3	0	0	27	1	0	1	6	9	6	3	1	3	0
Simla	0830	2202	1514·1	782·0	+0·3	4·3	—0·1	—8·2	2·6	47	+4	2·7	—1·1	3·2	0	0	28	4	1	2	9	4	6	0	2	3	0
	1730	„	1501·9	781·0	..	4·5	1·4	—3·4	4·3	61	..	3·4	..	3·0	0	0	30	3	7	5	2	7	2	0	4	1	0
Dalhousie (R)	0830	1959																									
(R)	1730	„																									
Dharamshala	0830	..	..	..	..	9·0	5·3	0.5	6·3	56	..	2·8	..	2·8	0	0	22	6	5	1	2	0	0	3	5	9	0
	1730	..	..	..	..	12·3	7·9	2·7	7·4	54	..	4·2	..	3·9	0	0	31	0	1	1	1	1	20	4	3	0	0
Abu	0830	1195	1525·0	884·6	+0·6	10·3	6·3	1·1	6·6	54	+10	0·5	—1·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	„	1520·2	883·4	..	15.9	9·9	3·4	8·3	44	..	0·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pachmarhi	0830	1075	1535·5	898·0	+0·3	13·0	10·8	9·1	11·3	77	+15	2·4	+0·5	2·5	0	0	20	4	3	0	0	5	5	2	1	11	0
	1730	„	1514·5	895·0	..	18·1	13·7	9·6	12·5	61	..	3·2	..	2·1	0	0	18	3	5	0	0	0	0	2	8	13	0
Mahabaleshwar	0830	1382	1534·1	865·6	+0·2	16.5	11·5	5·7	9.1	55	+3	1·2	+0·2	7·5	0	0	30	2	1	12	8	2	1	0	4	1	0
	1730	„	1519·2	863·9	..	21·3	14·2	8·1	10.8	45	..	1·6	..	7·5	0	0	31	3	0	3	1	1	2	5	16	0	0
Nandi Hills	0830	..	..	..	..	16·9	16·9	16·9	19·3	100	..	8·0	..	14·4	0	3	27	9	21	0	0	0	0	0	0	1	0
Mercara	0830	1152	1527·5	888·5	+0·7	16·8	14·9	13·3	15·3	79	+1	2·5	—0·9	1·8	0	0	31	1	15	15	0	0	0	0	0	0	0
	1730	„	1509·4	885·8	..	23·7	16·7	11·6	13·7	48	..	2·6	..	3·6	0	0	30	1	11	12	0	0	1	1	1	1	3
Kodaikanal	0830	2343	3160·8	772·7	+0·7	12·3	8·5	4·3	8·3	63	+8	1·8	—1·0	6·9	0	0	25	1	5	9	5	2	0	0	3	6	0
	1130	„	3171·8	772·7	..	15·9	11·2	7·2	10·1	58	..	2·8	...	9·0	0	2	27	3	9	6	7	2	0	0	2	2	0
	1730	„	3147·1	771·2	..	13·1	11·2	9·8	12·1	81	..	5·1	..	2·7	0	0	16	3	2	2	4	3	0	0	2	15	0
Ootacamund	0830	2249	1532·0	781·1	+0·5	10·4	7·5	4·4	8·4	67	+9	1·7	—0·5	0	0	0	0	0	0	0	0	0	1	0	0	31	0
	1730	„	1504·0	779·4	..	14·7	11·9	9·7	12·0	73	..	4·9	..	0·2	0	0	1	1	0	0	0	0	0	0	0	30	0
Coonoor	0830	1747	1525.8	828·6	..	16·4	14·2	12·8	14·8	80	+15	4·5	+1·2	2·6	0	0	24	0	1	2	11	8	0	0	2	7	0
Nepal																											
Katmandu	0830	1324	1530·1	872·0	..	3·5	2·9	2·0	7·2	90	..	1·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	„	1528·8	871·8	..	14·9	9·4	3·4	7·8	46	..	1·0	..	0·4	0	0	3	1	0	1	0	0	0	0	1	28	0
	1730	„	1506·2	868·8	..	12·1	8·2	4·0	8·1	58	..	1·2	..	0·7	0	0	3	1	0	0	0	1	0	0	1	28	0
Sikkim																											
Lachen	0830	..	..	..	..	4·9	0·6	—4·9	6·3	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet																											
Yakung (Chumbi) (R)	0830																										
Ceylon																											
Colombo	0830	7	1012·8	1011·9	0	24·6	22·0	20·7	24·4	80	—5	4·9	+0·8	11·2	0	2	28	9	20	0	0	0	0	0	1	1	0
	1730	„	1009·5	1008·6	..	27·7	24·1	22·4	27·1	71	..	5·9	..	14·8	0	1	30	14	5	0	0	0	0	3	9	0	0
Trincomalee	0830	3	1012·9	1012·6	—0·4	25·9	23·6	22·4	27·1	81	—2	6·5	+2·2	18·4	0	14	16	16	7	0	0	0	3	1	3	1	0
	1730	„	1010·7	1010·	..	26·3	23·6	22·3	26·9	78	..	6·2	..	23·8	0	19	12	17	10	1	0	1	0	0	2	0	0
Batticola	0830	3	1013·2	1012·9	..	25·2	23·7	23·0	28·1	89	..	5·9	..	13·5	0	1	28	2	3	1	0	1	0	12	10	2	0
	1730	„	1010·5	1010·1	..	26·3	23·9	22·9	27·9	82	..	5·4	..	14·6	0	16	15	14	11	2	2	0	0	0	2	0	0

(R) Register not received

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Ceylon—(*Contd.*)																											
Hambantota	0830	15	1012·4	1010·7	+0·6	25·2	22·7	21·5	25·6	81	−4	5·0	+1·6	16·0	0	7	24	10	17	0	0	0	0	1	3	0	0
	1730	,,	1009·6	1007·8	..	27·3	24·7	22·3	26·9	76	..	5·7	..	16·7	0	15	16	0	17	5	3	2	4	0	0	0	0
Mannar	0830	4	1013·7	1013·2	..	25·7	23·7	22·7	27·6	84	..	5·4	..	10·5	0	0	31	10	19	1	0	0	0	0	1	0	0
	1730	,,	1010·8	1010·4	..	27·2	23·7	21·9	26·3	73	..	5·3	..	7·3	0	5	26	12	19	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																											
Damodar Catchment																											
Bokaro	0830	242	1019·2	990·6	..	13·7	11·1	8·3	11·3	71	..	2·3	..	4·1	0	0	30	2	0	0	0	0	4	18	6	1	0
	1730	,,	1014·9	986·9	..	19·4	14·9	11·7	13·5	60	..	2·8	..	4·9	0	0	31	8	3	0	0	2	0	1	17	0	0
Hazaribagh	0830	615	1018·1	947·4	..	14·7	10·8	6·8	10·0	61	..	1·7	..	4·7	0	0	25	2	1	2	2	1	2	7	8	6	0
	1730	,,	1014·4	944·7	..	17·6	12·1	6·4	10·0	51	..	2·5	..	2·2	0	0	11	1	0	0	0	0	0	0	10	20	0
Tilaiya	0830	..	..	..	..	15·9	11·6	6·8	10·0	56	..	..	..	7·0	0	1	28	0	0	5	2	2	4	13	3	2	0
	1730	..	..	..	..	19·4	13·0	6·3	9·9	43	..	..	..	4·7	0	0	29	1	1	2	0	1	0	20	4	2	0
Ramgarh	0830	..	..	..	..	13·8	11·5	9·7	11·9	77	..	2·1	..	0·9	0	0	9	0	0	1	0	0	3	3	2	22	0
	1730	..	..	..	..	20·4	15·7	11·3	13·9	58	..	0·4	..	0·2	0	0	2	0	0	0	0	0	0	1	1	29	0
Panchet Hills	0830	..	..	..	..	16·9	13·2	9·9	12·1	63	..	3·6	..	7·0	0	0	28	5	0	0	0	5	9	3	6	3	0
	1730	..	..	..	..	20·7	15·1	10·6	12·6	52	..	4·7	..	5·4	0	0	23	19	0	0	0	1	0	0	3	8	0
Durgapur	0830	..	..	..	..	16·8	13·7	10·9	13·1	67	..	..	..	8·2	0	0	31	14	1	0	0	0	2	0	14	0	0
	1730	..	..	..	..	22·0	15·6	10·7	12·8	50	..	..	..	4·6	0	0	29	9	5	0	1	0	2	0	12	2	0
Mahanadi Catchment																											
Hirakud	0830	159	1018·1	999·6	..	18·6	15·4	12·6	14·9	69	..	2·0	..	4·8	0	0	26	10	6	6	3	0	0	0	1	5	0
	1730	,,	1014·0	995·7	..	23·1	16·9	11·9	14·2	51	..	1·8	..	2·7	0	0	23	7	2	2	1	0	0	3	8	3	0
Khijrawan	0830	..	..	..	..	17·2	14·2	11·6	13·7	70	..	1·5	..	3·0	0	0	22	2	2	13	5	0	0	0	0	9	0
	1730	..	..	..	..	24·3	16·9	11·4	13·5	47	..	(b) 1·5	..	(b) 4·6	0	0	23	5	3	0	1	0	0	3	9	6	2
Sonepur	0830	..	..	..	..	20·3	16·1	12·9	14·9	63	..	..	..	4·0	0	0	30	5	7	7	1	2	4	1	3	1	0
Ginabahar	0830	..	..	..	..	16·6	13·2	9·7	12·4	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhimkund	0830	..	..	..	..	15·5	12·9	10·5	12·3	72	..	1·8	..	2·1	0	0	19	8	2	0	0	0	0	0	9	12	0
	1730	..	..	..	..	22·6	16·5	11·5	13·9	51	..	2·5	..	2·3	0	0	17	2	2	0	1	2	2	0	8	14	0
Narbada Catchment																											
Punasa	0830	..	..	..	..	15·9	12·8	9·6	12·3	68	..	..	..	2·6	0	0	22	5	6	8	1	1	0	0	1	9	0
	1730	..	..	..	..	22·9	16·8	12·0	14·2	55	..	..	..	2·9	0	0	22	5	8	5	1	1	0	1	1	9	0
Bagra Tawa	0830	..	..	..	..	15·2	12·8	10·4	12·9	75	..	(h) 1·4	..	4·7	0	0	27	2	18	3	0	0	3	0	1	4	0
	1730	..	..	..	..	21·8	17·0	13·6	15·5	62	..	(h) 2·5	..	3·5	0	0	22	3	18	0	0	0	1	0	0	9	0
Thikri	0830	..	..	..	..	17·0	14·1	12·8	13·7	77	..	3·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Ihadol	0830	..	..	..	..	11·1	9·2	7·2	10·1	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharoi	0830	..	..	..	..	14·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	..	..	..	5·3	1·7	−3·6	4·6	52	..	2·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	6·8	3·2	−1·5	5·4	54	..	3·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	4·7	4·1	3·4	7·8	90	..	(a) 3·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	..	..		..	11·9	7·9	3·3	7·8	57	..	(a) 3·0	..	0·5	0	0	5	2	0	0	1	0	1	0	1	26	0
	1730	.	..	..	..	14·9	9·9	4·5	8·7	52	..	3·3	..	2·0	0	0	13	0	0	2	2	6	3	0	0	18	0
Gandak Catchment																											
Gorkha	0830	..	..	..	..	12·2	9·0	5·8	9·2	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..		13·1	9·7	6·4	9·7	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	11·1	8·3	5·6	9·0	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	(b) 15·4	(b) 10·9	(b) 6·9	(b) 9·7	(b) 57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nawakot	0830	..	..	..	..	(a) 12·7	(a) 9·6	(a) 6·6	(a) 9·8	(a) 67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	(a) 15·6	(a) 10·4	(a) 5·3	(a) 8·9	(a) 50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom	0830	..	..	..	..	−0·5	−1·9	−3·8	4·5	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	4·3	1·7	−1·5	5·5	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khundi Bazar	0830	..	..	..	..	10·5	7·2	4·0	7·8	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·0	10·9	6·9	9·4	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(b) Mean of 29 days. (a) Mean of 30 days. (h) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Hean temperature in °C: Dry bulb	Hean temperature in °C: Wet bulb	Hean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amoun	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—(Contd.)																											
Gandak Catchment—(Contd.)																											
Timure	0830	..	..	..	..	4·0	0·5	—5·2	4·1	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	9·7	5·5	0·8	6·4	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans-Himalayan Region)																											
Dailekh*	0830																										
	1730																										
Gogra Catchment																											
Dandeldhura	0830	..	..	..	..	6·4	2·9	—1·6	5·3	59	..	2·4(a)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	6·8	3·9	0·2	6·2	65	..	3·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	18·5	13·6 (a)	9·3 (a)	11·7 (a)	55 (a)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·1	15·2	10·9	13·2	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu†	0830	1324																									
	1130	"																									
	1730	"																									
Kosi Catchment																											
Chautara	0830	..	..	..		9·2	5·9	2·3	7·1	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·2	7·8	2·3	7·2	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	6·3	4·9	3·8	7·9	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·3	8·0	6·5	10·9	77	..	..	..	..	..	..	..	..	..	..	..		..	..	..	..	..
Okhaldunga*	0830																										
	1130																										
	1730																										
Barahkshetra	0830	146	1019·2	1001·9	..	13·5	10·7	7·8	10·7	71	..	1·0	..	7·0	0	0	30	1	7	5	8	0	6	0	3	1	0
	1130	"	1016·8	999·9	..	20·6	14·3	8·5	11·3	46	..	0·9	..	7·7	0	0	31	0	1	0	1	1	23	2	3	0	0
	1730	"	1014·8	997·5	..	16·8	13·5	10·6	12·8	67	..	1·2	..	6·5	0	0	31	0	6	14	10	0	1	0	0	0	0
Angbung	0830	..	..	..	..	12·1	8·4	4·4	8·4	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·0	10·3	4·5	8·4	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	7·5	4·7	1·5	6·8	67	..	1·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	13·0	7·9	2·7	7·4	50	..	1·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·0	5·9	1·4	6·8	53	..	2·8	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..
Taplethok	0830	..	..	..	..	10·7	6·1	0	6·1	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·7	7·9	2·3	7·2	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	2·7	—0·5	—5·4	4·1	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	—0·5	—1·5	—3·1	5·0	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	10·6	7·0	3·3	7·7	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	9·6	7·0	4·4	8·4	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	14·1	10·4	6·8	10·1	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·7	11·0	6·4	9·7	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment																											
Gangtok	0830	1812	1533·1	822.0	..	6·8	4·1	0·8	6·4	66	..	1·9	..	1·2	0	0	5	5	0	0	0	0	0	0	0	26	0
	1130	"	1511·4	820·9	..	12·7	7·8	2·7	7·5	51	..	1·9	..	1.9	0	0	19	0	0	0	3	5	11	0	0	12	0
	1730	"	1505·3	819·5	..	8.3	5·6	2·5	7·3	63	..	4·3	..	0·7	0	0	7	0	0	1	3	3	0	0	0	24	0
Geyzing	0830	..	..	..	..	10·9	6·9	2·9	7·4	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·4	7·2	4·0	8·1	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(a) Mean of 30 days

† Date included under "Neapl".

*Data not available

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 55 stations in India. Out of these, at 42 stations all the observations were taken by means of pilot balloons and at 13 stations some observations were made by means of pilot balloons and other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the Table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9.0 km. a. m. s. l. are given under Table IV and data above 9.0 km. a. m. s. l. under Table V.

In Tables IV and V :

n—represents the number of observations ;

V—represents the mean wind speed in metres per second* irrespective of direction ;

v—represents the resultant mean velocity in metres per second* ;

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a. g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a. m. s. l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a. m. s. l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

*Values obtained by converting the original data in knots.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
Agartala	23°53′	91°15′	17	28th November, 1951	0530	1730	2330	
Ahmedabad	23°04′	72°38′	61	19th May, 1928	0530	1730	2330	
Amausi	26°45′	80°53′	133	20th November, 1950	0530	1730	2330	
Ambala	30°23′	76°46′	279	1st April, 1941	0530	1730	2330	
Amritsar	31°38′	74°52′	243	21st June, 1957	0530*	1730*		
Anantapur	14°41′	77°37′	365	12th February, 1946	0530	1730	2330	
Asansol	23°41′	86°59′	135	29th May, 1941	0530	1730	2330	
Baghdogra	26°38′	88°19′	140	7th June, 1953	0530	1730	2330	
Bairagarh	23°17′	77°21′	532	26th February, 1943	0530	1730	2330	
Bajpe	12°55′	74°53′	104	25th May, 1959	0530	1730	2330	
Bamrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
Bangalore	12°58′	77°35′	936	19th May, 1915	0530	1730	2330	
Bareilly	28°22′	79°24′	180	12th January, 1943	0530	1730		
Begumpet	17°27′	78°28′	543	1st September, 1929	0530	1730	2330	
Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1730		
Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530	1730	2330	
Bhuj	23°15′	69°48′	90	14th September, 1937	0530	1730	2330	
Bikaner	28°00′	73°18′	229	18th October, 1946	0530	1730	2330	
Chikalthana	19°51′	75°24′	583	7th October, 1951	0530	1730	2330	
Cochin†	09°56′	76°14′	13	16th March, 1942	0530	1730	2330	
Darjeeling	27°03′	88°16′	2115	21st May, 1956	0830	1730		
Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530	1730		
Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
Gadag	15°25′	75°38′	650	3rd May, 1943	0530	1730	2330	
Gannavaram	16°32′	80°48′	32	8th April, 1942	0530	1730	2330	
Gauhati	26°05′	91°43′	51	12th March, 1955	0530*	1130	1730*	2330
Gaya	24°45′	84°57′	119	19th March, 1937	0530	1730	2330	
Gopalpur	19°16′	84°53′	24	15th February, 1946	0530	1730	2330	
Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530	1730		
Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1730	2330	
Imphal	24°51′	93°58′	805	8th March, 1952	0530	1730	2330	
Jabalpur	23°10′	79°57′	402	10th July, 1928	0530	1730	2330	
Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530	1730	2330	
Jaipur	26°49′	75°48′	403	6th June, 1953	0530	1730	2330	
Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1730		
Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530	1730	2330	
Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
Madras	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1730	2330	
Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1730	2330	
Nagpur	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
Nanpara	27°50′	81°30′	142	23rd April, 1957	0530	1730		
New Delhi	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
Poona	18°32′	73°51′	593	5th January, 1925	0530	1730	2330	
Port Blair	11°40′	92°43′	93	29th October, 1945	0530*	1130	1730*	2330
Raipur	21°14′	81°39′	308	15th July, 1944	0530	1730	2330	
Raxaul	26°59′	84°51′	83	28th October 1957	0530	1730		
Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
Tezpur	26°37′	92°47′	79	12th August, 1932	0530	1730	2330	
Tiruchirapalli	10°46′	78°43′	96	22nd June, 1936	0530	1730	2330	
Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
Udaipur	24°35′	73°42′	587	24th June, 1947	0530	1730	2330	
Vengurla	15°52′	73°38′	8	22nd November, 1941	0530	1730	2330	
Veraval	20°54′	70°22′	17	13th October, 1941	0530*	1130	1730*	2330
Visakhapatnam	17°43′	83°14′	10	24th September, 1928	0530	1730	2330	

*Radiowind ascents.

†Naval Meteorological office.

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Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Station	AGARTALA												AHMEDABAD											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·3	0·1	029	31	1·3	1·0	319	31	1·1	0·7	329	31	2·8	2·4	037	31	3·4	2·2	044	31	2·5	1·8	016
0·15 a. g. . .	31	3·0	2·6	350	31	3·0	2·5	318	31	4·0	3·1	315	31	9·2	8·1	059	31	4·5	3·0	039	31	7·3	5·5	037
0·3 a.m.s.l. .	31	3·4	3·2	359	31	2·9	2·4	316	31	3·7	3·3	317	31	9·5	8·2	065	31	4·5	3·5	040	31	7 2	5·6	039
0·6 ,, .	31	3·2	2·6	360	31	2·8	2·0	317	31	3·3	2·9	317	31	7·2	5·9	072	31	4·3	2·9	037	31	6·6	4 9	044
0·9 ,, .	31	3·0	1·9	349	31	2·7	1·5	301	31	2·8	2·1	313	31	5·3	3·3	668	31	4·1	2·6	030	31	5 6	3 8	049
1·5 ,, .	31	4·3	3·8	295	31	4·4	3·3	299	31	4·2	2·6	283	31	4·6	1·4	318	31	4·5	2·7	359	31	4·8	1·2	029
2·1 ,, .	31	7·2	6·4	278	31	6·3	5·7	284	31	6·7	6·1	275	30	6·1	4·2	268	29	5·6	3·4	278	31	5.8	2·5	254
3·0 ,, .	30	11·9	10·7	274	31	10·6	10·5	276	31	10·6	10·0	271	29	8·2	7·2	267	28	8·3	6·8	269	28	8 1	6·7	263
3·6 ,, .	27	13·9	13 0	270	31	14·2	13·5	274	18	13·3	12·9	266	17	10·6	9·4	275	28	10·7	9·3	275	7	10 1	9·4	270
4·5 ,, .	21	17·3	17·0	260	24	19·8	19·1	271	3	15·4	14·9	267	15	4·7	4·5	277	27	13·7	11·9	275				
5.4 ,, .	13	21·1	20·9	255	18	24·0	23·2	267									26	18.3	17·2	275				
6·0 ,, .	9	26·6	26·3	255	13	26·5	24·9	262									25	20·7	19·9	276				
7·2 ,, .	2	26·0	26·0	240	10	34·5	33·0	261									22	24·8	21·9	275				
9·0 ,, .					2	40·0	39·1	263									9	35.5	33.1	265				

Station	AMAUSI												AMBALA											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·9	0·8	287	31	2·9	1·4	292	31	2·3	1·2	280	31	1·5	0·8	330	31	2·2	1·2	303	31	2·3	1·5	327
0·15 a. g. . .	31	5·8	2·3	351	31	4·4	2·4	309	31	6·2	3·0	305	31	5·6	2·2	340	31	4·5	2·7	310	31	6·8	4·0	339
0·3 a.m.s.l. .	31	5·6	2·2	332	31	4·5	2·4	307	31	6·2	2·9	302	31	2·6	1·1	354	31	2·8	1·5	303	31	3·5	2·2	336
0·6 ,, .	31	4·9	1·6	299	31	4·7	2·1	301	31	5·4	2·9	300	31	6·0	2·9	333	31	5·3	2·5	316	31	6·5	3·6	342
0·9 ,, .	30	5·0	2·4	284	31	4·9	2·4	297	31	4·8	3·0	303	31	5·8	2·5	331	31	5·4	2·8	313	31	5·8	2·3	346
1·5 ,, .	30	5·8	3·5	297	30	4·3	4·1	301	31	4·8	3·7	294	31	5·3	1·3	336	31	5·2	1·7	331	31	4·9	1·4	319
2·1 ,, .	28	5·7	4·1	284	30	6·8	4·9	249	30	5·1	4·2	285	29	5·1	2·4	325	30	5·8	1.1	313	30	4·6	1·7	305
3·0 ,, .	23	6·5	5·5	285	30	8·1	7·3	287	16	5·5	4·8	263	28	5·4	3·0	325	28	5·3	2·1	297	27	4·7	1.9	282
3·6 ,, .	7	6·7	6·5	270	29	9·4	8·6	286	6	6·2	5·3	282	25	6·5	4·5	295	27	5·8	2·9	295	10	5·4	2·5	285
4·5 ,, .					25	14·8	13·5	285					20	9·5	7·7	287	26	8·6	5 8	295				
5·4 ,, .					23	17·5	16·7	277					16	11·5	10·0	283	23	12·6	10·6	289				
6·0 ,, .					21	19·4	18·6	278					10	14·7	13·6	284	21	15·2	14·1	288				
7·2 ,, .					15	26·9	26.2	277					4	23·0	19·4	289	12	20·4	14·8	288				
9·0 ,, .					3	42·9	42·6	254					1	37·3	37·3	235	1	23·2	23·2	275				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Station	AMRITSAR								ANANTAPUR												ASANSOL			
Time in I. S. T.	0530*				1730*				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·0	0·4	328	31	1·5	1·1	320	31	1·6	1·3	110	31	3·9	3·7	076	31	4·5	4.3	099	31	1·1	1·0	296
0·15 a.g. . .	19	2·0	1·0	017	24	2·5	1·8	310	31	4·9	4·4	120	31	4·7	4·6	082	31	9.2	9·1	103	31	4·8	3·6	327
0·3 a.m.s.l. .	19	1·7	0·9	354	24	2·2	1·7	315													31	4·9	3·5	338
0·6 ,, .	19	3·7	1·5	330	24	3·7	2·5	310	31	6·0	5·4	118	31	5·1	4·9	084	31	9·4	9.3	103	31	5·2	4·3	335
0·9 ,, .	19	3·8	1·7	282	24	3·2	1·9	310	31	7·8	7·4	112	31	5·1	5·0	087	31	7·5	7·3	105	31	5·5	4·7	312
1·5 ,, .	19	4·0	0·9	243	24	3·8	1·1	300	31	6·3	5·6	096	31	4·7	4·5	087	31	3·7	2·8	079	31	6·4	5·7	291
2·1 ,, .	19	5·1	0·9	235	24	4·8	1·1	274	31	4·2	1·6	043	31	4·4	3·7	093	31	3·5	1·0	025	30	8·1	7·3	286
3·0 ,, .	19	6·0	1·5	202	24	5·6	1·9	210	31	4·2	1·2	250	31	3·9	0·7	235	31	3·9	1.9	280	21	9·6	8·2	277
3·6 ,, .	19	7·2	2·5	210	23	6·7	3·7	250	30	6·6	3·2	238	30	6·1	2·4	259	27	5·9	3·1	252	10	11·1	9·8	280
4·5 ,, .	18	10·3	5·2	255	23	8·7	4·3	265	26	7·9	4·9	250	29	7·8	4·4	259	17	7·8	4·8	261	3	11 0	10·8	270
5·4 ,, .	18	9·4	6·8	264	23	11·9	7·6	273	22	9·2	5·9	264	28	9·0	6·2	269	7	12·3	8·2	234	2	9·3	9·0	257
6·0 ,, .	18	12·3	8·7	280	23	14·5	10·0	273	19	10·7	6·1	258	28	11·0	7·3	263	5	12·1	7·6	231				
7·2 ,, .	18	16·4	13·0	292	22	17·5	14·5	278	14	11·2	7·5	261	24	13·0	8 9	260								
9·0 ,, .	13	21·8	18·9	270	19	25·8	23·8	276	5	5·7	1·0	161	12	13·5	11·0	256								

Station	ASANSOL								BAGHDOGRA												BAIRAGARH			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·8	0·6	305	31	0·7	0·7	325	31	1·2	0·9	007	31	2·0	1·4	219	31	1·4	1·1	003	31	2·2	1·4	059
0·15 a.g. . .	31	3·6	3·3	327	31	5·1	4·4	347	31	2·2	1·4	055	31	3·1	2·3	230	31	2·3	0·9	002	31	6·3	4·2	079
0·3 a.m.s.l. .	31	3·5	3·2	328	31	5·1	4·4	346	31	2·2	1·3	067	31	3·1	2·5	232	31	2·4	0·6	328				
0·6 ,, .	31	3·8	3·6	326	31	4·6	3·9	333	31	2·2	1·6	075	31	3·1	2·5	238	31	3·0	1.9	280	31	6·2	4·2	079
0·9 ,, .	31	4·0	3·8	321	31	4·3	3·5	304	31	2·2	1·4	096	31	2·7	2·0	238	31	2·7	1·3	282	29	4·8	2·0	084
1·5 ,, .	31	5·3	5·1	300	31	6·8	6·1	288	31	3·4	1·6	092	31	2·7	0·3	190	30	3·7	0·7	083	27	3 9	2·7	275
2·1 ,, .	31	8·6	8·2	291	30	8·8	8·6	282	31	4·7	1·0	084	29	4·1	0·7	345	29	3·6	0·7	(31	27	7 7	6·9	268
3·0 ,, .	20	11·1	10·8	284	22	9·8	9·3	283	29	7·9	4·6	283	27	7·7	4·8	295	13	6·0	3·9	285	26	10·8	8·5	265
3·6 ,, .	14	12·0	11 4	287	13	12·9	12·0	275	25	12·6	9·8	282	26	10·7	10·0	283	6	11·5	8·6	281	11	11 3	11·0	277
4·5 ,, .	2	15·7	15·1	285	6	18·6	18 2	260	15	14·0	13·6	280	20	16·8	16·0	275					4	12·6	12·6	285
5 4 ,, .	1	21·1	21·1	260	3	21·6	21·5	253	13	18·5	17·8	267	19	20·7	20·2	277								
6·0 ,, .									3	17·1	16·5	290	15	21·7	21·3	273					2	15·2	15·1	287
7·2 ,, .													9	30·4	28·6	273					1	25·2	25·2	295
9·0 ,, .													2	41·0	41·0	255					1	32·9	32·9	290

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Station	BAIRAGARH								BAJPE												BAMRAULI			
Time in I. S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	1·1	034	31	2·3	1 4	088	31	2·0	1·7	083	31	3·6	3·2	292	31	1·6	1·4	003	31	1·2	0·7	076
0·15 a. g.	31	2·8	1·1	035	31	5·1	3·0	070	31	4·4	2·9	035	31	4·3	4·0	283	31	4·6	4·4	333	30	4·8	2·0	304
0·3 a.m.s.l.									31	4·7	3.0	037	31	4.3	3.8	285	31	4.9	4.6	332	30	4·5	1·9	303
0·6 ,,	31	2.7	1·2	040	31	5·1	3·1	069	31	4·5	2·6	048	31	2·4	1·6	329	31	4·6	4·4	330	30	4·2	1·9	296
0·9 ,,	30	3·0	0·9	029	31	4·5	2·4	062	31	4·2	2·2	060	31	2·1	1·3	047	31	2·8	2·3	335	30	4·6	2·8	292
1·5 ,,	30	3·7	2·3	288	30	3·9	1·7	283	31	4·7	3·0	093	31	4·8	4·4	078	31	4·0	2·9	074	30	6·0	5·3	282
2·1 ,,	29	6·6	5·7	270	29	6·8	6·1	266	29	3·8	2·6	108	31	4·9	4·2	070	30	6·5	6·1	091	30	7·1	6·3	281
3·0 ,,	27	12·3	11·0	265	28	10·5	9·6	266	26	3·9	1·2	138	30	4·2	0·8	073	29	4·1	2·5	110	30	10·2	9·6	277
3·6 ,,	26	13.2	11·8	267	11	12·1	11·1	278	22	5·6	1·4	263	30	5·0	0·2	353	25	5.2	0·3	224	29	12·4	11·7	275
4·5 ,,	22	15·7	14·4	274	2	15·2	14·1	261	17	5·7	1 4	255	28	7·0	3·1	248	20	6.4	1·8	265	29	15·0	14·0	270
5·4 ,,	18	20·0	18·9	278					10	6.7	4·3	286	25	8·5	4·0	259	8	8·0	7·6	273	29	18·4	17·8	270
6·0 ,,	15	21·3	20·5	271					7	9·3	6·8	300	24	9·8	4·2	263	5	5·6	5·2	284	29	23·1	18.6	268
7·2 ,,	8	25·4	24·9	276					1	12·4	12·4	285	20	12·3	9·3	282	1	8·2	8·2	245	28	29·4	28·7	263
9·0 ,,	1	20·6	20·6	290									17	13·2	11·3	260					28	38·4	37·2	266

Station	BAMRAULI												BANGALORE											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	0·8	275	31	2·0	1·2	310	31	0·7	0·3	337	31	4·0	3·9	097	31	3·8	3·4	079	31	4·8	4·5	096
0·15 a. g.	28	2·6	0·9	262	31	5·1	3·0	307	30	5·5	2·2	327	28	8·1	7·7	094	31	4·5	3·9	079	29	10·0	9·8	099
0·3 a.m.s.l.	28	2·9	0·9	257	31	5·1	3·0	307	30	5·7	2·2	328												
0·6 ,,	29	3·8	2·1	279	31	4·1	2·6	293	30	5·9	2·4	305												
0·9 ,,	29	4·6	3·5	281	31	4·2	2·8	290	31	5·8	3·0	298												
1·5 ,,	30	6·3	5·3	284	31	5·8	4·8	280	31	6·7	5·2	289	28	6·8	5·9	085	31	4·6	4·2	086	29	8·3	7·7	094
2·1 ,,	29	7·5	6·5	283	31	7·3	6·5	278	30	7·1	6·3	284	24	4·0	2·8	058	31	3·7	2·9	084	29	3·7	1·6	054
3·0 ,,	27	9·5	9·0	285	31	10·5	9·9	276	19	9·4	8·9	283	21	4·1	0·9	157	30	3·9	0·6	205	28	4·6	0·5	160
3·6 ,,	26	12·0	11·7	280	31	20·4	12·1	276	6	13·8	13·2	273	19	5·5	1·2	206	27	5·7	1·4	255	27	5·4	0·8	181
4·5 ,,	22	13·4	12·9	277	31	15·7	15·1	274					15	6·5	0·8	222	27	6·9	2·3	256	21	5·7	1·1	208
5·4 ,,	22	18·0	17·5	280	31	19·4	18·6	271					9	8·2	0·6	302	26	6·9	2·9	266	14	8·6	1·2	286
6 0 ,,	20	20·8	20·3	279	31	22·7	21·8	270					7	8·9	1·9	238	26	8.0	3.3	275	11	9·1	2·7	227
7·2 ,,	14	23·3	23·0	272	30	28·4	26·7	267					3	10·8	9.6	297	22	10·8	5·9	266	3	6·3	4·6	257
9·0 ,	5	26·5	26·0	269	29	37.0	35·4	263									20	12·0	8·5	257				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Station	BAREILLY								BEGUMPET												BHAGALPUR			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·3	0·6	295	31	1·5	0·8	284	31	2·3	2·0	100	31	3·1	2·6	107	31	2·3	2·0	099	31	1·2	0·9	240
0·15 a. g.	31	6·1	3·3	312	31	4·0	2·3	294	31	6·2	5·7	118	31	4·0	3·3	104	31	6·7	6·1	111	31	4·1	3·1	295
0·3 a.m.s.l.	31	5·5	3·0	314	31	3·9	2·2	294													31	4·9	4·1	302
0·6 ,,	30	6·3	3·2	303	31	4·7	2·3	294	31	4·3	3·9	111	31	3·7	3·1	102	31	4·4	4·0	105	31	4·2	3·3	312
0·9 ,,	29	5·6	2·3	298	31	5·3	2·3	301	31	7·4	7·0	128	31	4·0	3·3	107	31	7·7	7·2	113	31	3·8	2·5	311
1·5 ,,	29	5·3	2·2	290	31	5·6	2·7	307	28	5·7	3·6	115	31	4·0	2·7	111	31	4·9	3·3	120	31	5·1	4·2	292
2·1 ,,	27	5·9	2·8	295	31	5·8	3·6	293	26	4·8	1·3	309	31	3·3	1·0	118	31	4·1	0·3	121	30	7·2	6·4	287
3·0 ,,	25	6·3	4·8	279	30	6·2	4·3	283	22	5·7	3·3	286	31	4·8	2·3	277	30	5·5	4·6	265	27	10·7	10·1	280
3·6 ,,	23	7·4	5·7	278	29	7·7	5·9	286	20	7·3	6·0	272	30	6·7	5·1	272	15	6·8	2·9	262	21	12·3	11·9	279
4·5 ,,	19	10·3	9·8	275	29	11·3	10·0	282	16	7·4	6·0	273	26	9·6	8·1	265	7	10·9	9·6	250	16	15·2	14·6	276
5·4 ,,	13	14·4	10·8	273	29	16·5	15·2	272	9	10·7	8·2	272	22	12·9	11·4	268	5	11·7	10·5	253	9	19·4	18·6	272
6·0 ,,	12	16·7	15·7	275	28	19·6	18·5	272	7	10·6	8·7	267	14	15·4	13·6	265	3	10·4	8·4	245	3	26·7	25·6	273
7·2 ,,	3	16·3	15·7	280	19	24·3	23·3	272	3	10·7	7·3	254	8	20·1	17·2	265					1	23·7	23·7	270
9·0 ,,	1	17·0	17·0	280	6	39·4	37·2	276	1	12·9	12·9	195	7	12·5	9·8	252								

Station	BHAGALPUR				BHUBANESHWAR												BHUJ							
Time in I. S. T.	1730				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	1·4	275	31	1·5	1·4	009	31	1·7	0·6	079	31	1·1	0·4	077	31	0·4	0·2	007	31	3·3	2·4	025
0·15 a.g.	31	3·7	3·6	282	31	4·0	2·1	020	31	3·4	1·9	064	31	5·3	3·0	110	31	5·8	4·5	015	31	4·8	3·7	020
0·3 a.m.s.l.	31	3·9	3·8	282	31	3·7	2·0	052	31	3·3	2·0	057	31	4·8	2·6	115	31	6·7	5·3	025	31	4·9	4·0	020
0·6 ,,	31	4·3	4·0	286	31	3·3	1·7	059	31	3·0	1·9	034	31	3·7	1·3	072	31	6·1	4·8	033	31	5·0	3·5	020
0·9 ,,	31	4·3	3·8	284	31	3·5	2·0	023	31	3·0	1·9	012	31	3·6	2·1	358	31	5·2	3·4	038	31	5·1	3·2	022
1·5 ,,	31	5·6	5·1	286	31	5·1	3·8	323	31	4·9	3·9	324	31	5·7	3·9	331	31	5·5	2·5	356	31	5·5	2·8	012
2·1 ,,	30	7·4	7·1	290	31	6·2	5·1	313	31	7·5	6·1	307	31	6·3	5·3	309	31	5·3	3·3	344	31	6·0	3·3	313
3·0 ,,	28	10·9	10·5	287	30	7·2	6·2	276	30	10·1	8·9	295	29	7·6	6·4	289	30	7·2	5·4	294	31	7·9	5·8	289
3·6 ,,	23	13·4	13·1	281	28	9·6	8·4	274	26	12·0	10·8	283	17	9·5	8·3	273	12	9·3	7·7	282	31	9·8	8·2	276
4·5 ,,	18	17·8	17·3	276	22	13·5	12·5	267	23	15·4	14·0	272	6	12·4	11·6	275	2	17·2	15·6	255	31	13·4	11·9	277
5·4 ,,	14	20·4	19·6	272	16	17·6	15·7	262	21	18·9	17·2	261	1	5·1	5·1	325					31	17·1	15·5	277
6·0 ,,	13	25·1	24·2	272	7	17·5	16·9	255	18	20·5	19·1	254	1	4·1	4·1	250					30	18·1	16·3	276
7·2 ,,	9	31·9	31·2	270	2	24·2	24·2	263	5	20·1	19·8	268									19	22·4	20·6	270
9·0 ,,	3	48·6	48·4	275	1	20·1	20·1	270	3	23·7	23·3	256									7	31·7	30·7	275

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9 Km. above mean sea level

January, 1960 (Pausa 11— Magha 11, 1881 Saka)

Station	BHUJ				BIKANER												CHIKALTHANA							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	0·8	0·5	030	31	0·4	0·1	347	31	0·9	0·2	358	31	1·1	0·8	009	31	1·0	0·9	107	31	1·7	0·8	198
0·15 a.g. .	31	5·5	4·0	011	31	6·1	2·8	098	31	3·0	1·3	340	31	6·1	4·1	027	31	5·7	4·5	088	31	3·3	1·2	210
0·3 a.m.s.l. .	31	6·0	4·1	009	31	3·7	2·9	103	31	2·6	1·2	344	31	5·1	3·8	035								
0·6 ,, .	30	6·0	4·5	027	31	5·1	1·5	304	31	3·6	1·4	340	31	9·9	2·7	041								
0·9 ,, .	31	5·4	3·7	032	31	4·5	1·2	342	31	3·4	1·4	344	31	3·7	0·3	060	31	6·7	5·4	105	31	3·1	1·3	224
1·5 ,, .	31	5·6	2·3	027	31	4·7	2·8	308	31	3·9	1·2	313	31	4·5	2·3	255	31	4·9	2·9	166	31	3·3	1·9	225
2·1 ,, .	30	5·3	2·8	204	30	5·7	3·9	306	31	5·1	2·2	278	30	5·3	3·5	287	31	5·1	4·4	222	31	3·8	2·4	233
3·0 ,, .	30	7·1	5·5	289	28	5·9	4·2	300	31	7·8	5·8	281	29	7·3	6·0	292	31	6·3	5·3	250	27	5·0	4·1	252
3·6 ,, .	14	9·2	7·6	278	28	8·3	6·5	299	31	9·3	8·0	279	21	8·6	7·1	288	18	7·5	6·3	269	20	6·8	5·7	266
4·5 ,, .	4	18·0	16·6	254	22	11·8	10·1	290	30	12·7	11·7	277	7	11·8	11.3	281	1	7·7	7·7	255	17	9·5	8·0	272
5·4 ,, .					11	15·5	12·8	292	28	15·4	14·5	276	2	10·0	9.7	279	1	7·7	7·7	250	16	12·4	10·9	284
6·0 ,, .					7	12·4	11·7	271	27	18·5	18·0	283	1	10·8	10·8	245	1	9·3	9·3	240	13	15·1	13·9	278
7·2 ,, .					4	13·4	12·9	244	16	21·8	21·2	284									6	14·9	14·4	251
9·0 ,, .					1	16·5	16·5	290	4	24·3	23·7	270									3	17·1	17·1	261

Station	CHIKALTHANA				COCHIN												DARJEELING							
Time in I.S.T.	2330				0530				1730				2330				0830				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·9	1·1	044	31	1·2	1·0	097	31	4·0	3·7	270	31	1·1	0·5	115	31	0·8	0·3	112	31	1·5	1·3	249
0·15 a.g. . .	31	6·1	4·6	033	31	3·7	2·9	093	31	4·6	4·5	269	29	2·7	0·5	140	27	1·9	0·6	141	18	2·6	1·9	240
0·3 a.m.s.l. .					31	3·4	2·5	085	31	4·4	4·1	282	29	2·7	0·1	255								
0·6 ,, .					31	2·9	1·7	081	31	3·2	2·4	326	29	3·1	0·7	055								
0·9 ,, .	31	6·3	4·4	063	31	2·8	1·6	080	31	3·5	3·1	015	29	3·3	1·7	105								
1·5 ,, .	31	4·1	1·6	164	31	2·9	2·2	052	31	4·8	4·3	069	29	4·3	3·4	096								
2·1 ,, .	31	5·4	4·3	212	29	3·0	1·5	070	30	4·2	3·5	081	26	4·3	3·6	091								
3·0 ,, .	30	6·2	2.9	237	28	3·8	0·7	152	28	3·9	1·0	090	21	3·8	1·3	114	27	4·1	1·3	258	18	2·8	2·0	296
3·6 ,, .	21	6·9	5·7	263	19	4·3	1·9	122	27	3·9	0·1	125	14	3·4	1·9	185	27	7·1	6·1	270	16	7·8	6·6	296
4·5 ,, .	9	9·7	8·0	263	13	4·1	1·7	108	24	5·0	1·6	320	2	3·6	0·6	252	23	12·8	12·3	273	10	11·9	11·6	270
5·4 ,, .	2	9.8	9·7	212	6	4.9	3·7	073	21	5·3	2·0	307					17	18·3	17·8	271	1	24·0	24·6	275
6·0 ,, .	2	11·8	11·8	214	3	4·6	3·3	048	19	5·2	0·9	315					13	23·4	23·0	273				
7·2 ,, .					1	3·6	3·6	210	9	6·9	1·9	336					7	27·6	26·8	270				
9·2 ,, .					1	8·7	8·7	245	4	8·1	6·6	268												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Station	DEHRA DUN								DUM DUM															
Time in I.S.T.	0530				1730				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·5	0·3	009	31	1·2	0·7	252	31	1·0	1·0	005	31	1·9	1·7	354	31	0·1	0·1	008	31	0.6	0.5	010
0·15 a.g.	29	1·5	0·9	060	29	2·5	1·7	260	31	4·8	4·6	003	31	3·1	2·8	351	31	3·4	3·2	334	31	3.7	2.8	353
0·3 a.m.s.l.									31	4·7	4·3	005	31	3·0	2·8	346	31	3·5	3·2	334	31	3.7	3.0	342
0·6 ,,									31	4·2	3·8	350	31	4·0	3 6	337	31	3·4	2·8	336	31	3.9	3.7	338
0·9 ,,	29	1·5	0·8	073	29	2.3	1·5	252	31	4·7	4·3	340	31	5·0	4·6	329	31	3·7	3·1	321	31	4.6	4.2	326
1·5 ,,	28	1·9	0·2	178	29	2·2	0·1	057	31	5·7	4.9	315	31	7·2	6·8	313	31	5·5	5·0	306	31	6.2	5.9	308
2·1 ,,	28	3·9	0·6	153	28	3·2	0·2	064	31	6·5	5·6	295	31	8·2	8·2	300	31	7·1	6·5	306	29	7.2	7.0	300
3·0 ,,	27	5·5	1·2	349	21	4·6	1·3	306	31	8·2	6·9	282	30	10·6	10·0	281	31	8·6	8·2	282	26	9.3	8.8	284
3·6 ,,	24	6·1	2·6	317	21	4·9	1·9	293	31	10·2	9·2	275	29	12·5	12·0	282	31	10.5	9·9	278	12	11.5	11.1	273
4·5 ,,	13	7·1	4·4	275	17	7·2	4.1	308	31	13·4	12·4	265	27	16·0	15·1	274	30	13·4	12·6	267	1	12·4	12·4	295
5·4 ,,	5	11.3	10·6	277	16	12·1	8·7	288	31	16·7	15·6	260	24	21·2	19·7	272	30	17·2	16·3	263	1	12·4	12·4	315
6·0 ,,	3	10·7	9·9	269	13	14·2	13·7	284	30	19·9	19·7	268	21	24·1	22·5	265	30	19·1	18.0	263	1	11·8	11·8	320
7·2 ,,					4	21·0	20·5	287	30	20·4	18·9	262	12	28.9	28·8	259	30	23·3	21·8	263	1	16·5	16·5	295
9·0 ,,					2	13·6	13·3	290	24	27·3	25·2	250	3	31·7	31·1	269	24	25·2	24·6	256	1	10·8	10·8	295

Station	GADAG												GANNAVARAM											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·3	2·5	125	31	3·0	2·0	088	31	4·0	2·4	099	31	2·6	2·4	052	31	2·9	2·6	113	31	2·2	1·9	095
0·15 a.g.	31	8·2	6·2	118	31	4·0	2·9	101	31	9·0	6·2	096	29	5·7	5·4	074	31	3·7	3·3	114	31	6·1	5·6	109
0·3 a.m.s.l.													28	6·0	5·6	093	31	4·0	3·7	109	31	6·3	5·9	106
0·6 ,,													28	6·2	5·8	102	31	3·8	3·3	097	31	5·7	5·5	100
0·9 ,,	31	8·6	6·5	118	31	3·9	3·0	099	31	8·9	6·8	098	28	5·8	4·9	095	31	3·8	3·0	080	31	4·9	4·4	087
1·5 ,,	31	7 0	5·6	109	31	3·9	2·4	101	31	7·1	5·6	101	26	6·0	4·0	074	31	5·0	3·0	044	29	5·3	3·7	044
2·1 ,,	31	3·4	1·9	098	30	3·8	2·6	091	31	4·9	3·8	110	25	5·3	2·6	086	29	5·6	3·3	020	27	5·7	2·0	040
3·0 ,,	31	4·4	0·5	161	28	3·7	0·1	301	31	3·8	0·3	022	23	5·4	1·0	279	29	5·5	2·8	285	25	5·3	1·9	277
3·6 ,,	28	6.0	1·9	264	24	5·3	3·2	258	30	5.6	2·0	243	22	7·5	3·4	277	28	7·4	4·9	273	21	7·0	5·0	265
4·5 ,,	17	6·8	5·3	265	23	7·9	5·2	260	21	7·8	4·1	256	19	9·5	7·7	249	25	10·3	8·0	268	15	9·3	6·6	263
5·4 ,,	12	9·5	7·8	272	23	11·1	8·7	257	11	10·3	5·7	267	17	10·2	8·5	256	25	12·3	10·1	268	11	10·1	7·0	271
6·0 ,,	5	8·7	6·6	291	23	13·3	10·6	260	6	11·2	6·4	278	14	12·6	10·2	266	24	14·3	12·3	272	6	12·0	8·6	260
7·2 ,,	1	14·9	14·9	280	20	15·9	13·0	258	2	12·9	7·1	289	10	15·3	13·8	272	18	11·0	14·3	269	1	12·4	12·4	200
9·0 ,,					13	19·5	17·2	253					4	21·4	20·3	234	14	20.0	18.6	260				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Station	GAUHATI																GAYA							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·1	0·1	090	31	1·2	0·8	051	31	0·2	0·1	127	31	0·3	0·2	163	31	1·6	1·2	191	31	2·3	1·4	324
0·15 a. g. .	31	2·3	0·9	089	31	2·3	0·9	037	31	3·2	1·8	035	31	2·2	1·2	211	31	1·5	2·0	251	31	4·4	3·2	316
0·3 a.m.s. l. .	31	2·6	1·0	087	31	2·6	1·4	055	31	3·2	1·6	036	31	2·3	0·6	139	31	4·7	2·3	278	31	4·2	3·2	311
0·6 ,, . .	31	3·4	1·9	086	31	3·4	2·0	082	31	3·1	0·9	060	31	2·8	0·9	089	31	4·8	2·1	300	31	4·3	3·1	302
0·9 ,, . .	31	4·3	2·8	084	31	4·2	2·2	103	31	3·2	0·8	102	31	2·8	0·2	042	31	4·8	2·9	289	31	4·3	3·4	283
1·5 ,, . .	31	4·9	3·0	093	31	5·0	1·2	125	31	4·1	1·1	222	31	3·9	0·6	325	31	5·6	4·8	278	30	6·1	5·7	283
2·1 ,, . .	31	5·3	1·2	097	31	5·6	1·0	181	31	5·7	3·5	232	29	5·1	1·8	283	25	6·3	5·4	276	25	6·8	6·5	279
3·0 ,, . .	31	8·4	5·4	268	31	8·7	5·6	276	31	8·2	7·3	260	21	8·7	8·1	265	14	8·6	7·3	256	8	9·1	8·7	272
3·6 ,, . .	31	12.6	9·7	272	28	12·8	10·8	269	31	12·4	12·0	273	5	8·0	7·8	260	7	8·7	6·0	248	3	10·1	9·4	278
4·5 ,, . .	31	17.6	17·0	269	27	19·1	17·3	271	31	18·4	18·1	273	1	11·8	11·8	260	3	12·0	11·3	268	2	11·8	10·8	266
5·4 ,, . .	31	22·0	21·5	270	25	23·2	21·0	267	31	22·8	22·4	268					1	17·0	17·0	295	1	11·8	11·8	300
6·0 ,, . .	31	26·1	25·6	268	22	26·8	23·4	264	31	24·6	23·9	268												
7·2 ,, . .	31	33·4	32·3	265	14	35·5	29·2	257	31	30·8	29·7	268												
9·0 ,, . .	25	43·2	41·9	266	2	37·6	37·6	278	26	46·7	45·1	267												

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I. S T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·9	0·4	246	31	2·3	2·3	332	31	3·4	3·2	100	31	1·1	0·7	323	31	1·3	0·8	276	31	1·3	1·0	270
0·15 a.g. . .	31	4·5	2·8	310	31	4·5	3·8	357	31	4·2	3·8	095	31	3·1	1·5	093	31	5·6	3·3	297	31	3·5	2·1	275
0·3 a.m.s.l. .	31	4·5	2·9	316	31	3·1	2·0	044	31	4·5	3·9	087	31	3·0	2·0	103	31	5·6	3·3	294	31	3·9	2·1	273
0·6 ,, . .	31	4·4	3·2	304	31	3·1	1·9	064	31	3·4	2·7	056	31	2·8	2·1	092	31	5·3	2·6	293	31	4·2	2·6	275
0·9 ,, . .	31	5·3	4·2	282	31	3·4	2·0	051	31	3·8	2·6	011	30	2·9	2·2	054	31	4·6	1·9	280	31	4·4	2·7	271
1·5 ,, . .	31	6·2	5·6	283	31	4·9	2·8	347	31	5·9	4·6	322	30	4·5	3·0	336	31	4·2	2·5	296	31	5·0	3·3	281
2·1 ,, . .	29	6·9	6·3	285	30	6·3	4·4	315	31	6·9	5·8	310	29	5·9	3·5	333	31	5·3	3·9	287	31	6·9	5·5	287
3·0 ,, . .	12	8·5	7·9	272	30	6.8	5·3	287	31	8·1	7·2	287	28	7·2	3·7	291	29	7·7	6·9	282	31	9·0	8·3	290
3·6 ,, . .	4	11·1	11·0	280	25	8·6	7·1	275	31	11·0	9·6	274	24	10·6	8·8	269	25	9·9	9·3	279	28	11·0	10·4	285
4·5 ,, . .	1	8·7	8·7	270	17	13·7	12·4	268	31	14·8	13·5	266	7	11·0	9·3	265	21	14·4	13·7	274	25	14·9	13·9	280
5·4 ,, . .					11	13·9	15·4	273	29	18·8	17·2	265	1	25·2	25·2	250	11	16·4	15·6	275	24	19·1	18·3	280
6·0 ,, . .					7	16·4	15·6	279	27	20.5	18·9	263					7	17·0	16·3	268	24	22·4	21·4	278
7·2 ,, . .					5	22·7	21·3	283	15	21·0	20·4	267					4	20·5	20·4	270	22	28·9	27·3	275
9·0 ,, . .									9	27·2	25·4	266					2	18·3	17·9	280	12	45·9	44·0	267

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January 1960. (Pausa 11—Magha 11, 1881 Saka)

Station	GWALIOR												IMPHAL											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface. . .	31	0·8	0·5	228	31	1·8	0·8	351	31	0·4	0·3	175	31	0·1	0·1	270	31	1·7	1·1	255	31	0·1	0·1	236
0·15 a. g. .	28	4·7	1·6	035	31	4·1	2·1	007	31	4·7	2·1	061	28	0·9	0·4	160	31	3·3	2·7	245	31	1·4	0·2	138
0·3 a.m.s.l. .	28	3·8	0·7	031	31	3·5	2·0	011	31	4·0	1·7	062												
0·6 „ . .	28	5·1	1·5	015	31	4·1	1·9	357	31	5·0	1·2	042												
0·9 „ . .	28	4·9	2·1	330	31	3·8	1·1	315	31	4·6	1·5	306	28	0·9	0·4	166	31	3·1	2·4	245	31	1·4	0·5	062
1·5 „ . .	28	6·2	4·3	311	31	4·4	2·8	287	31	5·3	3·3	301	28	2·4	0·8	012	31	2·8	2·1	240	31	2·6	1·4	239
2·1 „ . .	28	6·8	5·5	295	30	6·4	5·1	280	31	6·3	4·9	279	28	3·9	2·0	250	31	4·0	3·4	252	31	4·3	3·4	242
3·0 „ . .	28	9·3	8·4	278	28	9·7	8·8	284	28	9·0	8·0	281	26	9·4	8·5	258	27	9·4	8·4	265	30	8·5	8·0	268
3·6 „ . .	27	10·4	9·6	279	28	12·8	11·6	276	22	10·4	9·8	277	21	11·7	11·1	263	13	12·3	11·7	272	14	12·1	11·7	272
4·5 „ . .	26	14·3	13·5	276	26	15·9	14·9	276					13	13·7	13·3	256	6	17·2	16·6	272	2	14·7	14·6	266
5·4 „ . .	19	18·2	17·5	279	23	18·9	18·3	276					5	17·2	12·4	246	3	24·2	23·7	270	2	20.8	20·3	286
6·0 „ . .	19	21·8	20·8	276	21	22·3	21.7	278					2	18.3	18.3	260	3	27·2	27·2	266	2	21·1	20·2	286
7·2 „ . .	13	27·3	26·7	273	16	29·9	29·0	277					2	33·9	33·5	268	2	28·1	28·1	270				
9·0 „ . .	6	35·0	34·6	280	4	36·8	36·0	259									1	44·1	44·1	260				

Station	JABALPUR												JAGDALPUR											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·0	0·6	130	31	1·3	0·8	030	31	1·0	0·7	116	31	9.1	0·1	045	31	1·1	0·5	331	31	0·3	0·1	042
0·15 a. g. .	31	4·3	2·4	098	30	2·6	1·3	019	31	5·1	2·9	068	30	3·1	1·6	070	31	3·5	1.4	351	31	4·4	2·9	050
0·3 a.m.s.l. .																								
0·6 „ . .	31	4·9	2·7	096	30	2·7	1·5	022	31	5·4	3·0	067	30	1·5	0·8	071	31	2·4	1·0	349	31	2·7	1·5	051
0·9 „ . .	29	5·5	1·3	093	30	2·9	1·5	359	31	4·6	1·7	051	30	3·9	2·1	079	31	3·7	1·6	343	31	4·8	3·3	049
1·5 „ . .	27	6·2	3·1	279	28	4·4	3·4	297	29	4·8	3·0	277	28	3·8	1·6	321	31	3·1	1·9	349	31	3·4	1·9	003
2·1 „ . .	26	7·9	7·2	281	28	7·7	6·7	280	29	7·5	6·3	277	26	5·8	4·1	296	28	3·5	2·1	342	29	4·3	1·9	304
3·0 „ . .	26	10·7	9·9	277	25	11·8	11·1	277	28	10·3	9·4	275	24	7·7	5·9	300	26	6·0	3·9	296	26	7·3	6·0	290
3·6 „ . .	23	13·4	12·7	283	23	13·0	12·4	282	18	11·4	10·8	273	22	8·5	6·8	279	23	8·3	6·8	278	17	10·6	8·2	272
4·5 „ . .	17	14·2	13·3	280	21	15·0	14·6	282	3	8·9	8·9	255	13	12·4	10·4	255	21	13·7	12·1	275	6	12·4	11·8	269
5·4 „ . .	8	14·3	13·9	275	21	19·0	18·5	280					12	15·1	13·7	255	17	17·1	15·7	265	1	12·4	12·4	260
6·0 „ . .	5	15·0	14·5	279	20	21·6	21·0	275					8	16·5	15·0	277	14	18·2	17·5	261				
7·2 „ . .					14	28·5	27·9	273					2	17·2	16·9	260	11	20·8	20·1	272				
9·0 „ . .					4	36·0	35·4	266									9	24.9	24·2	265				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Station	JAIPUR												JAMSHEDPUR								JHARSUGUDA			
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·8	1·5	050	31	2·1	0·6	322	31	1·8	1·4	030	31	0·8	0·6	300	31	0·9	0·6	330	31	1·9	1·4	029
0·15 a.g.	30	5·5	3·9	070	31	3·6	1·1	316	31	5·4	3·0	047	30	2·8	1·6	828	31	2·1	1·2	342	29	4·8	3·5	047
0·3 a.m.s.l.													30	2·8	1·4	345	31	2·1	1·2	345	29	4·6	3·8	035
0·6 ,,	30	5·9	3·5	070	31	3·4	1·3	323	31	5·6	2·9	050	30	2·8	1·5	007	31	2.4	1·6	344	29	3·6	1·7	060
0·9 ,,	30	4·6	1·1	359	31	3·7	1·3	316	31	4·4	0·9	040	30	2·9	1·5	320	31	2·6	1·9	320	29	3·2	0·4	310
1·5 ,,	30	5·3	3·4	299	31	4·2	2·1	311	31	4·0	1·3	278	30	5·1	4·5	288	31	5·7	5·0	297	28	4·7	3·7	288
2·1 ,,	30	5·7	4·8	303	31	5·4	3·3	296	31	5·3	3·8	272	29	7·9	7·4	290	31	7·3	6·8	294	28	7·4	6·4	294
3·0 ,,	30	8·1	6·8	284	30	7·7	5·9	277	31	7·1	6·0	274	26	10·6	9·7	285	30	10·9	10·1	287	24	9·2	8·5	290
3.6 ,,	24	9·1	8·0	287	30	10·4	9·3	279	29	10·0	8·9	273	11	11·6	11·0	277	20	12·0	11·1	285	17	11·5	10·7	282
4·5 ,,	13	12·1	9·8	285	28	14·7	13·7	275	15	12·0	10·4	272	3	16·7	16·3	279	8	16·9	15·3	287				
5·4 ,,	7	14·3	13·2	286	26	17·1	16·3	277	10	15·1	14·8	288					4	22·7	22·5	298				
6·0 ,,	3	15·3	15·2	284	25	21·6	20·6	276	5	17·8	14·8	284					4	25·2	25·0	304				
7.2 ,,					20	26·6	25·5	275	2	17·0	16·7	263					1	38·5	38·5	305				
9·0 ,,					9	28·9	27·3	276																

Station	JHARSUGUDA								JODHPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	0·5	321	31	1·1	0·6	355	31	3·2	2·8	332	31	1·9	1·1	060	31	3·1	0·7	009	31	2·7	1·7	034
0·15 a.g.	31	2·5	0·9	320	31	3·9	1·0	013	31	6·8	5·8	060	30	2·8	1·6	070	31	5·9	4·2	023	31	5·3	4·6	018
0·3 a.m.s.l.	31	2·5	0·9	309	31	3·2	1·1	026	29	6·5	5·6	055	31	2·6	1·6	060	31	5·7	4·0	019	31	5·6	3·8	036
0·6 ,,	31	2·3	1·0	308	31	3·8	1·0	344	29	5·8	4·0	048	30	3·7	1.9	073	31	4·6	2·1	014	31	5·3	2·4	045
0·9 ,,	31	2·5	1·1	304	31	3·3	0·8	309	30	5·1	2·2	030	30	4·1	1·2	066	31	3·9	1·6	015	31	4·3	2·0	056
1·5 ,,	31	4·0	3·2	307	31	4·0	2·0	309	30	5·7	2·4	300	31	4·6	1·0	320	31	4·1	1·3	349	31	4·3	0·7	097
2·1 ,,	31	7·4	6·4	298	31	6·7	5·5	289	31	6·0	3·9	310	31	5·1	2·0	269	31	5.7	3·2	297	30	5·5	3·0	282
3·0 ,,	31	9·3	8·2	285	30	9·7	8·7	283	31	8·5	6·4	290	30	8·1	5.6	270	31	8·5	7·8	280	26	8·1	6·9	285
3·6 ,,	29	11·0	10·3	286	21	11·7	11·3	273	31	11·8	10·5	280	30	10·5	8·1	275	31	11·1	10·3	278	9	8·9	8·3	290
4·5 ,,	20	15·6	14·9	276					31	15·5	14·3	280	29	14·3	12·1	275	31	14·7	13·8	279	1	13·4	13·4	285
5·4 ,,	5	21·6	20·2	286					31	18·6	17·5	278	25	17·5	16·4	278	30	19·2	18·8	279				
6·0 ,,	1	33·9	33·9	305					30	22.3	21·1	280	25	19·7	19·0	278	30	21·7	20·6	276				
7·2 ,,									27	27·6	26·5	280	19	25·3	23·6	277	28	29·7	24·8	276				
9·0 ,,									23	39·6	37·3	270	3	23·5	23·5	265	22	36·2	35·0	222				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January, 1960 (Pausa 11 —Magha 11, 1881 Saka)

Station	MADRAS																MINICOY							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·3	1·2	032	31	4·9	4·4	038	31	5·0	4·8	059	31	2·3	2·0	030	31	2·1	1·2	021	31	3·1	2·3	011
0·15 a. g. . .	30	7·3	6·8	061	31	5·9	5·5	043	31	8·9	8·5	064	31	6·0	5·6	052	31	3·1	2·0	013	30	4·6	3·9	017
0·3 a.m.s.l. . .	30	6·9	6·5	060	31	6·1	5·8	046	31	8·3	8·0	060	31	6·7	6·3	054	31	3·1	2·1	020	30	4·6	3·8	017
0·6 ,, . .	30	6·4	6·1	059	30	6·1	5·1	042	31	7·7	7·4	053	31	7·1	6·9	056	31	3·4	2·3	036	30	4·6	3·8	022
0·9 ,, . .	30	6·7	6·5	058	29	6·7	6·4	048	31	7·5	6·9	053	30	7·4	7·2	058	31	3·7	2·7	058	30	4·1	3·1	039
1·5 ,, . .	31	6·8	6·2	059	23	7·2	6·9	060	31	7·2	6·4	056	30	6·7	5·9	064	31	4·3	3·5	067	30	3·5	2·4	061
2·1 ,, . .	31	6·1	4·7	066	15	6·5	5·0	061	31	5·9	4·0	054	26	6·1	4·7	060	30	3·8	2·5	080	30	3·7	1·5	044
3·0 ,, . .	30	4·3	0·7	127	11	3·5	1·1	123	31	4·4	0·4	070	21	4·5	2·1	082	28	3·7	0·8	026	28	4·1	0·9	057
3·6 ,, . .	30	5·3	1·1	185	10	5·3	1·9	230	30	5·1	0·4	170	11	5·8	2·6	077	22	4·3	1·4	059	24	4·5	1·3	031
4·5 ,, . .	30	5·7	1·3	232	8	7·1	1·3	250	29	6·4	2·1	271	5	6·3	2·2	067	16	4·1	1·3	082	20	6·4	2·0	052
5·4 ,, . .	29	6·5	2·0	277	6	7·5	2·0	250	26	6·2	2·7	279	3	7·9	5·7	110	4	5·8	4·2	083	20	6·8	2·3	080
6·0 ,, . .	29	7·5	2·5	284	6	8·0	1·5	216	26	7·5	2·6	258	3	9·3	7·9	105	4	9·0	7·4	064	20	7·7	3·7	109
7·2 ,, . .	27	8·7	4·2	285	4	9·1	4·1	163	24	8·3	4·2	089	2	11·8	9·7	105					15	6·4	1·6	116
9·0 ,, . .	24	12·0	8·4	250	1	10·3	10·3	155	23	12·3	7·5	251	2	11·6	10·8	144					13	7·3	1·6	160

Station	MINICOY				MOHANBARI												NAGPUR							
Time in I. S. T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·3	1·8	025	31	0·1	0·1	045	31	2·1	2·1	360	31	CALM			31	0·7	0·5	022	31	1·5	0·7	073
0·15 a. g. . .	31	4·1	3·2	028	29	3·8	3·4	128	31	1·8	1·1	030	31	2·5	2·0	031	31	5·9	4·5	074	31	3·0	0·8	099
0·3 a.m.s.l. .	31	4·0	3·0	033	29	3·6	3·3	018	31	1·6	1·0	030	31	2·3	1·7	042								
0·6 ,, . .	31	4·0	3·4	037	29	2·9	2·5	042	31	1·5	0·9	075	31	1·5	1·2	053	31	5·7	4·1	081	31	3·4	1·8	114
0·9 ,, . .	31	3·9	3·2	052	29	2·7	2·0	042	31	1·7	1·1	072	31	2·0	1·6	057	31	5·0	3·1	111	31	4·1	2·2	158
1·5 ,, . .	31	4·0	2·8	068	29	2·5	1·2	073	31	2·4	1·0	154	31	2·2	0·7	151	31	5·9	3·5	235	29	5·5	3·8	245
2·1 ,, . .	28	4·2	2·8	068	28	2·5	0·9	127	31	3·7	3·1	195	31	3·2	2·1	203	31	7·7	6·2	263	27	6·7	5·7	267
3·0 ,, . .	27	3·7	1·2	050	23	3·1	2·0	192	29	4·9	3·5	203	29	4·9	4·1	229	31	9·2	7·9	275	23	8·2	7·3	286
3·6 ,, . .	23	4·8	1·3	031	22	5·7	4·2	249	25	6·6	5·4	231	7	6·2	5·0	256	31	10·4	9·2	276	23	9·6	8·7	288
4·5 ,, . .	14	5·4	1·8	039	17	15·3	14·7	258	21	13·8	13·6	248					31	15·4	11·7	276	21	11·9	11·1	284
5·4 ,, . .					14	19·8	19·4	263	19	23·8	23·5	255					31	17·0	15·8	271	21	16·2	14·9	286
6·0 ,, . .					7	18·5	18·3	267	18	26·7	26·2	267					31	19·9	17·7	270	20	20·0	18·4	279
7·2 ,, . .					1	22·1	22·1	265	10	31·0	30·0	263					31	26·3	25·2	265	18	23·4	22·3	272
9·0 ,, . .									3	30·8	30·7	257					30	30·7	29·4	261	7	26·2	24·5	262

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

January, 1960 (Pausa 11— Magha 11, 1881 Saka)

Station	NAGPUR								NANPARA								NEW DELHI							
Time in I. S. T.	1730*				2330				0530				1730				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·2	0·8	062	31	1·3	1·1	051	31	1·4	0·6	298	31	1·3	0·3	238	31	1·1	0·6	315	31	2·7	1·3	309
0·15 a. g. . .	31	3·4	2·3	057	31	6·4	5·2	070	30	5·1	2·3	329	31	4·8	2·0	257	31	4·7	1·9	334	31	4·0	1·7	314
0·3 a.m.s.l. .									30	5·1	2·3	328	31	4·8	3·8	258	31	5·3	2·6	336	31	3·9	1·5	305
0·6 „ . .	31	2·9	1·7	052	31	5·9	4·6	075	30	5·9	1·8	320	31	4·8	1·9	214	31	5·1	1·4	301	31	4·9	2·5	314
0·9 „ . .	31	2·5	0·4	056	31	4.2	2·6	077	30	5·8	0·8	313	31	4·9	1·8	266	31	5·2	2·5	317	31	5·6	3·0	310
1·5 „ . .	31	4·0	2·4	262	31	4·1	1·7	259	29	4·5	0·8	323	30	4·7	1·0	285	31	5·8	3·7	301	31	5·2	2·7	299
2·1 „ . .	31	6·8	5·3	270	27	6·9	5·7	267	29	4·7	2·0	311	30	4·6	2·0	311	31	5·5	3·8	296	29	5·7	3·0	301
3·0 „ . .	31	8·4	7·3	266	25	7·8	6·8	265	27	6·2	4·3	293	29	6·0	5·1	297	31	6·3	4·3	297	28	6·1	4·0	298
3·6 „ . .	31	9·6	8·8	269	16	8·7	8·2	261	24	6·6	5·5	287	25	7·8	7·0	291	31	7·2	4·8	286	27	8·3	5·9	287
4·5 „ . .	31	13·2	12·4	269	5	7·2	7·1	280	21	10·8	9·8	275	24	12·5	11·6	281	31	9·9	8·1	278	26	11·5	10·1	278
5·4 „ . .	31	17·2	16·0	268	3	10·7	10·5	289	15	13·6	13·6	267	21	16·9	16·0	281	31	13·2	12·1	276	25	15·5	14·4	279
6·0 „ . .	31	19·5	18·3	271	1	10·8	10·8	270	10	17·7	17·2	266	19	21·5	21·0	280	31	17·6	15·3	276	25	18·5	17·1	280
7·2 „ . .	30	27·9	26·3	268					5	15·5	15·3	277	14	27·8	26·6	276	31	22·5	21·3	275	19	24·1	23·4	277
9·0 „ . .	28	33·5	30·6	263					2	17·8	17·3	299	4	29·5	29·4	272	30	33·0	31·9	274	10	34.2	33·1	273

Station	NEW DELHI								POONA												PORT BLAIR			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·4	1·0	319	31	2·1	1·3	325	31	0·3	0·1	183	31	1·0	0·5	272	31	0·4	0·3	245	31	2·3	1·9	061
0·15 a.g. . .	31	4·4	2·5	323	31	5·3	3·2	350	31	2·7	1·5	087	31	3·1	1·4	280	31	3·2	1·8	288	31	8·1	7·2	058
0·3 a.m.s.l. .	31	4·2	2·3	324	31	4·9	3·1	347													31	8·0	7·3	060
0·6 „ . .	31	4·1	2·6	323	31	5·0	2·9	330	31	1·5	0·9	190	31	2·2	0·9	298	31	1·7	1·0	246	31	7·9	6·9	077
0·9 „ . .	31	4·0	2·6	320	31	4·8	2·6	319	31	4·2	2·5	073	31	3·3	1·2	281	31	4·2	2·0	304	31	8·0	6·9	097
1·5 „ . .	31	4·8	3·0	300	31	5·3	2·9	280	31	4·7	1·9	141	31	2·7	1·1	218	31	4·0	0·6	148	31	8·2	7·3	108
2·1 „ . .	31	5·7	3·7	290	29	5·3	3·3	286	30	4·9	3·9	175	31	2·8	1·5	205	31	4·6	3·3	142	31	6·7	5·9	116
3·0 „ . .	31	6·8	4·4	290	26	6·4	5·1	284	29	3·8	4·3	258	29	4·0	1·4	242	30	4·5	2·3	208	31	5·3	3·1	126
3·6 „ . .	31	8·5	6·0	282	8	7·3	5·3	263	23	8·2	6·8	286	28	5·5	2·9	272	24	5·9	4·1	268	31	5·1	3·0	120
4·5 „ . .	31	11·2	9·3	285	1	8·7	8·7	265	11	10·0	9·6	295	28	9·2	7·3	271	13	8·9	8·4	278	31	5·3	2·0	130
5·4 „ . .	31	15·2	13·1	282					2	17·2	16·2	293	26	12·7	10·7	270	6	11·9	11·1	274	31	5·9	2·3	108
6·0 „ . .	31	17·0	15·4	282									24	17·3	15·6	275	2	5·7	5·6	243	31	6·2	1·7	118
7·2 „ . .	31	22·9	20·7	276									22	21·3	19·7	265					31	7·3	2·4	171
9·0 „ . .	31	31·4	29·9	274									13	21·1	20·2	269					27	7·5	3·1	284

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Station	PORT BLAIR												RAIPUR											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·3	3·0	055	31	2·9	2·8	055	31	2·9	2·5	053	31	1·3	0·9	036	31	1·3	1·0	008	31	1·9	1·2	048
0·15 a. g.	31	5·3	4·8	061	31	7·2	6·7	057	31	5·4	4·7	059	26	4·7	3·3	072	31	2·9	2·1	005	31	4·6	3·5	057
0·3 a.m.s.l.	31	5·6	5·1	064	31	7·3	6·8	060	31	5·7	5·0	059												
0·6 ,,	31	6·3	5·7	076	31	6·6	6·0	066	31	6·0	5·1	071	26	4·5	2·8	080	31	2·9	2·0	006	31	4·3	3·0	054
0·9 ,,	31	6·6	6·0	084	31	6·9	6·2	080	30	6·2	5·3	086	26	3·1	0·9	089	31	2·7	1·5	006	31	3·5	1·7	040
1·5 ,,	29	6·9	5·7	099	31	6·8	5·8	099	28	5·6	4·8	097	25	4·4	2·6	267	31	3·9	2·6	293	30	3·7	1·9	287
2·1 ,,	28	6·2	5·1	108	31	5·9	4·5	105	25	4·6	3·4	096	25	7·8	6·5	258	29	7·5	6·4	287	30	5·8	4·3	279
3·0 ,,	24	4·6	2·9	115	31	5·3	3·0	102	19	4·2	2·6	092	24	9·9	9·2	279	28	8·6	7·8	288	30	8·2	6·8	278
3·6 ,,	24	4·4	2·1	123	30	5·5	2·1	122	14	4·4	2·0	109	21	11·5	10.5	280	27	10·0	9·2	282	23	9·3	8·2	277
4·5 ,,	19	4·3	2·1	128	30	5·6	2·6	114	10	4·3	0·4	061	5	10·9	9·8	269	24	13·8	12·9	276	2	8·5	7·9	319
5·4 ,,	17	6·0	2·9	127	30	6·6	3·5	112	4	6·8	1·5	043	1	12·9	12·9	235	22	16·7	15·4	270	1	12·9	12·9	280
6·0 ,,	15	5·0	4·0	112	30	6·9	3·1	120	3	5·7	1·3	176					20	21·3	19·8	270	1	19·0	19·0	270
7·2 ,,	9	7·2	5·1	188	29	6·8	3·6	140									11	28·7	27·5	259				
9·0 ,,	6	10·1	8·8	181	24	8·2	2·3	178									4	26·0	25·2	261				

Station	RAXAUL								SANTA CRUZ															
Time in I.S.T.	0530				1730				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·2	0·1	320	31	0·8	0·7	241	31	0·5	0·3	034	31	1·3	0·6	045	31	3·9	0·4	323	31	2·0	1·7	009
0·15 a.g.	27	3·9	2·4	299	31	4·3	3·7	262	31	5·0	4·1	032	31	2·5	1·2	073	31	6·0	5·3	317	31	5·6	4·8	356
0·3 a.m.s.l.	27	4·1	3.0	294	31	4·3	3·7	264	31	5·0	4·0	037	31	2·6	1·6	082	31	4·8	3·8	322	31	5·5	3·0	352
0·6 ,,	27	4·3	2·3	294	31	4·3	3·4	268	31	4·3	2·8	051	31	3·3	1·6	090	31	3·1	1·1	331	31	3·8	3·1	347
0·9 ,,	27	3·6	1·2	272	31	4·1	2·6	271	31	3·6	1·0	149	31	3·5	1·0	108	31	3·3	0·4	254	31	2·9	1·4	345
1·5 ,,	27	3·8	0·1	231	31	3·7	0·7	275	31	5·0	2·7	200	30	4·7	2·8	194	31	4·6	2·7	203	31	4·1	1·7	186
2·1 ,,	25	5·1	2·1	250	28	4·8	1·9	312	31	7·1	5·2	190	30	6·1	5·1	197	31	5·7	3·7	200	30	5·7	3·6	180
3·0 ,,	18	7·2	6·9	284	23	7·4	5·7	280	31	6·7	4·6	236	29	6·0	4·0	251	31	5·3	2·8	257	28	5·1	2·9	229
3·6 ,,	12	9·2	8·9	284	21	9·7	9·2	279	31	7·8	5·7	275	27	6·9	5·2	288	31	6·6	4·9	278	16	5·8	3.9	253
4·5 ,,	5	15·4	15·0	288	18	12·9	12·5	275	31	11·0	9·3	282	26	10·1	8·1	278	31	10·3	8·7	272	5	9·2	7·4	251
5·4 ,,	2	16·5	15·4	294	13	16·2	15·4	279	31	15·0	13·8	281	25	13.9	11·9	271	31	14·5	12·9	271	2	10·8	10·0	281
6·0 ,,					10	19·6	19·0	274	31	16·9	15·4	276	24	16·1	15·0	264	31	17·5	15·9	272				
7·2 ,,					7	28·2	26·8	268	31	23·0	21·0	270	20	22·5	21·4	263	31	21·6	19·5	264				
9·0 ,,									26	26·8	25·6	269	10	25·6	24·8	260	23	26·2	24·2	264				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Station	TEZPUR												TIRUCHIRAPALLI											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·3	0·3	070	31	0·1	0·1	245	31	0·1	0·1	022	31	3·1	2·7	024	31	4·3	3·9	070	31	3·2	3·0	054
0·15 a.g. .	29	3·6	2·8	072	31	3·2	2·4	044	31	3·0	2·3	073	31	7·9	7·7	026	31	6·9	6·7	063	31	8·3	8·1	053
0·3 a.m.s.l. .	29	3·6	3.0	078	31	3·4	2·4	047	31	2·9	2·1	076	31	8·7	8·3	029	31	7·3	7·0	061	31	9·3	8·8	053
0·6 „ . .	29	4·0	3·0	083	31	3·1	2·0	057	31	2·6	1·0	083	31	8·5	8·2	043	31	8·0	7·7	054	31	10·7	10·4	052
0·9 „ . .	29	4·3	3·0	082	31	3·0	1·4	095	31	2·6	0·7	095	29	7·8	7·5	047	31	7.9	7·7	045	31	9·0	8·9	047
1·5 „ . .	29	4·3	3·0	088	31	3·9	2·0	142	31	3·0	0·3	304	29	5·9	5·0	045	30	7·1	6·8	036	31	6·0	5·4	040
2·1 „ . .	28	4·7	3·0	073	31	4·8	0·9	183	29	4·0	0·1	015	29	4·5	3 5	056	29	5·0	4·1	032	31	4·8	3·3	046
3·0 „ . .	26	5·9	3·4	083	31	6·5	4·3	252	26	6·5	4·3	260	28	3·5	1·8	117	27	4·0	2·0	031	29	4·0	1·4	089
3·6 „ . .	20	8·7	7·4	267	27	9·6	8·7	267	12	12·0	9·7	261	23	4·0	1·2	127	25	4·8	1·2	071	26	4·8	1·9	092
4·5 „ . .	14	14·7	13·1	268	19	16·4	16·3	267	3	14·1	14·1	270	18	3·2	0·1	093	21	4·8	0·1	082	16	5·8	0·8	059
5·4 „ . .	11	19.6	19·2	268	14	20·3	19·8	270	2	12·1	11·9	279	13	4·5	1·0	133	21	6·4	0·8	008				
6·0 „ . .	9	23·2	22·0	268	10	24·2	23·3	264	1	16·0	16·0	280	10	4·6	1·0	027	18	5·7	1.7	263				
7·2 „ . .	4	24·0	23·6	261	4	28·9	27 9	286					3	4·8	2·9	119	13	5·5	3·1	314				
9·0 „ . .	1	55·0	55·0	270	2	32·1	32·0	275					1	2·1	2·1	125	8	10·1	5·3	275				

Station	TRIVANDRUM																UDAIPUR							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·1	0·7	014	31	1·6	0·7	290	31	2·4	1·8	251	31	1·2	0·4	047	31	CALM			31	1·0	0·2	065
0·15 a.g. .	31	2·1	1·2	358	31	1·7	0·6	279	31	3·6	3·3	257	30	2·0	0·7	267	31	2·4	1·7	017	31	2·7	1·2	075
0·3 a.m.s.l. .	31	2·1	1·2	001	31	1·7	0·5	277	31	3·6	3·2	253	30	1·9	0·8	248								
0·6 „ . .	31	2·0	1·2	048	31	1·6	0·6	040	31	2·3	1·0	237	30	2·1	0·4	296								
0·9 „ . .	31	2 3	1·6	060	30	2·3	1·6	049	31	2·9	1·9	048	30	3·0	2·1	057	31	3·4	2·1	038	31	3·0	1·3	061
1·5 „ . .	31	2·5	1·2	046	26	2·8	2·1	035	31	4·7	4·5	048	29	6·0	5·8	059	31	4·6	0·5	313	31	363	1·0	334
2·1 „ . .	31	3·1	1·1	040	23	2·6	1·9	076	31	3·4	3·0	048	26	3·7	3·0	059	31	6·3	4·1	283	31	5·3	3·8	288
3·0 „ . .	31	3·5	1·9	091	18	4·0	1·2	069	31	3·8	1·7	051	20	3·4	0.9	086	31	9·4	8·1	260	29	9·9	9 1	276
3·6 „ . .	31	4·0	1·7	098	16	4·2	1·2	064	31	4·0	1·4	060	11	3·5	1·2	147	24	12·7	11·1	274	29	12·1	11·2	275
4·5 „ . .	31.	4·7	1·5	050	14	5·1	1·1	045	31	5·3	1·6	057	6	4·9	1·9	122	12	17·8	16.7	268	29	15·6	14 4	275
5·4 „ . .	31	5·4	2·1	087	12	6·7	1·8	111	31	6·5	2·0	064	2	7·7	5·6	091	1	20·6	20·6	235	28	20·3	19·5	275
6·0 „ . .	31	6·2	2·3	095	10	6·2	2·1	089	31	6·1	2·4	086									26	22·9	22·1	273
7·2 „ . .	31	6·3	2·2	054	4	9·1	7·7	106	31	7·1	2·7	080									20	28·1	26·8	277
9·0 „ . .	29	7·2	3·3	148	1	7·7	7·7	150	30	7·9	2·3	156									8	34.9	33·8	261

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Station	UDAIPUR				VENGURLA												VERAVAL							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·3	0·2	353	31	0·9	0·8	022	31	2·3	1·9	273	31	1·0	1·0	347	31	6·5	4·5	034	31	5·0	4·2	039
0·15 a. g. .	31	3·2	2·0	024	31	4·7	3·5	025	31	4·0	3·6	277	31	5·5	5·3	357	31	8·5	7·8	036	31	4·6	4·0	040
0·3 a.m.s. l. .					31	5·4	3·9	020	31	4·6	3·8	274	31	6·0	5·9	348	31	8·5	7·8	034	31	4·9	4·2	048
0·6 ,, .					31	5·6	2·6	038	31	3·0	1·7	265	31	5·0	4·7	341	31	6·0	5·4	033	31	4·7	3·5	042
0·9 ,, .	31	4·3	2·3	036	31	5·4	2·0	054	31	2·6	0·8	075	31	4·1	2·9	340	31	4·2	3·0	021	31	4·1	2·7	031
1·5 ,, .	31	4·1	1·2	096	31	4·7	3·0	123	31	3·9	2·2	091	31	9·3	1·5	082	31	4·2	2·1	348	31	4·1	1·4	343
2·1 ,, .	29	4·5	2·6	267	31	4·7	4·0	136	31	5·3	3·5	086	31	6·1	5·1	103	31	5·5	2·7	233	31	4·7	1·4	296
3·0 ,, .	28	9·1	8·0	269	28	3·8	1·5	229	31	4·8	1·2	025	31	4·4	1·9	119	31	7·8	5·8	277	29	6·8	4·4	288
3·6 ,, .	22	11·6	10·5	272	10	5·9	4·3	288	31	5·6	2·3	298	10	4·3	1·2	127	27	9·5	7·3	268	29	8·9	6·2	280
4·5 ,, .	17	15·1	14·4	280	3	12·0	6·3	245	31	7·5	4·4	268	2	5·1	4·5	280	27	12·2	8·2	279	29	11·7	9·7	279
5·4 ,,	7	21·1	19·4	278					28	10·3	7·4	257					27	15·1	14·4	262	29	15·3	12·7	275
6·0 ,, .	2	21·4	21·1	288					28	13.3	9·9	259					27	17·5	16·9	266	29	17·1	14·8	275
7·2 ,, .									18	16·8	12·6	259					26	23·6	22·2	269	27	23·9	20·8	269
9·0 ,, .									7	14·6	13·9	258					14	25·6	24·5	272	20	31·2	29·4	259

Station	VERAVAL								VISAKHAPATNAM											
Time in I.S.T.	1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5·8	2·7	295	31	4·1	3·7	010	31	0·3	0·2	027	31	4·1	4·0	095	31	0·9	0·7	060
0·15 a. g.	31	6·6	3·6	320	31	9·3	8·6	015	31	2·3	1·9	037	31	5·5	5·3	096	31	3·0	2·7	070
0·3 a.m.s. l. .	31	5·6	3·1	342	31	9·7	8·7	015	31	3·1	2·8	065	31	5·6	5·3	094	31	3·5	3·3	081
0·6 ,, .	31	4·3	2·6	005	31	8·5	7·5	024	31	3·4	3·1	072	31	4·4	3·8	071	31	3·8	3·4	081
0·9 ,, .	31	4·7	3·3	020	31	6·4	5·6	032	31	3·5	2·9	060	31	3·6	3·1	056	31	3·3	2·6	060
1·5 ,, .	31	4·4	2·6	010	31	4·7	2·4	047	31	4·7	2·3	020	30	4·9	3·7	001	29	4·1	2·5	015
2·1 ,, .	31	5·0	2·5	308	31	5·0	1·4	283	31	4·4	1·4	330	30	5·8	3·9	331	29	4·3	2·3	330
3·0 ,, .	31	6·6	4·8	280	31	6·4	4·4	266	31	5·9	3·8	271	31	6·9	5·1	302	25	6·8	4·8	273
3·6 ,, .	31	8·6	7·1	276	26	7·6	5·9	276	25	8·1	6·0	259	31	8·7	6·7	280	17	8·0	5·7	255
4·5 ,, .	31	11·3	9·7	274	12	11·3	9·2	269	19	10·3	7·6	265	28	12·4	10·6	264	8	7·7	5·5	271
5·4 ,, .	31	14·6	13·3	273	6	15·3	12·2	259	12	8·3	7·1	263	25	15·5	13·5	269	3	5·7	1·4	338
									7	10·2	9·6	261								
6·0 ,, .	30	17·3	15·7	272	3	14·1	14·1	251	5	13·4	11·8	266	24	16·7	15·1	271	1	7·2	7·2	060
7·2 ,, .	29	21·8	20·2	270					1	11·8	11·8	265	21	18·6	16·4	275				
9·0 ,, .	21	24·9	23·2	275									12	22·2	21·2	269				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

January, 1960 (Pausa 11— Magha 11, 1881 Saka)

Ht. in Km.	n	V	v	D
		AHMEDABAD		
		1730 hrs.		
10·5	4	39·5	38·5	272
		AMRITSAR		
		0530 hrs.*		
10·5	9	24·7	22·9	262
12·0	6	30·1	25·3	070
14·1	3	46·2	41·4	280
16·2	1	77·1	77·1	280
		1730 hrs.*		
10·5	16	37·2	35·6	274
12 0	10	41·7	40·3	259
14·1	2	60·6	60·4	287
		ANANTAPUR		
		1730 hrs		
10·5	6	12·7	11·0	225
12·0	2	13·1	11·9	223
		BAIRAGARH		
		1730 hrs.		
10·5	1	22·1	22·1	290
		BAJPE		
		1730 hrs		
10.5	3	15·1	15·1	230
12·5	2	18·0	16·5	303
		BAMRAULI		
		0530 hrs.*		
10·5	25	42·5	41·4	261
12·0	16	42·9	41·6	260
14·1	8	45·3	44·3	268
		1130 hrs.		
10·5	1	33·9	33·9	265
		1730 hrs.*		
10·5	23	42·2	41·2	265
12·0	15	41·9	41·5	266
14·1	7	50·2	49·8	263
16·2	1	60·6	60·6	245

Ht. in Km.	n	V	v	D
		BANGALORE		
		1730 hrs.		
10·5	19	14·6	11·7	213
12·0	18	15·3	12·7	196
14·1	16	12·9	6·1	227
16·2	13	9·7	1·5	262
18·0	12	6·7	3·5	253
21·0	1	19·6	19·6	265
		BAREILLY		
		1730 hrs.		
10·5	2	12·4	12·3	266
12·0	2	17·5	17·5	263
14·1	1	34·9	34·9	270
		BEGUMPET		
		1730 hrs.		
10·5	4	12·4	11·3	248
12·0	1	13·4	13·4	255
14·1	1	8·7	8·7	270
		BHUBANESHWAR		
		1730 hrs.		
10·5	1	11·8	11·8	280
		BHUJ		
		1730 hrs.		
10·5	2	51·4	50·2	268
		BIKANER		
		1730 hrs.		
10·5	3	33·5	31·6	265
12·0	1	40·0	40·0	290
14·1	1	41·5	41·5	290
		COCHIN		
		1730 hrs.		
10·5	2	15·7	15·5	207
		DUMDUM		
		0530 hrs.*		
10·5	17	28·7	26·8	256
12·0	16	33·0	31·8	258
14·1	7	28·8	27·9	260*
		1730 hrs.*		
10·5	21	32·6	31·6	250
12·0	18	31·4	29·9	255
14·1	10	30·1	29·8	256
16·2	3	34·3	33·6	249
		2330 hrs.		
10·5	1	21·6	21·6	275
12·0	1	22·7	2·27	260

Ht. in Km.	n	V	v	D
		GADAG		
		1730 hrs.		
10·5	7	16·3	14·6	253
12·0	3	11·7	11·5	234
14·1	2	6·4	3·6	275
16·2	1	10·8	10·8	305
18·0	1	9·3	9·3	310
		GANNAVARAM		
		0530 hrs.		
10·5	3	18·9	17·2	219
		1730 hrs.		
10·5	10	20·9	20·0	244
12·0	8	17·1	16·5	236
14·1	2	19·8	19·4	278
		GAUHATI		
		0530 hrs.*		
10·5	19	57·3	56·5	262
12·0	12	60·6	59·2	258
14·1	3	53·5	53·3	254
16·2	1	50·7	50·7	260
		1130 hrs.		
10·5	1	74·9	74·9	275
		1730 hrs.*		
10·5	17	55·6	54·1	263
12·0	7	54·4	52·9	262
14·1	1	62·6	62·6	260
		GOPALPUR		
		1730 hrs.		
10·5	4	30·4	30·3	262
12·0	3	34·5	33·4	245
		GORAKHPUR		
		0530 hrs.		
10·5	1	38·5	38·5	275
		1730 hrs.		
10·5	1	72·3	72·3	260
		GWALIOR		
		0530 hrs.		
10·5	3	29·2	28·6	270
12·0	2	31·3	31·3	273

Ht. in Km.	n	V	v	D
		GWALIOR		
		1730 hrs.		
10·5	1	21·6	21·6	265
		JAGDALPUR		
		1730 hrs.		
10·5	4	28·7	28·4	267
12·0	2	32·3	31·9	245
		JAIPUR		
		1730 hrs.		
10·5	4	33·4	33·2	276
12·0	1	34·4	34·4	280
		JODHPUR		
		0530 hrs.*		
10·5	14	52·1	50·5	270
12·0	9	54·1	52·0	276
14·1	3	50·8	50·8	270
		1730 hrs.*		
10·5	16	47·7	45·2	275
12·0	9	50·1	43·3	276
14·1	4	47·9	47·2	267
16·2	2	35·7	35·2	279
		MADRAS		
		0530 hrs.*		
10·5	24	13·5	10·9	217
12·0	21	14·7	11·0	212
14·1	13	10·0	5·4	246
16·2	5	12·8	5·1	012
18·0	3	5·1	4·0	300
21·0	3	5·3	4·5	306
		1730 hrs.*		
10·5	21	14·7	11·4	210
12·0	24	14·8	11·3	199
14·1	19	12·2	7·7	226
16·2	11	10·0	3·3	235
18·0	1	9·8	9.8	300
		2330 hrs.*		
10.5	2	7·5	7·5	160
12·0	2	10·6	10·6	230
14·1	2	7·7	6·7	185
16·2	1	1·5	1·5	260
18·0	1	1·5	1·5	260

Ht. in Km.	n	V	v	D
		INICOY		
		1730 hrs.		
10·5	6	10·7	9·0	190
12·0	1	11·8	11·8	225
		MOHANBAR		
		1730 hrs.		
10 5	2	48·5	47·8	268
12·0	2	50·7	50·2	268
14·1	1	41·5	41·5	255
		NAGPUR		
		0530 hrs.*		
10·5	28	33·8	32·3	259
12·0	26	34·3	33·0	260
14·1	20	28·8	27·9	266
16·2	13	22·4	21·9	274
18·0	6	14·3	11·7	281
		1130 hrs.		
10·5	3	24·7	24·1	255
12·0	1	24·2	24·2	245
		1730 hrs.*		
10·5	24	34·2	32·5	263
12·0	21	34·7	33·5	260
14·1	17	31·4	30·2	266
16·2	15	28·2	26·9	267
18·0	11	21·5	20·1	260
21·0	5	28·9	27·3	270
		NANPARA		
		0530 hrs.		
10·5	1	19·6	19·6	275
		1730 hrs.		
10·5	2	25·2	25·0	275
		NEW DELHI*		
		0530 hrs.		
10·5	28	39·8	38·5	272
12·0	24	40·0	39·1	274
14·1	11	35·8	35·7	280
16·2	2	21·6	19·6	295
18·0	1	25·7	25.7	280
		1130 hrs.		
10·5	5	25·3	24·1	273
12·0	2	24·5	24·5	283

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Ht. in Km.	n	V	v	D
		NEW DELHI		
		1730 hrs.*		
10·5	30	38·9	38·1	272
12·0	23	36·5	35·2	277
14·1	14	39·5	38·0	280
16·2	3	25·9	25·9	283
		POONA		
		1730 hrs.*		
10·5	7	18·8	17·2	270
12·0	4	16·5	16·1	275
14·1	2	14·2	13·9	258
16·2	1	16·0	16·0	270
		PORT BLAIR		
		0530 hrs.*		
10·5	17	9·7	5·8	206
12·0	13	10·8	7·2	212
		1730 hrs.*		
10·5	17	9·9	7·5	196
12·0	9	12·3	10·0	202
14·1	6	20·3	16·0	158
16·2	1	5·1	5·1	345
		SANTA CRUZ		
		0530 hrs.*		
10.5	19	26·0	23·6	290
12·0	17	24·9	22·4	272
14·1	14	23·5	22·4	270
16·2	6	17·5	17·1	277
18·0	2	17·8	17·5	289
		1130 hrs.		
10·5	2	18·8	17·7	271
12·0	1	22·1	22·1	265
		1730 hrs.*		
10·5	17	24·2	22·4	258
12.0	13	20·2	19·8	270
14·1	9	19·8	18·0	266
16·2	5	18·6	17·8	275
18·0	2	12·9	12·4	265
		TEZPUR		
		0530 hrs		
10·5	1	72·8	72·8	[illegible]0
		1730 hrs.		
10·5	1	38·0	38·0	275

Ht. in Km.	n	V	v	D
		TIRUCHIRAPALLI		
		1730 hrs.		
10·5	2	14·9	14·7	225
		TRIVANDRUM		
		0530 hrs.*		
10·5	27	10·3	7·5	160
12·0	26	11·3	7·7	158
14·1	20	14·7	5·0	150
16·2	6	11·2	0·7	207
18·0	1	14·4	14·4	180
		1730 hrs*		
10·5	27	11·5	9·0	156
12·0	22	13·3	9·3	154
14·1	17	12·0	3·9	163
16·2	5	16·9	9·3	051
18·0	3	7·7	1·4	052
		UDAIPUR		
		1730 hrs.		
10·5	1	29·3	29·3	275
12·0	1	32·3	32·3	265
14·1	1	39·0	39·0	290
		VERAVAL		
		0530 hrs.*		
10·5	9	25·9	24·2	284
12·0	8	29·2	26·2	294
14.1	5	36·4	34·9	269
16·2	2	28·1	27·7	232
		1130 hrs.		
10·5	10	29·5	27·6	267
12·0	5	28·8	28·3	268
14·1	2	22·1	22·1	283
16·2	2	26·0	25·9	266
		1730 hrs.*		
10·5	16	21·1	19·5	280
12·0	9	22·5	20·3	275
14·1	6	22·3	21·9	261
16·2	3	14·4	14·2	265
18·0	3	10·5	10·5	267
		VISAKHAPATNAM		
		1730 hrs.		
10·5	4	14·7	14·3	241
12·0	1	13·9	13·9	210
14·1	1	18·0	18·0	205

RADIOSONDE DATA

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad	Clock type	1st October, 1944	00 and 12	
2	Amritsar	Clock type	21st June, 1957	00 and 12	
3	Bombay	Clock type	7th September, 1954	00 and 12	
4	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
5	Gauhati	Clock type	22nd July, 1955	00 and 12	
6	Jodhpur	Clock type	17th April, 1946	00 and 12	
7	Madras	Fan type	29th June, 1946	00 and 12	
8	Nagpur	Fan type	1st October, 1946	00 and 12	
9	New Delhi	Clock type	3rd December, 1943	00 and 12	
10	Port Blair	Fan type	4th December, 1949	00 and 12	
11	Trivandrum	Fan type	1st July, 1947	00 and 12	
12	Veraval	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 0000 hrs. G. M. T.

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (1005 mb.)						AMRITSAR (990 mb.)						BOMBAY (1011 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	98	283·1	290	279	281·0	17	230	278·6	284	276	277·4	31	13	290·8		286	286·6
1000	30	140	..	..	..	..	17	151	..	..	..	..	31	108	..	..	..	..
900	30	1065	287·0	292	282	273·1	17	1023	282·8	286	280	270·2	31	1021	293·2	297	290	276·2
850	30	1511	284·6	289	281	267·7	17	1496	280·6	284	274	267·7	31	1512	290·1	294	287	274·0
800	30	2016	282·0	286	279	263·2	17	1994	278·2	282	273	265·2	31	2024	286·6	291	283	272·5
700	30	3108	276·4	282	273	258·0	17	3072	271·5	275	265	259·5	31	3139	279·8	284	275	262·9
600	30	4342	269·3	275	263	..	17	4282	263·6	267	258	..	31	4393	273·2	278	270	248·8
500	30	5758	260·9	268	256	..	17	5668	254·1	258	250	..	31	5834	265·1	270	261	..
400	29	7431	251·2	259	244	..	17	7294	243·0	247	236	..	31	7541	255·8	263	249	..
300	29	9495	238·8	248	231	..	14	9292	229·2	240	222	..	29	9638	241·7	249	233	..
250	29	10750	231·3	239	221	..	14	10508	223·2	230	217	..	23	10918	234·5	243	227	..
200	28	12236	222·5	231	212	..	11	11959	219·1	224	212	..	22	12411	223·8	229	217	..
175	27	13106	218·2	227	208	..	10	12827	218·4	223	213	..	19	13278	217·7	223	210	..
150	25	14071	213·4	221	205	..	9	13813	216·9	221	213	..	19	14252	211·5	217	207	..
125	21	15189	208·9	215	201	..	8	14975	215·7	220	208	..	13	15355	204·5	207	200	..
100	16	16541	204·7	209	198	..	6	16369	217·5	221	215	..	10	16671	198·7	203	196	..
80	12	17851	202·3	209	197	..	..	..	..	..	..	..	7	17975	196·7	199	195	..

	CALCUTTA (1015 mb.)						GAUHATI (1011 mb.)						JODHPUR (991 mb.)					
Surface	30	6	285·4	290	282	283·7	31	49	283·2	287	281	281·7	31	218	284·6	289	279	274·7
1000	30	133	..	..	..	..	31	137	..	..	..	..	31	144	..	..	..	..
900	30	1025	285·7	290	281	274·7	31	1021	284·4	288	280	277·0	31	1031	285·7	290	282	269·6
850	30	1503	283·3	288	279	271·1	31	1497	281·4	286	275	272·6	31	1508	282·5	287	278	264·8
800	30	2006	281·1	285	275	268·0	31	1996	278·5	283	272	268·8	31	2009	279·5	283	274	260·6
700	30	3099	276·2	282	269	258·9	31	3076	272·8	280	268	259·7	31	3093	274·0	278	268	254·8
600	30	4336	270·1	278	263	..	31	4298	267·0	277	262	..	31	4320	268·0	272	264	..
500	30	5758	262·0	268	258	..	31	5706	259·6	272	251	..	31	5730	259·5	264	255	..
400	30	7444	253·0	259	246	..	31	7373	250·2	264	239	..	30	7394	248·7	253	244	..
300	23	9536	240·4	245	235	..	25	9415	238·3	248	230	..	27	9445	237·1	245	230	..
250	20	10797	231·7	237	227	..	22	10676	231·0	241	222	..	24	10693	230·3	239	222	..
200	17	12283	221·4	230	217	..	21	12150	221·8	230	213	..	20	12177	221·9	229	216	..
175	12	13142	215·3	219	211	..	16	13012	217·3	226	207	..	17	13034	217·4	224	209	..
150	9	14094	209·6	213	205	..	9	14029	213·0	223	207	..	14	14022	212·9	219	208	..
125	5	15218	203·0	208	199	..	6	15132	208·5	219	205	..	10	15138	209·3	213	206	..
100													8	16471	204·5	209	200	..
80													6	17779	201·8	209	195	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 0000 hrs. G. M. T.

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1011 mb.)						NAGPUR (979 mb.)						NEW DELHI (992 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	15	294·9	297	293	293·1	31	311	286·9	292	281	285·2	31	210	280·2	285	276	278·5
1000	31	114	..	..	..	..	31	132	..	..	..	..	31	147	..	..	..	..
900	31	1023	290·6	294	286	284·4	31	1030	289·9	293	281	278·5	31	1029	285·0	291	277	271·9
850	31	1511	288·5	292	285	279·1	31	1516	287·8	290	285	276·8	31	1505	282·2	287	274	267·6
800	31	2023	286·6	290	284	273·8	31	2027	284·7	287	282	274·5	31	2005	279·2	295	274	263·4
700	31	3138	281·3	284	277	265·0	31	3131	278·0	284	275	262·5	31	3088	272·7	278	265	254·2
600	31	4397	275·0	279	270	254·6	31	4375	271·6	277	268	237·6	31	4306	265·6	273	255	..
500	31	5849	266·9	271	264	..	31	5805	263·7	270	259	..	31	5702	256·9	263	248	..
400	26	7555	255·4	260	247	..	31	7501	254·1	261	248	..	31	7348	246·6	252	241	..
300	26	9648	239·8	246	231	..	31	9586	239·3	245	230	..	30	9375	234·3	242	226	..
250	25	10907	230·6	238	222	..	31	10843	230·4	235	224	..	28	10597	227·2	235	217	..
200	25	12380	219·5	227	211	..	31	12330	221·0	227	213	..	27	12062	220·9	230	212	..
175	19	13214	213·5	223	199	..	31	13169	215·3	222	204	..	26	12923	218·5	226	211	..
150	16	14171	206·9	219	199	..	30	14138	210·1	218	200	..	23	13888	215·0	225	208	..
125	13	15279	202·9	212	195	..	28	15254	204·7	213	196	..	19	15030	211·5	218	206	..
100	6	16698	200·1	205	195	..	25	16583	200·0	206	193	..	11	16375	205·9	211	202	..
80						..	16	17865	199·0	203	196	..	5	17719	204·6	209	200	..

	PORT BLAIR (1003 mb.)						TRIVANDRUM (1003 mb.)						VERAVAL (1013 mb.)					
Surface	31	079	297·3	301	292	294·9	31	64	297·7	299	296	294·0	31	8	290·1	297	285	279·8
1000	31	104	..	..	..	..	31	91	..	..	..	..	31	120	..	..	..	..
900	31	1022	292·2	295	288	290·4	31	1009	292·5	296	290	286·5	31	1027	290·6	295	281	276·0
850	31	1512	289·5	293	285	286.7	31	1500	290·2	293	288	282·2	31	1513	287·4	292	280	272·1
800	31	2028	287·2	291	283	280·7	31	2016	284·5	290	285	277·4	31	2024	255·0	290	279	266·1
700	31	3146	281·9	286	279	274·7	31	3133	281·8	286	278	267·3	31	3131	278·9	284	276	261·9
600	31	4407	275·0	279	271	268·3	31	4394	274·1	279	272	258·4	31	4379	272·2	275	268	259·1
500	31	5853	266·3	270	263	..	31	5843	266·9	271	262	..	31	5812	263·0	268	259	..
400	31	7562	255·2	262	249	..	31	7555	256·2	263	253	..	31	7503	253·9	260	248	..
300	27	9662	241·2	250	233	..	29	9651	241·0	247	233	..	27	9594	240·7	252	231	..
250	21	10913	230·1	242	221	..	29	10912	230·8	237	216	..	20	10849	230·5	236	219	..
200	19	12386	219·9	232	210	..	28	12383	220·3	230	205	..	16	12337	220·7	227	211	..
175	17	13260	213·6	230	197	..	26	13226	214·8	225	209	..	12	13219	215·1	222	207	..
150	15	14210	208·3	224	194	..	25	14204	209·2	219	195	..	11	14188	209·3	219	199	..
125	11	15347	203·9	221	193	..	24	15306	204·3	215	196	..	7	15307	206·0	215	199	..
100	7	16549	197·1	202	190	..	16	16695	200·0	209	194	..						
80							6	18006	202·3	207	197	..						

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 0000 hrs. G. M. T.

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1009 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	294·5	296	291	290·2
1000	31	129	..	..	..	..
900	31	1039	290·3	293	287	282·5
850	31	1526	287·9	291	284	279·5
800	31	2039	285·5	291	283	275·2
700	31	3148	279·9	285	276	267·8
600	31	4403	274·2	278	271	259·0
500	31	5850	265·3	271	259	..
400	31	7554	255·2	261	247	..
300	29	9649	241·1	248	235	..
250	26	10913	231·9	241	227	..
200	23	12404	220·8	233	213	..
175	21	13235	214·8	225	208	..
150	19	14191	208.0	214	201	..
125	12	15298	204·6	214	196	..
100	10	16636	200·2	209	191	..
80	7	17944	199·0	207	192	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 1200 hrs. G.M.T.

January, 1960 (Pausa 11 — Magha 11, 1881 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (1004 mb.)						AMRITSAR (990 mb.)						BOMBAY (1010 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew point
Surface	31	98	294·6	300	290	283·4	21	230	289·7	292	283	280·9	31	13	300·6	304	297	290·0
1000	31	133	..	..	..	..	21	142	..	..	..	..	31	100	..	..	..	..
900	31	1036	288·2	295	284	272·6	21	1033	285·3	290	277	271·6	31	1026	295·2	299	291	280·5
850	31	1517	285.4	291	281	265·9	21	1510	282·4	289	274	265·6	31	1521	291·8	295	289	277·2
800	31	2022	282·7	289	278	260·4	21	2009	278·9	286	270	261·6	31	2039	287·8	291	285	274·6
700	31	3119	277·3	286	271	248·8	21	3091	272·2	277	265	253·0	31	3156	281·3	287	278	264·8
600	31	4356	270·6	279	263	..	20	4307	265·1	271	260	..	31	4415	274·9	280	271	254·5
500	31	5777	261·8	269	255	..	20	5702	256·1	262	249	..	31	5865	266·7	272	260	..
400	30	7459	252·6	262	245	..	20	7342	244·1	251	237	..	31	7582	257·2	261	251	..
300	30	9539	241·0	247	234	..	18	9342	231·1	240	223	..	27	9700	243·5	250	238	..
250	29	10801	232·9	241	225	..	16	10564	226·3	237	214	..	25	10983	235·0	241	231	..
200	28	12293	223·9	231	217	..	15	12019	221·6	235	210	..	22	12475	225·2	232	221	..
175	24	13169	219·5	225	214	..	12	12925	220·3	233	210	..	18	13349	219·4	226	214	..
150	20	14146	215·2	220	208	..	12	13917	218·6	228	210	..	17	14326	213·3	219	206	..
125	18	15275	209 2	214	202	..	11	15089	217·0	227	210	..	16	15465	207·7	214	202	..
100	9	16684	206·6	210	198	..	10	16524	215·1	227	206	..	10	16793	202·3	209	198	..
80	7	18023	206·4	215	195	..	7	17930	212·4	215	206	..	6	18076	201·2	209	194	..

	CALCUTTA (1013 mb.)						GAUHATI (1008 mb.)						JODHPUR (990 mb.)					
Surface	30	6	295·7	300	290	286·0	31	49	292·2	295	289	286·9	31	218	295·9	299	293	276·1
1000	30	123	..	..	..	..	31	118	..	..	..	..	31	131	..	..	..	..
900	30	1031	289·7	295	287	275·2	31	1022	288·7	293	285	278·0	31	1038	289·3	293	285	267·5
850	30	1515	286·9	290	284	268·2	31	1504	285·3	290	283	273·9	31	1520	285·3	289	281	262.8
800	30	2024	284 5	287	282	265·4	31	2007	282·2	287	279	270·0	31	2025	281.7	286	278	259·5
700	30	3129	279·3	290	273	255·9	31	3103	276·0	282	271	258·3	31	3118	275·7	280	269	248·1
600	30	4377	272·8	284	268	244·9	31	4337	269·6	279	263	..	31	4352	269·3	275	262	..
500	30	5816	264·7	272	259	..	31	5757	261·5	271	256	..	31	5771	261·3	267	254	..
400	30	7519	256·0	262	247	..	31	7437	251·8	257	245	..	30	7443	251·1	257	243	..
300	22	9612	242·2	248	234	..	28	9523	240·6	249	231	..	25	9514	238·9	249	225	..
250	22	10882	233·1	239	225	..	26	10779	233·2	242	225	..	21	10786	232·2	239	223	..
200	20	12348	222·1	230	213	..	24	12267	224 2	233	216	..	16	12289	224·9	233	219	..
175	15	13221	216·5	225	209	..	17	13163	218·7	226	207	..	13	13145	220·2	227	214	..
150	11	14197	211·4	220	205	..	12	14144	214·0	219	209	..	11	14144	215·8	223	205	.
125	8	15345	207·4	215	201	..	8	15296	209·5	215	206	..	5	15442	214·0	220	210	..
100	5	16638	201·0	205	197	..	..											
80							..											

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 1200 hrs. G. M. T.

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1011 mb.)						NAGPUR (978 mb.)						NEW DELHI (992 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	15	299·1	301	295	293·2	31	311	298·8	303	294	286·0	31	210	291·8	297	287	281·1
1000	31	109	..	..	..	..	31	114	..	..	..	..	31	137	..	..	..	..
900	31	1025	291·4	299	286	283·8	31	1034	291·9	296	289	280·9	31	1033	286·3	292	282	274·1
850	31	1513	288·7	292	283	279·4	31	1522	288·2	293	285	277·9	31	1511	283·2	287	279	269·0
800	31	2026	286·5	290	283	275·2	31	2033	284·9	289	281	273·3	31	2014	280.3	285	275	263·6
700	31	3130	281·5	285	278	267·3	31	3141	279·1	288	275	259·0	31	3100	274·1	281	265	252·4
600	31	4400	275·1	279	272	257·0	31	4389	272·7	280	269	233·9	31	4323	266.9	273	260	..
500	31	5847	266·7	271	260	..	31	5824	264·3	272	260	..	31	5727	258·3	264	251	..
400	31	7557	255·5	262	249	..	31	7522	254·7	263	248	..	31	7379	247·2	254	241	..
300	30	9652	240·3	254	235	..	31	9614	240·4	251	233	..	31	9415	235·7	244	227	..
250	28	10915	230·7	242	222	..	31	10873	231·6	242	225	..	31	10656	229·2	237	220	..
200	27	12392	218·3	230	208	..	31	12360	221·7	232	212	..	30	12134	222·9	231	215	..
175	26	13230	212·4	226	204	..	31	13213	216·8	228	207	..	28	13001	219·7	226	213	..
150	26	14189	206·5	222	196	..	31	14186	210·7	224	202	..	25	13979	216·2	222	207	..
125	20	15308	202·6	213	193	..	31	15289	205·2	216	197	..	23	15115	212·7	218	204	..
100	13	16646	198·0	204	190	..	28	16422	199·3	208	191	..	20	16487	209·6	214	204	..
80	5	18107	198·8	205	195	..	23	17930	199·1	206	195	..	14	17887	208·6	214	201	..

Standard Pressure Surface mbs.	PORT BLAIR (1002 mb.)						TRIVANDRUM (1002 mb.)						VERAVAL (1012 mb.)					
Surface	31	79	299·7	301	297	295·6	31	64	302·5	304	300	294·9	31	8	298·2	302	296	288·6
1000	31	95	..	..	..	..	31	82	..	..	..	..	31	113	..	..	..	..
900	31	1016	292·4	295	289	290·7	31	1011	294·5	297	292	288·3	31	1026	291·2	296	288	279·3
850	31	1506	289·7	292	286	287·8	31	1505	291·1	295	289	285·0	31	1514	287·7	294	284	275·3
800	31	2022	287·6	291	285	283·2	31	2022	288·2	293	285	279·7	31	2028	284·7	291	280	271·6
700	31	3143	282·6	287	279	275·9	31	3145	282·8	286	277	270·0	31	3130	278·9	283	276	263·8
600	31	4407	275·4	280	273	266·0	31	4409	276·8	283	274	263·0	31	4378	271·8	277	267	257·3
500	31	5857	267·1	271	263	..	31	5870	268·8	277	264	..	30	5809	263·2	268	259	..
400	31	7569	255·8	261	249	..	31	7594	258·0	267	253	..	30	7497	252·5	259	245	..
300	26	9659	239·7	247	230	..	30	9705	242·9	257	237	..	26	9587	240·2	247	231	..
250	24	10921	230·2	239	219	..	29	10972	233·0	247	226	..	22	10859	231·1	237	219	..
200	18	12417	219·3	226	212	..	25	12453	221·2	232	212	..	14	12298	221·0	231	203	..
175	15	13243	213·0	220	206	..	25	13292	215·6	228	204	..	11	13196	213·7	226	297	..
150	14	14192	205·6	215	198	..	23	14262	208·6	223	196	..	9	14156	208·6	219	195	..
125	7	15333	200·9	207	195	..	20	15368	203·5	215	193	..	6	15217	201·5	212	196	..
100						..	14	16719	198·7	204	191	..						
80							10	17966	200·8	208	189	..						

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 1200 hrs. G. M. T.

January, 1960 (Pausa 11—Magha 11, 1881 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1008 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	298·6	300	297	292·3
1000	31	120	..	..	..	..
900	31	1037	292·5	295	288	282.0
850	31	1528	289·6	295	285	278·5
800	31	2042	287·1	292	281	274·3
700	31	3157	280·9	287	275	264·7
600	31	4417	275·1	283	269	253·0
500	31	5868	266·9	277	261	..
400	30	7585	256·4	269	249	..
300	29	9683	241·7	250	236	..
250	27	10953	233·0	238	227	..
200	24	12441	221·0	227	214	..
175	23	13287	214.7	220	209	..
150	22	14235	208·3	216	200	..
125	17	15318	202·8	212	195	..
100	15	16644	198·3	206	188	..
80	10	17917	195·3	204	182	..

NOTE : Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273 °A.

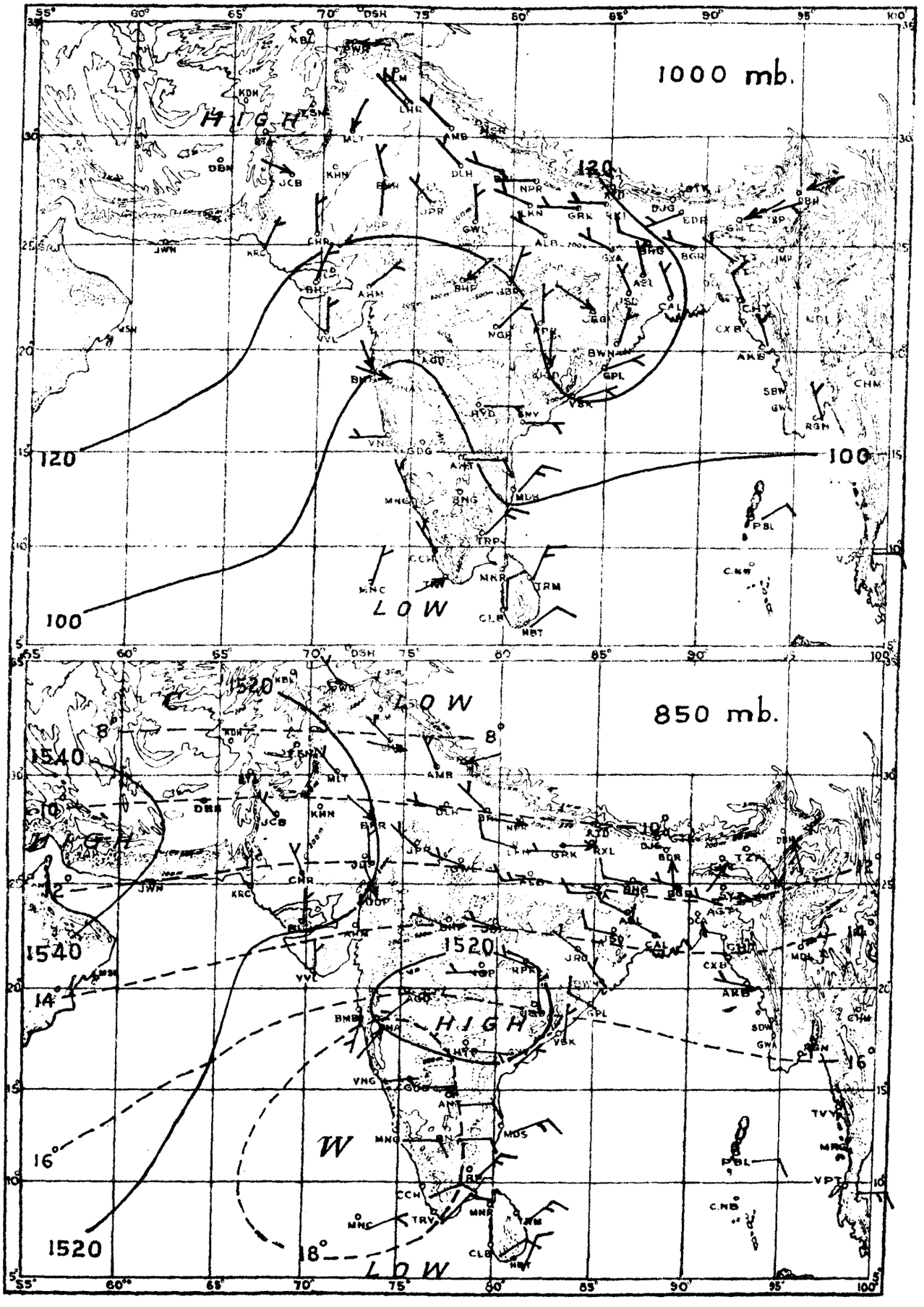
Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S1—17 D.D.G. Obs P/64—17-2-65—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JANUARY 1960

I.Met.D. *Plate I*



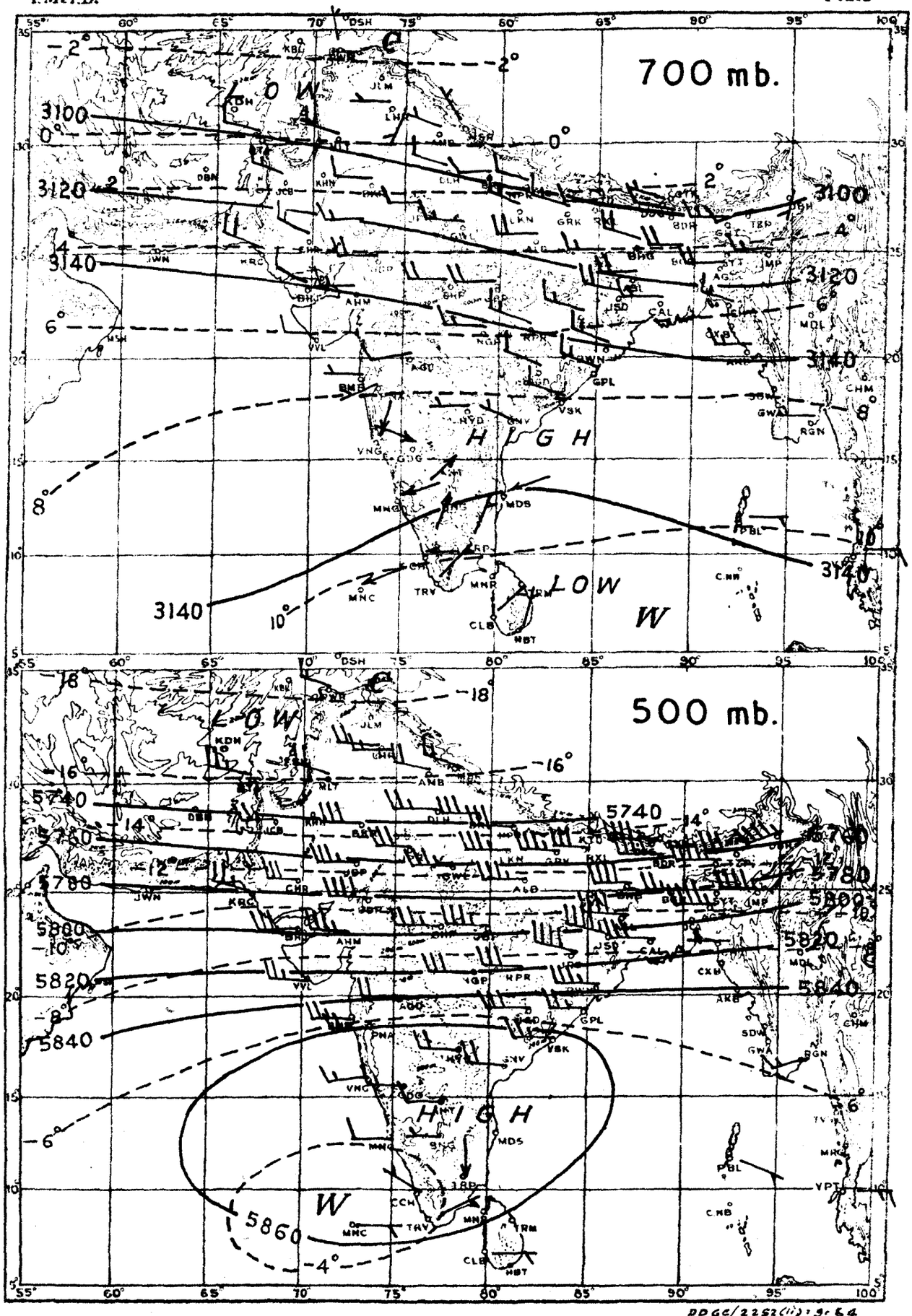
RESULTANT WIND —\ 5 Knots, —) 10 Knots, —▼ 50 Knots.

---------- Isotherms in degrees absolute. ———— Contours in geopotential metres.

R.P.E.P. POONA, 1968

MONTHLY MEAN CONSTANT PRESSURE CHARTS
JANUARY 1960

I. Met. D. *Plate* II



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

---------- Isotherms in degrees absolute. ———— Contours in geopotential metres.

DDGC/2252(ii)-9-64

P.P.2.P. POONA, 1964

Registered No. B-3097

INDIA WEATHER REVIEW, 1960

Monthly Weather Report

FEBRUARY

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Chief features—

(1) Sub-normal activity of the western disturbances, and

(2) Deficient rainfall over the country outside the Bay Islands and the extreme south Peninsula.

Three western disturbances which affected the northern parts of the country during the month were all feeble in intensity. A tabular statement showing their movement and activity is given below.

Statement showing the movement and activity of western disturbances during the month of February 1960

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1	1st — 3rd	N.W.F.P.-Punjab (P)-Punjab (I) Jammu & Kashmir	Jammu & Kashmir	Local or scattered rain/snow	1st — 2nd	
2	7th — 8th	N.W.F.P.-Jammu & Kashmir	Kashmir	Isolated very light showers	8th	
3	13th—20th	Afghanistan-N.W.F.P.-Jammu & Kashmir—Nepal Himalayas—Eastern Himalayas	Jammu & Kashmir, East Uttar Pradesh	Isolated very light showers Local thunderstorms with isolated very light showers.	16th 18th	
3a	17th—20th	Northwest Madhya Pradesh—northeast Madhya Pradesh—Bihar, Gangetic West Bengal	Bihar State and West Bengal, Assam	Scattered very light showers Scattered showers	19th 17th — 20th	Disturbance No. 3a was induced by Disturbance No. 3

An easterly wave moved from the Bay Islands to the south Madras State between 5th and 10th. It moved away westwards across the Arbian Sea Islands by 12th. Under its influence, the Bay Islands had fairly widespread rain on 6th, Long Island recording 16 cms. Scattered showers occurred ni the extreme south Peninsula on 10th and 11th. A second easterly wave affected the Bay Islands on 17th when Kondul reported 11 cms. of rain. With its westward movement, the seasonal low over the south Bay became well marked and remained so till almost the end of the month. This caused good rainfall over the extreme south Peninsula and over the Ceylon-Comorin areas during the last ten days of the month, the rainfall being particularly heavy in Ceylon between 21st and 23rd. According to press reports this heavy rainfall was responsible for devastating floods in Ceylon.

Night temperatures were below normal in the central parts of the country and Orissa during the first week of February and in Andhra Pradesh practically throughout the second half of the month. Night temperatures were also above normal in north India, being appreciably to markedly so over some parts, during the second and third weeks.

The rainfall for the month was in large defect in Assam, Sub-Himalayan West Bengal, Orissa, Bihar State, Jammu and Kashmir and Kerala, in slight defect in the Bay Islands and normal in the Madras State. It was in large excess in the Arabian Sea Islands. There was no rain elsewhere over the country outside Himachal Pradesh.

The mean maximum temperature was normal in Coastal Andhra Pradesh, Rayalaseema, the Madras State, Interior Mysore State, Kerala and the Arabian Sea Islands and above normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature, was above normal in the Bay Islands, Assam, West Bengal, Bihar Plains, Uttar Pradesh, the Punjab (I), Jammu and Kashmir, west Rajasthan and the Konkan, below normal in Orissa, coastal Andhra Pradesh, Rayalaseema and Coastal Mysore, and normal over the rest of the country outside Himachal Pradesh.

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The mean relative humidity in the morning was normal in the Bay Islands the Punjab(I), east Rajasthan, Saurashtra and Kutch, Vidarbha, Rayalaseema, the Madras State and Kerala. It was above normal in the Arabian Sea Islands and below normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in Rayalaseema, the Madras State, south Interior Mysore, Kerala and the Arabian Sea Islands, normal in the Bay Islands and coastal Mysore and below normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, relative humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column. Similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,
The 2nd April, 1960.

C. RAMASWAMY,
for *Director General of Observatories.*

Errata to M.W.R. February 1960 (Magha 12 - Phalguna 10, 1881 Saka)

Station	Hour	Col.	For	Read
Text portion				
57. First para 4th line 1st word.			ni	in
58. Last para 3rd line 4th word.			(Not printed)	rain
Table II				
60. Port Blair		8	(Not clear)	18.4
60. Port Blair		11	(Not clear)	23.1
60. Burdwan		1	Burdwan*	Burdwan †
60. (Foot Note)		-	(Not given)	‡ Data not reliable
61. Sambalpur		15	-2.8	-2.0
61. Varanasi (Banaras) (Babatpur Aerodrome)		20(a)	2	0
62. Leh		6	7.4	-7.4
63. Erinpura (Jawai Dam)		5	5,16	15,16
63. New Kandla		27	1	0
64. Jalgaon		12	..	-2.8
64. Malegaon		12	-2.8	-2.3
64. Aurangabad		12	..	-4.3
64. Khandala		12	..	-3.1
64. Ahmednagar		12	-3.1	-3.3
64. Parbhani		12	-3.3	-7.4
66. Dharamshala		20(b)	(Blank)	0
66. Bhimtund		13	(Blank)	0
66. Punana		12	0	..
66. Dharti		2	0.	33.7
67. Timuo		4	1.2	21.2
67. (Foot Note)		-	(c) Mean of 2 days	(delete)
Table III				
68. Pasighat	1730	16	(Blank)	0
68. Gohpur	0830	7	18.1	18.8
69. Rangiya	1730	9	6.6	16.6
69. Dhubri	1730	9	3.8	13.8
69. Imphal	1130	19	1	0
69. Dum Dum	0530	22	(Blank)	0
69. (Foot Note)	-	-	(Not given	(c) Mean of 28 days.
71. Sambalpur	1730	9	8.3	8.8
71. Jamshedpur	1730	17	1	0
71. Chaibasa	0830	14	1.9	-1.9
71. Hazaribagh	0830	15	..	3.2
71. Hazaribagh	1730	15	0.6	6.3
71. Motihari	0830	19	(Blank)	0
71. Patna (Aerodrome)	1130	17	0	1
72. Azamgarh	0830	8	14.2	14.0
72. Varanasi (Banaras) (Babatpur Aerodrome)	2330	9	10.5	10.9
72. Fatehpur	1730	19	8	1
72. Kanpur	0830	14	-1.9	-0.9
73. New Delhi (Palam Aerodrome)	1730	11	(Blank)	29
74. Ludhiana	1730	5	984.0	984.6
76. Sheopur Kalan	1730	9	3.3	5.3
76. Sheopur Kalan	1730	27	20	3
76. Guna	0530	27	9	20
76. Guna	0830	27	2	9
76. Guna	1130	9	1.8	0.8
76. Guna	1730	27	20	2
76. Guna	2330	27	2	20
76. Rajgarh	0830	7	30.5	15.5
76. Rajgarh	1730	7	18.1	30.5
76. Neemuch	0830	7	29.4	18.1

Contd.2

Station	Hour	Col.	For	Read
76. Neemuch	1730	7	17.1	29.4
76. Ratlam	0830	7	30.7	17.1
76. Ratlam	1730	7	25.7	30.7
76. Indore	1730	15	10.2	10.5
76. Indore	2330	8	11.2	11.1
77. Ambikapur	0830	18	52	25
77. Jagdalpur	0530	3	559	553
77. Jagdalpur	1130	7	27.9	28.9
77. Deesa	1730	2	1030	1730
77. Deesa	1730	5	993.9	995.9
78. Maliya	0830	18	28	26
78. New Kandla	0830	28	2	0
78. Mandvi	0830	28	0	1
78. Jamnagar	0530	27	(Blank)	0
78. (Foot Note)	--	-	(Not given)	(c) Mean of 28 day
79. Deolali	0830	7	(Not clear)	17.6
79. Parbhani	1730	28	(Blank)	0
80. Sholapur	2330	17	0	1
80. Miraj	0830	16,17	0,1	..,..
80. Miraj	0830	24	1	0
80. Akola	1730	7	32.2	33.2
80. Nagpur	2330	7	19.7	19.6
80. Nagpur	2330	8	13.7	13.6
81. Masulipatnam	0830	1	Masulipatnam	Masulipatnam*
81. Kakinada	0830	1	Kakuinadada	Kakinada
81. Kakindda	0830	1[illegible]	..	-1.2
81. Kakinada	1730	14	-1.2	..
81. Visakhapatnam	0830	14	+1.2	-1.2
81. Hyderabad (Begumpet Aerodrome)	0530	9	20.1	10.3
82. Tiruchirapalli	0830	11	15	75
83. Honavar	0380	1	Hanavav	Honavar
84. Cochin (Naval Air Station)	0830	4	1012.	1012.7
84. Punalur	1730	8	22.	22.2
85. Mahabaleswar	0830	20	(Blank)	2
85. Kodaikanal	0830	14	..	+1.8
85. Kodaikanal	1130	14	+1.8	..
85. Coonoor	0830	24	(Blank)	0
85. Mannar	0830	9	22.	22.9
85. Panchet Hills	0830	26	(Blank)	1
85. Durgapur	1730	20	1	2
85. Khijrawan	1730	15	3.4	3.4 (c)
85. Sonepur	0830	15	2.8 (c)	2.8
85. Bhimkund	1730	10	9.	9.0
87. Gangtok	0830	28	r.	0
87. Geyzing	0830	28	0	..

Page	Station	Time in I.S.T.	Height in Km.	Entry under column	Existing entry	Correct entry
89	Bajpe	-	-	Height of Anemometer head amsl in metres.	109	104
90	Ahmedabad	2330	Surface	V	5.2	2.2
92	Bajpe	2330	2.1	V	7.3	7.8
92	Bangalore	2330		Time in I.S.T. 2330	Data for 2330 hours shown under Bareilly be read under Bangalore and not under Bareilly.	
93	Bhuj	2330	Surface	V	6.8	0.8
94	Chikalthana	0530	Surface	D	004	084
94	Cochin	2330	3.0	D	673	073
95	Gadag	0530	1.5	D	068	086
95	Gannavaram	2330	3.0	D	035	355
102	Tezpur	2330	0.3	v	6.3	5.3
104	Bangalore	1730	14.1	Ht. in Km.	14.7	14.1
105	New Delhi	1730	10.5	v	17.7	34.7
105	Visakhapatnam	1730	14.1	v	31.1	13.1
				RADIOSONDE DATA		
107	Gauhati	00 GMT	800 mb	Max.	285	286
107	Gauhati	00 GMT	700 mb	Max.	286	283
111	Trivandrum	12 GMT	Surface	Min.	30	300
112	Visakhapatnam	12 GMT	600 mb	Ht. gpm	421	4421

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	6.7	17	27.8	14.3	74	63	2.4	2.2
	−33.7		+3.0	+2.1	−8		−0.9	
2. West Bengal	0.5	2	30.4	16.1	64	46	0.3	0.4
	−25.4		+2.8	+1.7	−8		−1.7	
3. Orissa	0·5	2	32.1	16.1	61	40	0.6	0.8
	−25·3		+2.1	−1.3	−10		−1.4	
4. Bihar	0.3	1	30.0	13.4	56	37	0.3	0.7
	−26.0		+3.5	+0.7	−14		−1.8	
5. Uttar Pradesh	0	0	28.7	11.6	61	33	0.5	0.7
	−22.1		+3.8	+1.5	−8		−1.5	
6. Punjab (India) (Including Delhi).*	0	0	28.2	10.2	66	37	0.8	0.8
	−23.6		+3.7	+1.3	+2		−1.4	
7. Jammu and Kashmir	3.9	10	7.6	−3.1	65	49	4.1	4.9
	−36.1		+3.9	+3.6	−7		−1.7	
Sub-division								
1. Bay Islands.	23.1	82	30.9	23.1	73	77	3.0	2.9
	−5.1		+1.2	+1.7	+2		+0.1	
2. Assam (Including Manipur, Tripura).	6.7	17	27.8	14.3	74	63	2.4	2.2
	−33.7		+3.0	+2.1	−8		−0.9	
3. Sub-Himalayan West Bengal.	1.7	9	28.3	14.2	68	43	0.3	0.3
	−17.9		+2.6	+2.0	−7		−1.2	
4. Gangetic West Bengal.	0	0	31.1	16.6	63	47	0.3	0.4
	−29.0		+2.9	+1.6	−9		−1.9	
5. Orissa	0.5	2	32.1	16.1	61	40	0.6	0.8
	−25.3		+2.1	−1.3	−10		−1·4	
6. Bihar Plateau	0.5	1	30.4	13.5	49	30	0.2	0.8
	−39.3		+3.0	−0.1	−18		−2.0	
7. Bihar Plains	0.2	1	29.6	13.2	62	44	0.4	0.6
	−18.0		+4.0	+1.6	−10		−1.5	
8. Uttar Pradesh (East).	0	0	29.5	12.1	61	35	0.4	0.4
	−18.6		+3.7	+1.4	−9		−1.4	
9. Uttar Pradesh (West).	0	0	28.0	11.1	61	31	0.7	0.9
	−26.1		+3.9	+1.7	−7		−1.6	
10. Punjab (India) (Including Delhi)	0	0	28.2	10.2	66	37	0.8	0.8
	−23.6		+3.7	+1.3	+2		−1.4	
11. Himachal Pradesh	0	..	25.5	6.2	85	51	2.0	1.4
	..		..	..	..		..	
12. Jammu and Kashmir	3.9	10	7.6	−3.1	65	49	4.1	4.9
	−36.1		+3.9	+3.6	−7		−1.7	
13. Rajasthan (West)	0	0	30.8	11.5	41	16	0.6	0.7
	−10.7		+4.9	+1.4	−20		−1.8	
14. Rajasthan (East)	0	0	30.3	11.4	45	18	0.5	0.8
	−5.1		+4.0	+0.3	−4		−0.9	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	0	0	30.6	11.5	43	17	0.5	0·8
	−8.0		+4.4	+0.8	−11		−1.3	
9. Madhya Pradesh	0	0	31.0	12.5	47	22	0.7	0.8
	−15.2		+2.8	+0.3	−9		−0.9	
10. Maharastra	0	0	33.1	16.5	51	32	0.5	0.5
	−3.8		+2.0	+1.0	−5		−0.7	
11. Andhra Pradesh	0	0	33.5	16.1	63	41	1.3	1.2
	−10.9		+0.8	−1.4	−8		−0.8	
12. Madras State	15.3	98	31.1	20.8	76	53	3.9	3.9
	−0.3		−0.4	0	−3		+1.2	
13. Mysore	0	0	32.2	17.9	52	30	1.8	2.1
	−4.3		+0.4	−0.1	−9		−0.3	
14. Kerala	5.2	35	32.1	23.2	79	73	3.9	3.9
	−9.5		+0.9	−0.1	+2		+1.9	
Sub-division—*contd.*								
15. Madhya Pradesh (West).	0	0	30.9	12.3	43	19	0.7	0·7
	−8·5		+2.8	+0·5	−9		−0.8	
16. Madhya Pradesh, (East).	0	0	30.9	12.8	53	25	0.7	0.9
	−24.7		+2.9	0	−9		−1.0	
17. Gujarat	0	0	34.6	14.9	48	21	0.2	0.2
	−2.6		+3.4	+0.9	−9		−1.0	
18. Saurashtra and Kutch.	0	0	31.7	14.8	59	43	0.4	0.5
	−2.7		+2.2	+0.8	+2		−1.0	
19. Konkan	0	0	31.4	20.5	60	61	0.6	0.6
	−0.7		+2.9	+1.6	−7		−0.3	
20. Maharashtra (Including Marathwada)	0	0	34.2	15.4	43	21	0.5	1.0
	−2.9		+1.8	+0.8	−6		−0.4	
21. Vidarbha	0	0	33.6	15.6	47	21	0.6	0.6
	−14.0		+1.4	+0.2	−5		−0.9	
22. Coastal Andhra Pradesh.	0	0	32.2	14.9	70	52	1.4	1.3
	−13.4		+0.7	−1.5	−7		−1.0	
23. Telangana	0	0	32.9	16.9	53	21	0.9	0.7
	−11.9		+1.6	−0.9	−15		−1.3	
24. Rayalaseema	0	0	34.6	18.3	56	33	1.2	1.4
	−5.9		+0.2	−1.5	−5		0	
25. Madras State	15.3	98	31.1	20.8	76	53	3.9	3.9
	−0.3		−0.4	0	−3		+1.2	
26. Coastal Mysore	0	0	32.9	19.8	66	59	2.3	2.5
	−1.1		+1.6	−1.6	−7		+0.2	
27. Interior Mysore (North).	0	0	33.1	17.8	44	22	0.8	1.2
	−5.1		+0.4	+0.3	−10		−0.3	
28. Interior Mysore (South).	0	0	30.9	17.0	55	22	3.0	2.9
	−4.6		−0.2	+0.2	−10		+1.1	
29. Kerala	5.2	35	32.1	23.2	79	73	3.9	3.9
	−9.5		+0.9	−0.1	+2		+1.9	
30. Arabian Sea Islands.	40.0	222	30.1	22.9	82	72	5.1	5.2
	+22.0		+0.4	−0.8	+8		+2.3	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.
*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	27·7	..	28·9	27	22·9	..	20·1	29	43·5	51·9	..	31·4	7	2	..	10·8	6·7	..	0	3	0	0	0	0	0	0	0	0	0
Long Island	30·4	..	31·6	26	22·7	..	18·3	2	82·2	16·2	..	156·0	6	2	..	2·7	1·7	..	0	2	0	0	0	0	0	0	0	0	0
Port Blair	30·9	+1·2	32·4	27	23·1	+1·7	1·4	2	4·9	2·1	−5·1	18·2	6	2	0	10·5	7·9	−3·5	0	3	0	0	0	1	0	0	0	0	0
Car Nicobar	30·3	..	31·1	22	24·6	..	19·9	4	14·4	50·0	..	35·2	6	3	..	9.2	6·3	..	2	3	0	0	2	0	0	0	0	0	0
Nancowry	32·4	..	33·7	6	25·3	..	22·3	16	52·7	87·3	..	31·5	6	7	..	0	0	..	0	11	0	0	2	0	0	0	0	0	0
Kondul	28·8	..	29·9	28	25·1	..	22·7	22	34·1	151·8	..	31·4	22	8	..	8·3	8·0	..	0	14	0	0	1	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	25·9	..	31·0	13	15·4	..	10·0	1	7·3	26·8	..	9·8	19	3	..	10·3	13·8	..	0	5	0	0	3	0	0	0	0	0	0
Digboi*	26·4	..	30·1	13	13·4	..	5·6	1	0	24·4	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Dibrugarh	26·6	+3·8	30·1	13	14·5	+1·9	10·2	1	2·1	28·5	−33·5	6·2	24	4	−2·2	3·2	2·1	+0·5	0	10	0	0	9	0	0	0	0	0	0
Dibrugarh (Mohanbari Aerodrome)	26·1	..	29·3	23	12·7	..	4·8	2	1.9	57·3	..	33·8	13	3	..	4·3	2·4	..	0	9	0	0	7	0	0	0	0	0	0
North Lakhimpur	26·5	..	30·2	16	13.0	..	7·7	1	15·7	31·0	..	22·4	17	1	..	..	..	..	0	7	0	1	5	0	0	0	0	0	0
Sibsagar	26·7	+3·9	29·4	16	14·3	+2·3	9·1	1	0·5	10·8	−40·5	5·1	17	2	..	4·6	2·7	−0·2	0	3	0	0	0	0	0	0	0	0	0
Jorhat	26·9	..	29·5	13, 16	13·7	..	8·6	1	0	25.6	..	9·9	17	4	..	..	..	..	0	5	0	0	7	2	0	0	0	0	0
Golaghat	27·6	..	30·0	4 days	13·9	..	9·4	1	0	16·0	..	12·0	13	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Gohpur	26·5	..	29·3	12,13	12·6	..	5·5	2	0	0	..	0	..	0	..	5·7	3·4	..	0	0	0	0	0	0	0	0	0	0	0
Tezpur	28·1	+3·4	30·6	13	15·6	+2·3	11·1	1	0·1	10·1	−17·3	10·1	17	1	−1·7	..	6·0	+2·3	0	1	0	0	2	0	0	0	0	0	0
Tezpur (P.B.O.)	27·2	..	29·8	13	14·7	..	10·7	2	0·2	8·7	..	8·7	17	1	..	5·1	3·0	..	0	1	0	0	3	9	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	0·4	5·2	..	5·2	17	1	..	6·7	4·1	..	0	1	0	0	4	0	0	0	0	0	0
Chandrmukh (R)																													
Tangla	28·4	..	30·7	13	13·6	..	8·3	1	2·2	7·0	..	7·0	17	1	..	2·7	1·4	..	0	1	0	0	0	0	0	0	0	0	0
Gauhati	28·5	+2·9	31·1	27	14·9	+2·8	11·2	1	0	0	−29·7	0	..	0	−2·6	1·0	1·0	−1·4	0	0	0	0	0	9	0	0	0	0	0
Gauhati (Bhorjor Aerodrome)	28·6	..	30·8	20	12·3	..	8·1	1	0	0·2	..	0·2	16	0	..	5·6	3·3	..	1	0	0	0	2	0	0	0	0	0	0
Rangiya*	28·7	..	30·6	27	13·4	..	8·8	3	6·2	6·2	..	..	..	..	..	3·3	2·6	..	..	..	0	0	0	0	0	0	0	0	0
Goalpara	30·2	..	32·4	13	13·3	..	8·6	21, 22	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dhubri	27·6	+2·6	30·1	21, 26	16·0	+2·6	12·8	1	0	0	−18·8	0	..	0	−1·5	5·0	4·5	−1·1	0	0	0	0	0	0	0	0	0	0	0
Dhubri (Rupsi Aerodrome)	29·2	..	31·6	26	13·2	..	9·2	1	0	0	..	0	..	0	..	6·1	3·7	..	0	0	0	0	0	2	0	0	0	0	0
Tura	28·7	..	30·6	26	15·2	..	12·3	1	0	0	..	0	..	0	..	7·4	10·8	..	0	0	0	0	0	0	0	0	0	0	0
Agartala	31·2	..	34·4	19	14·0	..	8·8	1	25·0	0	..	0	..	0	..	8·3	5.0	..	0	0	0	1	2	1	0	0	0	0	0
Kailashar	31·4	..	34·1	19	12·5	..	7·9	1	23·4	0	..	0	..	0	..	5·2	2·6	..	0	0	0	0	2	0	0	0	0	0	0
Silchar	27·6	+0·6	32·4	13	14·8	+1·6	11.1	1	3·4	1·2	−46.8	1·2	29	0	−3·6	3·8	1·6	−0·8	0	1	0	0	2	0	0	0	0	0	0
(Kumbhigram Aerodrome)	30·7	..	32·3	19	15·1	..	11·3	1	2·6	0·6	..	0·6	29	0	..	8·2	8·8	..	0	1	0	0	2	0	0	0	0	0	0
Imphal	25·2	..	27·6	19	7·0	..	3·7	1	5·2	5·4	..	2·2	13	0	..	9·3	5·5	..	0	4	0	0	3	3	0	0	0	0	0
Haflong	25·7	..	28·5	21	14·8	..	11·7	1	2·0	1·2	..	0·9	14	0	..	6·0	4.0	..	0	2	0	0	2	0	0	0	0	0	0
Lumding	29·6	+4·5	31·6	14, 16	11·7	+1·5	6·9	1	0·9	0	−33·0	0	..	0	−3·0	2·5	1·7	..	0	0	0	0	2	0	0	0	0	0	0
Sub-Himalayan West Bengal																													
Cooch Behar	28·9	..	31·3	13	13·1	..	8·6	1	0	0	−20·6	0	..	0	−1·8	4·8	2·6	..	0	0	0	0	0	4	0	0	0	0	0
Jalpaiguri	26·5	+1·6	28·8	12	14·1	+2·0	10·5	1	0	5·0	−12·0	5·0	17	1	−0·4	8·3	5·7	+3·6	0	1	0	0	0	9	0	0	0	0	0
Bagdogra	27·8	..	29·3	14	12·2	..	8·9	1,3	0	12·0	..	12·0	17	1	..	9·9	7·4	..	0	1	0	0	1	1	0	0	0	0	0
Malda	30·0	+3·7	32·8	17,28,29	14·3	+2·0	7·9	4	0	0	−21·1	0	..	0	−1·7	6·5	4·2	−0·5	0	0	0	0	1	0	0	0	0	0	0
Gangetic West Bengal																													
Dum Dum	31·8	..	34·6	24,29	15·3	.	9·8	5	0	0	..	0	..	0	..	5·9	3·1	..	0	0	0	0	0	14	0	0	0	0	0
Barrackpor	31·0	..	34·6	18	15·2	..	9·7	5	0	0	..	0	..	0	..	..	..	..	0	0	0	1	1	0	0	0	0	1	0
Calcutta	32·1	+3·4	35·2	18,19	17·6	+2·4	11·9	5	0	0	−29·7	0	..	0	−1·8	9.1	4·5	+0·3	0	0	0	0	1	13	0	0	0	1	0
Saugor Island	28·0	+1·0	32·3	21	20·0	+1·9	14.4	4	0	0	−29·2	0	..	0	−1·8	14·8	13·1	+2.3	0	0	0	0	0	0	0	0	0	2	0
Sandheads	28·7	..	32·0	24	23.0	..	20·6	5	0	0·3	−13·9	0.3	29	0	−1·1	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Contai	30·1	..	34·7	20	17·7	..	12·8	1,4	0	0	..	0	..	0	..	8·5	5·5	..	0	0	0	0	0	2	0	0	0	0	0
Midnapore	32·0	+2·3	36·7	19	16·1	−0·1	11·1	4	0	0	−34·3	0	..	0	−2·0	5·0	3·1	0	0	0	0	0	0	0	0	0	0	0	0
Purulia	30·4	..	34·2	29	16·3	..	10·9	5	2·5	0	..	0	..	0	..	5·0	3·5	..	0	0	0	0	1	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	0	−29·0	0	..	0	−2·1	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Burdwan*																													
Krishnagar	32·5	+4·3	36·2	29	14·8	+1·6	7·9	5	0	0	−29·2	0	..	0	−1·8	2·8	2·2	−0·5	0	0	0	0	0	0	0	0	0	1	0
Asansol	30·9	+3·0	34·3	19,29	16·0	+1·9	9.7	4	0	0	−31·7	0	..	0	−2·5	8·7	5·9	+0·1	0	0	0	0	1	4	0	0	0	1	0
Suri	31·3	..	35·0	18,29	16·1	..	10·1	4	0	0	..	0	..	0	..	8·3	5·8	..	0	0	0	0	1	0	0	0	0	0	0
Berhampore	30·9	+3·4	34·6	18	15·6	+2·0	10·2	4	0	0	−21·1	0	..	0	−1·7	1·3	0·6	−1·8	0	0	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	33·0	..	37·3	19	15·0	..	10·5	6	0	0	..	0	..	0	..	4·9	2·5	..	0	0	0	0	1	0	0	0	0	0	0

(R) Register not received.

*Observations for 29 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm or more): Total in the month	Departure from normal	Wind speed km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Orissa—(*contd.*)																													
Balasore	32·3	+3·0	35·9	20	16·5	+0·1	11·2	6	12·2	2·3	−32·5	2·3	29	0	−2·4	5·8	2·4	−1·8	0	1	0	0	2	1	0	0	0	0	0
Chandbali	32·4	+2·9	35·8	29	15·9	−1·7	10·6	3	0	0	−33·3	0	..	0	−1·8	9·1	7·2	−0·4	0	0	0	0	1	3	0	0	0	0	0
Cuttack	33·5	+2·3	36·8	19	17·4	−0·8	13·0	1	0	0	−19·8	0	..	0	−1·5	5·1	3·6	+1·2	0	0	0	0	0	3	0	0	0	0	0
Bhubaneswar	33·3	..	35·1	29	17·5	..	13·3	1	0	0	..	0	..	0	..	13·2	9·9	..	0	0	0	0	0	2	0	0	0	0	0
Puri	28·6	+0·3	31·4	16	20·7	+0·1	16·2	5	0	0	−23·4	0	..	0	−1·2	16·9	13.9	+0·2	0	0	0	0	0	2	0	0	0	0	0
Gopalpur	30·1	+1·5	33·4	16	17·8	−1·8	14·2	1	0	0	−22·9	0	..	0	−1·2	14·1	11·1	−1·1	0	0	0	0	0	2	0	0	0	0	0
Koraput	28·3	..	31·1	18,20,21	13·9	..	10·0	7	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Titilagarh	33·3	..	36·1	15,21,24	15·0	..	10·1	26	0	0	..	0	..	0	..	3·1	1·5	..	0	0	0	0	1	0	0	0	0	0	0
Bolangir	32 8	..	35·6	24,26,28	16·3	..	11.3	7	0	0	..	0	..	0	..	4·9	5·1	..	0	0	0	0	0	0	0	0	0	0	0
Phulbani	30·9	..	33·9	20	9·0	..	4.9	1	0	0	..	0	..	0	..	3·5	2·1	..	0	0	0	0	0	0	0	0	0	0	0
Angul	32·3	+1.9	36·6	20	15·8	−0·5	12·3	5	0	0·4	−28.3	0·4	29	0	−2·1	6·6	5·6	0	0	1	0	0	0	0	0	0	0	0	0
Keonjhar	30·5	..	33·8	24	15·4	..	11·1	7	0	2·3	..	2·3	29	0	..	6·5	4·4	..	0	1	0	0	2	0	0	0	0	0	0
Sambalpur	32·1	+1·9	35·4	24	13·5	−1·7	9·3	1	0	1·9	−22·0	1·9	29	0	−2·8	5·2	2.7	−1·2	0	1	0	0	1	19	0	0	0	0	0
Jharsuguda	31·7	..	34·6	29	13·9	..	10·6	6	0	5·8	..	5·8	29	1	..	8·2	6 3	..	0	1	0	0	2	0	0	0	0	0	0
Bihar Plateau																													
Jamshedpur	31·7	+3·2	35·2	18	14·0	−0·3	10·2	1,6	0	0	−49·5	0	..	0	−3·7	6·5	3·6	−0·1	0	0	0	0	0	0	1	0	0	0	0
Jamshedpur (P.B.O.)	31·3	..	35·2	18	14·2	..	9·1	5	0	0	..	0	..	0	..	7.3	3.7	..	0	0	0	0	1	0	1	0	0	0	0
Chaibasa	31·5	+2·7	35·1	18	14.3	+0·2	9·5	5	0	0	−37·9	0	..	0	−2·5	3·2	2·0	−0·6	0	0	0	0	1	0	0	0	0	0	0
Ranchi	29·5	+4·6	32·3	4 days	13·0	+0·2	7·6	1	1,0	0	−45.7	0	..	0	−3·4	2·9	1·6	−4·8	0	0	0	0	0	0	0	0	0	0	0
Ranchi (G.W.O.)	28·0	..	31·6	19,20	13·6	..	8·1	5	1,8	0	..	0	..	0	..	10·7	7·5	..	0	0	0	0	1	0	0	0	0	0	0
Daltonganj	30·0	+3·4	33·2	18,29	11·0	−0·1	5.1	4	0	0	−32·3	0	..	0	−2·4	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	28·1	+3·0	32·4	18	12·2	−0·1	5·1	4	0	1·4	−30·6	1·4	19	0	−2·5	10·4	7·4	1·5	0	1	0	0	1	0	0	0	0	0	0
Dhanbad	30·5	..	33·9	29	16·7	..	10·4	4	0	0	..	0	..	0	..	5·5	4·6	..	0	0	0	0	0	0	0	0	0	0	0
Dumka	30·9	+4·0	34·7	18	14·1	+0.9	8·2	4	0	0	−23·9	0	..	0	−2·0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Purnea	29·8	+3.7	32·1	29	11·7	+0·8	4·7	4	0	0	−15·7	0	..	0	−1·3	4·1	1·8	−1·6	0	0	0	0	0	0	0	0	0	0	0
Forbesganj	30.1	..	31·8	14	11·8	..	8·8	21	0	0	..	0	..	0	..	6·9	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Darbhanga	29·7	+4·2	32·0	18,29	13.7	+2·1	7·4	4	0	0	−13·5	0	..	0	−1·4	3.8	1·5	−1·9	0	0	0	0	0	0	0	0	0	0	0
Motihari	27.3	+2.4	31.0	18,29	12.6	+2·6	6.0	4	0	0	−15·2	0	..	0	−1·4	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	0	−14·5	0	..	0	−1·7	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chapra	29.5	..	33·2	29	12.9	..	8.4	4,22	0	0	−17.3	0	..	0	−1·6	6·7	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	0	−21·1	0	..	0	−1.6	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Patna	29·4	+4·0	32·8	29	14·6	+1·9	8·1	4	0	0	−18·8	0	..	0	−1·6	5·1	5·3	+0·8	0	0	0	0	0	0	0	0	0	0	0
Patna (Aerodrome)	29·0	..	32·8	29	12·7	..	6·3	4	0	0	..	0	..	0	..	7·5	3·4	..	0	0	0	0	0	0	1	0	0	0	0
Dehri	29·8	..	33·9	28	14·1	..	7·9	4	0	1·0	−20·3	1·0	19	0	−1.8	8·5	5·5	..	0	1	0	0	0	0	0	0	0	0	0
Gaya	29·7	+3·4	33·8	29	12·1	+0·5	5·9	4	0	0·4	−21·2	0·4	19	0	−1.8	7·8	4·5	−1·9	0	1	0	0	1	0	0	0	0	1	0
Jamui	30·8	..	34·8	29	..	..	..	.	0	0	..	0	..	0	..	7·4	3·8	..	0	0	0	0	0	0	0	0	0	0	0
Bhagalpur	29·2	..	32·5	29	15·2	..	9·3	4	0	0	..	0	..	0	..	6·8	4·7	..	0	0	0	0	0	0	0	0	0	0	0
Sabour	29·6	+3·9	32·9	29	11·5	+0·7	5·0	4	0	0	−20·1	0	..	0	−1·7	8·2	4·5	−1·1	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (East).																													
Gonda	28·9	+3·3	32·6	28	12·3	+1·5	6·7	4	0	0	−23·1	0	..	0	−2·3	4·9	3·3	−1·7	0	0	0	0	0	0	0	0	0	0	0
Nautanwa	25·7	..	28·7	15	11·7	..	8·8	20	0	0	..	0	..	0	..	4·8	2·8	..	0	0	0	0	0	0	0	0	0	0	0
Gorakhpur	29·7	+4·3	32·8	28	13·9	+2·7	8·7	4	0	0	−16·0	0	..	0	−1·8	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Azamgarh	30·3	..	34·1	29	12·2	..	6·9	4	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ballia	29·6	..	33·4	29	13·0	..	7·8	4, 5	0	0	..	0	..	0	..	5·7	2·9	..	0	0	0	0	0	0	0	0	0	0	0
Varanasi (Banaras)	29·4	+3·1	33·5	28	12·7	+1·5	7·0	5	0	0	−18·0	0	..	0	−1·9	..	..	..	0	0	0	0	0	2	0	0	0	0	0
Varanasi (Banaras) (Babatpur Aerodrome).	29·4	..	33·8	28	11·7	..	5·9	4	0	0	..	0	..	0	..	12·9	7·9	..	2	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamrauli).	30·4	+4·2	34·6	28, 29	12·0	+1·3	6·5	4	0	0	−16·0	0	..	0	−1·7	6·4	3·3	−1 8	0	0	0	0	0	0	0	0	0	0	0
Sultanpur	29·5	..	33·4	29	..	..	..	..	0	0	..	0	..	0	..	6·5	4·3	..	0	0	0	0	1	0	0	0	0	0	0
Faizabad	29·2	..	33·1	28	10·7	..	6·2	4	0	0	..	0	..	0	..	5·3	2·7	..	0	0	0	0	1	0	0	0	0	0	0
Banda	30·5	..	34·4	17	11·5	..	6·1	4, 5	0	0	..	0	..	0	..	4·9	2·4	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	29·7	+3·1	34·4	29	11·1	−0·2	6·1	5	0	0	−18·0	0	..	0	−2·4	8·4	4·3	+0·1	0	0	0	0	0	0	0	0	0	0	0
Kanpur	29·0	+4·0	33·9	29	12·5	+1·9	6·7	5	0	0	−16.8	0	..	0	−1·6	14.0	8·8	+2·2	0	0	0	0	1	3	0	0	0	0	0
Kanpur (Aerodrome)	29·7	..	33·9	28, 29	11·4	..	6·2	4	0·5	0·5	..	0·5	18	0	..	..	..	..	0	1	0	0	1	1	0	0	0	0	0
Lucknow	29·5	+3·6	33·3	28	12·6	+1·8	7·8	5	0	0	−18·3	0	..	0	−1.6	5·6	3.5	+0·8	0	0	0	0	0	0	0	0	0	0	0
Lucknow (Amausi Aerodrome).	29·3	+3·9	33·3	28	9·8	+0·8	5·3	5	0	0·1	−18.2	0·1	18	0	−1.6	10.3	6·9	..	1	0	0	0	1	0	0	0	0	0	0
Hardoi	29·3	..	32·7	29	11·4	..	6·4	4	0	0	..	0	..	0	..	8.9	5·2	..	0	0	0	0	0	0	0	0	0	0	0
Lakhimpur Kheri	29·4	..	32·8	29	11·8	..	7·0	4	0	0	..	0	..	0	..	4·8	3·3	..	0	0	0	0	0	0	0	0	0	0	0
Bahraich	29·4	+4·4	32·8	28	12·1	+1.6	6·9	4	0	0	−23.1	0	..	0	−2.0	6·2	4·4	+1·0	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West).																													
Orai	29·8	..	34·4	29	10·9	..	6·1	5	0	0	..	0	..	0	..	8·7	6·3	..	0	0	0	0	0	0	0	0	0	0	0
Jhansi	30·3	+3·1	35·1	17	13·3	+1·9	7·8	6	0	0	−11·4	0	..	0	−1·1	3·8	2·8	−1·5	0	0	0	0	0	0	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2 mm.)	Precipitation (0.3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—*contd.*																														
Agra.	29·1	+3·9	33·6	29	11·6	+2·6	5·6	5	0	0	−12·5	0	..	0	−1·1	3·9	2·6	−2·5	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	29·0	..	33·8	28	9·7	..	5·4	5	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Mainpuri	29·5	+4·1	33·3	29	11·0	+1·1	6·4	4	0	0	−13·7	0	..	0	−1·2	5·3	3·1	+0·4	0	0	0	0	0	0	0	0	0	0	0
Aligarh	28·4	+4·1	32·9	27,28	10.2	−0.1	5·4	3	0	0	−19·3	0	..	0	−2·1	7·8	5·8	+0·2	0	0	0	0	0	0	0	0	0	0	0
Bareilly	28·5	+4·6	31·7	29	11·9	+1·8	7·4	4	0	0	−24·6	0	..	0	−1·9	5·5	3·2	0	0	0	0	0	0	7	0	0	0	0	0
Meerut	27·6	+4·1	31·1	16,27	10·9	+2·0	5·9	4	...	0	−25·9	0	..	0	−2·2	..	6·3	..	0	0	0	0	0	0	0	0	0	0	0
Najibabad	26.7	..	30·1	20	8·5	..	3·1	3	0	0	..	0	..	0	..	5·3	2·4	..	0	0	0	0	0	0	0	0	0	0	0
Roorkee	26·0	+3.5	29·7	28	10·0	+1·7	5·8	4	0	0	−38·6	0	..	0	−2·8	5·2	3·3	−0·2	0	0	0	0	0	0	0	0	0	0	0
Dehra Dun	24·6	+3·9	27·3	16,17	10·4	+2·3	6·7	3	0	0	−62·7	0	..	0	−3·8	3·9	3·8	+1·1	0	0	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																														
New Delhi	27·9	+3·6	31·7	27	11·5	+2·1	6·4	5	0	0	−21·1	0	..	0	−1·7	15·8	11·3	+0·7	0	0	0	0	0	0	0	0	0	0	0
New Delhi (Palam Aerodrome)	28·3	..	32·8	26	9·7	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hissar	28·5	+3·9	33·9	27	9·0	+0·6	3·2	3	0	0	−13·7	0	..	0	−1·2	6·8	5·9	−0·4	0	0	0	0	0	2	0	0	0	0	0
Karnal	27·0	..	31·7	16	10·3	..	5·0	4	0	0	.	0	..	0	..	7·0	5·7	..	0	0	0	0	0	0	0	0	0	0	0
Patiala	27·2	..	30.6	28,29	10·3	..	3·9	4	0	0	−36·1	0	..	0	−2·7	10·6	8·2	..	0	0	0	0	0	0	0	0	0	0	0
Ambala	27·7	+4.9	31·0	26	10·3	+1·5	6·0	3,4	0	0	−47·5	0	..	0	−3·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	26·9	..	30·6	28	8·7	..	3.8	4	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	2	0	0	0	0	0
Chandigarh	23.3	..	29·8	28	10·3	..	5·5	4	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ludhiana	27·8	+6·0	32·0	26	9.3	+0·7	4·0	4	0	0	−34·3	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	25·6	..	29·1	26	7·0	..	1·4	4	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhatinda	27·0	..	31·8	27	8·1	..	2·2	4	0	0	..	0	..	0	..	6·6	4·2	..	0	0	0	0	0	0	0	0	0	0	0
Ferozepur	26·8	..	31·3	26	8·7	..	2·8	4	0	0	..	0	..	0	..	2·8	1·2	..	0	0	0	0	0	0	0	0	0	0	0
Amritsar	25·9	..	30·1	27	7·5	..	3·1	3,5	0	0	..	0	..	0	..	8·6	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Pathankot (Aerodrome)	25·3	..	28·9	28	9·5	..	4·4	3	0	0	..	0	..	0	..	7·5	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Adampur (Aerodrome) (R)																														
Himachal Pradesh																														
Bilaspur	26·2	..	28·9	12,27	6·6	..	3·5	3	0	0	..	0	..	0		4·0	2·4	..	0	0	0	0	0	14	0	0	0	0	0
Mandi	24·9	..	27·6	27	5·9	..	3·1	4	0	0	..	0	..	0		2·6	1·7	..	0	0	0	0	0	0	0	0	0	0	0
Jammu and Kashmir																														
Srinagar	9·3	+2·6	18·7	27	1·2	+2·6	−0·8	5,6	4·0	5·8	−66·3	4·0	2	1	−5·2	5·6	4·9	+1·0	0	3	2	0	0	0	0	0	0	0	0
Srinagar (Aerodrome)	9.3	..	17·8	27	0·7	..	−3.7	5	4·1	5·7	..	2·8	2	1	..	..	..	..	0	4	3	0	0	1	0	0	0	0	0
Gulmarg	Closed during winter months																													
Sonemarg†	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dras†	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leh	5·9	+5·3	10·2	12	7·4	+4·7	−15·0	3	2.0	2·0	−5·9	2·0	2	0	−0·9	6·0	5·2	+2·9	0	1	0	0	0	0	0	0	0	0	0
Skardu (R)																														
Gilgit (R)																														
Misgar (R)																														
Jammu*																														
Jammu (Aerodrome)	25·3	..	29·4	28	11·2	..	3·6	3	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Rajasthan (West)																														
Sri Ganganagar	28·1	+5·0	33·2	28	10·4	+2.8	4·9	4	0	0	−28·7	0	..	0	−2·0	5·4	3·0	−3·8	0	0	0	0	0	0	0	0	0	0	0
Churu	29·4	..	33·8	27	8·3	..	2·6	4	0	0	..	0	..	0	..	7·5	5·0	..	0	0	0	0	0	0	0	0	0	0	0
Bikaner	30·7	+4·5	34·9	22	7·8	−0·6	1·6	3	0	0	−6.9	0	..	0	−0·7	9·5	3·2	−2·6	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	31·1	..	34·4	29	10·0	..	1·6	3	0	0	..	0	..	0	..	8·5	5·6	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	30·6	..	34·7	15,28	11·9	..	5·8	3	0	0	−4·8	0	..	0	−0·5	8·4	5·1	..	0	0	0	0	0	0	0	0	0	0	0
Nagaur	30·6	..	34·6	28	10·0	..	3·0	3	0	0	..	0	..	0	..	5·5	3.8	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	31·9	+4·9	35·7	15	13·3	+1·9	5·3	4	0	0	−6·1	0	..	0	−0·6	5·0	4·7	−6·2	0	0	0	0	0	0	0	0	0	0	0
Barmer	32·6	+5·2	36·6	16	14·7	+1·6	7·3	4	0	0	−7·1	0	..	0	−0·6	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Rajasthan (East)																														
Pilani	29·7	..	34·2	28	9·5	..	2·7	4	0	0	..	0	..	0	..	9·6	7·8	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	29·4	..	33·9	15	10·8	..	4·8	4	0	0	..	0	..	0	..	4·7	3·2	..	0	0	0	0	0	0	0	0	0	0	0
Sikar	29·8	..	36.0	17	7·7	..	−0·3	3	0	0	..	0	..	0	..	7.7	5·2	..	0	0	0	0	0	0	0	0	0	0	0

†Data not reliable (R) Register not received. *Temporarily closed.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)—*Contd.*																														
Jaipur (Sanganer Aerodrome)	29.4	+4·6	33·1	15	10·9	+0.6	4·4	3	0	0	−8·1	0	..	0	−0·8	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dholpur	29·5	..	34·7	29	10·2	..	3·9	5	0	0	..	0	..	0	..	6·1	3·8	..	0	0	0	0	0	0	0	0	0	0	0
Tonk	30·4	..	34·4	16	8.8	..	3·3	4	0	0	..	0	..	0	..	5·3	3·2	..	0	0	0	0	0	0	0	0	0	0	0
Ajmer	29·0	+4·0	32·6	16	10·1	+0.2	2.8	4	0	0	−6·6	0	..	0	−0·7	6·2	4·0	+0.6	0	0	0	0	0	0	0	0	0	0	0
Kotah	31·7	+3·9	36·1	15	14.4	+1·4	8.5	5	0	0	−5·3	0	..	0	−0·5	2·5	1·5	−1.2	0	0	0	0	0	0	0	0	0	0	0
Chambal	31·4	..	35·0	16	9·7	..	2·1	4	0	0	..	0	..	0	..	6·8	3·9	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	31.7	+3.8	35·1	15,16	11·7	+0·1	4.7	4	0	0	−2·0	0	..	0	−0·4	4·9	3·0	−1·2	0	0	0	0	0	0	0	0	0	0	0
Udaipur	29·9	+3·6	36·6	29	10·1	−0·2	2·9	4	0	0	−3·6	0	..	0	−0·5	4·2	2·3	..	0	0	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam)	32·6	..	35.0	5,16	12·6	..	6·2	4	0	0	..	0	..	0	..	4·9	3·6	..	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																														
Gwalior	29·7	+2.8	34·0	29	10·5	+0·6	4·2	5	0	0	−8·1	0	..	0	−0·8	8·2	4·7	..	0	0	0	0	0	0	0	0	0	0	0
Sheopur Kalan	29·6	..	34·4	27	10·2	..	5·3	4	0	0	..	0	..	0	..	6·8	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Guna	30·5	+3·2	33·4	17,23	10·3	+0·2	3·8	4,5	0	0	−4·8	0	..	0	−0·6	9·3	5·1	..	0	0	0	0	0	0	0	0	0	0	0
Rajgarh	31·8	..	35·6	23	10·8	..	3·9	4	0	0	..	0	..	0	..	7·1	5·1	..	0	0	0	0	0	0	0	0	0	0	0
Neemuch	30·8	+3·7	34·0	27	12·8	+1·7	5·6	4	0	0	−3·8	0	..	0	−0.4	6·5	5·3	−2·1	0	0	0	0	0	0	0	0	0	0	0
Ratlam	31·9	..	35·8	27	14·5	..	10·1	7	0	0	..	0	..	0	..	9.8	6·9	..	0	0	0	0	0	0	0	0	0	0	0
Alirajpur	33·3	..	36·6	26	12·9	..	8·0	6,7	0	0	..	0	..	0	..	6·5	3·1	..	0	0	0	0	0	0	0	0	0	0	0
Indore	31·1	+2·4	34·4	27	12·1	+1·5	6·0	5	0	0	−3·6	0	..	0	−0·5	10·1	7·6	..	0	0	0	0	0	0	0	0	0	0	0
Ujjain	31.9	..	35.2	27	10.0	..	4.2	5	0	0	..	0	..	0	..	..	4·7	..	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	30·6	+2·4	34·3	27	12·4	−0.2	7·6	4	0	0	−3·8	0	..	0	−0·5	9·6	7·6	−0.1	0	0	0	0	0	0	0	0	0	0	0
Khandwa	34·2	+2·7	37·7	28	13·0	−0.3	6·8	5,6	0	0	−4·1	0	..	0	−0·4	7·5	5·2	−0·3	0	0	0	0	0	5	0	0	0	0	0
Hoshangabad	31·7	+2·3	35·1	27,28	13·2	−1·0	6·4	6	0	0	−9·7	0	..	0	−0·9	5·2	3·3	−0·2	0	0	0	0	0	0	0	0	0	0	0
Betul	31·3	..	34·4	28	12·2	..	4·6	6	0	0	..	0	..	0	..	4·8	2·7	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	30·7	..	33·2	28	12·0	..	7·5	4	0	0	..	0	..	0	..	6·5	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Seoni	30.8	+2·5	35·5	17	13·4	+0·7	9·3	6	0	0	−20·6	0	..	0	−2·0	7·5	4·6	+0·1	0	0	0	0	0	0	0	0	0	0	0
Sagar	29·6	+2·3	32·6	29	16·1	+2·9	10·0	6	0	0	−11·9	0	..	0	−1·2	7·5	5·8	..	0	0	0	0	0	0	0	0	0	0	0
Nowgong	30·5	+3·8	35·1	17	9·3	−1·1	3·8	4	0	0	−14·5	0	..	0	−1·3	5·8	2·9	+0·3	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																														
Sutna	29·8	+3.5	33·6	17	11·1	−0·1	5·7	4	0	0	−19·8	0	..	0	−1·8	5·3	3·7	−0·5	0	0	0	0	0	0	0	0	0	0	0
Sidhi	30·0	..	33·4	17	10·0	..	4·5	4,5	0	0	..	0	..	0	..	6·6	3·4	..	0	0	0	0	0	0	0	0	0	0	0
Umaria	30·1	+2·8	33·8	29	10·2	−0·7	4·7	5	0	0	−25·4	0	..	0	−1·9	1·9	1·0	−3·0	0	0	0	0	0	0	0	0	0	0	0
Jabalpur	31·9	+4·5	35·4	23	11·3	+0·7	5·8	5	0	0	−19·3	0	..	0	−1·7	4·7	3·0	+0·3	0	0	0	0	0	0	0	0	0	0	0
Mandla	30·5	..	33·3	28	9·0	..	3·0	5	0	0	..	0	..	0	..	2·4	1·1	..	0	0	0	0	0	1	0	0	0	0	0
Pendra	28·5	+2.9	31·8	28	13·9	+1·4	8·4	4	0	0	−37·3	0	..	0	−2·9	9·2	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Ambikapur	28·5	..	32·4	18	10·5	..	5·4	5	0	0	..	0	..	0	..	8·3	6·1	..	0	0	0	0	1	0	0	0	0	0	0
Champa	32·2	..	35·5	20	15·3	..	10·5	5	0.3	1.7	..	1·7	29	0	..	6.3	5·0	..	0	1	0	0	1	0	0	0	0	0	0
Raigarh	32.6	..	35·5	18,28	13·6	..	9·8	2	0	3.2	..	3·2	29	1	..	5·0	3·5	..	0	1	0	0	0	0	0	0	0	0	0
Raipur	32·5	+2·5	35·6	18	16·4	+0.8	11·8	5	0	0	−22·1	0	..	0	−1 8	6·9	4·7	−1·1	0	0	0	0	0	0	0	0	0	0	0
Kanker	32·1	+2·3	35·0	28	13·7	−1.0	8·9	6	0	0	−21·8	0	..	0	−2·1	3·6	2·8	−1·5	0	0	0	0	0	0	0	0	0	0	0
Jagdalpur	31·9	+1·6	34·2	28	13·2	−1·1	9·8	7	0	0	−27·4	0	..	0	−1·6	5·6	2·7	..	0	0	0	0	0	0	0	0	0	0	0
Gujarat																														
Deesa.	33·7	..	36·5	15	12·8	..	5·1	4	0	0	..	0	..	0	..	8·3	7·1	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	32·8	..	36·4	15	13·6	..	5.7	4	0	0	..	0	..	0	..	5.8	5·0	..	0	0	0	0	0	0	0	0	0	0	0
Idar	33·4	..	36·3	16	18·0	..	9·5	4	0	0	..	0	..	0	..	7·2	7·2	..	0	0	0	0	0	0	0	0	0	0	0
Ahmedabad	33·9	+3·5	37·0	28	14·2	+0·2	8·5	4	0	0	−2·0	0	..	0	−0·2	7·9	4·3	+0·1	0	0	0	0	0	0	0	0	0	0	0
Dohad	32·5	+2.1	35·8	28	15·1	+1·5	9·6	5	0	0	−1·0	0	..	0	−0·2	(c) 8·6	(d) 7·4	..	0	0	0	0	0	0	0	0	0	0	0
Baroda	35·5	+3·6	38·9	28	13·7	+1·0	9·1	4	0	0	−5·3	0	..	0	−0·3	4·0	3·2	−0·5	0	0	0	0	0	0	0	0	0	0	0
Baroda (Aerodrome)	35·2	..	38.7	27	14·0	..	7·8	4	0	0	..	0	..	0	..	8.7	6·6	..	0	0	0	0	0	0	0	0	0	0	0
Broach	37·1	..	40.4	27	15·3	..	9·7	4	0	0	..	0	..	0	..	6·3	5·4	..	0	0	0	0	0	0	0	0	0	0	0
Surat	36·6	+4·7	39.5	27	16·7	+1·1	11·2	5	0	0	−2·0	0	..	0	−0·2	7·7	7·3	+2·2	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																														
Naliya	31·7	..	35·7	13,15	10·9	..	4·8	4	0	0	..	0	..	0	..	12·8	9·1	..	0	0	0	0	0	7	0	0	0	0	0
Bhuj (Aerodrome)	31·9	+3·3	35·0	29	11·3	−1·6	4·9	3	0	0	−4·3	0	..	0	−0·4	11·0	7·7	−1·6	0	0	0	0	0	0	0	0	0	0	0
Bhutakia Bhimasar	32·7	..	36.7	15	16·6	..	10.2	4	0	0	..	0	..	0	..	14.1	14·1	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	30·2	..	32·5	4 days	17·2	..	11·4	5	0	0	..	0	..	0	..	11·1	12·0	..	0	0	0	0	0	0	0	0	1	0	0
Mandvi	..	..	..	..	15·9	..	10.0	21	0	0	..	0	..	0	..	16·4	14·8	..	0	0	0	0	0	0	0	0	0	0	0
Dwarka	28·6	+2·8	34·4	13	17·6	+0·3	13·1	4	0	0	−6.1	0	..	0	−0·5	18·0	14.7	+0·7	0	0	0	0	0	0	0	0	0	0	0
Porbander	32·6	..	37·9	15,16	17·6	..	12·2	5	0	0	..	0	..	0	..	(l) 13·5	(m) 11·2	..	0	0	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15.1	12·2	..	..	..	0	0	0	0	0	0	0	0	0

(d) Mean of 27 days. (c) Mean of 28 days (m) Mean of 18 days (l) Mean of 19 days

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean [illegible] 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—*Contd.*																													
Jamnagar	30·5	+1.7	32.9	16,21	13·0	+1.0	4·7	4	0	0	−2·0	0	..	0	−0.2	..	..	..	0	0	0	0	0	2	0	0	0	0	0
Rajkot (Aerodrome)	33·4	+3·1	36.6	15	13·5	+1·1	7·2	5	0	0	−2·3	0	..	0	−0·3	15·3	11·7	..	0	0	0	0	0	1	0	0	0	0	0
Surendranagar	33·7	..	36·7	15	16·2	..	10·9	5	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar	34·4	+3.7	38·0	16	15·1	+0·9	8·9	5	0	0	−1·5	0	..	0	−0·2	8·7	6·6	−0·2	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar (Aerodrome.)	32·9	..	36·2	28	16·1	..	10·2	4	0	0	..	0	..	0	..	14·3	12·6	..	0	0	0	0	0	0	0	0	0	0	0
Mahuva	34·3	..	37·6	27	18·1	..	12·6	4	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Keshod	34·8	..	38.0	15,25	13.6	..	7.8	5	0	0	..	0	..	0	..	16·0	18·5	..	0	0	0	0	0	1	0	0	0	0	0
Veraval	32·5	..	35·8	23	15·6	..	12·3	4	0	0	−1·8	0	..	0	−0·2	18·5	14·8	..	0	0	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu	29·0	+0·9	32·5	24	17·5	+0·5	14.6	27	0	0	−0.3	0	..	0	0	17·1	11·0	−0·4	0	0	0	0	0	0	0	0	0	0	0
Bombay (Colaba)	32·6	+4·2	35·8	13	21·2	+1·5	18·3	5	0	0	−2.0	0	..	0	−0·1	9.3	7·5	−3·8	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz Aerodrome).	34·3	+4·9	38·0	25	18·4	+2·7	14·7	5	0	0	−1·0	0	..	0	0.1	12·4	8·5	..	0	0	0	0	0	0	0	0	0	0	0
Alibag	30·5	+2·4	34·5	25	19·8	+1·5	15·6	5	0	0	−0·8	0	..	0	−0·2	..	7·4	−1·3	0	0	0	0	0	0	0	0	0	0	0
Harnai	30·1	+2·6	34·2	25,27	24·0	+2·9	22·1	5	0	0	−0·3	0	..	0	0	10·6	9·1	−4·4	0	0	0	0	0	0	0	0	0	0	0
Ratnagiri	32·6	..	35·2	14,28	20·3	..	18·8	8	0	0	−1·0	0	..	0	−0·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Devgad	31·9	+2·5	35·6	27	22·3	+0·6	21·0	19	0	0	0	0	..	0	0	13·1	10·0	−10·4	0	0	0	0	0	0	0	0	0	0	0
Vengurla	33·4	..	37·1	26	18·8	..	15·6	19	0	0	..	0	..	0	..	10·9	6·2	..	0	0	0	0	0	1	0	0	0	0	0
Maharashtra (Including Marathawada)																													
Nandurbar	35.2	..	37·8	28,29	18·1	..	15·2	6	0	0	..	0	..	0	..	7·4	4·9	..	0	0	0	0	0	0	0	0	0	0	0
Jalgaon	35·2	..	38·5	28	13.9	..	7·9	7	0	0	−2·8	0	..	0	−0·4	11·3	9·7	..	0	0	0	0	0	0	0	0	0	0	0
Malegaon	34·9	+2·7	37·6	28	13·4	+0·8	8·4	7	0	0	−2·3	0	..	0	−0·2	7·5	5·8	−1·0	0	0	0	0	0	0	0	0	0	0	0
Deolali	33·5	..	36·1	28	13·3	..	8·7	7	0	0	..	0	..	0	..	8·7	5·1	..	0	0	0	0	0	0	0	0	0	0	0
Aurangabad	33·6	+2·2	36·0	28,29	17.9	+2·6	15·0	7	0	0	−4.3	0	..	0	−0.4	8·7	7·0	−1·7	0	0	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome)	33·1	..	35·8	28	12·1	..	6·8	7	0	0	..	0	..	0	..	10·2	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	0	0	−3·1	0	..	0	−0·3	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ahmednagar	34·2	+2·8	36·0	28	14·6	+1·3	..	..	0	0	−3·3	0	..	0	−0·3	8·6	5·9	−1·8	0	0	0	0	0	0	0	0	0	0	0
Parbhani	34·0	..	37·1	29	15·3	..	11·0	8	0	0	−7.4	0	..	0	−0.7	8·7	5·9	..	0	0	0	0	0	0	0	0	0	0	0
Nanded	34·3	..	37.4	28,29	15·6	..	10·4	7	0	0	..	0	..	0	..	6·1	3·4	..	0	0	0	0	0	0	0	0	0	0	0
Poona	34·3	+1·8	37·2	28	14 1	+1·3	10 5	9	0	0	−1·5	0	..	0	−0·2	4·3	2·2	−4·6	0	0	0	0	0	0	0	0	0	0	0
Poona (Lohagaon Aerodrome)	33·5	..	35·8	28	16·0	..	12·4	7	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Baramati	34·1	..	36·5	28,29	14·8	..	11.2	8,9	0	0	..	0	..	0	..	9·6	7·2	..	0	0	0	0	0	0	0	0	0	0	0
Jeur	33·8	..	37·0	29	14·0	..	10·5	7,9	0	0	..	0	..	0	..	10·5	6·3	..	0	0	0	0	0	0	0	0	0	0	0
Sholapur	34·0	+0·4	36·7	29	16·4	−0·7	14·9	4days	0	0	−3·3	0	..	0	−0·3	8·8	6·8	−2·1	0	0	0	0	0	0	0	0	0	0	0
Miraj	33·8	+1·3	36·4	29	15·6	+0·6	12·3	8	0	0	0	0	..	0	0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Kolhapur	34·3	+1·5	36·3	28	15·8	−0·1	13·2	17,19	0	0	−0.5	0	..	0	−0·1	11·4	8.2	−0·8	0	0	0	0	0	0	0	0	0	0	0
Vidarbha																													
Buldhana	31·9	..	35·0	28	18·1	..	14·5	6	0	0	..	0	..	0	..	10·4	7·0	..	0	0	0	0	0	0	0	0	0	0	0
Akola	34·4	+1·8	37·9	28	15·2	+0·9	9·8	7	0	0	−7·6	0	..	0	−0·6	6·2	4·4	−0·6	0	0	0	0	0	0	0	0	0	0	0
Amravati	33·7	+1·9	37·0	28,29	17·4	+0·7	14.2	9	0	0	−11·2	0	..	0	−0·8	9·5	8·5	+2·1	0	0	0	0	0	0	0	0	0	0	0
Yeotmal	32·7	..	36·8	29	18·2	..	14.0	6	0	0	..	0	..	0	..	8·7	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Nagpur	32·8	+0·7	36·0	29	14·3	−1·0	8·6	7	0	0	−16·5	0	..	0	−1.4	7·3	5·8	..	0	0	0	0	0	0	0	0	0	0	0
Gondia	31·9	..	34·9	27	14·5	..	9·7	6	0	0	..	0	..	0	..	4·8	2·4	..	0	0	0	0	0	0	0	0	0	0	0
Brahmapuri	33·0	..	36·2	29	14·9	..	10·6	8	0	0	..	0	..	0	..	5·6	3·1	..	0	0	0	0	0	0	0	0	0	0	0
Chanda	33·7	+1·3	38·1	29	..	..	..	..	0	0	−20·6	0	..	0	−1·3	6·3	4·0	+0·6	0	0	0	0	0	0	0	0	0	0	0
Sironcha	34·3	..	36·7	28	16·9	..	11·6	7	0	0	..	0	..	0	..	5·0	2·9	..	0	0	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Nellore	32·0	+0·1	34·3	29	19·9	−1·1	17·3	17	0	0	−6·1	0	..	0	−0·5	9·2	5·5	+0·2	0	0	0	0	0	0	0	0	0	0	0
Ongole	31·9	..	35·3	21	20.2	..	17·4	3	0	0	..	0	..	0	..	8·1	5·7	..	0	0	0	0	0	0	0	0	0	0	0
Rentachintala	35·2	+1·6	38·0	29	18·5	−2·1	15·7	19	0	0	−13·5	0	..	0	−1·3	5·3	3·7	−4·2	0	0	0	0	0	0	0	0	0	0	0
Gannavaram	33·3	..	35·3	25	19·0	..	15·5	19	0	0	..	0	..	0	..	10·8	7·0	..	0	0	0	0	0	1	0	0	0	0	0
Masulipatam *	30·1	0	33·0	21,24, 25	19·4	−0·9	18·0	6 days	0	0	−13·5	0	..	0	−0·6	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Nidadavolu.	33·2	..	..	..	16·7	..	13·0	19	0	0	..	0	..	0	..	7·4	5·0	..	0	0	0	0	0	0	0	0	0	0	0
Kakinada	30·0	+0·2	33·8	24,29	19·2	−1·7	17·4	19	0	0	−8·1	0	..	0	−0·6	11·1	7·6	0	0	0	0	0	0	0	0	0	0	0	0
Visakhapatnam	32·1	+0·4	35·2	24	16.9	−2·9	13·9	8	0	0	−23·9	0	..	0	−1.1	13.7	6·9	+1·8	0	0	1	0	0	0	0	0	0	0	0
Calingapatam	31·8	+1.6	35.9	20	..	..	..	..	0	0	−15·5	0	..	0	−1·3	10·9	7·2	−0·8	0	0	0	0	0	0	0	0	0	0	0
Telangana																													
Ramagundam	34·8	..	38·0	29	15·9	..	11·4	7	0	0	..	0	..	0	..	6·5	3·9	..	0	0	0	0	0	0	0	0	0	0	0
Nizamabad*	33·3	+0·6	3·7	29	16·5	−0·2	11·0	7	0	0	−17·0	0	..	0	−1.2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Mahbubnagar	32·4	..	35·4	29	16·8	..	14·9	17	0	0	..	0	..	0	..	11·8	8.4	..	0	0	0	0	0	0	0	0	0	0	0
Hyderabad (Begumpet Aerodrome).	31·6	+0·9	35·4	29	15·4	−1·4	13·2	19	0	0	−9·1	0	..	0	−0·9	11·5	6·2	−2·0	0	0	0	0	0	1	0	0	0	0	0
Hakimpet	30·7	..	34·1	29	18·5	..	15·4	7	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Hanamkonda	34·2	+2·3	37·1	26	18·5	−0·3	15·1	2	0	0	−11·7	0	..	0	−1·1	8·5	6·5	−1·4	0	0	0	0	0	0	0	0	0	0	0

*Data obtained from Daily Weather Telegram.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean Maximum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 mm and 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Telangana—*Contd.*																													
Bhadrachallam	34·7	..	37·0	28	17·4	..	13·4	2	0	0	..	0	..	0	..	5·9	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Khammameth	34·7	..	36·9	23,25	19·0	..	16·4	2	0	0	..	0	..	0	..	4·7	3·5	..	0	0	0	0	0	1	0	0	0	0	0
Rayalaseema																													
Arogyavaram	29·9	..	34·0	29	15·3	..	11·6	2	0	0	..	0	..	0	..	8·7	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Cuddapah	34·0	−0·6	38·4	29	18·7	−2·2	14·8	17	0	0	−3·1	0	..	0	−0·2	10·0	7·1	−5·8	0	0	0	0	0	0	0	0	0	0	0
Anantapur	33·4	..	37·4	29	16·8	..	13·5	18	0	0	−7·6	0	..	0	−0·4	11·8	10·0	..	0	0	0	0	0	0	0	0	0	0	0
Kurnool	35·2	+1·0	37·7	29	18.0	−0·9	13·6	18	0	0	−7·1	0	..	0	−0·5	9·1	5·8	+0·2	0	0	0	0	0	0	0	0	0	0	0
Madras State																													
Palayamkottai	32·1	..	33·7	17	22·4	..	19·9	3	29·2	43·2	+13·5	12·8	11	4	+2·3	12·4	9·2	..	0	4	0	0	0	0	0	0	0	0	0
Tuticorin	27·6	..	29·4	21	22·5	..	18·3	3	1·0	20·0	..	18·0	23	1	−0·7	21·7	20·8	..	0	3	0	0	0	0	0	0	0	0	0
Pamban	28·9	−0·4	30 4	29	24·4	+0·5	22·1	24	30·8	76 6	+54·8	28·5	22	4	+2·6	13·6	15·3	+4·5	1	4	0	0	1	0	0	0	0	0	0
Tondi	29·2	..	31·6	21	22·1	..	18·6	3	9·2	26·7	..	16·0	26	3	..	20·2	17·0	..	0	4	0	0	1	0	0	0	0	0	0
Mathurai	32·1	−0·3	34·5	21	21·5	+0·7	18·8	8	0·4	4·4	−9·1	4·0	22	1	+0·3	9·7	6·7	+0·6	0	2	0	0	0	0	0	0	0	0	0
Mathurai (Aerodrome)	32·1	..	34·2	29	20·5	..	16·5	8	0·8	2·8	..	1·8	22	0	..	..	..	..	1	2	0	0	0	0	0	0	0	0	0
Nagapattinam	28·6	−0·7	31·1	29	23·0	+0·1	19·2	3	0	16·1	−5·0	8·2	26	2	+1·0	18·0	17·6	+6·8	0	3	0	0	0	0	0	0	0	0	0
Tiruchirapalli	32·5	−0·6	34·6	29	21·0	+0·3	16·7	3	0	10·8	−1·7	5·0	22	2	+1·4	14·1	11·3	+5·2	0	3	0	0	0	0	0	0	0	0	0
Coimbatore	32·3	−0·4	35·6	29	19·7	+0·5	14·9	18	0	2·0	− 7.1	2·0	28	0	−0·5	10·1	6·8	+2·6	0	1	0	0	1	0	0	0	0	0	0
Coimbatore (Peelamedu Aerodrome)	32·2	..	35·1	29	18·4	..	13·0	18	0	0	..	0	..	0	..	15·7	11·5	..	0	0	0	0	1	0	0	0	0	0	0
Salem	33·8	−0·1	36·8	29	20·0	+0·6	15·4	18	0	0	−8·4	0	..	0	−0·6	10·6	11·6	+4·4	0	0	0	0	0	0	0	0	0	0	0
Kallakurichi	32·3	..	36·0	29	..	..	..	..	0	0	..	0	..	0	..	(d) 10·9	(d) 8·3	..	0	0	0	0	0	0	0	0	0	0	0
Cuddalore	28·9	−0·6	31·8	29	20·0	−1·1	15·9	3	0	0	−22·9	0	..	0	−1·2	14·7	8·1	+2·1	0	0	0	0	0	0	0	0	0	0	0
Tirupattur	32·9	..	35·6	28,29	16·7	..	11·5	18	0	0	..	0	..	0	..	3·4	2·7	..	0	0	0	0	0	0	0	0	0	0	0
Vellore	32·3	+0·7	36·5	29	17·4	−1·6	12·3	17	0	0	−6·3	0	..	0	−1·6	10·6	7 1	+2·8	0	0	0	0	1	0	0	0	0	0	0
Tambaram (Aerodrome)	..	..	..	..	20·1	..	16·6	3	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Madras	30·3	−0·1	33·4	29	20·5	+0·3	17·4	3	0	0	−10·4	0	..	0	−0·7	14·3	9·0	−1·5	0	0	0	0	0	0	0	0	0	0	0
Madras (Nungambakkam)	29·7	..	32·0	21,29	20·4	..	16·2	3	..	0	..	0	..	0	..	..	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	33.0	..	36·0	12,13	19·0	..	15·4	19	0	0	−1·0	0	..	0	−0·1	10·2	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Honavar	33·2	+1·8	36·1	24	17·5	−2·9	14·2	18	0	0	−0·3	0	..	0	..	8·6	7·6	+2·5	0	0	0	0	0	0	0	0	0	0	0
Mangalore	32·6	+1·4	35·1	24	22·2	−0·3	19·6	18	0	0	−1·8	0	..	0	−0·1	10·8	8·5	+0·3	0	0	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe Aerodrome)	34·0	..	36·2	26	21·3	..	17·9	18	0	0	..	0	..	0	..	11·2	7·6	..	0	0	0	0	0	1	0	0	0	0	0
Interior Mysore (North)																													
Bidar	31·7	+0·5	35·5	29	19·3	+0·7	16·5	8	0	0	−9·1	0	..	0	−0·7	13·5	10·7	+0·7	0	0	0	0	0	0	0	0	0	0	0
Gulbarga	34·0	+0·5	36·6	29	17·3	−0·6	15·6	8,17,21	0	0	−6·9	0	..	0	−0·5	12·1	10·3	+1·6	0	0	0	0	0	0	0	0	0	0	0
Bijapur	33·7	+0·9	36·9	28	18·5	+0·8	15·4	8	0	0	−2·3	0	..	0	−0·2	(f) 7·6	(g) 6·0	+0·5	0	0	0	0	0	0	0	0	0	0	0
Belgaum	32·6	+0·2	35·3	29	15·6	+0·4	12·9	17	0	0	−1·3	0	..	0	−0·1	10·3	5·0	0	0	0	0	0	0	0	0	0	0	0	0
Belgaum (Sambre Aerodrome)	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Gadag	33·5	+0·9	36·1	29	18·7	+0·4	17·3	9,10	0	0	−4·1	0	..	0	−0·4	11·5	8·7	+1·8	0	0	0	0	0	0	0	0	0	0	0
Raichur	33·4	0	37·0	29	..	..	..	..	0	0	−7.1	0	..	0	−0·6	11·2	10·4	+1·9	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	33·6	−0·7	37·2	29	19·4	+0·5	16·1	18	0	0	−4·6	0	..	0	−0·3	9·7	5·9	+1·2	0	0	0	0	0	0	0	0	0	0	0
Chitaldurg	31·0	−1·0	34·8	29	18·8	−0·2	16·0	2	0	0	−2·8	0	..	0	−0·2	9·4	6·7	+0·6	0	0	0	0	0	0	0	0	0	0	0
Shimoga	32·6	..	35·5	29	14·4	..	10·4	18	0	0	..	0	..	0	..	8·5	4·3	..	0	0	0	0	0	4	0	0	0	0	0
Balchonnur	29.9	+0·8	32·2	28	15·8	+0·2	13·6	3	..	0	−1·5	0	..	0	−0·2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hassan	30·4	−0·2	33·8	29	15·2	−0·1	12·0	18	0	0	−6·1	0	..	0	−0·4	7·1	3·9	−0·8	0	0	0	0	0	0	0	0	0	0	0
Mysore	..	..	..	..	..	..	..	..	0	0	−6·1	0	..	0	−0·5	12·0	9.9	+2·3	0	0	0	0	0	1	0	0	0	0	0
Bangalore (Central Observatory)	29·8	0	33·1	29	16·0	+0·4	12·4	15	0	0	−6·6	0	..	0	−0·4	11·5	10·3	+2·7	0	0	0	0	0	0	0	0	0	0	0
Bangalore (Aerodrome)	30·9	..	34·3	29	16·0	..	12·3	2	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Kerala																													
Kozhikode	32·1	+0·7	33·0	29	22·7	−0·1	19·4	18	0	0	−4·8	0	..	0	−0·3	14·3	10·9	+1·1	0	0	0	0	0	0	0	0	0	0	0
Palghat	35·5	..	38·0	28	22·7	..	18·8	4	0	0	..	0	..	0	..	13·5	9·5	..	0	0	0	0	0	0	0	0	0	0	0
Fort Cochin	31·9	+1·3	34·0	24,27	24·4	+0·2	22·3	17,18	0	3.4	−16·9	2 0	28	0	−1·2	11·8	8·0	+0·3	0	2	0	0	0	0	0	0	0	0	0
Cochin (Naval Air Station)	32·3	..	34·5	27	23·2	..	20·7	14,17	0	2·0	..	1 4	27	0	..	11·5	7·4	..	0	2	0	0	3	0	0	0	0	0	0
Alleppey	32·6	..	35·8	14	23·7	..	19·9	14	0	2·4	..	2·4	27	0	..	15·3	10·5	..	0	1	0	0	2	0	0	0	0	0	0
Punalur	34·7	..	36·4	21,29	21·3	..	17·9	2	0	3·0	..	3·0	27	1	..	8·2	5·6	..	0	1	0	0	1	0	0	0	0	0	0
Trivandrum	32·3	+0·6	34·4	15	22·5	−0·4	20.7	4,5,18	15·0	12·3	−6·8	4·4	27	3	+1·7	7·1	5·2	−0·3	1	3	0	0	6	0	0	0	0	0	0
Trivandrum (Aerodrome)	31·7	..	32·7	22	21·9	..	19·2	17	..	13.9	..	8·6	22	2	..	..	6·5	..	0	4	0	0	5	0	0	0	0	0	0
Arabian Sea Islands																													
Minicoy*																													
Amini Divi*																													

*Data given as addenda in December, 1960 issue. (d) Mean of 27 days. (f) Mean of 25 days. (g) Mean of 24 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm or more)		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (1.0 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hill Stations excluding Kashmir																													
Walong (R)																													
Kohima	19·6	..	22·3	18,19, 20	11·8	..	8·9	4,23	4·4	7·6	..	7·2	20	1	..	..	..	..	2	1	0	0	0	0	0	0	0	0	0
Aijal	24·7	..	27·8	19	15·4	..	11·0	1	5·0	2·5	..	2·5	29	1	..	1·2	0·9	..	0	1	0	0	1	0	0	0	0	0	0
Shillong	19·6	+2·7	22·4	19	7·7	+1·9	4·4	1	0·5	12·3	—14·6	12·3	13	1	—2·7	0	0	—3·7	0	1	0	0	0	0	0	0	0	0	0
Cherrapunji	20·0	+3·2	21·4	20	11·3	+2·1	8·0	1	0	0	—53·5	0	..	0	—3·5	14·1	7·1	—0·9	0	0	0	0	0	0	0	0	0	0	0
Darjiling (Raj Bhawan).	13·4	+3·3	15·7	21	6·4	+2·6	4·2	1	14·0	15·3	—14·9	9·7	13	2	—0·6	2·4	1·6	—1·8	0	4	0	0	1	18	1	0	0	0	0
Kalimpong	19·7	+3·4	23·6	5	11·2	+2·1	4·5	13,15	0	15·2	—13·5	15·2	17	1	—2·0	5·5	4·5	—6·6	0	1	0	0	0	0	0	0	0	0	0
Mukteswar (Kumaon).	16·8	+6·5	18·9	22	6·5	+4·4	2·9	18	0	0	—64·3	0	..	0	—4·7	14·6	13·9	+4·6	0	0	0	0	0	0	0	21	0	0	0
Nainital	16·2	..	18·9	2	6·1	..	2·8	5	0	0	..	0	..	0	..	9·7	7·4	..	0	0	0	0	0	0	0	0	0	0	0
Joshimath	18.3	..	20·4	5	5·4	..	1·9	5	0	0	..	0	..	0	..	7·2	7·9	..	0	0	0	0	1	0	0	0	0	0	0
Badrinath									Closed		durniag	winter		month															
Lokpal	—2·2	..	0·3	29	—7·3	..	—9·6	2	0	25·3	..	12·7	2	4	..	..	..	..	0	7	7	5	1	4	0	25	0	0	0
Mussooree	16·8	+6·5	21·7	12	7·2	+4·0	2·7	3	0	0	—86·6	0	..	0	—5·2	9·6	7·7	+0·5	0	0	0	0	0	0	0	0	0	0	0
Simla	15·4	+6·1	18·4	8,9	7·2	+4·9	0·7	3	0	0	—74·2	0	..	0	—5·7	5·0	3·8	+1·1	0	0	0	0	0	0	0	0	0	0	0
Dharampore	..	..	..	..	..	..	..	..	..	0	—83·6	0	..	0	—5·5	..	..	..	0	0	..	..	..	..	..	..	..	..	1
Dalhousie (R)																													
Dharamashala	20·8	..	23·9	15	11·1	..	6·2	3	0	0	..	0	..	0	..	6·1	4·6	..	0		0	0	2	0	0	0	0	0	0
Abu	25·5	+5·5	28·9	8	13·5	+1·8	7·8	4	0	0	—5·8	0	..	0	—0·6	1·6	0·9	—6·2	0	0	0	0	0	0	0	0	0	0	0
Pachmarhi	27·3	+3·2	30·0	27	9·5	—0·9	3·1	4	0	0	—17·0	0	..	0	—1·5	6·0	3·9	—1·1	0	0	0	0	0	0	0	0	0	0	0
Mahabaleshwar	28·2	+3·0	30·6	28	17·9	+3·3	16·1	9	0	0	—2·5	0	...	0	—0·1	8·3	9·1	—0·2	0	0	0	0	0	0	0	0	0	0	0
Nandi Hills	23·7	..	25·4	19	12·5	..	11·4	19	..	0	..	0	..	0	..	..	12·6	..	0	0	0	0	0	17	0	0	0	0	0
Mercara	27·3	+0·3	30·0	29	15·5	+0·5	13·0	3	0	0	—6·1	0	..	0	—0·5	13·2	10·1	+4·8	0	0	0	0	0	0	0	0	0	0	0
Kodaikanal	17·7	+0·1	20·4	5,18	8·4	—0·2	6.0	14	0·6	11·9	—27·0	8·2	26	1	—1·4	13·8	14·5	+1·9	1	4	0	0	0	0	0	2	0	0	0
Ootacamund	20·6	—0·9	23·1	28	6·5	—0·1	1·7	9	0	0	—12·9	0	..	0	—1·1	4·5	2·3	—2·2	0	0	0	0	0	0	0	12	0	0	0
Coonoor	21·5	+0·5	23·8	3	9·3	—0·2	5·7	20	..	1·0	—71·6	1.0	28	0	—2·7	..	6·6	+1·3	0	1	0	0	0	0	0	0	0	0	0
Nepal																													
Katmandu	22·4	..	24·4	12,13	4·9	..	2·4	1	0	7·6	..	7.6	13	1	..	1·9	1·2	..	0	1	0	0	2	10	0	0	0	0	0
Sikkim																													
Lachen	10·6	..	15.0	5	1·0	..	—1·1	2,3	..	68·2	..	24·0	29	7	..	..	..	..	1	11	..	..	..	..	..	..	..	..	..
Tibet																													
Yatung (R) (Chumbi)																													
Ceylon																													
Colombo	30·4	—0·7	34.3	13	22·3	0	17.8	6	56·4	170·4	+115·0	65·8	23	9	+5·5	..	..	..	0	9	0	0	3	0	0	0	0	0	0
Trincomalee	27·5	—1·9	30.4	29	24·5	+0·6	21.9	3	79·3	307·3	+247·9	112·3	23	11	+8·1	..	..	..	0	14	0	0	1	0	0	0	0	0	0
Batticoloa	27·6	..	29.6	29	23·3	..	20.8	3	246.5	700·6	..	114·3	22	18	..	..	..	..	0	18	0	0	1	0	0	0	0	0	0
Hambantota	28·7	—1·2	31.4	7	22·6	+0·2	19.8	7	38·4	205·3	+162·9	64·8	21	12	+9·2	..	..	..	0	12	0	0	3	0	0	0	0	0	0
Mannar	28·8	..	31.4	28	23·7	..	19.8	3	23.2	69.1	..	33·8	27	8	..	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories—																													
Damodar Catchment																													
Bokaro	30·3	..	34·2	19	10·8	..	5·6	5	0	0	..	0	..	0	..	7·5	4·6	..	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	26·8	..	30·4	18	12·3	..	5·8	4	0	4·3	..	4·3	19	1	..	9·2	5·8	..	0	1	0	0	0	0	0	0	0	0	0
Tilaiya	28·1	..	31·4	18	13·1	..	6·9	5	0	2·2	..	2·2	19	0	..	7·9	6·8	..	0	1	0	0	0	0	0	0	0	0	0
Ramgarh	30·3	..	34·1	18	11·5	..	6·1	1,5	0	1·0	..	1·0	19	0	..	4·2	2·0	..	0	1	0	0	0	0	0	0	0	0	0
Panchet Hills	31·1	..	34·7	28	15·9	..	11·2	5	1·4	0	..	1·4	29	0	..	7·9	5·4	..	0	1	0	0	1	0	0	0	0	0	0
Durgapur	31·3	..	35·2	18	15·0	..	9·4	5	0	0	..	0	..	0	..	10·0	6·3	..	0	0	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Hirakud	31·8	..	35·0	24	16·3	..	11·8	1	0	2·8	..	2·8	29	1	..	4.8	3·1	..	0	1	0	0	1	0	0	0	0	0	0
Khijrawan	31·3	..	34·3	20	12·8	..	8.7	6	0	0	..	0	..	0	..	6·4	2·9	..	0	0	0	0	0	0	0	0	0	0	0
Sonepur	32·2	..	35·6	24	12·5	..	10·5	7	..	0	..	0	..	0	..	..	2·4	..	0	0	..	..	..	..	..	..	..	..	..
Ginabahar	30·9	..	34·2	18	11·2	..	5·4	1	..	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bhimkund	31.9	..	35.3	19	12·9	..	8·5	6	0	0	..		..	0	..	2·0	1·3	..	0	0	0	0	0	0	0	0	0	0	0
Narbada Catchment																													
Punasa	33·2	..	36·4	27,28	13·4	..	7·3	5	0	0	0	0	..	0	..	5·0	2·7	..	0	0	0	0	0	0	0	0	0	0	0
Bagra Tawa	32·2	..	35·8	28	11·8	..	5·1	5	0	0	..	0	..	0	..	5·1	2·9	..	0	0	0	0	0	0	0	0	0	0	0
Thikri	34·8	..	37·8	27,28	18·1	..	15·7	8,24	0	0	..	0	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																													
Jhadol	30·1	..	33·6	15	5·7	..	—0·8	5	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dharoi	..	..	36·9	28	14·6	..	6·9	4	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..

(R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed (km. p. h.)			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories— (*Contd.*)																													
Ganga Catchment																													
Mukhim	..	..	..	..	8·0	..	5·1	5	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Tehri	26·1	..	28·8	22	8·0	..	4·8	2	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Gorkha	23·0	..	27·1	12	12·5	..	9·0	2	0	1·1	..	0·6	17	0	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Pokhara	23·6	..	25·7	17	11·5	..	7·7	5	24·3	27·4	..	18·0	17	3	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Nawakot	23·8	..	27·0	25	12·2	..	9·5	1	15·4	106·2	..	90·8	13	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Jomosom	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	..	22·0	..	7·2	13,17	4	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Timure	19·2	..	1·2	11	6·9	..	3·9	1,4,5	0	9.2	..	4·6	12,28	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																													
Dailekh	(R)																												
Gogra Catchment																													
Dandeldhura	17·2	..	19·7	1	(d) 8·7	..	5·8	4,5	0	0	..	0	..	0	..	..	..	..	0	0	0	0	2	0	0	0	0	0	0
Butwal	(o) 27.8	..	30.2	24	(e) 15.9	..	10.1	3	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bagmati Catchment																													
Katmanda†																													
Kosi Catchment																													
Chautara	22·1	..	24·0	18	9·6	..	6·7	1	7·8	11·9	..	11·9	13	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	0	72·2	..	26·6	29	8	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Okhaldunga	(R)																												
Barahkshetra	28·1	..	29·7	13,29	13·7	..	10·6	1	0	3·6	..	3·6	17	1	..	7·7	5·2	..	0	1	0	0	1	0	0	0	0	1	0
Angbung	(c) 21·8	..	(c) 23·9	20	(c) 11·1	..	(c) 8·3	5	16.0	46·0	..	30·0	17	3	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Taplejung	17·0	..	19·1	16	8·0	..	5·9	3,5	9·4	29·2	..	11·2	16	5	..	..	..	..	0	5	0	0	3	0	0	0	0	0	0
Taplethok	21·9	..	23·8	21,22	10·2	..	6·9	1	16·8	47·8	..	13·0	17	7	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Walungchung Gola	9·0	..	17·6	2	−1·2	..	−5·3	29	22·6	36·0	..	14·7	29	5	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Bhojpur	19·1	..	21·0	19	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chainpur	22·1	..	25·2	12	12·7	..	10.8	5,9, 10	3·0	9·8	..	9·2	17	1	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Tista Catchment																													
Gangtok	16·2	..	19·5	14,20	7·8	..	5·9	5	55·2	92·4	..	20·7	16	9	..	2·4	1·6	..	3	9	0	3	4	3	0	0	0	0	0
Geyzing	20·0	..	23·8	11	9·3	..	6·6	5	8·6	61·8	..	17·6	16	7	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..

(R) Register not received. †Data included under "Nepal" (d) Mean of 27 days. (c) Mean of 28 days. (e) Mean of 26 days (o) Mean of 16 days.
(c) Mean of 2 days.

Division and station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1013·7	1010.5	..	26·3	23·7	22·4	27·3	79	..	2·6	..	2·1	0	0	12	2	4	1	0	0	1	0	1	17	3
	1730	„	1010·4	1007·3	..	27·5	23·6	21·5	26·0	71	..	3·1	..	9·3	0	0	29	2	12	2	0	0	0	0	0	0	13
Long Island	0830	25	1013·5	1010·7	..	26·1	24·0	23·0	27·8	84	..	3·1	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	1730	„	1010·1	1007·3	..	27·2	24·5	23·3	28·4	80	..	2·6	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Port Blair	0530	79	1011·6	1002·6	..	23·7	22·6	22·0	26·5	91	..	3·5	..	5·1	0	0	20	3	11	4	0	0	1	1	0	9	0
	0830	„	1013·5	1004·6	+0·1	28·4	24·7	23·0	28·4	73	+2	3·0	+0·1	7·3	0	0	27	5	18	3	1	0	0	0	0	2	0
	1130	„	1012·0	1003·2	..	29·8	25·3	23·2	28·8	68	..	3·1	..	11·1	0	0	29	1	19	8	0	0	0	0	1	0	0
	1730	„	1010·4	1001·5	..	26·7	23·7	22·2	27·4	77	..	2·9	..	8·5	0	0	28	2	18	7	0	0	0	0	1	1	0
	2330	„	1012·0	1003·1	..	24·5	23·2	22·5	28·0	89	..	2·3	..	6·3	0	0	20	1	10	7	0	0	0	1	1	9	0
Car Nicobar	0830	10	1012·6	1011·4	..	28·7	25·0	23·2	29·0	72	..	4·0	..	7·7	0	0	29	1	10	15	2	0	0	0	0	0	1
	1730	„	1009·5	1008·3	..	27·5	24·6	23·2	28·9	78	..	5·2	..	5·2	0	0	25	0	9	13	3	0	0	0	0	4	0
Nancowry	0830	26	1012·5	1009·6	..	28·8	26·1	24·9	31·5	80	..	5·5	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	1730	„	1009·4	1006·5	..	27·6	25·3	24·3	30·6	81	..	5·3	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Kondul	0830	8	1012·3	1011·4	..	27·9	25·7	24·8	31·2	81	..	5·5	..	4·3	0	0	20	0	9	8	3	0	0	0	0	9	0
	1730	„	1009·3	1008·4	..	27·7	25·9	25·2	32·4	86	..	5·9	..	5·1	0	0	25	0	14	10	1	0	0	0	0	4	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1016·4	998·1	..	18·9	14·9	11·5	13·9	63	..	4.9	..	19·6	0	16	12	9	0	0	0	1	0	0	18	1	0
	1730	„	1012·1	994·0	..	20·4	16·4	13·3	15·0	65	..	4·8	..	8·3		8	6	1	0	0	0	0	0	0	13	15	0
Digboi	*0830	..	..	..	..	18·4	15·8	13·8	15·9	76	..	4·7	..	..	..	..	..	2	17	2	0	3	3	1	0	0	0
	†1730	..	..	..	..	23·3	18·1	14·8	16·4	60	..	4·1	..	..	..	..	..	3	14	4	1	0	2	3	0	0	0
Dibrugarh	0830	106	1016·2	1003·8	−0·1	19·3	16·4	14·4	16·5	74	−11	4·6	+0·2	3·1	0	0	25	11	9	5	0	0	0	0	0	4	0
	1730	„	1011·7	999·4	..	21·4	17·6	15·1	16·8	67	..	4·6	..	1·1	0	0	10	3	4	1	1	0	0	0	1	19	0
Dibrugarh (Mohanbari Aerodrome)	0230	111	1013·5	1000·3	..	14·2	13·4	12·8	14·6	91	..	4·3	..	1·3	0	1	3	1	1	0	0	0	0	1	1	25	0
	0530	„	1014·5	1001·3	..	13·9	12·9	12·3	15·0	93	..	5·1	..	1·2	0	0	6	2	1	1	1	1	0	0	0	23	0
	0830	„	1016·4	1003·4	..	18·7	16·0	14·0	15·5	75	..	4·3	..	4·4	0	0	24	2	10	11	0	0	0	0	1	5	0
	1130	„	1014·5	1001·7	..	23·7	17·4	12·7	15·1	52	..	3·6	..	5·7	0	0	22	4	9	8	0	1	0	0	0	7	0
	1730	„	1011·9	999·1	..	20·7	16·9	14·3	16·0	67	..	4·1	..	0·7	0	0	6	2	3	1	0	0	0	0	0	23	0
	2330	„	1014·1	1001·0	..	15.0	13·9	12·9	15·0	89	..	3·5	..	1·6	0	0	6	0	5	0	0	0	0	1	0	23	0
North Lakhimpur	0830	102	1016·2	1004·2	..	19·0	16·4	14·4	16·7	75	..	3·4	..	4·0	0	0	24	9	7	2	2	1	0	1	2	5	0
	1130	„	1014·7	1003·0	..	24·4	18·0	13·7	15·5	54	..	2·8	..	6·9	0	0	29	1	3	17	4	1	1	0	2	0	0
	1730	„	1012·0	1000·1	..	20·9	17·5	15·3	17·3	70	..	3·9	..	0·3	0	0	22	7	9	2	2	0	0	0	2	7	0
Sibsagar	0830	97	1016·7	1005.4	+0·6	18·6	16·6	15·2	17·4	81	−7	5·0	0	3·5	0	0	17	5	8	1	1	1	1	0	0	12	0
	1730	„	1012·0	1001.0	..	22·8	18·3	15·5	17·8	64	..	4·2	..	3·1	0	0	16	9	7	0	0	0	0	0	0	13	0
Jorhat	0530	90	1013·7	1003·1	..	14·1	13·6	13·2	14·6	95	..	3·7	..	1·2	0	0	5	1	2	1	0	1	0	0	0	24	0
	0830	„	1015·8	1005·3	..	18·4	16·4	14·9	17·1	81	..	3·2	..	4·0	0	0	14	1	7	4	0	2	0	0	0	15	0
	1130	„	1014·0	1003·8	..	24·3	18·3	14·0	16·2	53	..	2·1	..	11·1	0	3	25	4	17	6	0	0	0	1	0	1	0
	1730	„	1011·1	1000·8	..	21·8	17·6	14·7	16·7	65	..	2·5	..	3·7	0	1	10	3	5	3	0	0	0	0	0	18	0
	2330	..	1013.5	1003.3	..	16·3	15·3	14·5	16·6	89	..	3·2	..	2·3	0	0	7	1	4	2	0	0	0	0	0	22	0
Golaghat	0830	..	..	..	..	19·1	16·4	14·1	16·5	74	..	1·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·1	18·5	13·4	15·9	50	..	2·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gohpur	0830	..	..	..	..	18·1	13·0	14·7	10·3	77	..	2·1	..	..	0	0	27	1	1	19	3	1	0	2	0	2	0
	1730	..	..	..	..	22·0	18·3	15·8	18·1	69	..	2·0	..	..	0	0	25	3	4	12	5	0	0	1	0	0	0
Tezpur	0830	79	1016·0	1007·0	−0·4	20·2	16·7	14·6	15·9	70	−11	1·8	−1·2	5·4	0	0	29	1	14	8	2	0	1	0	0	0	3
	1730	„	1011·5	1002·7	..	23·4	18·5	15·3	17·0	60	..	2·0	..	3·0	0	0	18	1	7	5	0	0	1	0	0	0	4
Tezpur (P.B.O.)	0230	78	1013·5	1004·2	..	16·6	15·3	14·4	16·2	87	..	2·0	..	0.6	0	0	4	1	3	0	0	0	0	0	0	25	0
	0530	„	1014·3	1004·9	..	15·0	14·0	13·2	15·0	89	..	1·9	..	2·0	0	0	7	1	3	3	0	0	0	0	0	22	0
	0830	„	1016·6	1007·3	..	20·0	16·6	14·2	16·3	69	..	1·9	..	5.6	0	0	22	1	10	10	1	0	0	0	0	7	0
	1130	„	1014·5	1005·5	..	24·8	18·3	14·6	17·1	54	..	1·4	..	5·2	0	0	25	1	4	13	6	0	1	0	0	4	0
	1730	„	1011·5	1002·5	..	23·5	18·1	14·4	16·7	57	..	2·2	..	2·4	0	0	10	1	3	5	0	0	0	1	0	19	0
	2330	„	1013·9	1004·6	..	18·2	16·2	14·7	16·9	80	..	2·2	..	2·7	0	0	11	2	6	3	0	0	0	0	0	18	0
Majbat	0830	..	..	..	..	..	..	..	..	..	..	2·7	..	7·1	0	0	25	12	0	10	3	0	0	0	0	4	0
	1730	..	..	..	..	..	..	..	..	..	..	3·1	..	2·8	0	0	14	5	6	2	0	0	1	0	0	15	0
Chaparmukh (R)	0830	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	„	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tangla	0830	78	1015·5	1006·4	..	19·6	16·7	14·6	16·4	73	..	2·2	..	2·0	0	0	10	0	2	4	4	0	0	0	0	19	0
	1730	„	1010·9	1002·0	..	22·6	18·5	15·8	18.3	66	..	1·6	..	0·3	0	0	2	0	0	1	1	0	0	0	0	27	0
Gauhati	0830	55	1015·7	1009·2	+0·3	18·5	16·1	14·3	16·2	77	−2	0·7	−2·0	1·2	0	0	12	1	8	2	1	0	0	0	0	17	0
	1730	„	1010·7	1004·4	..	25·5	19·2	15·3	17·0	54	..	1·3	..	0·8	0	0	8	0	5	1	0	0	2	0	0	21	0

* Observations for 28 days. †Observation for 27 days. (R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in (km. p. h.)	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—(*Contd.*)																											
Gauhati (Bhorjor Aerodrome)—(*Contd.*)	0230	54	1012·7	1006·3	..	14·6	13·7	13·1	15·0	90	..	0·7	..	0·7	0	0	2	1	0	1	0	0	0	0	0	27	0
	0530	"	1013·3	1006·9	..	13·3	12·6	12·1	13·8	93	..	0·7	..	0·8	0	0	5	1	2	0	0	1	0	1	0	24	0
	0830	"	1015·4	1009·1	..	19·5	16·5	14·7	16·3	73	..	0·7	..	2·4	0	0	10	4	3	2	0	1	0	0	0	19	0
	1130	"	1013·7	1007·5	..	25·7	18·8	13·9	16·0	49	..	0·8	..	7·0	0	0	26	13	6	2	0	0	1	1	3	3	0
	1730	"	1010·7	1004·5	..	24·1	18·2	14·0	15·0	54	..	2·1	..	2·2	0	0	8	2	4	0	1	1	0	0	0	21	0
	2330	"	1013·1	1006·8	..	16·2	14·8	13·8	15·8	86	..	1·5	..	1·3	0	0	7	2	2	0	0	1	1	1	0	22	0
Rangiya . .	0830	..	..	..	..	19·7	16·3	13·9	15·9	71	..	0·5	..	(c) 5·8	0	0	24	0	6	17	1	0	0	0	0	4	0
	1730	..	..	..	..	25·2	20·0	6.6	19·1	61	..	0·3	..	(b) 2·1	0	0	13	1	3	5	2	0	0	2	0	16	0
Goalpara . .	0830	38	(e) 1014·9	(c) 1010·5	..	18·7	16·3	14·2	16·9	76	..	(e) 1·0	..	(e) 1·4	0	0	12	1	5	1	2	2	0	1	0	14	0
	1730	"	(e) 1010·6	(c) 1006·3	..	26·4	20·6	16·9	19·5	57	..	(e) 0·5	..	(c) 1·4	0	0	9	0	4	1	1	0	2	1	0	17	0
Dhubri . .	0830	35	1015·8	1011·7	+0·2	19·5	16·8	15·0	16·9	75	−1	0·2	−1·8	0·4	0	0	15	0	13	1	0	1	0	0	0	14	0
	1730	"	1011·2	1007·7	..	24·6	18·4	3·8	16·2	52	..	0·4	..	1·2	0	0	5	1	3	0	0	0	1	0	0	24	0
Dhubri . . (Rupsi Aerodrome)	0530	36	1012·1	1007·9	..	13·8	12·7	12·1	13·9	89	..	0·1	..	1·8	0	0	11	2	6	3	0	0	0	0	0	18	0
	0830	"	1014·3	1010·1	..	19·9	16·4	13·9	15·7	68	..	0·2	..	6·5	0	0	28	0	11	13	3	1	0	0	0	1	0
	1130	"	1013·2	1009·1	..	26·5	18·5	12·7	14·6	43	..	0·1	..	8·5	0	1	28	0	0	21	3	1	0	2	0	0	2
	1730	"	1010·0	1005·9	..	22·4	18·0	14·9	17·2	64	..	0·5	..	0·7	0	0	5	1	1	2	0	0	0	1	0	24	0
Tura . . .	0830	370	1016·5	974·0	..	19·0	16·2	14·1	16·2	74	..	5·2	..	4·0	0	0	28	0	2	13	9	1	2	0	1	1	0
	1730	"	1011·6	970·5	..	26·4	23·6	22·3	26·7	78	..	4·3	..	4·0	0	0	25	1	0	2	1	3	16	1	1	4	0
Agartala . .	0230	16	1011·9	1010·0	..	15·7	14·0	12·6	14·5	82	..	0·2	..	4·2	0	0	21	1	0	4	10	4	1	0	1	8	0
	0530	"	1012·5	1010·6	..	14·8	13·7	12·6	15·0	87	..	0·8	..	5·0	0	0	25	1	3	1	16	3	1	0	0	4	0
	0830	"	1014·5	1012.6	..	22·1	17·8	14·7	17·3	64	..	1·0	..	5·9	0	0	25	1	0	1	9	12	0	1	1	4	0
	1130	"	1013·2	1011·4	..	28·7	18·7	11·2	13.7	35	..	0·7	..	9·6	0	1	28	5	1	0	1	4	6	5	7	0	0
	1730	"	1010·3	1008·5	..	26·4	17·9	11·4	13·7	40	..	0·8	..	5·0	0	1	22	2	0	0	4	1	4	8	4	6	0
	2330	"	1012·5	1010·6	..	17·6	14·9	12·7	14·8	73	..	0·4	..	0·4	0	1	23	0	2	2	12	5	1	2	0	5	0
Kailashar . .	0530	27	1013·8	1010·4	..	13·2	12·7	12·1	14·2	93	..	1·1	..	0·8	0	0	7	1	0	0	2	3	1	0	0	22	0
	0830	"	1015·7	1012·3	..	19·9	16·3	13·8	15·7	68	..	0·9	..	2·4	0	6	15	0	2	0	0	10	3	0	0	14	0
	1130	"	1014·5	1010·9	..	28.6	19·3	12·1	15·1	38	..	0·9	..	6·0	0	0	28	4	3	0	2	10	3	1	5	1	0
	1730	"	1011·4	1008·1	..	26·2	18·5	13·2	15·6	48	..	1·7	..	1·0	0	0	7	0	0	0	1	0	1	2	3	22	0
Silchar . .	0830	29	1015·6	1012·2	−0·4	20·7	16·7	13·7	15·9	65	−12	1·6	−0·7	1·6	0	0	16	0	7	4	3	1	0	0	1	13	0
	1730	"	1010·9	1007·5	..	25·5	18·7	13·7	16·4	50	..	0·7	..	0·7	0	0	7	0	0	1	1	0	1	2	2	22	0
Silchar (Kumbhigram Aerodrome)	0530	97	1012·2	1000·8	..	15·5	13·3	11·4	13·5	77	..	1·7	..	9·6	0	0	29	0	1	27	1	0	0	0	0	0	0
	0830	"	1014·1	1002·8	..	20·2	15·9	12·5	14·3	62	..	1·5	..	11·5	0	1	28	0	0	26	3	0	0	0	0	0	0
	1130	"	1012·2	1001·3	..	27·4	18·5	11·7	14·3	38	..	1·1	..	8·6	0	0	29	1	0	7	10	4	4	3	0	0	0
	1730	"	1009·4	998·4	..	25·3	17·5	11·6	13·7	43	..	1·2	..	5·5	0	1	24	1	0	3	0	0	2	16	3	4	0
Imphal . .	0530	801	1018·1	925·8	..	7·9	7·5	7·1	10·2	94	..	1·7	..	0·6	0	0	6	2	0	0	0	2	0	1	1	23	0
	0830	"	1017·4	927·1	..	15·7	12·2	9·1	11·7	67	..	2·1	..	2·3	0	0	16	1	0	0	3	9	3	0	0	13	0
	1130	"	1013·4	924·2	..	23·2	15·4	8·4	11·3	41	..	2·7	..	8·8	0	2	27	1	1	3	3	10	10	1	1	0	0
	1730	"	1011·6	923·2	..	21·1	13·5	6·7	9·5	42	..	2·4	..	6·7	0	0	27	2	0	0	0	2	14	9	0	2	0
	2330	"	1016·4	925·1	..	12·4	11·2	9·4	12·5	83	..	2·2	..	0·8	0	0	5	0	1	0	0	3	1	0	0	24	0
Haflong . .	0830	682	1014·1	937·5	..	18·7	13·7	9·5	11·6	57	..	1·6	..	5·0	0	1	28	6	1	0	0	4	14	0	4	0	0
	1730	"	1008·6	933·3	..	22·3	14·8	8·6	10·8	43	..	1·6	..	8·4	0	2	27	1	0	0	0	7	15	0	0	6	0
Lumding . .	0830	149	1015·8	998·7	..	18·1	15·5	13·8	15·6	72	−15	4·7	..	0·8	0	0	17	3	3	3	7	1	0	0	0	12	0
	1730	"	1011·1	994·3	..	23·1	21·4	21·2	24·1	88	..	4·7	..	0·6	0	0	12	1	1	2	8	0	0	0	0	17	0
Sub-Himalayan West Bengal																											
Cooch-Behar	0830	43	1015·1	1010·1	..	19·5	16·1	13·4	16·3	68	..	0·3	..	9·1	0	2	19	0	8	13	0	0	0	0	0	8	0
	1130	"	1013·8	1008·9	..	26·4	18·6	12·9	15·2	43	..	0·1	..	10·6	0	2	23	0	3	13	7	0	0	1	0	4	1
	1730	"	1010·6	1005·7	..	24·2	18·4	14·8	16·4	56	..	0·5	..	1·2	0	0	4	1	1	1	0	0	0	1	0	25	0
Jalpaiguri . .	0830	83	1015·5	1005·8	+0·3	16·8	15·1	13·9	15·9	82	+2	0·2	−1·5	3·7	0	0	25	11	5	0	0	0	0	0	9	4	0
	1730	"	1010·6	1001·2	..	26·4	18·7	13·3	15·2	45	..	0·3	..	3·9	0	0	20	1	1	3	3	2	8	1	1	9	0
Bagdogra . .	0230	131	1012·4	997·0	..	16·1	14·3	13·0	15·1	82	..	0·7	..	3·5	0	0	28	19	5	1	0	0	0	0	3	1	0
	0530	"	1012·8	997·3	..	13·5	13·0	12·5	14·5	94	..	1·1	..	3.7	0	0	26	14	5	4	0	0	0	1	2	3	0
	0830	"	1015·0	999·8	..	19·4	16·7	14·8	16·7	75	..	1·4	..	3·5	0	0	22	9	4	8	1	0	0	0	0	7	0
	1130	"	1013·7	998·8	..	26·1	18·8	13·6	16·0	47	..	0·9	..	9·5	0	1	28	0	0	11	14	2	0	2	0	0	0
	1730	"	1010·3	995·3	..	23·2	18·8	16·0	17·4	64	..	2·2	..	3·9	0	0	26	3	3	5	0	3	3	4	5	3	0
	2330	"	1012·9	997·7	..	17·7	15·3	13·4	15·2	76	..	1·0	..	3·9	0	0	25	16	3	1	0	0	1	3	1	4	0
Malda . .	0830	31	1015·1	1011·4	−0·4	21·2	15·7	11·2	13·3	54	−17	0·5	−0·9	6·9	0	0	28	10	4	0	1	1	2	2	8	1	0
	1730	"	1010·7	1007·2	..	26·8	18·3	11·8	13·9	41	..	0·3	..	2·9	0	0	17	2	0	0	0	0	2	4	9	12	0
Gangetic West Bengal																											
Dum Dum . .	0230	6	1012·1	1011·3	..	17·1	16·1	15·3	17·4	89	..	0·2	..	1·0	0	0	10	1	2	0	1	2	1	3	0	19	0
	0530	"	1012.6	1011·8	..	16.2	15·4	14·6	16·8	92	..	0·9	..	0·4	0	0	4	1	2	0	0		0	0	1	25	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km p. h.): 62 or more	Wind speed (km p. h.): 20 to 61	Wind speed (km p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal—(*Contd.*)																											
Dum Dum—(*Contd.*)	0830		1014·7	1014.0	..	20·9	18·2	16·2	18·6	76	..	0·9	..	3·1	0	0	22	4	4	0	1	5	2	2	4	7	0
	1130		1013·8	1013·0	..	29·0	19·5	12·7	15·1	38	..	0	..	5·7	0	0	28	5	2	0	1	6	2	4	8	1	0
	1730	"	1010·7	1009·9	..	27·8	19·7	14·2	17.2	44	..	0·5	..	1·1	0	0	7	1	0	0	0	3	2	1	0	22	0
	2330	"	1012·8	1012.0	..	18·8	16·9	15·6	17.6	82	..	0·5	..	1·8	0	0	10	1	0	0	1	4	4	0	0	19	0
Calcutta	0830	6	1014·5	1013·8	—0.6	21·8	18·0	15·1	17.4	68	—11	0·2	—2·1	4·3	0	0	25	1	1	1	2	2	7	2	9	4	0
	1130	"	1013·6	1012·9	..	29·6	19·3	11·7	14.0	34	..	0	..	7·2	0	0	28	6	2	1	2	3	5	1	8	1	0
	1730	"	1010·6	1009·9	..	28 6	19·9	11·8	13.9	36	..	0·4	..	4·3	0	0	23	1	0	0	1	5	4	6	6	6	0
Barrackpore	0530	7	1012·9	1012·1	..	16·5	15·6	14·7	17.1	90	..	1·7	..	1·4	0	0	6	0	0	3	0	1	0	2	0	23	0
	0830	"	1015·1	1014.3	..	22·1	18·4	15·7	18.4	68	..	0·3	..	5·6	0	0	20	2	1	1	1	0	4	7	4	9	0
	1130	"	1014·3	1013·5	..	28·6	19·0	12·0	13.9	39	..	0·3	..	10·1	0	3	24	3	1	1	0	0	7	6	9	2	0
	1730	"	1011·0	1010·2	..	26·8	19·4	13·8	16.3	46	..	0·6	..	2·2	0	0	8	0	0	0	0	3	1	4	0	21	0
	2330	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Saugor Island	0830	3	1014·2	1013·9	—0·7	23·3	21·0	19·6	23.2	80	+2	0·9	—1·7	11·5	0	2	25	4	2	1	0	2	8	5	5	2	0
	1730	"	1010·7	1010.4	..	25·1	22·0	20·3	24.7	75	..	1·1	..	15·9	0	2	27	2	1	0	4	12	9	1	0	0	0
Sandheads	0530	10	1012·2	1011·1	..	23·6	21·4	20·1	23.7	82	..	0·5	..	12·6	0	3	25	4	1	0	0	2	11	9	1	1	0
	0830	"	1014·9	1013·8	—0·3	24·8	22·1	20·5	24.3	78	+8	0·6	—1·2	9·5	0	1	25	2	1	0	1	1	8	7	6	3	0
	1130	"	1014·4	1013·3	..	25·4	21·8	19·8	23.2	72	..	0·4	..	10·2	0	4	21	2	3	0	0	2	9	5	4	4	0
	1730	"	1011·1	1010·0	..	25·7	22·4	20·4	24.4	74	..	0·6	..	9·4	0	2	25	1	1	0	1	8	14	2	0	2	0
	2330	"	1012·9	1011·8	..	24·1	21·9	20·7	24.5	82	..	0·2	..	9·8	0	1	26	0	0	0	1	10	14	2	0	2	0
Contai	0830	11	1014·6	1013·4	..	23·2	19·1	15·9	18.7	66	..	0·4	..	3·0	0	0	19	5	0	0	0	3	7	3	1	10	0
	1730	"	1010·8	1009·6	..	26·1	20·6	16·8	19·7	59	..	0·4	..	4·6	0	0	27	0	0	1	1	22	3	0	0	2	0
Midnapore	0830	45	1015·1	1009·8	—0·1	24·7	16·3	9·9	11·9	40	—24	0·2	—1·8	2·8	0	0	21	4	14	0	0	0	2	0	1	8	0
	1730	"	1010·5	1005·4	..	30·2	17.7	6·7	10·2	25	..	0·2	..	3·3	0	1	18	1	7	0	2	0	1	1	7	10	0
Purulia	0830	255	1015·9	986·6	..	20·4	13·6	7·4	9·9	43	..	0·2	..	3·2	0	0	22	3	0	0	0	0	5	9	5	7	0
	1730	"	1010·8	982·6	..	27·9	17·0	7·7	10·7	28	..	1·0	..	2·2	0	0	15	5	0	0	0	0	0	2	8	14	0
Burdwan*	0830	32																									
	1730	"																									
Krishnagar	0830	15	1015·0	1013·3	—0·3	22·1	16·8	12·9	14·9	56	—17	0·2	—2·0	1·0	0	0	8	3	0	1	1	1	0	1	1	21	0
	1730	"	1011·1	1009·4	..	28·0	20·1	15·0	17·4	45	..	0	..	0·2	0	0	2	1	0	0	0	1	0	0	0	27	0
Asansol	0230	126	1012·7	997.9	..	18·0	15·7	13·8	16·1	78	..	0·2	..	0·5	0	0	4	0	0	0	0	0	0	0	4	25	0
	0530	"	1013·1	998·4	..	16·7	14·9	13·4	16·3	82	..	0·5	..	1·7	0	0	11	0	0	0	0	0	0	5	6	18	0
	0830	"	1014·9	1000·4	0	21·2	17·1	14·6	16·0	68	+5	0·3	—1·8	5·5	0	0	24	1	0	0	0	0	0	9	14	5	0
	1130	"	1013·9	999·6	..	28·4	21·1	15·6	19·4	52	..	0·3	..	6·4	0	0	28	0	0	0	1	1	0	8	18	1	0
	1730	"	1010·4	996·2	..	27·8	21·2	16·6	19·7	55	..	0·9	..	3·5	0	0	21	2	0	0	0	0	0	4	15	8	0
	2330	"	1013·1	998·5	..	20·1	16·8	14·2	16·4	71	..	0·3	..	1·8	0	0	11	1	0	0	0	1	0	2	7	18	0
Suri	0830	77	1015·3	1006·4	..	22·1	15·2	8·8	11·7	44	..	1·0	..	4·6	0	0	24	1	0	1	0	0	4	12	6	5	0
	1730	"	1011·4	1002·7	..	28·4	17·8	7·7	11·3	28	..	1·3	..	3·8	0	0	26	3	2	3	0	1	2	8	7	3	0
Berhampore	0830	19	1014·2	1012·0	—1·1	19·6	15·6	12·5	14·7	63	—7	0	—2·2	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	1730	"	1010·3	1008·1	..	27·4	18·9	12·8	14·8	44	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Orissa																											
Baripada	0830	54	1015·9	1009·6	..	22·0	15·0	8·9	11·5	44	..	0·3	..	2·4	0	0	19	9	3	0	0	0	1	0	6	10	0
	1730	"	1011·0	1004·9	..	29·5	18·0	8·3	12·2	27	..	0·6	..	1·8	0	0	13	5	0	0	1	1	2	0	3	16	1
Balasore	0830	20	1014·7	1012·4	—0·5	22·1	16·4	12·1	14·1	54	—15	0·6	—1·4	1·6	0	0	9	4	2	0	0	1	2	0	0	20	0
	1730	"	1010·9	1008·6	..	25·8	19·6	15·6	11·7	54	..	1·1	..	2·2	0	1	8	0	0	0	4	4	1	0	0	20	0
Chandbali	0830	6	1015·2	1014·5	+0·3	22·5	19·0	16·8	18 9	71	—6	0·4	—1·8	4·0	0	0	29	5	0	1	1	3	1	11	7	0	0
	1730	"	1012·8	1012·1	..	27·7	20·3	15·7	17·6	48	..	0·6	..	9·3	0	4	25	0	4	0	23	1	1	0	0	0	0
Cuttack	0830	27	1014·6	1011·5	—0·6	20·7	17.5	15·1	17·2	72	—4	0·6	—1·7	0·5	0	0	1	0	1	0	0	0	0	0	0	28	0
	1730	"	1010·3	1007·3	..	31·2	20·4	12·6	15·2	33	..	0·4	..	0·9	0	0	2	0	0	0	0	0	2	0	0	27	0
Bhubaneswar	0230	46	1012·5	1007·1	..	19·8	18·0	16·7	18·9	83	..	0·1	..	4·0	0	0	15	1	1	0	0	1	8	4	0	14	0
	0530	"	1013·0	1007·5	..	18·2	16·8	15·6	18·1	85	..	0·3	..	4·3	0	0	20	3	0	0	1	0	5	7	4	9	0
	0830	"	1015·1	1009·7	..	23·6	18·4	14·4	16·8	59	..	1·0	..	3·7	0	0	15	0	2	0	1	0	1	9	2	14	0
	1130	"	1014·2	1009·0	..	30·5	19·0	10·2	12·9	30	..	1·0	..	9·3	0	2	25	0	5	3	0	3	11	3	1	2	1
	1730	"	1010·9	1005 7	..	29·4	19·2	11·4	13·9	35	..	1·1	..	14·3	0	5	21	1	0	1	4	10	7	1	2	3	0
	2330	"	1013·3	1007·9	..	21·9	19·5	18·1	20·6	80	..	0·3	..	9·9	0	3	25	0	0	1	2	7	16	1	1	1	0
Puri	0830	6	1015·1	1014·4	+0·3	24·3	20·9	18·9	21·8	71	—5	1·2	—0·8	9·4	0	2	27	10	1	0	0	2	5	6	5	0	0
	1730	"	1011·3	1010·6	..	25·9	22·6	20·8	24·6	74	..	5·7	..	17·6	0	9	20	0	0	1	2	10	15	1	0	0	0
Gopalpur	0530	17	1012·9	1010·9	..	18·8	16·1	14·0	16·0	75	..	0·5	.	5·1	0	0	28	10	0	0	0	0	0	2	16	1	0
	0830	"	1015·1	1013·1	+0·3	22·8	18·2	14·9	17·6	62	—11	0·8	—0·4	7·0	0	1	26	11	0	0	0	1	1	0	14	2	0
	1130	"	1014·4	1012·5	..	28 6	21·2	16·5	19·0	50	..	0·7	..	10·5	0	1	28	1	1	3	6	16	2	0	0	0	0

*Data not reliable.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed, (km.p.h.): 62 or more	Wind speed, (km.p.h.): 20 to 61	Wind speed, (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Gopalpur—(*Contd.*)	1730	17	1011·4	1009·4	..	26·3	22·3	20·2	24·0	69	..	0·8	..	15·0	0	5	24	0	0	2	6	12	9	0	0	0	0
	2330	,,	1013·2	1011·3	..	22·7	19·6	17·2	20·4	74	..	0·1	..	8·3	0	4	20	1	0	0	0	2	14	5	2	5	0
Koraput	0830	913	1549·9	915·5	..	19·7	14·4	10·3	12·6	56	..	0·1	..	3·4	0	0	29	0	0	0	2	3	24	0	0	0	0
	1730	,,	1530·6	912·1	..	25·0	16·5	10·2	12·4	40	..	0·1	..	6·0	0	0	29	5	2	0	0	0	0	2	20	0	0
Titilagarh	0830	211	1015·0	990·8	..	21·6	17·1	13·6	16·0	61	..	2·7	..	2·9	0	0	28	0	15	0	7	0	2	0	1	1	3
	1730	,,	1010·6	987·3	..	31·3	22·0	15·9	18·8	43	..	0·5	..	2·9	0	0	27	0	16	0	6	0	1	0	1	2	3
Bolangir	0830	190	1015·3	993·2	..	22·1	15·9	10·6	13·3	48	..	1·3	..	6·2	0	0	29	7	3	0	2	8	6	0	3	0	0
	1730	,,	1010·7	989·5	..	30·5	19·3	11·3	13·5	31	..	1·3	..	3·9	0	0	29	12	7	0	1	3	2	0	4	0	0
Phulbani	0830	,,	..	..	..	15·4	12·9	9·8	12·9	70	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1730	,,	..	..	..	28·1	22·9	19·2	23·5	64	..	0·1	..	1·3	0	0	7	2	0	0	0	0	0	2	3	22	0
Angul	0830	139	1015·6	999·5	+0·7	19·9	14·4	9·7	12·0	54	—13	0·5	—1·9	3·5	0	0	27	1	0	0	1	1	0	1	23	2	0
	1730	,,	1010·5	995·0	..	30·6	17·8	6·2	10·7	23	..	1·1	..	3·7	0	0	27	4	11	1	1	2	0	2	6	2	0
Keonjhar	0830	463	1015·2	960·6	..	22·6	16·0	11·2	13·3	50	..	0·3	..	2·9	0	0	23	4	4	1	0	4	1	4	5	6	0
	1730	,,	1010·3	956·5	..	28·2	18·7	12·0	14·8	39	..	0·6	..	4·0	0	0	29	4	3	2	0	0	2	13	5	0	0
Sambalpur	0830	148	1015·6	998·5	+0·5	21·9	15·5	10·0	12·5	47	—18	0·7	—1·0	0·9	0	0	9	2	4	1	0	1	1	0	0	20	0
	1730	,,	1010·6	994·0	..	29·9	18·2	8·3	11·5	27	..	0·9	..	0·9	0	0	8	2	0	0	0	2	1	1	2	21	0
Jharsuguda	0230	230	1013·0	986·2	..	16·5	13·6	11·3	13·4	71	..	0·1	..	1·8	0	0	14	6	3	1	0	0	1	1	2	15	0
	0530	,,	1013·6	986·6	..	14·6	12·4	10·4	12·6	77	..	0	..	3·9	0	0	22	16	3	1	0	0	0	1	1	7	0
	0830	,,	1015·6	989·0	..	19·8	14·6	10·2	12·6	56	..	0·3	..	5·5	0	0	27	17	5	2	1	0	0	1	1	2	0
	1130	,,	1014·2	988·4	..	28·0	18·0	9·8	12·6	34	..	0·5	..	6·0	0	0	26	2	9	3	0	2	3	3	4	3	0
	1730	,,	1010·3	984·6	..	28·5	18·3	10·1	12·6	34	..	0·9	..	4·0	0	0	23	0	3	0	1	7	5	4	1	6	2
	2330	230	1013·2	986·6	..	19·6	15·0	11·0	13·3	58	..	0·5	..	3·7	0	0	20	8	2	2	4	1	0	1	2	9	0
Bihar Plateau																											
Jamshedpur	0830	129	1015·5	1000·5	+0·3	19·0	14·1	9·9	12·0	56	—16	0	—2·3	3·7	0	0	24	0	0	0	0	0	1	12	11	5	0
	1730	,,	1010·2	995·7	..	29·2	17·8	8·2	11·2	28	..	0·9	..	3·2	0	1	19	2	0	1	0	0	1	8	7	10	0
Jamshedpur (P.B.O.)	0530	142	1013·6	997·0	..	15·3	12·2	9·4	11·8	68	..	0·1	..	2·2	0	0	11	0	0	0	0	2	3	4	2	19	0
	0830	,,	1015·6	999·1	..	18·8	13·5	8·4	11·3	52	..	0·2	..	4·7	0	0	29	1	0	0	0	1	12	9	6	0	0
	1130	,,	1014·3	998·3	..	27·7	16·5	6·2	9·8	27	..	0·2	..	7·0	0	0	29	1	2	1	0	4	8	8	5	0	0
	1730	,,	1010·2	994·3	..	29·7	17·2	5·7	9·5	23	..	1·1	..	3·7	0	0	22	1	1	1	0	2	2	6	9	7	0
	2330	,,	1013·3	996·9	..	19·3	14·5	10·2	12·6	57	..	0·4	..	3·2	0	1	13	2	0	1	0	0	1	3	7	15	0
Chaibasa	0830	226	1015·3	989·2	+0·2	20·3	14·3	9·1	11·3	49	—22	0·2	1·9	1·5	0	0	15	0	1	0	0	0	14	0	0	14	0
	1730	,,	1010·1	985·9	..	28·4	17·8	9·6	11·9	32	..	0·9	..	0·9	0	0	9	0	1	0	0	0	8	0	0	20	0
Ranchi	0830	655	1013·7	941·0	+0·3	22·7	14·1	6·9	9·9	36	—18	0·2	—1·9	0·7	0	0	3	1	0	0	0	0	0	1	1	26	0
	1730	,,	1010·7	938·5	..	24·4	15·9	9·7	12·0	38	..	0·9	..	0·1	0	0	1	1	0	0	0	0	0	0	0	28	0
Ranchi (C.W.O.)	0530	652	1013·9	939·4	..	14·4	9·8	4·8	8·7	54	..	0·4	..	1·8	0	0	8	3	0	0	0	0	2	0	3	21	0
	0830	,,	1014·9	941·9	..	20·6	12·4	4·5	9·2	36	..	0·4	..	3·7	0	0	12	4	0	1	0	2	1	1	3	17	0
	1130	,,	1013·7	941·7	..	24·3	13·3	2·3	7·4	24	..	0·3	..	9·0	0	1	21	3	1	1	2	1	3	1	10	7	0
	1730	,,	1009·8	938·3	..	25·7	13·4	0·8	6·6	21	..	1·0	.	5·8	0	0	19	5	0	1	0	0	1	3	9	10	0
Daltonganj	0830	221	1016·2	990·6	+0·6	18·0	13·5	9·3	11·8	58	—15	0·7	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1010·8	986·9	..	26·7	16·5	7·4	10·5	31	..	0·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	1015·2	946·3	+0·9	19·6	12·7	6·3	9·6	43	—17	0·5	—1·7	..	0	0	21	1	1	0	0	2	5	5	7	8	0
	1730	,,	1010·6	943·0	..	24·3	14·2	4·7	9·1	29	..	0·6	..	0·6	0	0	29	4	4	0	0	1	0	1	19	0	0
Dhanbad	0830	257	1015·2	985·9	..	23·8	18·1	13·5	16·1	54	..	(c) 0·2	..	(c) 2·5	0	0	23	2	0	0	0	0	3	9	9	5	0
	1730	,,	1010·4	981·7	..	27·5	19·8	14·8	16·7	46	..	0·9	..	1·5	0	0	9	2	0	0	0	0	1	2	4	20	0
Dumka	0830	149	1015·3	998·0	0	20·9	15 2	10·9	13·3	55	—4	0·5	—1·1	0·2	0	0	2	0	0	0	0	0	0	2	0	27	0
	1730	,,	1010·7	993·8	..	26·9	18·2	11·3	13·7	41	..	0·5	..	0·8	0	0	5	0	0	0	0	1	1	2	1	24	0
Bihar Plains—																											
Purnea	0830	38	1015·2	1010·8	0	19·1	15·3	12·2	14·5	65	—11	0·4	—1·3	1·7	0	0	12	1	1	4	0	0	1	5	0	17	0
	1730	,,	1010·8	1006·5	..	24·0	18·1	13·6	16·0	53	..	0·4	..	0·1	0	0	1	0	0	0	0	0	0	1	0	28	0
Forbesganj	0830	61	1014·8	1007·7	..	17·4	15·1	13·3	15·4	77	..	0·2	..	3·2	0	0	21	1	5	7	3	1	1	2	1	8	0
	1730	,,	1010·2	1003·3	..	26·3	19·1	13·9	16·2	48	..	0·5	..	2·1	0	0	17	0	0	1	0	0	1	13	2	12	0
Darbhanga	0830	49	1015·4	1009·7	+0.4	19·9	15·1	11·0	13·0	58	—15	0·5	—1·2	2·8	0	0	25	0	1	6	2	1	6	4	5	4	0
	1730	,,	1010·8	1005.3	..	26·1	18·3	12·2	14·8	43	..	0·5	..	1·3	0	0	14	0	1	1	0	0	2	5	5	15	0
Motihari	0830	66	1015·3	1007.5	+0·4	20·3	16·3	12·9	15·4	64	—12	0·2	—1·5	2·4	0	1	5		0	3	0	0	0	3	0	23	0
	1730	,,	1011·3	1003·6	..	24·0	19·1	15·8	18·0	62	..	0·1	..	0·2	0	0	1	0	0	0	0	0	0	1	0	18	0
Chapra	0830	,,	..	..	..	17·6	13·7	10·3	12·5	63	..	0·5	..	5·7	0	0	27	0	1	1	0	1	18	5	1	2	0
	1730	,,	..	..	..	26·0	17·7	10·9	14·2	41	..	0·5	.	3·7	0	0	23	0	1	0	1	1	10	5	5	6	0
Patna	0830	53	1014·8	1008·5	—0·7	19·0	14·2	9·7	12·4	57	—6	0·3	—1·6	6·2	0	0	27	0	2	1	0	3	13	7	1	2	0
	1730	,,	1010·7	1004·7	..	27·1	17·7	10·2	12·6	36	..	0·7	..	4·1	0	0	23	0	1	0	0	0	3	19	0	6	0
Patna (Aerodrome)	0530	60	1012·4	1005·3	..	13·9	12·4	10·8	13·5	83	..	0·5	..	1·5	0	0	5	0	0	0	0	0	1	3	1	24	0
	0830	,,	1014·4	1007·4	..	17·9	14·2	10·9	13·4	65	..	0·4	..	4·9	0	0	18	0	0	0	0	3	9	5	0	11	1
	1130	,,	1014·1	1007·2	..	26·1	17·5	10·5	13·0	39	..	0.5	..	8·1	0	0	21	1	1	0	0	0	4	8	8	7	0

(c) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed Km. p. h.: 62 or more	Wind speed Km. p. h.: 20 to 61	Wind speed Km. p. h.: 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*)																											
Patna (Aerodrome)	1730	60	1010·5	1003·7	..	27·1	18·3	11·2	13·8	40	..	0·7	..	4·5	0	0	16	0	0	0	0	0	0	7	8	13	1
	2330	52	1013·0	1007·0	..	19·6	15·6	12·9	14·7	66		0·2	..	0·3	0	0	2	0	0	0	0	1	0	0	1	27	0
Dehri	0830	107	1015·2	1002·6	..	19·2	14·0	9·3	11·7	54	..	0·6	..	4·0	0	0	29	0	0	0	2	3	23	1	0	0	0
	1730	"	1010.4	998·3	..	27·8	16·9	7·9	11·2	28	..	0·1	..	6·1	0	0	29	1	1	0	0	0	0	0	27	0	0
Gaya	0230	116	1013·4	999·7	..	14.5	11·1	7·6	10·5	64	..	0·1	..	3·9	0	0	25	0	0	1	4	16	4	0	0	4	0
	0530	"	1013·5	999·7	..	13·1	10·5	7·6	10·7	71	..	0·5	..	5·0	0	1	22	0	1	1	5	10	4	1	1	6	0
	0830	"	1015·7	1002·1	+0·4	18·6	13·6	8·7	11·6	54	−6	0·5	−1·3	6·7	0	2	22	0	0	0	2	6	13	2	1	5	0
	1130	"	1015·0	1001·8	..	27·4	16·8	7·4	10·6	30	..	0·7	..	11·3	0	5	22	1	3	1	0	1	2	11	8	2	0
	1730	"	1011·3	998·1	..	27·5	16·7	7·0	10·2	28	..	0·5	..	8·2	0	0	25	4	3	0	0	0	1	2	15	4	0
	2330	"	1013·8	1000·1	..	17·0	12·3	7·7	10·5	55	..	0·2	..	3·5	0	0	20	1	1	0	2	5	8	2	0	9	1
Jamui	0830	82	1015·3	1005·5	..	18·0	14·0	10·1	12·9	62	..	0·3	..	0·4	0	0	4	0	0	1	0	0	2	1	0	25	0
	1730	"	1011·1	1001·3	..	26·9	18·8	12·2	15·3	42	..	0·1	..	1·7	0	0	13	0	0	0	0	0	7	6	0	16	0
Bhagalpur	0530	49	1013·0	1007·3	..	16·5	13·3	10·5	12·9	69	..	0.3	..	3·4	0	0	15	0	0	1	0	7	6	1	0	14	0
	0830	"	1015·2	1009·5	..	19·5	15·3	11·7	14·6	62	..	0·5	..	3·0	0	0	14	0	2	3	0	1	3	3	2	15	0
	1130	"	1014·5	1009·0	..	25·6	17·4	10·9	14·2	41	..	0·2	..	5·9	0	0	25	2	1	1	0	0	3	12	6	4	0
	1730	"	1011·2	1005·7	..	25·8	17·9	12·3	15.1	46	..	0·7	..	5·0	0	0	20	0	0	0	0	1	4	12	3	9	0
	2330	"	1013·2	1007·5	..	19·6	15·1	11·4	13·7	60	..	0·2	..	3·5	0	0	17	0	2	1	2	2	6	4	0	12	0
Sabour	0830	37	1014·9	1010·5	..	18·0	15·0	12·3	14·5	71	−8	0·5	−1·9	3·2	0	0	25	1	0	2	4	1	7	6	4	4	0
	1730	"	1010·7	1006·4	..	26·2	19·8	15·1	18·0	52	..	0·7	..	2·8	0	0	20	0	0	0	0	0	0	7	13	9	0
Uttar Pradesh (East)																											
Gonda	0830	110	1015·0	1002·2	..	16·6	14·0	11·7	14·1	75	0	0·4	−1·8	2·0	0	0	15	1	0	2	0	0	0	3	9	14	0
	1730	"	1011·1	998·6	..	25·3	19·4	15·3	17·5	55	..	0·4	..	1·1	0	0	11	0	0	1	0	0	0	5	5	18	0
Nautanwa	0830	99	1014·8	1003·1	..	16·4	13·8	12·0	13·3	71	..	0·2	..	3·7	0	0	18	3	2	5	6	2	0	0	0	11	0
	1730	"	1010·5	999·2	..	25·5	17·5	11·1	13·5	42	..	0	..	2·8	0	0	19	1	0	0	0	2	9	6	1	10	0
Gorakhpur*	0830	77	1015·0	1005·8	+0·1	18·3	14·0	10·0	12·5	59	−12	0·2	−1·3	..	0	0	20	3	3	1	0	0	2	9	2	3	0
	1730	"	1011·1	10$_0$2·2	..	26·7	17·5	10·2	12·6	37	..	0·2	..	..	0	0	12	0	0	0	0	1	2	9	0	11	0
Gorakhpur (P.B.O.)	0230	78	1012.1	1002·9	..	16·5	13·4	10·9	12·8	71	..	0·2	..	2·9	0	0	21	3	1	0	0	2	6	7	2	8	0
	0530	"	1012·3	1003·0	..	14·7	12·1	9·6	11·8	73	..	0·2	..	1·8	0	0	12	3	0	0	0	0	3	5	1	17	0
	1130	"	1014·7	1005·7	..	24·2	16·8	11·3	13·1	46	..	0·4	..	4·3	0	0	25	0	2	0	2	8	5	5	3	4	0
	2330	"	1012·8	1003·6	..	18·4	15·2	12·5	14·6	67	..	0·1	..	1·9	0	0	12	2	0	0	0	1	5	3	1	17	0
Azamgarh	0830	78	1410·5	1005·4	..	16·4	14·2	12.0	14·0	76	..	0·1	..	..	0	0	29	0	0	0	0	0	0	28	1	0	0
	1730	"	1010·9	1002·1	..	25·7	26·0	16·4	18·6	56	..	0	..	..	0	0	7	0	0	0	0	0	0	7	0	22	0
Ballia	0830	64	1015·3	1007·7	..	17·2	13·2	9·5	12·2	62	..	0·3	..	1·7	0	0	10	0	0	1	0	0	2	6	1	19	0
	1730	"	1011·5	1004·2	..	27·0	18·4	11·6	14·5	41	..	0·2	..	2·4	0	0	11	0	1	0	0	0	0	7	3	18	0
Varanasi (Banaras)	0830	76	1015·4	1006·4	0	18·4	13·9	9·8	12·3	58	−11	0·8	−1·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	1011·7	1003·1	..	27·4	17·5	9·0	11·9	33	..	0·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Varanasi (Banaras) (Babatpur Aerodrome)	0530	85	1014·4	1004·1	..	12·6	10·9	9·3	11.7	80	..	0·2	..	4·4	0	0	18	0	0	1	0	2	10	4	1	11	0
	0830	"	1016·4	1006·3	..	18·4	14·3	10·9	12·8	63	..	0·5	..	7·9	0	0	27	0	1	0	0	1	17	7	1	2	0
	1130	"	1016·0	1006·2	..	26·5	18·6	12·7	15·1	45	..	0·6	..	11·8	0	2	27	1	0	1	0	1	9	12	3	0	2
	1730	"	1012·3	1002·6	..	26·8	19·7	14·9	16·7	50	..	0·3	..	7·5	0	0	25	1	1	2	0	0	4	14	3	4	0
	2330	"	1014·5	1004·4	..	16·5	13·5	10·5	12·9	71	..	0·1	..	4·8	0	0	22	1	1	1	0	4	8	6	1	7	0
Allahabad (Bamrauli)	0230	98	1013·1	1001·5	..	15·0	12·0	9·1	11·5	69	..	0·3	..	1·9	0	0	12	0	0	2	0	0	3	6	1	17	0
	0530	"	1013·3	1001·6	..	13·2	10·9	8·6	11·3	74	..	0·3	..	2·2	0	0	14	0	0	0	0	2	4	8	0	15	0
	0830	"	1015·5	1004·0	+0·1	17 6	12·9	8·4	11·0	56	−10	0·6	−1 6	3·3	0	0	18	1	0	0	0	0	8	9	0	11	0
	1130	"	1015·2	1004·1	..	27·3	16·4	6·5	9·9	28	..	0·6	..	7·6	0	0	29	3	1	2	1	0	2	17	3	0	0
	1730	"	1011·3	1000·2	..	27·8	17·7	9·4	12·3	33	..	0·6	..	3·4	0	0	21	0	1	2	0	0	0	12	6	8	0
	2330	"	1013·5	1002 0	..	17·4	13·1	9·1	11·3	60	..	0·2	..	2·2	0	0	12	1	0	3	0	0	2	4	2	17	0
Sultanpur	0830	97	1015·6	1004·4	..	20·3	14·0	8·3	10·9	48	..	0·5	..	1·8	0	0	14	1	0	1	0	0	0	12	0	15	0
	1730	"	1011·2	1000·3	..	28·1	16·8	7·4	10·0	28	..	0·2	..	2·8	0	0	25	0	0	0	0	0	0	25	0	4	0
Faizabad	0830	102	1014·8	1002·8	..	16·1	12·6	9·4	11·8	66	..	0·4	..	2·1	0	0	16	0	0	0	1	0	1	11	3	13	0
	1730	"	1010·8	999·2	..	25·9	18·3	12·7	15·4	45	..	0·6	..	0·9	0	0	8	0	0	0	0	0	0	7	1	21	0
Banda	0830	121	1016·1	1001·8	..	18·5	13·8	9 1	11·8	55	..	0·4	..	1·0	0	0	10	0	0	1	0	1	5	1	2	19	0
	1730	"	1012·1	998·2	..	28·9	18·8	11·7	13·7	35	..	0·6	..	1·2	0	0	10	0	1	0	0	0	4	2	3	19	0
Fatehpur	0830	114	1015·7	1002·2	..	16·3	12·1	8·1	10·8	59	−12	0·4	−1·4	3·0	0	0	22	1	0	0	0	0	8	8	5	7	0
	1730	"	1011·4	998·5	..	27·8	17·3	8·4	11·2	31	..	0·4	..	5·6	0	0	21	8	0	0	1	0	0	4	15	8	0
Kanpur	0830	126	1015·3	1000·9	+0·5	16·4	11·9	7·2	10·0	57	−11	0·4	−1·9	5·9	0	0	26	0	1	0	0	0	6	16	3	3	0
	1730	"	1011·7	997·5	..	26·3	16·5	5·0	9·0	23	..	0·2	..	8·2	0	1	28	2	1	0	0	0	3	18	5	0	0
Kanpur (Aerodrome)	0530	126	1013·4	998·4	..	12·8	9·8	6·6	9·6	67	..	0·3	..	..	0	1	14	1	1	0	1	0	0	11	1	14	0
	0830	"	1015·3	1000·5	..	16·6	12·0	7·4	9·7	55	..	0·4	..	..	0	0	21	1	1	0	0	0	3	15	1	8	0
	1130	"	1015·1	1000·9	..	26·4	16·5	8.1	11·3	32	..	0·3	..	..	0	1	26	2	2	2	2	1	1	11	6	2	0

*Wind observations for 23 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Kanpur (Aerodrome) —Contd.	1730	126	1011·5	997·1	..	28·0	18·0	9.6	12·3	34	..	0·5	..	..	0	0	24	2	2	1	0	0	1	15	3	5	0
	2330	,,	1013·5	998 8	..	17·3	12·5	7·9	11·1	55	..	0·2	..	..	0	1	12	1	1	1	0	0	1	8	1	16	0
Lucknow	0830	111	1015·4	1002·3	+0·2	15·5	12·0	8·5	11·3	65	−3	0·2	−1·8	2·5	0	0	24	0	0	0	0	1	4	19	0	5	0
	1730	,,	1011·7	999·2	..	27·3	17.1	8·3	11·1	32	..	0.4	..	2·5	0	0	24	0	0	2	0	1	0	18	3	5	0
Lucknow (Amausi Aerodrome)	0230	128	1012·9	997·8	..	12.8	10·5	7·7	11·0	72	..	0.2	..	7·3	0	0	22	1	1	0	0	1	4	11	4	7	0
	0530	,,	1013·0	997 7	..	11.0	9·3	7.5	10·5	79	..	0 5	..	5·9	0	0	21	0	1	0	0	0	5	13	2	8	0
	0830	,,	1015·1	1000·0	−0·3	16.0	12·5	8·4	11·1	62	−6	0·5	−1 5	8·4	0	1	24	4	0	0	0	0	7	12	2	4	0
	1130	,,	1014·7	1000·1	..	26.0	16·5	8·3	11·3	34	..	0·5	..	12·5	0	3	22	1	1	1	0	1	5	10	8	4	0
	1730	,,	1010·9	996 6	..	26·9	17·0	8·5	11·2	32	..	0·7	..	11·5	0	1	26	1	0	0	1	0	1	19	5	2	0
	2330	,,	1013·3	998·3	..	15·5	11·9	8·5	11·1	64	..	0·2	..	8·2	0	0	24	2	0	1	0	0	5	11	5	5	0
Hardoi	0830	142	1015·0	998 2	..	14.8	11·5	8·1	10 8	66	..	0·2	..	3·8	0	0	21	2	1	0	0	0	1	15	2	8	0
	1730	,,	1010·9	994 9	..	27·3	17·0	8·4	11·0	31	..	0·5	..	5·2	0	0	22	1	0	0	0	0	0	15	6	7	0
Lakhimpur Kheri	0830	147	1014·4	997·0	..	14·4	12·6	10·8	12·9	79	..	0	..	1·8	0	0	16	1	1	0	0	0	0	11	3	13	0
	1730	,,	1010·5	993 9	..	26·4	19·9	15·6	17·7	53	..	0·2	.	1·6	0	0	12	0	0	1	0	0	0	11	0	17	0
Bahraich	0830	124	1015·1	1000·6	+0·7	18·0	13·7	9·5	12·1	58	..16	0·3	−1·3	3·4	0	0	26	4	0	8	0	0	0	13	1	3	0
	1730	,,	1011·1	997·0	..	26·0	17·1	9 8	12·3	38	..	0·6	..	3·2	0	0	28	0	0	1	0	0	0	25	2	1	0
Uttar Pradesh (West) Orai	0830	141	1018·3	1001·9	..	21·6	14·5	8·0	10 8	42	..	0·2	..	2·9	0	0	26	0	2	0	0	0	1	3	20	3	0
	1730	,,	1012·0	996 1	..	27·9	17·5	8·7	10 8	30	..	0 1	..	3·1	0	0	28	0	2	0	0	0	1	1	4	1	0
Jhansi	0830	251	1016·4	987·1	+0·4	19·0	12·8	6·7	9 9	35	−9	0·2	−1·2	0·4	0	0	4	1	0	0	0	1	0	1	1	25	0
	1730	,,	1011·5	983·5	..	29·2	17·7	8·7	10·8	27	..	0·3	..	2·2	0	0	20	14	0	1	0	0	0	1	4	9	0
Agra	0830	169	1016·1	996 2	+0·4	15·7	11·0	6·2	9·3	34	−9	0 4	1·7	1·3	0	0	11	0	0	0	0	0	3	7	1	18	0
	1730	,,	1012·3	993 2	..	27·9	15·9	4·1	8·3	22	..	0·6	..	0·6	0	0	6	0	0	0	0	0	0	3	3	23	0
Agra (Aerodrome)	0530	169	1014·4	994·1	..	10·7	8·7	6·0	9·6	74	..	0·3	..	..	0	0	6	1	0	0	1	0	0	2	2	23	0
	0830	,,	1016·1	996·0	..	14·6	10·8	6 8	9·8	61	..	0·5	..	..	0	0	16	0	0	0	0	0	2	10	4	13	0
	1130	,,	1015·8	996·4	..	25·4	15·6	6·5	9·5	30	..	0·5	..	..	0	2	23	1	1	1	1	1	5	5	10	4	0
	1730	,,	1012·8	992·4	..	26·6	15·9	5·6	9·6	26	..	0·9	..	..	0	1	25	4	1	1	0	0	0	11	9	3	0
	2330	,,	1014·3	994 3	..	15·4	12·0	7·8	10·1	62	..	0·6	..	..	0	0	6	2	0	0	0	0	0	2	2	23	0
Mainpuri	0830	157	1014·7	996·2	−0·6	14·9	11·3	7·9	10 6	65	−1	0·3	−1·9	2·6	0	0	22	1	0	0	1	0	2	14	4	7	0
	1730	,,	1011·1	993·3	..	27·9	18·3	11·0	13·4	36	..	0·7	..	2·5	0	0	23	0	0	1	0	0	0	10	12	6	0
Aligarh	0830	187	1015·8	993·2	..	13·8	10·4	6·8	10·5	63	−5	0 4	−1·6	2·3	0	0	21	0	0	0	0	0	0	20	1	8	0
	1730	,,	1012·0	990·7	..	26·3	16·3	7·4	10 4	31	..	0·7	..	2·8	0	0	21	6	0	0	0	0	0	13	2	8	0
Bareilly	0830	173	1014·7	994 3	−0·3	15·5	12·2	9·1	11·6	66	−9	0·3	−2·0	2·1	0	6	15	1	0	0	1	0	1	8	4	14	0
	1730	,,	1010·8	991·2	..	25·4	16·0	7·3	10·3	34	..	0·6	..	1·7	0	0	11	0	0	0	0	0	0	7	4	18	0
Bareilly (P.B.C.)	0230	172	1012·6	992·3	..	15·2	11·8	8·8	11.3	67	..	0·1	..	3·7	0	9	18	1	0	1	0	0	0	10	6	11	0
	0530	,,	1012·7	992·3	..	13·5	10·8	8·3	10·8	71	..	0·1	..	3·4	0	0	25	0	2	1	0	0	0	18	4	4	0
	1130	,,	1014·5	994·8	..	23·4	15·6	9·7	11·4	42	..	0·3	..	6·1	0	0	24	3	0	0	1	0	0	8	12	5	0
	2330	,,	1013·1	993·1	..	17·8	13·0	9·0	11 3	58	..	0·2	..	3·5	0	0	20	3	1	0	0	0	0	9	7	9	0
Meerut	0830	222	1015·6	989·6	+0·3	16·5	12·7	8·2	11 6	59	−11	0·3	−2 0	2 8	0	0	17	0	0	0	0	0	2	12	3	12	0
Najibabad	0830	270	1015·2	983·3	..	11·5	10·3	9·0	11 8	85	..	0·3	.	1·3	0	0	12	0	1	1	1	0	1	0	8	17	0
	1730	,,	1012·1	981·6	..	25·4	16·9	9·9	12·5	39	..	0·3	..	2·1	0	0	17	0	0	0	1	0	0	0	16	12	0
Roorkee	0830	274	1016·2	983·8	+0·8	13·4	11·4	9·4	11 9	76	−3	2·2	−0·4	0·6	0	0	6	0	0	0	0	0	0	0	6	23	0
	1730	,,	1012·4	981·3	..	23·9	15·9	8·7	11 5	40	..	2·3	..	0·7	0	0	7	0	0	0	0	0	0	1	6	22	0
Dehra Dun	0530	682	1014·1	935 5	..	11·8	9·1	6.5	9 3	69	..	0·7	..	1·6	0	0	13	7	2	0	0	0	0	0	4	16	0
	0830	,,	1014·9	937 0	+0·2	14·9	11.2	8·0	10·5	64	−9	1·0	−2·3	0·7	0	0	6	2	2	0	0	0	0	1	1	23	0
	1130	,,	1013·9	937 9	..	21·8	14·0	7·4	9·7	40	..	0·8	.	3·8	0	0	25	0	0	0	4	4	13	4	0	4	0
	1730	,,	1011·1	935·3	..	22·1	14 9	8·7	11·0	44	..	1·2	..	2·2	0	0	18	0	0	0	1	4	2	6	5	11	0
	2330	,,	1014·5	936 7	..	15·0	11·4	8·1	10 1	65	..	0·2	..	3·8	0	0	20	13	5	1	0	0	0	0	1	9	0
Punjab (India) (Including Delhi) New Delhi	0230	216	1014·2	988·7	..	14·2	10·5	6·3	9.9	60	..	0·5	..	7·1	0	0	20	3	0	1	0	0	0	6	10	9	0
	0530	,,	1014·3	988·5	..	12·6	9·3	5·6	8·7	63	..	0·4	..	6·8	0	0	22	0	0	0	0	0	1	13	8	7	0
	0830		1015·9	990·4	+0·4	14·5	10·1	5·2	8 7	54	−9	0·8	−1·6	11·6	0	3	21	1	0	0	0	1	0	15	7	5	0
	1130	,,	1015·6	990·9	.	24·1	14·9	5·8	9.7	31	..	0·8	..	13·8	0	5	24	1	0	2	0	0	2	9	15	0	0
	1730	,,	1012·2	987·5	..	26·2	15·6	5·4	9·1	28	..	0·8	..	12·8	0	3	25	7	1	0	0	0	0	0	20	1	0
	2330	,,	1014·4	989·1	..	16·6	12·0	7·3	10·2	55	..	0·4	.	8·0	0	1	18	5	0	0	0	0	0	2	12	10	0
New Delhi (Palam Aerodrome)	0230	233	1014·0	986·8	..	15·4	11·7	8·1	10·6	62	..	0·3	.	..	0	0	15	3	0	1	1	1	5	2	2	14	0
	0530	,,	1014·2	986·6	..	12·6	10·2	7·7	10·8	73	..	0·5	..	..	0	0	17	0	0	0	0	2	13	1	1	12	0
	0830	,,	1016·0	988·5	..	13·4	9·9	5·9	9·6	62	..	0·8	.	..	0	0	23	0	0	0	1	2	18	2	0	6	0
	1130	,,	1015 8	989·2	..	23·4	15·2	8·2	10·4	39	..	0·5	..	..	0	2	25	1	0	1	2	0	4	11	8	2	0
	1430	,,	1012·8	986·5	..	27·2	16·0	5·5	10·3	27	..	0·8	..	..	0	11	18	2	0	0	1	0	0	13	13	0	0
	1730		1011·9	985·7	..	26·4	15.8	6·5	9·2		..	0·9	.	..	0	5	24	5	0	1	0	0	0	3	20	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi) (*Contd.*)																											
New Delhi (Palam Aerodrome)	2030	233	1013·6	986·8	..	21·0	14·3	8·1	10·1	45	..	0·6	..	..	0	0	23	6	2	1	0	0	3	4	7	6	0
contd.	2330	„	1014·4	987·3	..	17·8	12.7	7·7	10·8	54	..	0·3	..	..	0	0	18	3	1	2	0	0	4	3	5	11	0
Hissar	0530	221	1014·8	988·4	..	10·6	9·2	7·7	10·5	83	..	1·0	..	5·3	0	0	28	3	0	1	3	1	9	6	5	1	0
	0830	„	1016·4	990·0	+0·5	11·6	9·7	7·7	10·6	78	+13	0 9	−1·3	4·7	0	0	26	3	2	1	0	4	9	5	2	3	0
	1130	„	1016·0	990·8	..	24·5	17·5	12·3	14·4	48	..	0·8	..	4·9	0	0	26	2	2	1	6	3	2	4	6	3	0
	1730	„	1012·9	987·8	..	26 4	18·9	14·1	15·9	46	..	0·8	..	6·0	0	0	28	5	0	0	0	0	4	11	8	1	0
	2330	„	1015·0	989·0	..	15·2	12·3	9 6	12·0	70	..	0·7	..	5·1	0	0	29	7	1	2	2	0	3	2	12	0	0
Karnal	0830	249	1015·9	986·5	..	14·0	10·9	7·6	10·6	66	..	0·1	..	2·3	0	0	11	0	1	0	0	0	1	0	9	18	0
	1730	„	1012·1	983·9	..	24·9	16 4	8·9	11·9	38	..	0·2	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Patiala	0830	251	1015·7	986·2	..	14·6	11·1	7·6	10·4	64	..	1·1	..	5·3	0	0	17	1	0	0	1	0	0	0	15	12	0
	1730	„	1013·0	984·4	..	23·4	15·1	7·2	10·3	36	..	2·9	..	4·8	0	0	20	0	0	0	0	0	0	0	20	9	0
Ambala	0830	272	1015·1	983·0	−0·1	13·3	10·6	7·9	10·7	71	−2	0·7	−2 2	..	0	0	8	0	0	0	5	0	0	0	3	21	0
	1730	„	1011·8	981·1	..	24·4	15·4	7·6	10·4	35	..	0·7	..	..	0	2	21	0	3	0	10	0	0	1	8	6	0
Ambala (P.B.O.)	0230	278	1013·4	980·9	..	14·4	11·5	9·3	11·2	72	..	1·0	..	7·0	0	0	25	5	0	0	0	0	0	3	17	4	0
	0530	„	1013·1	980 4	..	12·5	10.3	8·3	10·7	76	..	1·0	..	4·8	0	0	19	3	1	1	0	0	0	5	9	10	0
	1130	„	1015·0	983.3	..	22·3	15·9	11·6	12·6	52	..	1·2	..	8·6	0	0	25	6	1	0	1	2	1	1	13	4	0
	2330	„	1013·8	981·5	..	16·7	13·0	10·2	12·1	65	..	0·2	..	7·6	0	0	26	2	3	0	0	0	0	3	18	3	0
Ambala (Aerodrome)	0530	274	1013·6	980·9	..	9·9	8·7	7·2	10·2	84	..	0 9	..	..	0	1	10	0	0	0	0	0	0	6	5	18	0
	0830	„	1015·1	982·6	..	12·2	10·2	8·1	10·7	77	..	1·4	..	..	0	1	14	0	0	0	0	0	0	7	8	14	0
	1130	„	1014·7	983·4	..	22·9	15 3	8·6	11·4	42	..	1·2	..	..	0	8	15	0	0	0	0	1	2	7	13	6	0
	1730	„	1011·4	980·4	..	24·6	15·5	7·0	10·3	34	..	1·5	..	..	0	7	19	0	0	0	0	0	0	13	13	3	0
	2330	„	1014·3	982·0	..	13·5	11·1	8·6	11·3	74	..	0·6	..	..	0	1	13	0	0	0	0	0	0	6	8	15	0
Chandigarh	0830	347	1014·5	974·3	..	16·9	12·3	7·5	9·5	56	..	0·9	..	..	0	0	15	2	3	2	1	0	1	2	4	14	0
	1730	„	1011·4	972·3	..	24·3	15·3	6·6	10·0	35	..	0·7	..	..	0	0	22	0	0	0	0	1	5	3	13	7	0
Ludhiana	0830	247	1016·1	987·0	+0·6	13·6	11·6	8·3	10·9	70	−6	0·7	−1 9	2·0	0	0	17	0	2	0	0	0	1	0	14	12	0
	1730	„	1012·6	984·0	..	24·5	17·8	13·0	15·0	45	..	0·8	..	3·0	0	0	24	1	0	0	1	0	2	2	18	5	0
Halwara (Aerodrome).	0830	242	1016·2	987·4	..	11·5	10·3	9·0	11·1	85	..	1·3	..	..	0	0	16	1	1	0	0	0	1	3	10	13	0
	1730	„	1013·1	985·6	..	23·6	16·4	10·3	12·1	44	..	1·3	..	..	0	0	26	1	0	0	0	0	0	5	20	3	0
Bhatinda	0830	211	1016·1	991·2	..	16·0	11·5	7·6	10·1	58	..	1·0	.	3·2	0	0	22	5	2	1	2	2	3	0	7	7	0
	1730	„	1012·3	988·3	..	25·4	15·6	6·6	9 6	30	..	0·3	..	(c) 5·8	0	0	28	4	0	1	0	1	0	0	22	0	0
Ferozepur	0830	200	1015·7	991·8	..	11 3	9·8	8·2	10·9	83	..	0·8	..	0·4	0	0	4	1	1	0	0	0	2	0	0	25	0
	1730	„	1012·5	989·8	..	25·3	17·4	10·9	13·0	42	..	0·4	..	1·4	0	0	12	2	1	0	0	0	1	0	8	17	0
Amritsar	0530	234	1014·8	986·6	..	8·5	7·7	6·7	9·8	88	..	0·8	..	3·3	0	0	19	1	2	1	1	1	2	7	4	10	0
	0830	„	1016·0	988·1	..	10·9	9·5	8·0	10·6	83	..	1·7	..	1·6	0	0	12	3	0	3	0	0	0	4	2	17	0
	1130	„	1016·2	989·2	..	21·4	14·8	9·0	11·6	46	..	1·6	..	6·0	0	0	22	4	0	2	1	1	1	4	9	7	0
	1730	„	1012·6	985·9	..	24·2	15·7	8·1	10·7	37	..	1·4	..	7·6	0	2	22	2	0	0	0	0	0	7	15	5	0
Pathankot (Aerodrome).	0830	312	1015·6	979·0	..	13·1	10·7	8·1	11·2	73	..	2·3	..	2·3	0	0	18	5	7	2	0	0	3	0	1	11	0
	1130	„	1015·3	979·7	..	22.1	14·6	7·5	10·5	40	..	2·3	..	2·9	0	0	25	1	1	0	3	4	11	5	0	4	0
	1730	„	1012·1	976·8	..	23·7	15·2	7·2	10·3	36	..	2·9	..	4 9	0	0	29	0	0	0	0	0	7	18	4	0	0
Adampur (Aerodrome).	(R) 0530	238																									
	(R) 0830	„																									
	(R) 1130	„																									
	(R) 1730	„																									
	(R) 2330	„																									
Himachal Pradesh																											
Bilaspur	0830	493	1018·1	959·8	..	9·2	8·0	6·8	9·7	85	0	2·5	+0.5	0 8	0	0	4	0	1	1	1	0	1	0	0	25	0
	1730	„	1011·7	956·6	..	23·8	14·5	5·9	9·2	33	..	1·8	..	5·0	0	0	26	2	1	1	1	4	4	6	7	3	0
Mandi	0830	761	1018·6	930·1	..	8·5	7·4	6·2	9·5	86	+1	1·5	..	0·7	0	0	7	1	0	0	0	0	0	1	5	22	0
	1730	„	1010·0	926·3	..	22·8	18·9	15·8	19·0	69	..	1·1	..	0·9	0	0	9	1	0	0	0	0	1	3	4	20	0
Jammu and Kashmir																											
Srinagar	0830	1587	1558·3	847·3	+3·5	2·5	1·8	1·0	6·5	90	+2	5·4	−0·8	1·2	0	0	10	1	0	0	3	0	0	6	0	19	0
	1130	„	1561·6	847·6	..	7·0	4·4	1·6	6·9	71	..	5·3	..	2·1	0	0	13	1	0	0	3	0	0	7	2	16	0
	1730	„	1532·3	844·7	..	8·9	4·9	0·4	6·2	59	..	5·8	..	2·9	0	0	22	2	2	0	3	0	1	10	4	7	0
Srinagar (Aerodrome).	0530	1666	1542·2	837·8	..	1·9	0·8	−0·8	5·8	83	..	5·1	..	..	0	0	12	1	1	2	0	0	2	2	4	17	0
	0830	„	1552·8	839·9	..	2·6	1·4	−0·1	6·1	83	..	5·4	..	..	0	0	19	0	0	1	5	3	0	3	7	10	0
	1130	„	1558·1	839·6	..	6·3	3·7	0·9	6·3	70	..	5·6	..	..	0	1	25	6	2	3	2	0	0	1	12	3	0
	1730	„	1529·8	836·8	..	8·3	4·3	−0·4	5·9	59	..	5·4	..	..	0	3	24	4	0	3	1	1	1	2	15	2	0

(c) Mean of 28 days.

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—(*Contd.*)																											
Gulmerg	0830	2655				Closed during winter months																					
	1730	,,																									
Leh	0530	3514	3134·1	667·3	..	−6·4	−8·9	−14·3	1·6	47	..	2·4	..	3·4	0	0	14	6	7	0	0	0	0	0	1	14	0
	0830	,,	3143·5	668·4	+4·8	−4·3	−7·5	−14·7	1·6	40	−15	2·8	−2·5	1·6 (c)	0	0	10	1	8	0	0	1	0	0	0	19	0
	1730	,,	3096·1	665·2	..	3·0	−1·5	−9·8	3·2	40	..	4·1	..	6·9	0	0	22	0	1	0	0	2	15	2	2	7	0
Skardu (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Misgar (R)	0830																										
(R)	1730																										
Jammu*	0830																										
Jammu(Aerodrome)	0530	292	1014·5	979·4	..	13·1	10·5	7·7	10·7	71	..	1·6	..	..	0	1	19	5	14	0	1	0	0	0	0	9	0
	0830	,,	1015·5	981·1	..	14·6	10·7	7·0	10·1	62	..	2·5	..	..	0	0	24	2	19	2	1	0	0	0	0	5	0
	1130	,,	1015·9	982·2	..	21·5	14·6	8·2	11·5	44	..	2·3	..	..	0	0	9	1	2	0	2	0	0	0	4	20	0
	1730	,,	1012·4	979·9	..	23·9	15·4	7·7	10·9	37	..	2·5	..	..	0	0	19	0	1	0	0	0	4	8	6	10	0
Rajasthan (West) Sri Ganganagar	0530	177	1014·8	993·7	..	11·4	9·0	6·3	9·4	71	..	0·6	..	0·4	0	0	3	0	0	1	2	0	0	0	0	26	0
	0830	,,	1016·0	994·9	..	11·9	9·2	5·9	9·4	68	−12	0·9	−2·4	1·2	0	0	11	1	0	2	2	2	2	1	1	18	0
	1130	,,	1016·4	996·1	..	23·3	15·1	6·9	10·3	36	..	1·2	..	4·2	0	0	24	4	2	3	2	4	2	3	4	5	0
	1730	,,	1012·4	992·4	..	26·9	16·3	6·5	10·1	28	..	0·6	..	1·1	0	0	9	0	2	1	0	1	0	1	4	20	0
	2330	,,	1014·8	994·0	..	15·5	12·0	8·5	11·1	63	..	1·0	..	0·6	0	0	4	1	1	0	0	0	2	0	0	25	0
Churu	0830	291	1017.1	982·6	..	12·3	8·3	3·0	7.7	55	..	0·8	..	2·4	0	0	15	0	0	1	3	5	2	4	0	14	0
	1730	,,	1011·9	979·4	..	28·4	18·0	8·5	12·3	32	..	1·0	..	8·4	0	0	29	16	2	1	0	0	0	4	6	0	0
Bikaner	0830	224	1016·5	989·9	+0·8	13·0	4·7	−1·7	5·5	38	−21	0·5	−1·7	2·6	0	0	23	0	1	2	16	3	1	0	0	6	0
	1730	,,	1011·9	986·9	..	29·0	15·4	0·4	6·5	16	..	0·3	..	4·4	0	0	28	5	2	0	2	0	3	2	14	1	0
Bikaner (P.B.O.)	0530	224	1014·9	988·0	..	9·4	6·8	3·2	7·8	66	..	0·6	..	0·2	0	0	2	0	2	0	0	0	0	0	0	27	0
	1130	,,	1015·9	990·4	..	26·3	16·8	8·9	11·5	34	..	0·7	..	5·6	0	0	25	3	4	0	5	3	5	3	2	4	0
	2330	,,	1015·0	988·6	..	15·1	10·6	5·6	9·2	54	..	0·4	..	2·3	0	0	9	2	5	0	0	0	1	0	1	20	0
Jaisalmer	0830	242	1015·6	987·1	..	14·2	8·4	0·6	7·2	40	..	0·9	..	2·9	0	0	11	3	3	0	1	2	1	0	1	18	0
	1730	,,	1011·2	984·4	..	30·0	14·8	−4·2	4·7	11	..	0·8	..	14·2	0	0	28	7	3	0	0	6	5	3	4	1	0
Phalodi	0830	234	1016·6	988·8	..	14·6	10·5	5·3	9·2	56	..	0·8	..	2·9	0	0	11	0	1	0	2	1	4	3	0	18	0
	1730	,,	1012·5	986·3	..	29·9	21·2	15·9	17·6	44	..	0·8	..	5·9	0	0	27	4	3	0	1	0	1	14	4	2	0
Nagaur	0830	298	1016·4	981·5	..	15·5	8·7	−0·8	5·8	35	..	0·4	..	2·4	0	0	17	1	2	1	5	5	0	0	3	12	0
	1730	,,	1011·7	978·4	..	29·3	15·4	0·3	7·4	16	..	0·6	..	6·3	0	0	23	2	2	0	0	1	2	3	13	6	0
Jodhpur	0230	224	1014·3	988·1	..	17·5	9·3	−3·5	4·9	24	..	0·5	..	8·9	0	0	28	10	13	1	0	0	1	3	0	1	0
	0530	,,	1014·3	988·0	..	15·3	7·9	−3·6	4·6	27	..	0·3	..	8·5	0	1	25	7	15	2	0	0	1	1	0	3	0
	0830	,,	1016·1	989·8	+1.9	16·3	8·4	−4·3	4·9	25	−22	0·5	−1·7	5.1	0	0	20	3	16	1	0	0	0	0	0	9	0
	1130	,,	1016·0	990·5	..	26·0	13·3	−3·2	5·0	15	..	0·8	..	6·1	0	0	22	2	7	5	1	3	3	1	0	7	0
	1730	,,	1011·6	986·6	..	30·6	14·9	−5·6	4·5	9	..	0·9	..	7·0	0	0	26	8	5	1	0	0	3	4	5	3	0
	2330	,,	1014·3	988·4	..	20·9	10·9	−2·4	5·0	21	..	0·3	..	8·4	0	0	25	10	9	0	0	0	2	3	1	4	0
Barmer	0530	194	1013·6	990·8	..	17·0	9·4	−1·9	5·9	30	..	0·2	..	..	0	0	25	10	2	0	0	0	0	0	13	4	0
	0830	,,	1015·2	992·4	+0·7	17·0	9·8	−0·3	6·6	33	−25	0·6	−1·5	..	0	0	29	11	5	2	2	0	0	2	7	0	0
	1130	,,	1015·6	993·5	..	26·8	14·0	−1·5	5·6	16	..	0·7	..	..	0	0	29	11	5	8	2	0	0	0	3	0	0
	1730	,,	1011·3	989·7	..	31·2	15·6	−2·9	5·1	11	..	0·9		..	0	0	27	10	5	5	1	0	0	1	5	2	0
	2330	,,	1013·8	991·4	..	21·9	11·7	−1·6	5·5	21	..	0·2	..	5·2	0	0	27	7	5	1	0	0	2	8	4	2	0
Rajasthan (East) Pilani	0830	304	1016·9	981·7	..	15·1	9·3	1·8	6·9	42	..	0·2	..	9·2	0	0	29	0	0	1	7	5	10	5	1	0	0
	1730	,,	1012·3	978·8	..	28·1	16·0	3·9	8·1	22	..	0·5	..	10·6	0	3	26	14	1	0	0	0	0	3	10	0	1
Alwar	0830	271	1015·5	983·5	..	13·6	11·1	8·7	11·7	73	..	0·5	..	0·6	0	0	4	0	1	1	0	0	0	0	2	25	0
	1730	,,	1011·5	981·3	..	28·2	17·8	9·2	12·4	29	..	1·3	..	3·9	0	0	22	7	5	2	0	0	1	1	6	7	0
Sikar	0830	433	1016·8	966·7	..	15·6	9·7	3·3	7·4	42	..	0.4	..	2·1	0	0	20	0	1	13	4	0	0	2	0	9	0
	1730	,,	1011·8	963·9	..	28·0	15·6	4·2	7·5	23	..	0·7	..	2·9	0	0	27	3	0	4	0	0	0	14	6	2	0
Jaipur (Sanganer Aerodrome)	0230	390	1014·4	968·7	..	14·2	8·6	1·2	6·7	42	..	0·4	..	..	0	0	25	11	9	3	0	0	0	0	2	4	0
	0530	,,	1014·5	968·7	..	12·7	7·9	1·3	7·0	46	..	0·6	..	..	0	0	22	8	9	1	0	0	0	1	3	7	0
	0830	,,	1016·0	970·5	0	15·8	10·1	3·3	7·6	45	−3	0·6	..	..	0	0	15	3	3	5	1	0	0	0	3	14	0
	1130	,,	1015·2	971·3	..	25·7	14·3	1·6	7·0	21	..	0·5	..	..	0	1	25	2	0	5	6	2	4	4	3	3	0
	1730	,,	1011·1	967.7	..	27·8	15·0	0·8	6·7	18	..	1·3	..	..	0	0	24	2	1	0	3	1	1	4	12	5	0
	2330	,,	1014·5	969·1	..	15·8	9·5	1·8	6·7	38	..	0·2	..	..	0	0	21	11	3	1	0	0	0	0	6	8	0

(R) Register not received. (c) Mean of 28 days. *Temporarily closed.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—(*Contd.*)																											
Dholpur	0830	176	1015·5	994·7	..	15·5	10·8	5·8	9·6	53	..	0·4	..	1·8	0	0	11	0	0	0	0	0	1	2	8	18	0
	1730	„	1011·0	991·2	..	27·6	16.3	5·6	9·5	26	..	9·0	..	3·7	0	0	23	15	0	0	0	0	0	2	6	6	0
Tonk	0830	272	1015·9	983·7	..	13·0	9·8	5·6	9·6	63	..	0·6	..	2·1	0	0	21	5	2	0	1	1	1	2	9	8	0
	1730	„	1010·5	980·1	..	28·4	17·4	7·7	10·9	29	..	0·9	..	5.1	0	0	28	5	2	1	0	0	3	7	10	1	0
Ajmer	0830	436	1017·3	960·7	+0·7	13·3	8·3	2·5	7·4	49	−3	0·5	−1·2	2·2	0	0	16	2	3	0	1	1	0	1	8	13	0
	1730	„	1011·3	957·7	..	27·7	13·6	−2·5	5·3	14	..	1·2	..	5·8	0	0	28	2	1	1	2	3	6	8	5	1	0
Kotah	0530	257	1014·7	984·6	..	15·4	10·6	5·4	9·2	52	..	0·3	..	1·0	0	0	7	0	0	0	0	0	4	2	1	22	0
	0830	„	1016·4	986·5	+0·5	18·2	11·5	4·2	8·4	40	−8	0·4	−1·4	0·9	0	0	7	0	0	0	0	0	4	1	2	22	0
	1130	„	1015·7	986·7	..	27·5	15·8	4·7	8·6	24	..	0·4	..	0·8	0	0	5	0	1	0	1	0	1	1	1	24	0
	1730	„	1012·1	983·6	..	29·4	16·5	4·4	8·1	20	..	0·5	..	1·7	0	0	10	0	1	0	0	0	0	3	6	19	0
	2330	„	1014·5	994·8	..	19.4	12·9	6·3	9·9	43	..	0·2	..	0·4	0	0	4	0	0	0	2	1	1	0	0	25	0
Chambal	0830	351	1017·0	976·0	..	14·7	9·7	3·7	8·0	48	..	0·7	..	1·4	0	0	7	2	1	2	1	1	0	0	0	22	0
	1730	„	1011·1	972·2	..	29·3	16·9	5·1	9·6	24	..	0·6	..	8·7	0	1	27	8	10	0	0	0	0	3	7	1	0
Jhalawar	0330	321	1016·3	979·5	+1·1	17·0	10·6	2·1	7·9	37	−15	0·4	−1·1	0·7	0	0	7	2	1	1	0	0	0	1	2	22	0
	1730	„	1010·6	975·2	..	30·9	16·1	0·9	6·6	14	..	0·4	..	3·8	0	0	28	5	4	1	0	1	1	5	11	1	0
Udaipur	0230	582	1015·8	948·3	..	12·9	9·1	5·2	8·6	61	..	0·3	..	0·3	0	0	2	1	0	0	0	0	0	0	1	27	0
	0530	„	1016·2	948·3	..	11·6	8·2	5·0	8·6	66	..	0·3	..	0·8	0	0	7	2	2	0	0	0	0	1	2	22	0
	0830	„	1017·3	950·2	+0·6	14·7	10·0	5·3	8·9	55	+5	0·5	−0·9	0·4	0	0	4	2	0	0	0	0	0	2	0	25	0
	1130	„	1014·9	950·6	..	26·1	14·9	4·7	9·0	26	..	0·5	..	3·5	0	0	21	2	2	8	1	2	1	3	2	8	0
	1730	„	1010·6	946·9	..	28·5	15·8	4·8	7·4	23	..	0·8	..	3·1	0	0	21	1	5	6	1	2	3	3	0	8	0
	2330	„	1015·8	949·0	..	15·6	10·3	6·2	9·6	54	..	0·4	..	0·8	0	0	3	0	0	0	0	0	0	1	2	26	0
Eriopura (Jawai Dam)	0830	295	1016·2	981·5	..	14·3	11·1	7·8	10·5	67	..	0·4	..	2·7	0	0	15	0	2	1	4	6	2	0	0	14	0
	1730	..	1011·6	978·6	..	29·6	20·0	12·8	15·4	38	..	0·9	..	3·7	0	0	27	10	3	0	0	0	0	3	11	2	0
Madhya Pradesh (West)																											
Gwalior (P.B.O.)	0230	207	1014·0	989·5	..	13·2	8·9	3·6	8·2	53	..	0·4	..	2·3	0	0	18	0	0	1	9	4	2	0	2	11	0
	0530	„	1014·2	989·6	..	12·3	8·3	3·3	8·0	56	..	0·5	..	2.7	0	0	18	1	0	0	9	3	1	0	4	11	0
	0830	„	1015·9	991·7	+0·1	17·3	11·0	3·8	8·6	41	−15	0·5	−1·2	3·0	0	2	18	1	0	0	11	1	2	1	4	9	0
	1130	„	1015·4	991·9	..	26·3	14·6	1·7	7·3	21	..	0·4	..	6·9	0	0	27	8	4	1	2	1	1	2	8	2	0
	1730	„	1011·5	988·3	..	28·1	15·0	0·9	6·5	18	..	0·7	..	7·2	0	1	28	15	5	0	0	0	0	1	8	0	0
	2330	„	1014·3	990·0	..	15·4	9·9	3·3	7·8	45	..	0·4	..	2·8	0	0	20	0	0	1	9	5	3	0	2	9	0
Sheopur Kalan	0830	235	1016·2	988·7	..	16·0	10·8	5·0	8.9	49	..	0·8	..	3·9	0	0	22	2	2	1	5	10	1	0	1	7	0
	1730	„	1010·8	984·5	..	29·2	17·0	3·3	9·5	23	..	0·9	..	8·4	0	1	25	8	2	0	0	0	0	4	11	20	1
Guna	0530	478	1014·8	958·9	..	11·5	7·3	2·2	7·3	53	..	0·2	..	1·5	0	0	9	1	1	1	1	4	0	1	0	9	0
	0830	..	1015·9	961·1	+0.7	18·0	10·5	2·5	7·3	37	−20	0·8	−0·4	3·1	0	0	20	2	2	12	2	0	0	2	0	2	0
	1130	..	1014·4	961·3	..	27·1	14·1	1·8	6·8	19	..	0·7	..	4·2	0	0	27	2	4	8	1	2	2	3	5	2	0
	1730	..	1010.2	957·7	..	28·9	14·5	−0·5	6·1	15	..	0·7	..	6·4	0	0	27	2	2	3	0	0	1	4	15	20	0
	2330	..	1014·7	959·7	..	16·4	10·0	3·0	7·7	41	..	0·4	..	1·6	0	0	9	1	3	3	1	0	0	0	1	2	0
Rajgarh	0830	382	1016·2	971·8	..	30·5	10·3	4·6	8·3	47	..	0·7	..	2·6	0	0	13	2	1	0	2	2	0	3	3	16	0
	1730	..	1010·6	968·2	..	18·1	17·4	5·3	9·3	21	..	0·5	..	8·0	0	0	27	8	0	1	0	0	0	11	7	2	0
Neemuch	0830	496	1016·8	960·0	+1·1	29·4	9·9	0·2	6·5	30	−17	0·6	−0·8	2·8	0	0	19	1	14	3	1	0	0	0	0	10	0
	1730	„	1011·3	956·8	..	17·1	14·3	−2·0	5·5	13	..	0·7	..	6·4	0	0	27	10	7	0	1	0	0	4	5	2	0
Ratlam	0830	486	1015·7	959·9	..	30·7	12·7	8·8	11·4	59	..	0·6	..	9·0	0	0	23	3	10	7	0	0	1	2	0	6	0
	1730	„	1010·3	957·1	..	25·7	21·5	16·3	19·0	43	..	0·5	..	5·4	0	0	23	0	8	6	1	0	2	4	2	6	0
Alirajpur	0830	293	1016·0	982·0	..	18·0	12·1	5·9	9·4	46	..	0·5	..	1·9	0	0	13	0	0	3	3	3	1	1	2	16	0
	1730	„	1010·1	977·7	..	32·0	17·3	3·0	7·8	17	..	0·1	..	5·3	0	0	24	2	5	5	0	0	0	6	6	5	0
Indore	0530	567	1014·3	949·1	..	14·5	9·1	3·2	7·7	48	..	0·6	..	4·5	0	0	23	2	10	1	4	4	2	0	0	6	0
	0830	..	1015·8	951·3	+0·6	18·4	11·1	3·7	8·0	38	−8	0·7	−0·6	3·7	0	0	19	2	5	3	6	1	1	1	0	10	0
	1130	„	1014·0	951·6	..	27·8	14·9	2·9	7·7	21	..	0·6	..	12·7	0	0	29	1	3	9	7	4	3	0	1	0	0
	1730	„	1009·7	947·9	..	29·7	15·4	2·1	7·1	17	..	0·4	..	10·2	0	1	26	5	10	3	1	0	3	2	3	2	0
	2330	„	1014·3	950·0	..	18·7	11·2	3.2	7·7	37	..	0·3	..	6·0	0	0	24	3	5	2	3	4	2	1	4	5	0
Ujjain	0830	..	..	..	..	16·1	10·5	5·0	8·7	48	..	0·5	..	2·4	0	0	14	1	3	1	8	0	0	0	1	15	0
Bhopal (Bairagarh)	0230	523	1013·7	953·8	..	16·6	10·3	3·3	8·0	42	..	0·1	..	4·9	0	0	17	2	9	2	2	0	0	1	1	12	0
	0530	..	1014·2	954·9	..	14·9	9·4	3·6	7·9	48	..	0·3	..	4·6	0	0	20	4	11	1	1	0	0	0	3	9	0
	0830	„	1015·7	956·2	+0·7	19·0	11·7	4·3	8·3	38	−10	0·7	−0·8	3·3	0	0	13	0	8	2	2	0	1	0	0	16	0
	1130	„	1014·2	956·4	..	27·5	14·7	2·6	7·5	21	..	0·5	..	9·5	0	1	28	0	7	6	9	3	1	2	1	0	0
	1730	„	1010·2	952·9	..	29·0	14·8	0·8	6·6	17	..	0·6	..	9·9	0	1	26	5	9	2	0	2	1	1	7	2	0
	2330	„	1014·1	954·7	..	19·1	11·6	4·1	8·3	39	..	0·2	..	5.3	0	0	20	2	8	2	6	3	1	0	2	9	0
Khandwa	0830	318	1015·6	978·9	+0·6	19·7	13·4	7·6	10·3	46	+1	0·7	−0·4	2·0	0	0	19	0	6	2	4	3	1	2	1	10	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(*Contd.*)																											
Khandwa—(*contd.*)	1730	318	1009·6	974·7	..	32·3	19·3	9·3	11·8	25	..	0·6	..	5·1	0	0	28	4	14	0	0	1	1	0	8	1	0
Hoshangabad	0830	302	1015·9	980·9	+0·4	17·5	12·5	7·8	10·5	54	+3	0·7	−0·7	3·3	0	0	22	0	2	17	2	1	0	0	0	7	0
	1730	„	1010·3	976·9	..	30·2	16·9	4·4	8·6	20	..	0·8	..	2·5	0	0	22	0	1	15	0	3	1	1	1	7	0
Betul	0830	653	1015·8	942·1	..	19·0	12·1	5·5	9·2	43	..	0·7	..	1·2	0	0	12	1	0	7	4	0	0	0	0	17	0
	1730	„	1009·5	938·5	..	28·7	14·8	1·3	6·8	18	..	1·1	..	4·7	0	0	26	3	14	2	0	0	3	0	4	3	0
Chhindwara	0830	685	1016·1	938·6	..	17·7	12·2	7·3	10·2	51	..	0·9	..	1·0	0	0	8	2	2	1	0	0	0	1	2	21	0
	1730	„	1009·4	935·0	..	28·1	15·1	3·2	7·7	21	..	1·3	..	6·6	0	0	29	2	5	2	1	2	7	5	5	0	0
Seoni	0830	619	1015·4	945·7	+0·3	20·0	13·5	8·1	10·8	47	−6	1·1	−0·5	2·1	0	0	15	3	5	1	0	1	4	0	1	14	0
	1730	„	1009·5	942·3	..	26·7	16·3	6·7	10·9	27	..	1·1	..	2·9	0	0	24	6	3	2	7	1	3	0	2	5	0
Sagar	0830	551	1015·0	952·7	+0·4	20·5	12·8	5·9	9·1	38	−8	0·6	−1·0	6·3	0	0	26	0	9	10	2	0	3	2	0	3	0
	1730	„	1010·0	949·5	..	28·1	15·3	3·5	8·1	21	..	0·6	..	5·3	0	0	27	0	3	2	0	0	1	10	11	2	0
Nowgong	0830	229	1016·4	989·4	+0·5	14·2	10·5	6·6	9·7	61	−5	0·5	−1·6	3·1	0	0	23	0	1	3	0	5	14	0	0	6	0
	1730	„	1011·4	985·8	..	29·0	16·5	4·8	8·6	22	..	0·6	..	4·7	0	0	28	0	9	0	0	0	4	0	15	1	0
Madhya Pradesh (East)																											
Satna	0530	317	1014·0	976·6	..	12·6	10·1	7·4	10·3	71	..	0·8	..	1·3	0	0	13	0	0	0	1	3	2	6	1	16	0
	0830	„	1016·0	979·1	+0·5	16·3	11·9	7·4	10·4	57	−2	0·5	−1·4	2·4	0	0	23	0	0	1	0	3	10	6	3	6	0
	1130	„	1014·6	978·9	..	26·2	15·5	5·2	9·6	27	..	0·7	..	5·8	0	1	27	1	1	8	2	2	4	6	4	1	0
	1730	„	1010·7	975·3	..	27·4	16·5	6·7	10·7	28	..	0·8	..	3·5	0	0	24	9	0	0	0	0	0	4	10	6	0
	2330	„	1013·8	977·0	..	16·9	12·3	7·8	10·9	56	..	0.4	..	2·4	0	0	15	3	0	1	1	3	3	2	2	14	0
Sidhi	0830	..	1014·7	..	..	16·4	12·5	8·7	10·9	60	..	0·7	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	1730	..	1011·4	..	..	27·0	16·8	8·1	10·8	32	..	0·4	..	0·5	0	0	6	1	1	0	0	0	0	3	1	23	0
Umaria	0830	459	1015·9	963·0	..	16·3	12·2	8·5	11·3	61	−1	1·1	−1·0	0·3	0	0	3	1	0	0	1	1	0	0	0	26	0
	1730	„	1010·3	959·5	..	28·0	16·9	8·3	11·2	30	..	0·5	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Jabalpur	0530	393	1014·5	968·5	..	12·3	10·4	8·5	11·0	78	..	0·4	..	2·9	0	0	20	0	0	1	16	2	1	0	0	9	0
	0830	„	1016·0	970·6	+0·8	16·7	12·3	8·2	10·8	58	−2	0·8	−0·8	3·3	0	0	21	0	0	1	15	4	0	1	0	8	0
	1130	„	1014·4	970·6	..	27·3	16·7	7·6	11·0	29	..	0·3	..	4·5	0	0	25	2	5	2	5	3	7	0	1	4	0
	1730	„	1010·1	966·8	..	29·6	18·1	8·7	11·5	28	..	0·6	..	3·9	0	0	25	3	12	1	1	0	0	5	3	4	0
	2330	„	1014·2	968·8	..	16·5	13·1	10·0	12·4	67	..	0·1	..	2·5	0	0	14	0	2	1	6	5	0	0	0	15	0
Mandla	0830	443	1016·8	965·3	..	14·4	11·7	9·1	11·5	72	..	1·0	..	0·3	0	0	2	1	0	0	0	0	0	0	1	27	0
	1730	„	1010·1	961·3	..	28·2	16·5	5·8	9·3	25	..	0·9	..	2·9	0	0	14	8	0	0	0	2	0	0	4	15	0
Pendra	0530	625	1014·2	943·0	..	15·5	10·3	5·1	8·9	51	..	0·2	..	3·8	0	0	25	5	0	0	0	2	4	6	8	4	0
	0830	„	1015·7	945·1	+0·4	18·7	12·2	6·2	9·5	45	−14	1·1	−0·8	3·1	0	0	18	5	0	1	0	0	2	3	7	11	0
	1130	„	1014·0	945·1	..	25·5	14·6	4·9	8·7	27	..	0·5	..	6·5	0	0	28	12	5	1	1	3	3	0	3	1	0
	1730	„	1010·1	941·7	..	26·6	14·8	4·1	8·3	24	..	1·6	..	6·4	0	0	29	16	1	0	0	0	5	0	7	0	0
	2330	„	1014·3	943·7	..	18·2	11·6	5·1	9·0	43	..	0·2	..	3·6	0	0	23	3	0	0	0	0	3	10	7	6	0
Ambikapur	0830	611	1016·5	946·7	..	16·3	11·9	7·9	11·2	59	..	0·7	..	2·1	0	0	14	2	1	1	0	3	6	1	0	15	0
	1730	„	1010·0	943·1	..	26·7	14·8	3·9	8·0	24	..	0·8	..	7·4	0	0	29	21	2	1	0	0	4	0	1	0	0
Champa	0830	245	1015·6	987·1	..	18·3	13·5	8·7	11·8	53	..	0·4	..	4·3	0	0	52	22	0	0	1	0	0	0	2	4	0
	1730	„	1010·8	983·6	..	30·3	17·2	5·6	9·0	22	..	0·9	..	4·3	0	0	22	10	0	0	0	1	1	6	1	7	0
Raigarh	0830	220	1015·3	989·7	..	19·6	14·3	9·6	12·0	53	..	0·6	..	3·2	0	0	23	1	18	1	1	0	1	0	1	6	0
	1730	„	1010·1	985·5	..	29·9	18·0	8·2	11·0	27	..	1·2	..	2·5	0	0	17	5	2	2	2	0	1	1	4	12	0
Raipur	0530	298	1013·5	979·0	..	17·6	12·2	6·9	9·9	50	..	0·2	..	3·3	0	0	18	5	3	2	1	3	2	2	0	11	0
	0830	„	1015·5	981·3	+0.7	21·1	13·6	6·1	9·5	38	−18	0·7	−0·9	3·7	0	0	19	6	2	3	1	3	2	0	2	10	0
	1130	„	1014·3	981·1	..	28·7	16·2	4·2	8·3	21	..	0·6	...	6·6	0	0	27	5	9	3	0	4	2	2	2	2	0
	1730	„	1010·3	977·3	..	30·5	16·4	2·8	7·2	18	..	0·9	..	3·0	0	0	15	5	3	0	1	1	0	5	0	14	0
	2330	„	1013·2	979·2	..	22·6	14·2	6·0	9·5	35	..	0	..	4·4	0	0	22	4	1	3	1	4	2	6	1	7	0
Kanker	0830	402	1015·8	969·8	+1·1	18·5	13·9	9·8	12·4	57	−11	0·4	−1·4	0·3	0	0	1	0	0	0	1	0	0	0	0	28	0
	1730	„	1009·9	965·7	..	30·1	17·9	7·7	10·6	25	..	1·0	..	1·1	0	0	10	0	2	2	0	0	3	0	3	19	0
Jagdalpur (P.B.O.)	0530	559	1014·3	950·8	..	14·1	11·6	9·4	11·9	74	..	0·3	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	0830	„	1015·6	953·0	+0·7	18·9	13·9	9·8	12·3	56	−15	0·6	−1·0	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	1130	„	1012.8	952·4	..	27·9	16·1	5·5	9·0	23	..	0·7	..	3·3	0	0	21	6	7	1	1	0	3	0	3	8	0
	1730	„	1009.1	949·0	..	29·3	17·1	7·8	10·5	26	..	0·9	..	3·9	0	0	24	3	10	5	1	1	2	0	2	5	0
	2330	„	1013.7	951.3	..	19·0	13·8	9·6	12·6	55	..	0·1	..	1·0	0	0	6	0	0	1	2	0	2	1	0	23	0
Gujarat																											
Deesa	0830	136	1015.2	999.2	+0.1	16.4	10.0	1·9	7·0	39	..	0·5	..	3·8	0	0	27	5	14	5	0	0	1	1	1	2	0
	1030	„	1011.1	993.9	..	32.2	16·6	0·2	6·2	13	..	0.6	..	5·2	0	0	28	8	2	0	2	3	4	3	6	1	0
Radhanpur	0830	30	1015.1	1011.5	..	16.9	13·5	10·0	12·3	66	..	0·6	..	4·3	0	0	26	12	5	4	0	1	0	3	1	3	0
	1730	„	1012.3	1009.0	..	31.6	22·9	17·5	20·0	47	..	0·5	..	3·4	0	0	29	14	0	8	0	0	0	6	1	0	0
Idar	0830	219	1014.7	989.6	..	22·6	12·4	−0·4	5·8	23	..	0·3	..	5·4	0	0	19	2	9	7	1	0	0	0	0	10	0
	1730	„	1010.5	986.3	..	31.8	16·5	0·5	6·3	14	..	0·4	..	3·8	0	0	22	1	0	1	1	1	4	13	1	7	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat—(*Contd.*)																											
Ahmedabad	0230	55	1012·8	1006·3	..	18·2	11·9	5·3	8·9	43	..	0·3	..	9·8	0	0	29	9	10	2	0	0	0	1	7	0	0
	0530	,,	1012·8	1006·3	..	15·7	11·0	5·9	9·3	52	..	0·2	..	9·5	0	0	29	7	13	2	0	0	0	0	7	0	0
	0830	,,	1014·8	1008·3	−0·3	18·2	11·9	5·1	8·9	43	−13	0·3	−0·9	9·7	0	0	28	4	10	10	0	0	0	0	4	1	0
	1130	,,	1015·2	1008·9	..	28·9	16·5	4·5	8·7	22	..	0·3	..	16·3	0	7	22	3	3	16	4	0	1	0	2	0	0
	1730	,,	1011·0	1004·8	..	32·8	17·6	3·3	7·7	16	..	0·4	..	13·1	0	3	26	6	4	5	1	0	0	5	8	0	0
	2330	,,	1013·3	1006·9	..	20·6	13·4	6·2	9·6	40	..	0·3	..	9·9	0	0	29	17	3	1	0	0	2	0	6	0	0
Dohad	0830	333	1015·2	976·8	..	18·1	11·9	5·5	9·0	44	−12	(c) 0·1	−1·4	(c) 5·2	0	0	24	0	6	8	6	3	1	0	0	4	0
	1730	,,	1010·1	973·5	..	31·4	17·2	3·8	8·0	18	..	0·1	..	10·3	0	2	25	4	4	1	2	1	4	6	2	2	3
Baroda	0530	34	1012·5	1008·4	..	15·1	11·8	8·5	11·1	66	..	0·1	..	1·4	0	0	14	0	10	1	1	1	0	1	0	15	0
	0830	,,	1014·6	1010·5	..	16·9	12·4	7·8	10·6	55	−3	0·1	−1·0	1·4	0	0	12	0	10	1	1	0	0	0	0	17	0
	1130	,,	1014·9	1010·9	..	30·7	17·8	6·5	9·7	23	..	0·3	..	3·4	0	0	23	0	6	8	3	2	2	0	2	6	0
	1730	,,	1010·7	1006·8	..	33·6	19·7	8·8	11·3	22	..	0·1	..	2·8	0	0	24	3	11	0	0	0	3	2	5	5	0
	2330	,,	1013·2	1009·1	..	20·1	14·5	9·5	11·9	51	..	0	..	2·6	0	0	23	3	10	0	0	0	3	2	5	6	0
Baroda (Aerodrome)	0830	38	1014·4	1010·0	..	18·4	12·1	5·5	9·0	43	..	0·2	..	5·5	0	0	25	11	6	2	2	2	1	0	1	4	0
	1130	,,	1014·6	1010·4	..	30·6	17·1	4·2	8·2	20	..	0·3	..	11·8	0	4	24	4	7	8	3	2	2	0	2	1	0
	1730	,,	1010·4	1006·2	..	33·4	18·0	3·7	8·0	16	..	0·2	..	7·2	0	0	27	11	0	0	0	0	5	1	10	2	0
Broach	0830	17	1013·8	1011·7	..	17·5	12·4	7·3	10·2	52	..	0·2	..	5·1	0	0	29	1	13	2	4	3	2	0	4	0	0
	1730	,,	1009·7	1007·8	..	35·0	19·2	5·9	9·3	17	..	0·3	..	8·1	0	0	29	4	9	1	6	1	3	1	4	0	0
Surat	0530	12	1012·2	1010·8	..	18·3	13·8	9·4	11·8	58	..	0·1	..	6·7	0	0	27	3	9	2	3	2	1	1	6	2	0
	0830	,,	1014·2	1012·8	−0·2	19·5	14·1	9·2	11·6	50	−10	0·2	−0·8	4·6	0	0	26	15	5	1	1	2	0	1	1	3	0
	1130	,,	1014.5	1013·1	..	30·2	18·6	9·2	11·6	29	..	0·3	..	7·9	0	0	28	3	13	5	0	0	0	2	5	1	0
	1730	,,	1010·4	1009·1	..	32.3	19·7	10·1	12·3	27	..	0·2	..	6·1	0	0	28	2	3	0	0	0	2	6	15	1	0
	2330	,,	1012·9	1011·5	..	22·4	16·2	10·9	13·0	50	..	0	..	6·2	0	0	29	10	7	0	0	0	1	1	10	0	0
Saurashtra and Kutch																											
Naliya	0830	..	..	..	..	13·9	11·0	7·7	10·5	69	..	0·6	..	6·3	0	0	28	6	13	4	1	0	0	1	1	3	0
	1730	..	..	..	..	29·7	17·2	4·4	8·4	24	..	0·4	..	19·8	0	13	16	9	1	0	0	1	4	9	5	0	0
Bhuj (Aerodrome)	0230	80	1014·1	1004·6	..	15·3	11·0	6·3	9·5	56	..	0·1	..	2·3	0	0	7	1	1	0	0	1	3	1	0	22	0
	0530	,,	1014·0	1004·4	..	12·7	10·0	6·7	9·8	68	..	0·2	..	1·5	0	0	6	1	0	0	0	0	2	1	2	23	0
	0830	,,	1015·6	1006·1	+0·6	16·2	12·2	8·0	10·7	61	+13	0·3	−0·9	2·4	0	0	10	1	1	0	0	1	6	1	0	19	0
	1130	,,	1016·0	1006·9	..	27·2	15·6	3·9	8·1	24	..	0·3	..	13·3	0	3	26	11	15	0	0	0	0	1	2	0	0
	1730	,,	1011·8	1002·8	..	30·9	15·9	−1·2	5·5	13	..	0·3	..	13·4	0	0	24	10	12	0	0	0	2	2	1	2	0
	2330	,,	1014·5	1005·0	..	17·8	12·2	6·0	9·0	47	..	0·1	..	2·1	0	0	6	1	1	0	0	0	0	4	0	23	0
Bhutakia Bhimasar	0830	47	1015·1	1009·5	..	18·9	14·9	11·4	13·5	64	..	0·1	..	14·5	0	6	23	12	5	0	0	0	1	2	9	0	0
	1730	,,	1011·8	1006·5	..	31·6	20·0	11·3	13·4	31	..	0·2	..	12·5	0	2	27	14	5	1	0	0	2	2	5	0	0
New Kandla	0830	14	1015·5	1013·8	..	18·6	13·8	9·1	11·5	56	..	0·4	..	12·9	0	2	26	7	0	2	1	0	1	2	15	1	2
	1730	,,	1012·4	1010·8	..	28·8	17·8	8·5	11·1	31	..	0·3	..	14·3	0	6	20	11	1	1	1	2	5	1	4	3	0
Mandvi	0830	9	1015·3	1014·2	..	18·0	14·1	10·8	12·9	62	..	0·9	..	15·1	0	5	23	14	3	0	0	0	1	3	6	1	0
	1730	,,	1012·6	1011·5	..	24·7	20·8	18·4	21·1	69	..	0·6	..	19·4	0	11	18	0	1	0	1	1	24	2	0	0	0
Dwarka	0830	11	1015·4	1014·1	+0·1	19·4	17·1	15·4	17·7	78	+7	0·6	−1·2	10·8	0	0	29	12	13	1	0	0	0	0	3	0	0
	1730	,,	1012·4	1011·1	..	25·1	19·9	16·3	19·0	60	..	0·3	..	16·7	0	3	26	10	1	0	0	0	0	1	17	0	0
Porbander	0830	7	1014·9	1014·1	..	18·2	13·4	9·0	11·5	55	..	(j) 0·1	..	(j) 11·3	0	0	21	8	2	0	0	0	0	0	11	0	0
	1730	,,	1011·5	1010·8	..	28·5	..	..	..	..	..	(f) 0·4	..	(f) 17·3	0	4	21	3	1	0	0	0	0	12	9	0	0
Porbander (Aerodrome)	0830	7	1014·7	1013·9	..	20·8	14·4	9·1	11·5	51	..	0·4	..	10·7	0	3	19	7	2	1	2	1	0	0	9	7	0
	1130	,,	1015·3	1014·5	..	29·2	16·2	5·7	9·1	25	..	0·2	..	18·2	0	12	14	5	12	4	0	1	0	1	3	3	0
	1730	,,	1011·4	1010·6	..	29·6	18·2	9·9	12·2	33	..	0·3	..	21·9	0	17	12	5	2	0	0	0	1	18	3	0	0
Jamnagar	0530	23	1013·4	1010·6	..	14·7	12·7	10·9	13·0	79	..	0·2	..	9·1	0	2	26	2	3	2	3	11	3	2	2		0
	0830	,,	1015·2	1012·5	−0·2	17·0	14.1	11·7	13·7	71	+15	0·6	−0·6	7·6	0	1	27	0	3	6	4	4	4	6	1	1	0
	1130	,,	1015·9	1013·3	..	26·0	18·5	13·0	15·0	46	..	0·4	..	18·6	0	11	18	9	14	2	0	0	0	3	1	0	0
	1730	,,	1011·8	1009·2	..	29·3	19·5	12·4	14·4	37	..	0·3	..	19·2	0	15	13	11	6	1	0	0	0	5	5	1	0
	2330	,,	1014·0	1011·4	..	19.7	17·4	15·7	17·8	79	..	0·2	..	10·5	0	1	28	5	3	1	0	0	5	10	5	0	0
Rajkot Aerodrome)	0830	138	1015·2	999·2	+0·3	18·3	12·3	5·3	8·9	46	−11	0·2	−1·4	4·9	0	1	18	5	6	1	2	0	0	2	3	10	0
	1130	,,	1015·2	999·6	..	28.7	15·9	2·5	7·3	21	..	0·1	..	19·0	0	10	19	9	14	1	0	0	0	1	4	0	0
	1730	,,	1010·8	995·6	..	32·4	16·8	−0·2	6·0	13	..	0·2	..	17·7	0	11	18	8	8	2	0	0	0	1	10	0	0
Surendranagar	0830	74	1015·0	1006·3	..	19·1	13·0	6·0	9·4	45	..	0·3	..	..	..	..	..	7	3	0	0	0	0	1	11	6	0
	1730	,,	1010·9	1002·6	..	32·9	16·9	2·2	7·2	14	..	0·1	..	..	..	..	..	2	7	1	0	0	0	1	12	6	0
Bhavnagar	0830	17	1015·0	1013.0	+0·1	18·8	12·5	6·1	9·4	44	−2	0·1	−1·2	2·6	0	0	24	3	0	0	0	0	0	9	12	5	0
	1730	,,	1010·9	1008·9	..	33·1	20·7	12·1	14·1	28	..	0·3	..	5·8	0	0	27	0	12	8	5	1	1	0	0	2	0

(f) Mean of 25 days.

(j) Mean of 21 days.

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—*Contd.*																											
Bhavnagar (Aerodrome).	0830	11	1014·6	1013·4	..	19·1	12·5	5·5	9·0	41	..	0.2	..	10·1	0	1	24	6	0	0	0	0	1	2	16	4	0
	1130	„	1015·2	1014·0	..	26·9	17·3	9·3	11·7	34	..	0·1	..	12·5	0	1	27	15	12	1	0	0	0	0	0	1	0
	1730	„	1010·9	1009·7	..	32·1	19·3	9·3	11·7	26	..	0·2	..	13·9	0	2	26	2	12	9	5	0	0	0	0	1	0
Mahuva	0830	9	1013·7	1012·7	..	20·5	15·3	10.9	13·0	56	..	0	..	..	..	..	..	10	9	2	1	0	0	3	4	0	0
	1730	„	1010·7	1009·7	..	30·9	22·5	17.2	19·6	47	..	0.1	..	..	..	..	..	2	4	8	11	0	2	1	1	0	0
Keshod	0830	51	1015·0	1008·9	..	17·8	11·1	2 6	7·4	39	..	0·3	..	11·7	0	3	24	3	13	11	0	0	0	0	0	2	0
	1130	„	1015·2	1009.4	..	29·2	15·9	1·1	6 6	19	..	0 2	..	20.6	0	9	20	7	16	3	0	0	0	1	2	0	0
	1730	„	1011·2	1005·4	..	32·9	17·2	0·6	6·4	15	..	0 3	..	23·5	0	18	11	4	3	1	1	2	2	9	7	0	0
Veraval	0230	8	1012·5	1011·6	..	17 9	14 3	11·0	13·4	66	..	0·2	..	11·6	0	3	25	20	5	0	0	0	1	0	2	1	0
	0530	„	1012·1	1011·2	..	17·3	13·2	9·7	11·8	61	..	0·2	..	12·9	0	4	23	16	10	0	0	0	0	0	1	2	0
	0830	„	1014 1	1013·2	−0·6	19·5	14.5	9·9	12·5	56	0	0·3	−0·8	12·1	0	0	27	13	13	1	0	0	0	0	0	2	0
	1130	„	1014·7	1013·8	..	29·9	21·0	14·1	17·6	44	..	0·3	..	16·0	0	11	18	5	8	0	2	2	2	5	5	0	0
	1730	„	1011·1	1010·2	..	26·3	23·2	21·5	26·0	76	..	0·2	..	17·0	0	10	19	0	1	0	1	1	5	9	12	0	0
	2330	„	1013·4	1012·5	..	20·1	17·2	15·0	17·4	74	..	0·2	..	8·9	0	2	23	14	6	1	0	0	0	0	4	4	0
Konkan																											
Dahanu	0830	5	1013·0	1012·5	−0·3	21·3	16·3	12·4	14·4	58	−15	0·7	−0·3	6·4	0	0	27	2	5	13	7	0	0	0	0	2	0
	1730	„	1010·6	1010·1	..	27·0	22·8	20·7	24·4	68	..	0·4	..	15·4	0	2	27	10	0	0	0	0	0	4	9	0	0
Bombay (Colaba)	0830	11	1013·1	1011·9	−0 9	22·9	19·4	17·1	19·8	70	−1	0·6	−0·4	4·1	0	0	27	3	8	11	3	1	0	0	1	2	0
	1130	„	1013.6	1012.4	..	29·5	21·7	17·0	19·7	48	..	0.4	..	2·9	0	0	23	2	5	8	4	1	1	1	1	6	0
	1730	„	1010·0	1008·8	..	29·0	23 1	20.1	23 3	59	..	0·3	..	9.9	0	0	29	3	1	0	0	0	0	6	19	0	0
Bombay (Santacruz Aerodrome).	0230	15	1011 4	1009·7	..	20·6	16·8	13·9	15 9	66	..	0·2	..	1·9	0	0	10	3	3	3	0	0	0	0	1	19	0
	0530	„	1011·2	1009·5	..	19·8	16·2	13·3	15·3	68	..	0·1	..	2·7	0	0	13	4	5	3	1	0	0	0	0	16	0
	0830	„	1013·3	1011·6	−0.8	23·3	17·0	12 0	14·0	51	−11	0·4	−0·6	2·9	0	0	15	0	2	12	1	0	0	0	0	14	0
	1130	„	1013·6	1011·9	..	31·9	19.5	9·8	12·1	28	..	0·4	..	8·7	0	0	28	0	8	8	3	0	0	4	5	1	0
	1730	„	1010.0	1008·4	..	29·6	20·9	15·3	17·4	43	..	0·5	..	13·8	0	4	25	3	0	0	0	0	0	3	23	0	0
	2330	„	1012·5	1010 8	..	22.7	17·7	14·0	16·0	60	..	0	..	2·7	0	0	13	2	3	7	0	0	0	0	1	16	0
Alibag	0830	7	1013·0	1012 2	−0.6	22·5	17.5	13·7	15·7	59	−8	0·7	−0.3	4·2	0	0	26	2	11	13	0	0	0	0	0	3	0
Harnai	0830	20	1012.4	1010.1	−0·1	25·9	19·4	14·8	16.8	52	−11	1.3	..	4 9	0	0	19	5	6	4	2	1	0	0	1	10	0
	1730	„	1009·6	1007·3	..	28.7	24·4	22·2	26·7	69	..	1·4	..	18·6	0	11	18	3	0	0	0	1	2	5	18	0	0
Ratnagiri	0830	35	1012·8	1008·8	−0·4	23·0	18·3	14·8	16·8	62	..	0·9	..	..	..	..	..	0	0	29	0	0	0	0	0	0	0
	1730	„	1009 5	1005·6	..	30·2	23·1	20·8	24·6	56	..	1·0	..	..	..	..	..	0	0	0	0	0	4	19	6	0	0
Devgad	0830	36	1012 8	1008·7	−0·2	24·2	20·6	18·1	20·8	71	+1	0·8	−0·3	7 0	0	0	26	0	6	22	0	0	0	0	0	1	0
	1730	„	1009·2	1005·2	..	30·4	25·0	22·5	27·3	64	..	1·1	..	18·1	0	9	20	0	0	0	0	0	1	14	14	0	0
Vengurla	0230	9	1010·8	1009·8	..	21·5	19·7	18·5	21 3	84	..	0·3	..	0·8	0	0	7	7	0	0	0	0	0	0	0	22	0
	0530	„	1010·8	1009·8	..	20·1	18·5	17·5	20·0	86	..	0·4	..	2 6	0	0	18	15	1	0	0	0	0	1	1	11	0
	0830	„	1013·3	1012·3	..	21·5	19 0	17.2	19·6	78	..	1·7	..	2·0	0	0	15	10	2	3	0	0	0	0	0	14	0
	1130	„	1013·4	1012·4	..	32·1	21·2	13·5	15·5	36	..	1·2	..	7·8	0	0	29	0	1	2	19	4	9	3	0	0	0
	1730	„	1009·4	1008·4	..	30·0	23·9	20·7	24·4	58	..	1·3	.	6·7	0	0	29	1	0	0	0	1	12	14	1	0	0
	2330	„	1012·1	1011·1	..	23·3	21·0	19·7	22·9	81	..	0·4	..	2·8	0	0	19	13	3	0	0	0	0	1	2	10	0
Maharashtra (Including Marathwada)																											
Nandurbar	0830	206	1015·2	991·5	..	22·7	15·4	8·8	11·3	43	..	0	..	3·4	0	0	29	0	0	24	0	2	0	3	0	0	0
	1730	„	1010·0	987·3	..	33·8	21·7	13·3	15·3	31	..	0	..	3·3	0	0	29	5	0	12	0	0	0	12	0	0	0
Jalgaon	0830	201	1015·3	991·9	..	18·1	11·2	3·3	7·7	38	..	0·6	..	9·0	0	0	28	0	2	16	7	0	2	1	0	1	0
	1730	„	1009·6	987.5	..	34·0	17·6	1·0	6·6	13	..	0·3	..	9·7	0	0	27	2	2	7	3	2	2	5	4	2	0
Malegaon	0830	437	1015·4	965·1	+0·1	16·8	10·1	1·6	6·9	36	−9	0·6	−0·5	2·5	0	0	22	0	0	0	0	0	0	15	7	7	0
	1730	„	1008·6	961·1	..	33·3	17·0	−0·1	6·1	12	..	0·6	..	4·8	0	0	27	8	5	5	0	1	3	2	3	2	0
Deolali	0830	571	1016·1	951·1	..	1 ·6	13·0	9·1	11·5	58	..	0·8	..	3.0	0	0	18	13	0	1	0	0	3	1	0	11	0
	1730	„	1009·2	947·5	..	32·2	19·2	10·1	12 3	27	..	0·7	..	8·1	0	2	23	5	4	4	0	1	4	3	4	4	0
Aurangabad	0830	581	1015·1	950·1	+0·6	22·6	13·7	5·7	9·1	35	−4	0·1	−1·0	8·4	0	0	23	1	2	14	2	0	1	3	0	6	0
	1730	„	1008·7	946·1	..	31·8	17·3	5·0	8·7	19	..	0·8	..	4·1	0	0	24	2	2	5	5	2	2	6	0	5	0
Aurangabad (Chikalthana Aerodrome)	0230	579	1013·4	947·3	..	16·1	10·3	4·1	8·2	46	..	0·2	..	0·8	0	0	3	0	0	0	0	0	1	1	1	26	0
	0530	„	1014·1	947·4	..	13·8	8·8	3·1	7·6	50	..	0·4	..	1·3	0	0	4	0	0	1	1	0	0	1	1	25	0
	0830	„	1014·9	949·7	..	20·5	12·9	5·8	9·2	39	..	0·5	..	0·6	0	0	4	0	0	0	2	0	0	2	0	25	0
	1130	„	1013·2	949 8	..	29·3	17·7	9·2	11·6	29	..	0·6	..	11·8	0	0	29	0	0	5	14	4	4	2	0	0	0
	1730	„	1008·4	945·8	..	31·6	18·2	8·1	10·8	24	..	0·7	..	5·6	0	1	16	0	0	6	3	2	1	5	0	12	0
	2330	„	1013·7	948·0	..	18·3	11·3	4·8	8·6	41	..	0·2	..	2 9	0	0	10	0	3	1	0	0	1	3	2	19	0
Ahmednagar	0330	657	1015·4	941·2	+0·5	18·7	11·3	3·7	8·0	37	−3	0·6	−0·2	2·2	0	0	18	2	2	0	6	2	1	0	5	11	0
	1730	„	1008·1	937·8	..	32·4	16·9	3·3	7·7	16	..	0·7	..	4·3	0	1	15	2	8	1	1	0	1	2	1	13	0
Parbhani	0830	423	1015·6	967·4	..	20.4	12·2	2·9	7·5	32	..	0 6	..	4·7	0	0	28	5	8	2	1	1	3	5	3	1	0
	1730	„	1009·4	963·3	..	32·5	16·9	0·7	6·4	14	..	0·8	..	7·2	0	0	29	4	10	4	6	0	0	2	3	0	

Division and station	Hour of observation I.S.T.	Station elevation metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Maharashtra (Including Marathwada)—Contd.																											
Nanded	0830	358	1015·2	974·2	..	20·8	13·5	6·4	9·6	40	..	0	..	1.2	0	0	10	1	3	1	1	1	1	2	0	19	0
	1730	,,	1009·6	970·5	..	33·1	18·0	4·1	8·2	17	..	0	..	4.4	0	0	23	2	6	5	3	3	0	2	2	6	0
Poona	0530	559	1013·3	949·4	..	15·9	12·5	9·6	11·9	66	..	0.1	..	0·3	0	0	2	1	0	0	0	0	1	0	0	27	0
	0830	,,	1015·1	951·6	+0.3	18·3	13·6	9·7	12·2	58	—3	0.6	—0.2	0.6	0	0	6	0	0	1	3	0	1	1	0	23	0
	1130	,,	1012·6	951·5	..	29·4	17·3	8·2	10·8	27	..	0.4	..	3·6	0	0	21	6	3	5	5	0	0	0	2	8	0
	1730	,,	1007 5	947·3	..	32·5	18·6	8·4	11·3	23	..	0.7	..	3·9	0	0	18	2	6	0	0	0	2	5	3	11	0
	2330	,	1013·0	950 2	..	21·0	15·1	10·6	12·8	52	..	0.2	..	0·4	0	0	3	0	0	0	0	1	1	1	0	26	0
Poona (Lohagon Aerodrome)	0230	593	1012·6	945·8	..	19·7	13·3	7·7	10·5	47	..	0·1	..	2·1	0	0	11	1	0	2	0	0	0	3	5	18	0
	0530	,,	1013·0	945·7	..	17 6	12·5	8·1	10 8	54	..	0·3		2 2	0	0	12	1	0	2	0	0	1	3	5	17	0
	0830	,,	1014·9	947.9	..	19 5	13 6	8·5	11 1	50	..	0·9	.	2·6	0	0	14	1	0	4	2	0	0	5	2	15	0
	1130	,,	1012·9	948·1	..	29·2	16·9	7·6	10 4	26		0·7	..	10·8	0	2	25	0	0	6	17	2	0	2	0	2	0
	1730	,,	1008·0	944 0	..	32·0	17·5	5·9	9·3	20	..	0·8	..	8 7	0	3	22	1	2	7	5	1	1	3	5	4	0
	2330	,,	1012 9	946·6	..	22·3	14·5	7·8	10·6	40	.	0·2	.	4·3	0	0	19	2	0	3	0	0	0	6	8	10	0
Baramai	0830	551	1015 2	952·8	..	18·7	12 6	7·2	10·1	48		0·4	.	4 5	0	0	26	3	3	3	2	4	1	3	7	3	0
	1730	,,	1007 8	948·5	..	32·6	18·7	8·7	11.2	23	.	0·8	.	10·8	0	2	26	0	2	9	7	4	1	2	3	1	0
Jeur	0830	521	1014·6	955·9	..	20·9	15·9	12·2	14·2	58	..	0·4	..	2.4	..	0	16	5	5	0	1	5	0	0	0	13	0
	1730	,,	1007·9	951·7	..	32·5	25·0	21·6	25·8	54	..	0·9	..	8·2	..	0	27	1	5	11	2	5	1	1	2	1	0
Sholapur	0530	479	1013·0	958·5	..	18·7	11·7	4·7	8·5	41	..	0·2	..	2·6	0	0	11	0	0	2	7	1	1	0	0	18	0
	0830	..	1014·7	960·9	+0·9	23·2	13.7	5·9	9·3	33	—7	0·3	—0.6	6·1	0	0	20	0	8	0	11	0	1	0	0	9	0
	1130	,,	1013·4	960 8	..	30·0	17 7	8·0	10·7	27	..	0·8	..	6·0	0	0	24	0	2	0	16	7	1	0	0	3	0
	1730	,,	1008·1	956.4	..	33·1	18·3	6·6	9·7	20	..	1·1	..	6·7	0	2	22	2	11	3	5	0	1	0	0	7	0
	2330	,	1012 7	658·7	..	24·5	13·8	3·3	7·7	25	..	0·2	.	8.1	0	0	23	2	3	5	10	3	1	0	0	5	0
Miraj	0830	554	1014·3	951·9	+0 1	20·4	15·0	10.7	12·9	55	—3	0·8	—0·1	..	0	1	..	0	0	2	0	0	1	0	0	27	0
	1730	,,	1006·9	947·5	..	32·8	21·6	15·5	17·6	35	..	1·7	..	..	..	..	..	2	3	12	3	0	0	0	2	7	0
Kolhapur	0530	570	1012·6	947·9	..	17.3	13·0	9.3	11·7	62	..	0·7	..	3·8	0	0	21	0	3	4	3	2	6	3	0	8	0
	0830	,,	1014·3	950·3	+0.6	20·5	14·3	8·7	11·2	47	—12	0 8	..	3·4	0	0	18	0	9	6	0	0	1	0	1	11	0
	1130	,,	1012 2	950·3	..	30·1	17·3	7·2	10·1	24	..	1·2	.	13·4	0	2	27	0	3	8	14	1	1	0	2	0	0
	1720	,,	1007·0	945·5	..	32·7	17·6	5·2	8·8	19	..	1 3	..	12·1	0	2	27	0	12	12	0	0	1	3	1	0	0
	2330	,,	1012·2	948 7	..	22·6	16.0	10·7	12·9	50	..	0·8	..	6·6	0	0	28	0	1	2	2	1	6	15	1	1	0
Vidarbha Buldhana	0830	650	1014·2	941·6	..	21·8	12·4	2·7	7·5	30	..	0·5	..	2·6	0	0	22	0	10	0	5	0	1	0	6	7	0
	1730	,,	1008·7	938·5	..	30·6	15·7	1·1	7·0	16	..	0·2	..	2·6	0	0	23	0	18	0	2	0	0	0	3	6	0
Akola	0830	282	1015·2	982·5	+0 5	18·5	11·7	4·1	8·5	40	—4	0·6	—0.8	0·6	0	0	5	2	1	1	0	1	0	0	0	24	0
	1130	,,	1014 0	982·6	..	29·4	16·3	3·5	7·9	20	..	0·3	.	1·9	0	0	14	0	2	5	2	2	1	1	1	15	0
	1730	,,	1009·4	978·5	..	32·2	17·5	2·0	7·3	14	..	0·6	.	1·7	0	0	15	8	0	1	0	0	0	5	1	14	0
Akola (Aerodrome)	0530	309	1012·7	976·8	..	16·7	10·8	4·0	8·3	44	..	0·2	..	3·2		0	23	1	2	13	4	1	0	2	0	6	0
	2330	,,	1012 1	977·1	..	23·3	13·3	3·9	8·2	29	..	0	..	2·9	0	0	24	0	2	10	8	2	1	1	0	5	0
Amravati	0830	370	1015·0	973·1	+0·8	22·7	14·8	7·5	10·5	39	—4	0·5	—0.9	8 0	0	1	26	1	13	8	0	1	2	0	2	2	0
	1730	,,	1009·4	969·0	..	32·1	18·9	8·3	11·3	24	..	0·7	..	10.5	0	0	29	1	2	4	10	1	7	2	2	0	0
Yeotmal	0830	451	1014·2	963.4	..	23·1	14·1	4·2	9·0	32	..	0·7	..	3·1	0	0	20	1	3	8	1	1	2	2	2	9	0
	1730	,,	1009.1	959·8	..	31·1	16·1	—0·7	6·2	14	..	0 8	..	3·4	0	0	20	5	3	5	1	0	2	1	3	9	0
Nagpur	0230	310	1012·8	976 9	..	17·4	12·7	8·0	10·9	55	..	0 1	..	3·1	0	0	23	9	2	0	0	0	0	2	10	6	0
	0530	,,	1013·4	977·3	..	15·3	11·7	8·1	10·9	63	..	0·2	..	2·8	0	0	21	8	0	1	0	0	0	0	12	8	0
	0830	,,	1015·4	979·7	+0·5	19·7	13·9	8 6	11·2	49	—3	0·7	—1·1	2·9	0	0	21	8	4	2	0	1	0	0	7	8	0
	1130	,,	1014·3	979·7	..	29·1	17·3	7·3	10·1	26	..	0·4	..	6·1	0	0	27	1	10	9	3	0	2	0	1	2	0
	1730	,,	1009·9	975·7		30·8	17·8	6·6	9·7	23	..	0·8	..	3.1	0	0	16	3	4	3	2	0	1	0	3	13	0
	2330	,,	1013·3	977·6		19·7	13·7	8·0	10·7	48	..	0·2	..	4.0	0	0	22	11	3	1	1	0	2	0	4	7	0
Gondia	0830	313	1015·6	979·5		19·0	14·1	9 8	12·1	56	..	1·0	..	1·0	0	0	9	0	2	0	2	1	2	0	0	20	2
	1730	,,	1010·3	975·7		30·4	17·1	5·1	9·3	21	..	0·4	..	3.5	0	0	22	2	1	0	0	0	6	0	9	7	4
Brahmapuri	0830	229	1015·1	988·6		19·0	14·6	11·1	13·0	61	..	0·6	..	3 0	0	0	17	5	2	1	3	1	1	1	3	12	0
	1730	,,	1010·5	985·1	..	31·4	17·1	3·7	7·8	18	..	0·5	..	1·6	0	0	13	2	4	2	2	1	0	1	1	16	0
Chanda	0830	193	1015·1	992·8	+0.5	20·6	14·6	9·4	12·2	49	—8	0·6	—0.8	3·2	0	0	21	4	2	6	6	0	1	0	2	8	0
	1730	,,	1009·8	988·4	..	31·8	18·1	6·2	9·7	21	..	0·4	..	4.5	0	0	27	5	8	9	3	0	0	1	1	2	0
Sironch	0830	123	1015·6	1001·2		21·0	16.2	12·5	14·4	59	..	0·7	..	2 0	0	0	15	1	1	5	7	1	0	0	0	14	0
	1730	,,	1010·1	996·4		33·0	19·6	9·1	11·8	24	..	0·7	..	4·4	0	0	25	2	4	7	7	0	2	1	2	4	0
Costal Andhra Pradesh— Nellore	0530	20	1012·3	1010·0	..	20·4	19 7	19·4	22·5	94	..	1·4	..	0·3	0	0	4	1	1	1	0	0	0	0	1	25	0
	0830	,,	1014·8	1012·5	+0.6	23·1	21·2	20·1	23·5	83	+2	2·5	+0.1	3·2	0	0	27	2	1	1	3	1	2	6	11	2	0
	1130	,,	1014·4	1012·2	..	29·4	22·1	17·9	20·5	51	..	2·5	..	6.8	0	0	29	1	15	6	5	1	0	1	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity in miles per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—*contd.* Nellore—*contd.*	1730	20	1011·1	1008·9	..	28·5	21·9	18·1	20·8	54	..	1·9	..	6·3	0	0	29	0	9	14	6	0	0	0	0	0	0
	2330	..	1013·4	1011·2	..	22·6	21·2	20·4	21·8	88	..	0·6	..	0·7	0	0	6	0	0	2	2	1	1	0	0	23	0
Ongole	0830	12	1014·5	1013·2	..	23·4	21·0	19·5	22·7	79	..	3·9	..	3·1	0	0	28	2	8	1	8	0	2	2	5	1	0
	1730	,,	1010·7	1009·4	..	28·5	23·8	21·4	25·5	67	..	3·7	..	5·0	0	0	29	0	3	1	24	1	0	0	0	0	0
Rentachintala	0830	106	1015·1	1002·9	..	24·3	18·8	14·7	16·7	58	−12	1·6	−0·3	0·9	0	0	8	1	0	2	4	0	0	1	0	21	0
	1730	,,	1009·8	998·1	..	33·4	19·4	8·4	11·0	22	..	1·8	..	3·9	0	0	29	2	10	16	0	1	0	0	0	0	0
Gannavaram	0230	24	1012·8	1010·0	..	20·6	19·4	18·7	21·6	89	..	0·8	..	1·1	0	0	9	3	0	3	2	0	0	0	1	20	0
	0530	,,	1013·1	1010·3	..	20·0	19·3	18·8	21·7	93	..	1·2	..	2·2	0	0	11	3	2	4	1	1	0	0	0	18	0
	0830	,,	1015·4	1012·6	..	23·5	21·3	20·0	23·4	82	..	3·1	..	4·1	0	0	19	3	5	7	2	1	0	0	1	10	0
	1130	,,	1014·8	1012·1	..	29·9	22·1	17·5	20·0	48	..	1·8	..	10·0	0	1	27	1	1	9	11	3	2	1	0	1	0
	1730	,,	1011·1	1008·4	..	30·9	21·8	16·2	18·4	42	..	1·4	..	12·1	0	2	27	0	1	2	24	1	1	0	0	0	0
	2330	,,	1013·9	1011·1	..	22·2	19·9	18·6	21·4	81	..	0·7	..	1·9	0	0	12	0	0	3	8	1	0	0	0	17	0
Masulipatnam	0830	3	1015·6	1014·6	+0·3	22·5	21·2	20·5	24·1	89	+8	2·2	+0·1	5·3	0	1	28	17	7	0	1	3	0	0	1	0	0
	1730	,,	1012·2	1010·9	..	27·1	22·4	19·9	23·2	65	..	1·1	..	9·5	0	0	29	0	0	0	14	15	0	0	0	0	0
Nidadavolu	0830	12	1015·1	1013·7	..	22·7	18·8	16·2	18·4	68	..	2·8	..	6·8	0	0	28	12	7	2	1	0	0	3	3	1	0
	1730	,,	1010·8	1009·4	..	30·7	20·9	14·5	16·5	39	..	2·6	..	10·8	0	0	28	0	0	8	12	7	1	0	0	1	0
Kakuinadada	0830	8	1015·5	1014·6	+0·8	24·9	20·3	17·3	19·7	63	−12	1·4	..	7·2	0	0	29	4	18	0	3	0	0	0	4	0	0
	1730	,,	1011·5	1010·6	..	27·8	22·0	13·9	21·3	58	..	0·9	−1·2	10·4	0	0	29	0	2	1	26	0	0	0	0	0	0
Visakhapatnam	0230	3	1012·7	1012·3	..	19·1	17·7	16·7	19·0	86	..	0·5	..	0·3	0	0	3	0	0	0	0	1	0	1	1	26	0
	0530	,,	1013·0	1012·6	..	17·7	16·6	15·7	17·8	88	..	0·6	..	0·2	0	0	2	0	0	0	0	0	0	1	0	27	1
	0830	,,	1015·3	1014·9	+0·6	24·0	19·2	16·1	18·3	63	−14	1·3	+1·2	1·5	0	0	8	0	0	2	1	0	2	1	1	21	1
	1130	,,	1014·5	1014·1	..	30·9	21·4	15·1	17·1	41	..	1·4	..	9·7	0	4	24	0	1	11	9	1	3	0	1	1	2
	1730	,,	1011·6	1011·2	..	27·5	20·9	16·7	19·0	54	..	1·1	..	11·1	0	0	29	0	0	14	8	1	6	0	0	0	0
	2330	,,	1013·8	1013·4	..	21·4	19·3	18·0	20·6	81	..	0·8	..	0·8	0	0	4	0	1	0	0	0	1	0	1	25	1
Calingapalam	0830	6	1015·2	1014·5	+0.4	20·8	18·8	17·6	20·1	82	+3	0·4	−1·4	3·5	0	0	29	1	4	1	1	0	0	10	12	0	0
	1730	,,	1011·9	1011·2	..	27·9	24·1	22·3	26·9	72	..	0·7	..	10·2	0	0	29	0	1	6	6	15	1	0	0	0	0
Telangana Ramagundam	0830	156	1015·6	996·6	..	21·1	15.5	11·0	13·1	53	..	0·7	..	1.8	0	0	15	8	0	0	4	0	0	1	2	14	0
	1730	,,	1009·4	992·1	..	33·4	18·9	6·8	9·9	20	..	1·1	..	4·0	0	0	25	3	11	4	3	1	1	2	0	4	0
Nizamabad*	0830	381	1014·2	971·4	−0·5	25·1	16·2	8·6	11·2	36	−18	0.1	−1·1	1·0	0	0	9	1	2	4	1	0	1	0	0	20	0
	1730	,,	1009·4	967·7	..	31·3	18·6	6·8	9·9	21	..	0·7	..	1·0	0	0	10	1	7	0	1	1	0	0	0	19	0
Mahbubnagar	0830	505	1014·1	957·7	..	23·9	15·6	9·0	11·5	41	..	1.2	..	4·9	0	0	23	2	9	8	2	0	0	1	1	6	0
	1730	,,	1008·8	953·2	..	30·9	16·4	3·5	7.9	19	..	1.7	..	5·6	0	0	28	0	3	18	4	0	1	1	1	1	0
Hyderabad (Begumpet Aerodrome)	0230	545	1013·0	951·3	..	13·2	13·7	10·1	12·3	60	..	0·7	..	1·3	0	0	9	2	2	1	3	1	0	0	0	20	0
	0530	,,	1013·7	951·9	..	16·2	13·0	20·1	12·5	69	..	0·6	..	1.8	0	0	10	3	0	2	3	1	0	0	1	19	0
	0830	,,	1015·0	953·7	+1·0	21·2	15·1	10·3	12·5	52	−14	1·3	−1·5	2·8	0	0	14	0	2	2	8	0	1	0	1	15	0
	1130	,,	1013·3	953·7	..	29·1	16·6	6·0	9·3	26	..	1.2	..	9·5	0	0	28	1	1	3	18	4	0	1	0	1	0
	1730	,,	1009·2	950·1	..	30·1	16·5	4·8	8·6	21	..	1·4	..	9·0	0	0	28	0	2	13	10	1	1	0	1	1	0
	2330	,,	1013·3	952·2	..	21·4	14·6	9·0	11·5	47	..	0·8	..	4·1	0	0	18	0	4	5	8	1	0	0	0	11	0
Hakimpet	0530	613	1013.1	944·3	..	19·6	14·5	10·4	12.6	57	..	0·5	..	4·2	0	0	23	0	1	10	8	3	0	1	0	6	0
	0830	,,	1014·0	945·7	..	23·0	16·1	10·9	13·0	49	..	1·5	..	6·0	0	0	29	1	2	6	13	5	0	2	0	0	0
	1130	,,	1012·9	946·0	..	28·5	17·8	10·1	12·3	33	..	1·3	..	11.7	0	3	26	1	2	8	15	2	1	0	0	0	0
	1730	,,	1009·5	943·0	..	29·4	17·9	9·7	12·0	30	..	1·4	..	7·9	0	0	29	1	2	13	12	0	0	1	0	0	0
Hanamkonda	0830	269	1014·8	934·3	+0·3	23·4	17·7	13·4	15·4	55	−15	0·5	−2·0	3·4	0	0	21	0	0	0	6	13	2	0	0	8	0
	1730	,,	1010·2	980·6	..	31·9	18·5	7·2	10·1	22	..	0·1	..	3·0	0	0	23	4	5	1	4	5	0	3	1	6	0
Bhadrachallam	0830	111	1015·7	1002·9	..	22·6	18·2	15·1	17·1	64	..	1·3	..	2·4	0	0	20	1	10	2	7	0	0	0	0	9	0
	1730	,,	1010·7	997·5	..	32·7	19·3	8·9	11·4	24	..	1·1	..	2·9	0	0	24	1	14	3	6	0	0	0	0	5	0
Khammameth	0830	112	1015·1	1002·3	..	23·7	20·0	17·7	20·2	70	..	1·4	..	2·1	0	0	14	0	0	8	5	1	0	0	0	15	0
	1730	,,	1009·8	997·4	..	33·0	20·3	11·1	13·2	27	..	1·6	..	3·2	0	0	17	0	1	11	3	2	0	0	0	12	0
Rayalaseema Aregyavaram	0830	701	1014·7	936·3	..	19·8	16·0	13·5	15·5	68	..	2·3	..	0·9	0	0	7	0	0	1	0	5	0	1	0	22	0
	1730	,,	1008·4	932·8	..	28·7	19·4	13·6	15·6	40	..	2·4	..	6·6	0	0	26	0	8	14	3	0	0	0	1	3	0
Cuddaphah	0830	130	1015·0	1000·2	+1·1	26·6	21·4	18·4	21·1	62	−2	1·1	+0·3	1·1	0	0	5	0	0	5	0	0	0	0	0	24	0
	1730	,,	1009·7	995·2	..	32·1	23·5	18·8	21·7	46	..	1·4	..	8·7	0	0	25	0	0	25	0	0	0	0	0	4	0
Anantapur	0530	350	1012·2	972·0	..	18·3	13·2	8·5	11·1	53	..	1·0	..	0·6	0	0	5	0	0	3	2	0	0	0	0	24	0
	0830	,,	1014·1	974·4	..	22·5	15·2	8·6	11·2	42	..	1·3	..	2·6	0	0	10	0	0	5	1	2	1	1	0	19	0
	1130	,,	1012·7	974·1	..	30·0	17·2	5·0	8·7	22	..	1·3	..	12·8	0	2	26	0	5	16	6	0	0	0	1	1	0
	1730	,,	1008·0	969·7	..	32·1	17·2	2·4	7·3	17	..	1·7	..	14·8	0	6	23	0	8	20	0	0	0	1	0	0	0
	2330	,,	1011·9	72·6	..	25·0	15·8	7·3	10·2	34	..	1·0	.	13·9	0	2	27	0	0	22	5	1	1	0	0	0	0

*Data obtained from Weather Daily Telegrams.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in Millibars: At station level	Mean pressure in Millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity, miles per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rayalaseema—*contd.*																											
Kurnool	0830	281	1014·8	982·7	+0·9	21·6	15·8	10·9	13·0	51	−8	1·4	+0·3	1·1	0	0	10	0	0	9	1	0	0	0	0	19	0
	1730	,,	1008·4	977·7	..	33·6	19·3	7·9	10·7	21	..	1·4	..	6·5	0	0	25	0	0	12	12	1	0	0	0	4	0
Mardas State Palayamacottai	0830	51	1013·9	1008·2	..	24·9	21·8	20·2	23·7	16	..	6·1	..	8·6	0	0	29	17	1	0	0	1	0	0	10	0	0
	1730	,,	1009·2	1003·5	..	29·1	22·8	19·4	22·5	58	..	5·1	..	9·7	0	1	28	1	7	17	1	1	0	2	0	0	0
Tuticorin	0830	4	1013·9	1013·4	..	25·1	22·2	20·6	24·3	79	..	5·3	..	14·2	0	2	27	15	9	1	0	0	1	0	3	0	0
	1730	,,	1009·8	1009·4	..	27·2	24·1	22·7	26·3	76	..	4·0	..	25·0	0	20	9	0	13	14	1	1	0	0	0	0	0
Pamban	0830	11	1013·2	1011·9	−0·2	25·9	23·4	22·2	26·7	80	+1	5·5	+2·9	12·6	0	3	25	8	15	3	0	0	0	0	2	1	0
	1730	,,	1009·8	1008·5	..	26·7	23·5	21·9	26·3	75	..	4·1	..	11·2	0	2	27	6	17	5	0	0	1	0	0	0	0
Tondi	0830	5	1013·6	1012·9	..	24·4	22·0	20·8	24·6	81	..	4·9	..	9·2	0	1	21	20	0	1	0	0	0	0	1	7	0
	1730	,,	1010·1	1009·5	..	27·1	23·9	22·4	27·1	76	.	5·0	..	24·0	0	20	9	0	20	7	1	1	0	0	0	0	0
Mathurai	0830	133	1013·9	998·6	−0·2	24·4	21·0	18·9	21·8	72	−4	5·9	+2·6	3·7	0	0	27	0	21	0	0	0	0	0	6	2	0
	1730	,,	1009·0	994·1	..	30·5	21·8	16·4	18·6	45	.	6·7	..	8·1	0	0	29	0	26	0	3	0	0	0	0	0	0
Mathurai (Aerodrome).	0530	131	1011·9	996·7	..	20·9	19·6	18·8	21·7	87	..	3·1	..	4·9	0	0	26	22	4	0	0	0	0	0	0	3	0
	0830	,,	1013·8	998·8	..	24·2	20·9	18·9	21·8	73	..	3·6	..	7·0	0	0	26	18	8	0	0	0	0	0	0	3	0
	1130	,,	1013·8	998·4	..	28·8	21·6	16·9	19·3	51	..	3·7	..	12·8	0	3	25	4	19	5	0	0	0	0	0	1	0
	1730	,,	1009·0	994·4	..	30·5	21·3	15·4	17·5	43	.	3·9	..	12·8	0	1	28	0	12	16	1	0	0	0	0	0	0
Nagapattinam	0830	9	1014·2	1013·1	+0·4	24·6	22·4	21·3	25·3	82	+5	4·8	+1·1	10·3	0	5	24	6	9	0	0	0	1	1	12	0	0
	1730	,,	1010·6	1009·5	..	27·0	23·4	21·6	25·8	72	..	4·3	..	19·9	0	10	19	6	21	0	2	0	0	0	0	0	0
Tiruchirapalli	0230	88	1011·6	1001·5	..	22·4	20·7	19·8	23·1	86	..	2·5	..	9·6	0	0	27	1	18	7	0	1	0	0	0	2	0
	0530	,,	1011·9	1001·8	..	21·4	20·2	19·5	22·7	89	..	2·7	..	8·4	0	0	25	3	15	6	0	1	0	0	0	4	0
	0830	,,	1014·2	1004·1	−0·2	23·9	20·9	19·2	22·2	15	−6	3·7	+1·4	10·2	0	1	23	6	15	2	0	1	0	0	0	5	0
	1130	,,	1013·4	1003·5	..	28·7	21·5	17·2	19·6	51	..	3·7	..	14·1	0	5	22	4	21	1	0	1	0	0	0	2	0
	1730	,,	1009·6	999·8	..	30·2	21·7	16·5	18·8	45	..	3·8	..	19·2	0	12	17	0	9	18	2	0	0	0	0	0	0
	2330	,,	1013·0	1002·9	..	23·3	21·2	20·1	23·5	83	..	2·2	..	11·5	0	0	28	0	12	14	1	1	0	0	0	1	0
Coimbatore	0830	409	1014·3	968·3	+0·3	22·8	18·9	15·7	17·8	64	−14	3·9	+0·5	18·3	0	0	29	0	7	14	8	0	0	0	0	0	0
	1730	,,	1008·1	963·5	..	30·9	19·7	11·4	13·5	31	..	3·6	..	11·1	0	0	29	0	6	14	8	0	1	0	0	0	0
Coimbatore (Peelamedu Aerodrome).	0530	400	1012·6	967·1	..	19·4	16·8	14·9	16·9	76	..	2·7	..	3·7	0	0	19	4	7	2	1	0	0	1	3	10	1
	0830	,,	1014·3	969·3	..	22·8	18·8	16·1	18·3	67	..	3·4	..	6·5	0	0	24	1	16	7	0	0	0	0	0	5	0
	1130	,,	1012·9	968·7	.	28·0	19·3	13·0	15·0	41	..	3·2	.	15·0	0	5	22	0	14	13	0	0	0	0	0	2	0
	1730	,,	1008·3	964·6	..	30·7	19·5	11·3	13·4	31	..	3·6	..	17·5	0	5	24	0	6	21	1	0	1	0	0	0	0
	2330	,,	1012·6	967·7	..	23·7	17·9	13·7	15·7	54		1·8	.	10·7	0	5	20	0	7	14	1	1	1	0	1	4	0
Salem	0530	278	1012·4	980·5	..	20·4	17·9	16·2	18·4	78	..	2·7	..	1·0	0	0	7	0	3	4	0	0	0	0	0	22	0
	0830	,,	1014·2	982·6	..	23·2	18·9	16·2	18·4	65	−9	2·4	+0·7	6·5	0	0	27	0	12	14	1	0	0	0	0	2	0
	1130	,,	1012·9	982·0	..	29·9	20·9	15·5	17·6	42	..	3·0	.	5·0	0	0	28	1	9	12	3	2	0	0	1	1	0
	173	,,	1008·3	977·7	..	31·7	21·7	15·4	17·5	38	..	3·5	..	8·2	0	0	28	0	1	23	3	1	0	0	0	1	0
	233	,,	1012·4	981·0	..	24·9	20·4	17·7	20·2	65		2·1	..	14·0	0	12	15	0	5	21	1	0	0	0	0	2	0
Kallakurichi	0830	127	1014·4	999·9	..	23·4	21·2	19·8	23·1	85		2·4	..	3·4	0	0	22	9	0	0	0	1	0	1	11	7	0
	1730	,,	1009·5	995·3	..	30·8	25·3	22·6	27·4	63	..	3·0	..	12·2	0	0	29	23	4	2	0	0	0	0	0	0	0
Cuddalore	0530	12	1011·6	1010·2	..	21·5	21·1	20·9	24·7	96	..	3·8	..	0·8	0	0	8	6	1	0	1	0	0	0	0	21	0
	0830	,,	1013·9	1012·6	−0·2	23·4	22·1	21·3	25·3	88	+4	3·3	+0·3	2·5	0	0	17	10	3	0	1	0	0	0	3	12	0
	1130	,,	1014·1	1012·7	..	27·8	23·7	21·6	25·8	69	..	3·5	..	6·0	0	0	28	3	23	0	2	0	0	0	0	1	0
	1730	,,	1010·5	1009·2	..	26·9	24·0	22·5	27·3	77	..	3·4	..	8·5	0	0	29	7	17	3	2	0	0	0	0	0	0
	2330	,,	1013·0	1011·6	..	24·9	22·9	21·9	26·3	84	..	2·3	..	2·6	0	0	17	2	13	0	2	0	0	0	0	12	0
Tirupattur	0830	390	1014·9	970·4	..	19·3	16·3	13·9	15·9	72	..	4·6	..	1·1	0	0	10	5	0	0	0	2	0	3	0	19	0
	1730	,,	1008·6	965·9	..	30·6	18·8	9·4	11·8	28	..	4·6	..	5·4	0	0	28	15	0	5	1	7	0	0	0	1	0
Vellore	0530	214	1013·0	988·1	..	18·3	17·0	16·1	18·3	87	..	2·2	..	0·6	0	0	6	0	6	0	0	0	0	0	0	23	0
	0830	,,	1014·9	990·2	0.5	21·3	18·1	15·9	18·1	73	−9	2·8	+0·4	0·1	0	0	1	0	0	0	0	0	0	1	0	28	0
	1130	,,	1013·8	989·8	..	28·7	19·3	12·5	14·5	38	.	2·3	..	5·3	0	0	27	10	11	5	0	1	0	0	0	2	0
	1730	,,	1009·3	985·6	..	30·5	19·4	11·1	13·2	32	..	2·6	..	6·9	0	0	29	0	20	6	0	3	0	0	0	0	0
	2330	,,	1013·2	988·9	..	24·7	19·2	15·5	17·6	57	..	1·6	..	6·1	0	0	27	1	22	2	1	1	0	0	0	2	0
Tambaram (Aerodrome)	0830	29	1014·0	1010·5	..	23·7	22·2	21·4	25·5	88	.	2·5	..	8·9	0	0	29	9	2	0	0	0	1	1	16	0	0
	1730	,,	1010.6	1007·3	..	27.4	22.7	20.1	23.5	64	.	2.5	..	19.4	0	10	19	0	8	16	4	1	0	0	0	0	0
Madras	0230	16	1012·2	1010·4	..	21·9	20.7	20·0	23·4	89	..	2·3	..	3·0	0	0	18	0	5	4	0	0	0	2	6	11	1
	0530	,,	1012·4	1010·6	..	21·2	20·3	19·8	23·1	92	..	2·1	..	4·3	0	0	25	3	3	2	0	0	1	8	8	4	0
	0830	,,	1014.7	1012·9	+0.5	23·5	21·6	20·6	24·3	84	+4	2·8	+0·6	8·7	0	0	29	8	2	0	0	1	0	5	13	0	0
	1130	,,	1014·4	1012·6	..	29·0	22·0	18·0	20·6	52	..	2·8	..	11·7	0	1	28	5	7	11	0	1	1	0	1	0	3
	1730	,,	1011.2	1009.5	..	27.4	22·1	19.2	22.2	61	..	2·7	..	17.1	0	7	22	1	13	12	2	0	0	0	0	0	1

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity miles per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*contd.*																											
Madras	2330	16	1013·5	1011·7	..	23·0	21·3	20·3	23·8	84	..	2·0	..	5·1	0	0	22	5	8	2	2	1	0	0	4	7	0
Madras (Nungambakkam)	0830	6	1014·5	1013·8	..	23·8	22·0	21·0	24·9	85	..	2·6	..	3·7	0	0	25	6	1	1	0	0	1	0	16	4	0
Coastal Mysore																											
Karwar	0830	4	1013·5	1013·0	+0.4	23.0	19·7	17·6	20·1	73	..	7·3	..	1·7	0	0	13	0	0	13	0	0	0	0	0	16	0
	1730	,,	1009·1	1008·6	..	29·6	25·0	22·7	27·6	67	..	6·9	..	5·7	0	0	21	0	0	0	0	0	1	6	14	8	0
Hanavav	0830	26	1013.1	1010.2	−0·3	21·8	18·0	15·2	17·3	67	−7	2·1	−0.3	4·8	0	0	29	0	11	18	0	0	0	0	0	0	0
	1730	,,	1008·9	1006.0	..	30·3	24·1	21·0	24·9	58	..	2·2	..	8·5	0	0	29	0	0	0	0	0	5	19	5	0	0
Mangalore	0830	22	1012·9	1010·5	−0·2	25·6	21·0	18·1	20·8	65	−8	2·5	+0·7	8·3	0	0	29	0	4	23	2	0	0	0	0	0	0
	1730	,,	1008·6	1005·9	..	29·8	24·0	21·1	25.0	60	..	2·7	..	7·8	0	0	29	3	1	0	0	0	6	9	10	0	0
Mangalore (Bajpe Aerodrome)	0230	102	1010·5	999·0	..	23·4	21·5	20·5	24·1	84	..	1.9	..	3·7	0	0	22	0	1	3	17	1	0	0	0	7	0
	0530	,,	1010·7	999·0	..	22·0	20·4	19·5	22·7	86	..	1·8	..	6·9	0	0	26	0	5	19	2	0	0	0	0	3	0
	0830	,,	1012·8	1001·3	..	24·5	20·5	18·0	20·6	69	..	2·3	..	7.7	0	0	29	0	0	26	3	0	0	0	0	0	0
	1130	,,	1012·5	1001·2	..	31·3	20·6	13·3	15·3	35	..	2·2	..	6.8	0	0	25	0	3	18	4	0	0	0	0	4	0
	1730	,,	1008·3	997·0	..	30·0	22·9	18·9	21·8	52	..	2·5	..	9·8	0	0	29	0	0	0	0	0	0	28	1	0	0
	2330	,,	1011·6	1000·0	..	25·2	22·5	21·2	25·2	79	..	1·4	..	3.2	0	0	17	4	7	1	4	0	0	0	1	12	0
Interior Mysore (North)																											
Bidar	0830	664	1014·0	940·2	..	22·4	14·1	6·7	9·8	38	−15	0·6	−0·8	10·3	0	0	29	0	0	6	11	4	6	1	1	0	0
	1730	,,	1008·3	936·7	..	30·1	15·9	2·9	7·5	18	..	1·3	..	12·4	0	0	29	2	13	10	1	1	1	0	1	0	0
Gulbarga	0830	458	1014·6	963·2	+0.8	23·9	14·6	6·4	9·6	33	−15	0·7	0	10·1	0	2	23	1	6	11	7	0	0	0	0	4	0
	1730	,,	1008·1	958·4	..	32·9	16·7	2·0	7·1	15	..	1·6	..	28·4	0	22	7	2	7	11	4	2	0	2	1	0	0
Bijapur	0830	594	1014·3	947·8	+0.5	21·9	15·6	10·8	12·9	50	−2	1·4	+0·4	4·6	0	0	26	4	0	3	5	12	1	1	0	3	0
	1730	,,	1007·5	943.5	..	31·8	19·4	11·9	13·9	29	..	1·7	..	4·0	0	0	25	6	7	5	2	1	0	2	2	4	0
Belgaum	0830	753	1013·9	930·7	+0.6	21·8	15·4	10·5	12·7	51	−8	0·9	−0·2	2·8	0	0	20	3	2	10	5	0	0	0	0	9	0
	1730	,,	1006·9	926·6	..	30·9	16·8	4·5	8·4	20	..	1·1	..	9·9	0	0	29	0	5	17	3	0	0	3	1	0	0
Belgaum (Sambre Aerodrome)	0530	747	1012·6	929·0	..	18·5	13·3	9·3	11·7	57	..	0·8	..	3·3	0	0	9	0	0	8	1	0	0	0	0	20	0
	0830	,,	1014·2	931·2	..	21·1	14·8	10·2	12·4	51	..	1·6	..	6·5	0	2	14	0	3	8	4	0	0	0	0	13	1
	1130	,,	1012·3	931·4	..	28·5	17·0	9·3	11·7	31	..	1·3	..	22·9	0	16	12	0	4	10	12	1	1	0	0	1	0
	1730	,,	1007·5	927·4	..	30·2	17·5	8·9	11·4	27	..	1·4	..	13·5	0	6	19	1	2	11	5	1	0	2	0	4	3
Gadag	0530	650	1012·1	939·5	..	20·0	14·1	9·0	11·5	51	..	0·4	..	9·0	0	1	23	1	1	15	6	0	1	0	0	5	0
	0830	,,	1013·4	941·6	+0.5	23·7	16·5	11·1	13·2	47	−10	1·0	+0·1	9·9	0	0	27	0	4	13	8	1	0	1	0	2	0
	1130	,,	1012·1	941·8	..	30·1	18·4	9·9	12·2	30	..	1·3	..	13·7	0	2	27	0	8	14	5	0	1	0	1	0	0
	1730	,,	1007·6	937·9	..	31·3	18·6	9·5	11·9	27	..	2·0	..	10·3	0	0	28	0	17	4	4	1	1	1	0	1	0
	2330	,,	1012·3	940·4	..	23·6	15·7	9·3	11·7	42	..	0·7	..	10·0	0	0	28	0	2	18	4	0	2	2	0	1	0
Raichur	0830	400	1013·9	968·9	+0·2	24·0	16·9	10·5	12·7	45	−9	0	−1.0	2·5	0	0	21	0	4	0	15	0	2	0	0	8	0
	1730	,,	1008·2	964.6	..	32·2	18·7	6·8	9·9	21	..	0	..	4·4	0	0	29	0	17	0	10	0	2	0	0	0	0
Interior Mysore (South)																											
Bellary	0830	449	1014.0	963·5	+0·4	23·4	16.7	11·2	13·3	48	−6	1·3	−0·1	3·4	0	0	22	0	0	0	17	0	4	0	1	7	0
	1730	,,	1007·7	958·9	..	32·4	20 3	10·7	12·9	28	..	1·5	..	5·9	0	0	29	0	2	8	18	0	1	0	0	0	0
Chitaldrug	0830	733	1013·5	932·6	+0·6	22·5	15·6	10·1	12·3	47	−7	2·6	+1·0	5.3	0	0	23	1	0	13	6	1	1	1	0	6	0
	1730	,,	1007·3	928·7	..	29·9	17·1	6·8	9·9	24	..	1·4	..	2·9	0	0	21	0	6	14	0	1	0	0	0	8	0
Shimoga	0830	571	1014·4	949·9	..	19·1	14·9	11·7	13·7	64	..	2·0	..	0·7	0	0	7	1	1	1	1	1	1	1	0	22	0
	1730	,,	1006·6	945·1	..	31·2	17·0	5·0	8·7	20	..	1·3	..	7·6	0	0	27	3	10	9	3	0	1	1	0	2	0
Balehonnur	0830	..	..	..	..	17·7	14·1	10·9	13·0	67	−13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1530·3	908.6	..	19·4	14.9	11·4	13·5	61	−7	2·3	+0 1	1·9	0	0	12	0	1	9	1	0	0	1	0	17	0
	1730	,,	1512·5	904·9	..	28·5	17·3	8·6	11·2	30	..	2·5	..	4·7	0	0	26	3	1	18	2	0	0	2	0	3	0
Mysore	0830	..	..	..	..	..	..	..	..	..	..	3·4	+1·2	5·6	0	0	24	0	6	11	2	0	4	0	1	5	0
	1730	..	..	..	..	..	..	..	..	..	..	3·6	..	10·1	0	2	23	2	7	14	1	0	1	0	0	4	0
Bangalore (Central Observatory)	0230	921	1507·3	910·6	..	17·9	14·2	11·1	13·2	66	..	0·5	..	10·3	0	0	28	0	0	22	6	0	0	0	0	1	0
	0830	,,	1530·9	912·8	+0·4	19·8	14·4	9·9	12·2	55	−15	2·4	+0·6	9·5	0	0	28	0	3	19	4	1	0	1	0	1	0
	1130	,,	1543·8	912·6	..	26·5	15·3	5·7	8·8	27	..	2·3	..	13·4	0	2	27	0	7	12	8	1	1	0	0	0	0
	1730	,,	1512·8	909·2	..	27·7	15·4	4·0	8·1	23	..	2·7	..	10·9	0	0	29	1	3	19	5	1	0	0	0	0	0
Bangalore (Aerodrome)	0530	897	1504·6	913·3	..	16·5	14·3	12·5	14·5	78	..	1·7	..	4·9	0	0	15	0	1	10	3	0	0	0	1	14	0
	0830	,,	1532·0	915·4	..	20·3	15·5	12.0	14·0	60	..	2·6	..	7·1	0	0	23	0	3	16	1	1	1	1	0	6	0
	1130	,,	1546·9	915.3	..	27·5	17·0	9·0	11·5	33	..	2·3	..	14·7	0	5	22	0	7	18	1	0	0	1	0	2	0
	1730	,,	1515·3	911·7	..	28·6	17·4	9·1	11·5	30	..	2·6	..	14·4	0	0	28	0	6	19	2	0	0	1	0	1	0
	2330	,,	1524·5	914·5	..	20·7	15.7	12·0	14·0	59	..	1·3	..	11·1	0	0	28	0	0	26	1	0	1	0	0	1	0
Kerala																											
Kozhikode	0530	5	1010·8	1010·2	..	23·9	22·1	21·2	25·2	85	..	1·4	..	6·1	0	0	28	0	11	16	1	0	0	0	0	1	0
	0830	,,	1012·9	1012·3	−0·1	24·9	21·9	20·4	24·0	76	−3	3·0	+0·9	8·1	0	0	29	1	7	21	0	0	0	0	0	0	0
	1130	,,	1012·6	1012·0	..	30·6	24·5	21·5	25·6	59	..	2·7	..	7·6	0	0	29	0	0	0	0	0	6	19	4	0	0

Division and station	Hour of observation I.S.T.	Station elevation	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind velocity miles, per hours	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*contd.*																											
Kozhikode—*contd.*	1730	5	1008·7	1008·1	..	30·2	25·2	22·9	27·9	65	..	2·1	..	15.0	0	2	27	0	0	0	0	0	1	14	14	0	0
	2330	,,	1011·6	1011 0	..	26·8	23.9	22·4	27·1	77	..	1·8	..	5.7	0	0	24	12	8	0	0	0	0	0	4	5	0
Palghat	0830	97	1013·3	1002 3	..	25·9	20·2	16·5	18·8	57	..	2·7	..	10.7	0	0	29	0	0	22	6	0	0	1	0	0	0
	1730	,,	1008·0	997.3	..	33.6	20.7	11.4	13.5	27	..	3.6	..	11.6	0	0	29	0	2	19	6	0	1	1	0	0	0
Fort Cochin	0830	3	1012·8	1012·5	−0·1	27·8	25·6	24·9	31·5	87	+14	5·3	+3·5	5·4	0	0	28	2	16	8	1	0	0	1	0	1	0
	1730	,,	1008·4	1008·1	..	29·3	28·1	27·6	36·9	91	..	4·9	..	7·8	0	0	29	0	0	0	0	0	3	19	7	0	0
Cochin (Naval Air Station)	0230	3	1010 6	1010·3	..	25·0	23·4	22·8	27·7	86	..	3·1	..	2·0	0	0	13	0	3	8	1	1	0	0	0	16	0
	0530	,,	1010·6	1010 3	..	24·1	22·4	21·5	25·6	86	..	3·4	..	2·4	0	0	17	0	5	10	1	0	0	0	1	12	0
	0830	,,	1012·	1012·4		26·2	22·0	19·8	23·1	67	..	3·4	..	4·6	0	0	27	1	8	18	0	0	0	0	0	2	0
	1130	,,	1012·5	1012·2		30·4	23·1	19·1	22·1	52	..	3·3	..	5·7	0	0	27	3	2	6	0	3	0	4	8	2	1
	1730	,,	1008·4	1008·1		29·8	24·1	20 9	24·7	60	..	3.6	..	16·7	0	3	26	0	0	0	0	0	7	15	7	0	0
	2330	,,	1011·8	1011·5	..	26·1	24·0	22·9	27·9	82	..	3·3	..	2·2	0	0	15	5	0	5	5	0	0	0	0	14	0
Alleppey	0830	4	1012 1	1011·7	..	26·9	23·1	22·1	26·6	71	..	4·0	..	4·4	0	0	28	0	6	14	7	1	0	0	0	1	0
	1730	,,	1008·2	1007·8	..	30·4	25·2	22·7	27·6	64	..	4·0	..	19·3	0	18	11	0	0	0	0	0	0	16	13	0	0
Punalur	0830	34	1012·3	1008·4	..	24·6	20·8	18·5	21·3	70	..	5·1	..	1·9	0	0	11	1	1	5	3	0	0	0	1	18	0
	1730	,,	1007·8	1004·1	..	32·6	22·	15·7	17·8	39	..	5·5	..	7·5	0	0	29	0	2	9	12	2	2	1	1	0	0
Trivandrum	0230	64	1010·2	1002·9	..	24·5	22·2	20·9	24·7	81	..	3·1	..	2·9	0	0	22	6	8	3	1	0	0	1	3	7	0
	0530	,,	1010·2	1002·9	..	23·4	21·2	19 9	23.2	81	..	2·8	..	4·4	0	0	23	5	9	3	0	2	1	0	3	6	0
	0830	,,	1012·3	1005·0	−0·4	25·1	21·8	19·9	23·2	74	−4	3·6	+1·5	2·9	0	0	22	5	14	2	0	0	1	0	0	7	0
	1130	,,	1011·8	1004·6	..	30·8	22.4	17·5	20·0	46	..	4·1	..	4·4	0	0	25	5	2	1	1	1	6	6	3	4	0
	1730	,,	1009·0	1001·8	..	28·7	23·6	21·0	24·9	64	..	4·9	.	4·7	0	0	28	2	1	0	1	2	15	5	2	1	0
Trivandrum (Aerodrome)	2330	,,	1012·4	1004·5	..	25·9	23·1	21·8	26·1	78	..	3·1	..	4·3	0	1	19	4	7	4	0	1	0	1	3	9	0
	0830	8	1012·1	1011·2	..	26·2	22·2	20.0	23·4	70	..	4·8	..	5·0	0	0	27	8	16	1	0	1	1	0	0	2	0
Arabian Sea Islands																											
Minicoy*	0530																										
	0830	,,																									
	1130	,,																									
	1730																										
	2330	,,																									
Amini Divi*	0830																										
Hill Stations excluding Kashmir																											
Walong (R)	0830																										
(R)	1730																										
Kohima	0830	1406	1576·4	867·0	..	16·0	11·4	4·5	10·0	55	..	1·5	..	..	0	0	29	0	2	5	5	4	6	4	3	0	0
	1730	,,	1573·2	864·1	..	14·8	11·5	4·6	11·1	63	..	3·5	..	..	0	0	29	4	0	0	0	0	2	4	19	0	0
Aizal	0830	.	..	..	..	19·0	13·3	7·9	10·4	51	..	0·6	..	2·1	0	0	29	0	0	17	1	2	3	5	1	0	0
	1730		..	..	..	22·3	14·9	8·8	11·3	45	..	1 5	..	4·0	0	0	29	0	1	0	0	0	5	22	1	0	0
Shillong	0830	1 00	1521·6	832·4	+1·2	15·1	9·7	3 9	7·5	49	..	1·0	−1·1	1·7	0	0	11	0	0	0	2	1	7	1	0	18	0
	1730		1493·5	849·5	..	15·3	11.1	6·9	9·9	59	..	5·0	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Cherrapunji	0830	1313	1516·5	871·3	+0·9	16·9	10·9	5·3	8·7	46	−14	0·3	−2·2	5·0	0	0	28	1	7	3	0	7	6	4	0	1	0
	1730	,,	1489·	868·7	..	16·5	11·3	6·1	9·1	51	..	1·3	..	5·0	0	0	28	0	2	2	0	0	20	3	1	1	0
Darjiling (Raj-Bhawan)	0830	212	1554·9	794·1	+5·9	9·2	7·3	5·6	8·6	80	+9	4·6	+0·8	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	1730	,,	1445·2	791·5	..	9·7	8·1	6·3	9·7	81	..	6·3	..	1·1	0	0	8	0	0	0	0	0	5	3	0	21	0
Kalimpong	0830	1209	1458·5	875·4	−5·8	15·2	13·4	12·7	14·2	81	+8	1·7	−1·1	3·0	0	0	29	0	0	0	4	0	0	0	25	0	0
	1730	,,	1449·0	874·7	..	14·9	13·4	12.9	15·1	84	..	2·3	..	3·0	0	0	29	0	0	0	27	0	0	0	2	0	0
Mukteswa (Kumaon)	0830	2311	3134·0	774·0	+1.9	9·6	3·9	−4·2	4·5	39	−1 5	0·7	−2·4	8·1	0	1	22	1	2	3	0	0	2	7	8	6	0
	1730	,,	3126·4	772·7	..	11·9	6·9	1·4	6·8	50	..	1·2	..	17·2	0	8	19	0	0	0	0	0	5	13	9	2	0
Nainital	0830	1953	1503.0	805·7	..	9·7	4·4	−3·3	5·0	44	..	0·6	..	2·7	0	0	11	9	0	0	1	0	0	1	0	18	0
	1730	,,	1489·0	804·6	..	11·6	7·4	2·8	7·6	57	..	0·6	..	4·9	0	0	19	5	0	0	0	4	2	6	2	10	0
Joshimath	0830	..	..	.	..	10·1	3·8	−5·7	4·0	34	..	0 8	..	7·3	0	0	29	0	3	17	6	2	1	0	0	0	0
	1730	..		.	..	14·6	7·0	−2·7	5·2	32	..	3·4	.	7·0	0	0	29	2	3	8	5	2	4	3	2	0	0
Badrinath	0830	..	..		..	Closed	during	winter	months		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpul	830	..	..	..	..	−6·4	−8·7	−13·3	1·9	53	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooriee	0830	2042	1506.7	797·8	+1·0	10·8	5·8	−0·2	6·0	48	−17	1·7	−2·1	3.0	0	0	24	7	2	0	2	4	1	0	8	5	0
	1730	,,	1492·2	796·7	..	12·0	9·3	6·4	10.1	71	..	2·4	..	3·7	0	0	29	1	1	0	6	10	8	2	1	0	0
Simla	0830	2202	1511·9	783·3	+2·8	10.7	3·3	−9·3	3·2	25	−21	1.2	−2.4	2.9	0	0	27	4	5	1	5	4	5	1	2	2	0
	1730	,,	1499·6	782·4	..	11·5	5·5	−2·1	5·2	39	..	1·7	..	2·9	0	0	28	1	5	1	6	5	6	2	2	1	0
Dalhousie (R)	0830	1959																									
(R)	1730	,,																									

a given as addenda in December, 1960 issue. (R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (kms. p.h.): 62 or more	Wind speed (kms. p.h.): 20 to 61	Wind speed (kms. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Station excluding Kashmir —(*contd.*)																											
Dharamshala	0830	..	..	..	..	15·0	8·9	2·0	7·0	42	..	1·8	..	2·1	0	0	20	4	2	4	0	1	1	2	6	9	0
	1730	..	..	..	..	18·9	11·	4·7	8·5	40	..	2·4	..	2·9	0	0	28	1	0	1	0	0	17	9	0	1	0
Abu	0830	1195	1531·9	884·5	+1·5	16·4	9·8	1·9	7·5	39	−4	0·4	−1·3	0·4	0	0	3	0	1	0	0	0	0	1	1	26	0
	1730	„	1521·7	882·7	..	22·8	12·2	1·0	6·6	24	..	0·4	..	0·6	0	0	6	0	0	0	0	1	2	2	1	23	0
Pachmarhi	0830	1075	1537·8	897·4	+1·1	16·9	11·3	5·8	9·4	51	−1	0·6	−1·1	1·9	0	0	15	0	5	4	0	4	1	0	1	14	0
	1730	„	1516·2	894·0	..	25·3	14·4	4·4	8·6	27	..	1·0	..	2·3	0	0	22	1	7	0	0	0	0	4	10	7	0
Mahabaleshwar	0830	1382	1537·8	865·8	+1·3	19·7	11·7	3·5	7·9	35	−12	0·9	+0·3	8·6	0	0	29	0		14	9	2	0	0	2	0	0
	1730	„	1518·9	863·6	..	24·8	15·0	6·5	9·7	32	..	0·7	..	6·6	0	0	29	1	6	6	2	0	0	3	11	0	0
Nandi Hills	0830	..	..	..	..	17·3	15·3	13·6	15·6	82	..	7·2	..	13·7	0	2	27	2	23	2	2	0	0	0	0	0	0
Mercara	0830	1152	1525.7	888·1	+0·6	18·5	14·3	10.9	13.0	62	−12	1.4	−1·5	6.8	0	0	29	0	14	14	0	0	0	0	1	0	0
	1730	„	1505.7	885.2	..	25.8	18·7	13·8	15·8	50	..	2·1	..	4.6	0	0	29	0	13	13	0	0	0	1	1	0	1
Kodaikanal	0830	2343	3157·6	772.4	+0·3	12·1	7·8	1·0	6·6	58	+6	3·6	..	13·1	0	5	23	3	8	10	7	0	0	0	0	1	0
	1130	„	3173·3	772·8	..	15·9	10·1	2·9	7·5	51	..	3·7	+1·8	13·9	0	4	25	2	7	8	10	2	0	0	0	0	0
	1730	„	3146·4	770·9	..	13·6	10·5	7·6	10·4	70	..	4·2	..	5·9	0	0	26	3	3	6	8	4	0	0	2	3	0
Cotacamund	0830	2249	1524·7	781·0	+0·3	12·3	7·9	3·1	7·6	56	−10	1·7	−0·7	0·9	0	0	6	0	0	5	0	1	0	0	0	23	0
	1730	„	1500·9	779·6	..	16·6	10·7	5·3	8·9	50	..	4·0	..	0·5	0	0	4	0	1	2	0	0	0	0	1	25	0
Coonoor	0830	1747	1524·7	828·6	..	16·4	12·3	9·1	11·5	65	+3	3·3	+1·1	2·5	0	0	19	0	2	3	7	4		0	3	10	0
Nepal																											
Katmandu	0830	1324	1521·4	870·8	..	8·5	7·7	6·9	9·9	90	..	2·4	..	0·1	0	0	1	1	0	0	0	0	0	0	0	28	0
	1130	„	1520·3	869·8	.	19·4	12·6	6·3	9·7	44	..	1·0	..	0·6	0	0	5	0	0	0	0	1	1	1	2	24	0
	1730	„	1495·8	867·4	..	17·2	12·0	7·0	10·3	52	..	2·4	..	1·6	0	0	7	2	0	0	0	1	1	0	3	22	0
Sikkim																											
Lachen	0830	..	..	..	..	6.4	2.6	−2.8	4.9	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet																											
Yatung (Chumbi) (R)	0830	..																									
Ceylon																											
Colombo	0830	7	1012·1	1011·4	−0.4	24·4	21·8	20·5	24·1	81	−4	5·3	+1·7	13·5	0	0	28	7	19	2	0	0	0	0	0	1	0
	1730	„	1008·8	1008·0	..	27·6	23.2	20·9	24·7	68	..	6·4	..	11.5	0	2	27	6	12	1	1	1	1	2	5	0	0
Trincomalee	0830	3	1012·6	1012.3	−0·3	25·9	23·5	22·2	26·7	80	−1	5·7	+2.3	17·5	0	12	17	11	14	0	0	0	1	2	1	0	0
	1730	„	1009·7	1009.4	..	26·7	23·9	22·3	26·9	78	..	6·0	..	20·0	0	16	12	17	9	1	1	0	0	0	0	1	0
Batticoloa	0830	3	1012·8	1012·5	..	25·0	24·2	23·8	29·5	89	..	5·7	..	11·5	0	6	18	3	4	0	2	[illegible]	0	[illegible]	7	5	0
	1730	„	1010·6	1009.5	..	26·5	23·9	22·5	27·3	80	..	5·8	..	19·8	0	17	12	13	11	4	0	[illegible]	[illegible]	[illegible]	1	0	0
Hambantota	0830	15	1011·8	1010.0	−0.1	24·7	22·7	21·8	26·1	84	0	5·8	+3.0	17·3	0	11	18	8	21	0	0	0	0	0	0	0	0
	1730	„	1008.9	1007.2	..	27·1	23·9	22·4	27·1	78	..	6·1	..	25.4	0	23	6	0	19	9	1	0	0	0	0	0	0
Mannar	0830	4	1013.4	1012·9	..	25·4	23·8	22·	27·9	82	..	4·5	..	9·9	0	0	28	3	20	3	2	0	0	0	0	1	0
	1730	„	1009.9	1009.6	..	27·3	24·0	22·7	27·6	76	..	5·4	..	13·9	0	4	24	7	20	0	0	0	1	0	0	1	0
Hydrometeorological Observatories Damodar Catchment																											
Bokaro	0830	242	1016.0	988.0	..	17·7	13·3	9·2	11·7	55	..	0·3	..	3·5	0	0	25	0	1	0	0	0	6	15	3	4	0
	1730	„	1011.3	984.1	..	26·9	17·2	9·1	11·6	35	..	0·7	.	3·6	0	0	26	8	1	1	0	0	0	1	15	3	0
Hazaribagh	0830	615	1014.5	945.3	..	20·3	12·9	5·9	9·6	41	..	0·5	.	3·2	0	0	18	1	0	1	0	0	2	7	7	11	0
	1730	„	1010·2	942·2	..	24·0	14·0	4·7	8·7	29	..	0·5	..	5·4	0	0	24	0	0	0	2	0	0	2	20	5	0
Tilaiya	0830	..	..	..	..	20·5	14·4	8.6	11·5	48	..	..	..	6·6	0	2	20	1	2	2	0	1	4	9	3	7	0
	1730	..	..	..	..	25·0	14·8	4·7	8·5	28	..	..	..	6·0	0	0	25	2	0	3	0	0	1	16	3	4	0
Ramgarh	0830	..	..	..	..	17 8	13 7	10·2	12·2	62	..	0·3	..	0·8	0	0	8	1	0	0	0	0	5	2	0	21	0
	1730	..	..	..	..	25·7	18·1	12·3	14·6	45	..	0.7	..	0·7	0	0	7	3	1	0	0	0	1	2	0	22	0
Panchet Hills	0830	..	..	..	..	20·3	15·6	11·8	13 8	59	..	2·5	..	6.5	0	0	28	1	0	0	1	1	20	4		1	0
	1730	..	..	..	..	26·8	18·0	11·0	13·2	40	..	4.2	..	5·2	0	0	19	10	0	0	0	1	1	0	7	10	0
Durgapur	0830	..	..	..	..	21·7	16·8	13·4	14 9	59	..	..	..	6.9	0	0	29	6	0	0	0	1	1	1	20	0	0
	1730	..	..	..	..	28·3	20.1	14·6	16·6	42	..	..	..	4.8	0	0	24	3	1	1	0	0	2	6	10	5	0
Mahanadi Catchment																											
Hirakud	0830	159	1015 2	996.9	..	22·1	15·9	10·9	13 7	50	..	0·6	..	4·1	0	0	24	6	4	3	5	4	0	0	2	5	0
	1730	..	1010.4	992.6	..	29·1	18 4	10.4	12·5	31	..	1·0	..	1·4	0	0	12	1	0	0	0	3	0	1	7	17	0
Khijrawan	0830	..	..	..	..	19·1	14·7	10·9	13·1	59	..	0·2 (c)	..	1·8	0	0	15	0	1	12	1	0	0	0	0	14	1
	1730	..	..	..	..	29·5	19·5	12·1	15·3	39	..	0·6	..	3·4 (c)	0	0	22	9	1	2	0	0	0	0	5	6	5
Sonepur	0830	..	..	..	..	23 5	16·5	10·9	12·2	46	..	..	..	2·8	0	0	21	1	2	7	2	4	1	8	1	8	0
Ginabahar	0830	..	..	..	..	20·7	14 1	7 8	10·6	44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhimkund	0830	..	..	..	..	19·3	14·0	9·3	11·7	53	..	0·5	..	2·	0	0	14	5	1	0	1	0	0	0	7	15	0
	1730	..	..	..	..	28·8	16·7	5 2	9·	24	..	1·3	..	2·1	0	0	13	2	3	0	1	1	3	0	3	16	0

(R)—Register not received.

(c)—Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in kms. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Narbada Catchment																											
Punasa	0830	..	..	..	..	19·7	13·5	7·4	10·9	46	..	..	..	2·8	0	0	24	1	10	6	0	1	4	1	1	5	0
	1730	..	..	..	..	32·0	19·0	8·2	12·4	25	..	..	..	3·0	0	0	23	4	9	3	0	1	1	1	4	6	0
Bagra Tawa	0830	..	..	..	..	18·4	12·9	7·6	10·4	49	..	0·3	..	4·8	0	0	21	1	7	2	2	1	7	0	1	8	0
	1730	..	..	..	..	29·4	16·7	5·7	8·6	24	..	0·2	..	2·6	0	0	16	1	8	1	0	0	2	2	2	13	0
Thikri	0830	..	..	..	..	22·5	16·7	12·7	14·3	56	..	1·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Jhadol	0830	..	..	..	..	12·8	10 8	8.9	11.4	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharoi	0830	..	..	..	..	18·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	31·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	.	..	..	11·4	6 2	0·1	6 1	46	..	(c) 1·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·4	7·8	2·3	7·0	46	..	(c) 1·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	9·9	8 4	7·0	10·0	83	..	1·5	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	1130	..	..	..	..	17·9	12 3	6·8	10·3	49	..	1·3	..	1·4	0	0	12	5	1	1	1	1	0	2	2	17	0
	1730	..	..	..	..	25·2	14·0	5·6	9 3	34	..	1·1	..	6·0	0	0	25	1	0	0	8	7	6	1	2	4	0
Gandak Catchment																											
Gorkha	0830	..	..	..	..	16.5	12·4	8 9	11·5	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·9	13·1	10·9	13·1	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	15·9	12·9	10·4	12·7	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·0	14·5	10 1	12·5	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nawakot	0830	..	..	..	..	16·1	13.0	11.1	12 7	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		..
	1730	..	..	..	..	20·2	13·9	8·8	11·4	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom	0830	..	..	..	..	4·3	0.5	—5 0	4.2	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·2	4 6	1·0	6 4	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	15 3	11·6	9·0	11.0	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·7	14·4	10·5	11·9	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	8·7	4·6	—0·7	5·8	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·3	9·1	4·2	8·1	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region).																											
Dailekh*	0830																										
	1730																										
Gogra Catchment																											
Dandeldhura	0830	..	..	..	..	11·5	6·8	1·5	6·8	52	..	0·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·4	8·0	4·5	8·4	56	..	1·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	(c) 22·0	(c) 16·1	(c) 11·5	(c) 13·6	(c) 51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	...	..	..	..	(c) 25·4	17·6	(c) 11·4	(c) 13.6	(c) 42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu†	0830	1324																									
	1130	"																									
	1730	"																									
Kosi Catchment																											
Chautara	0830	..	..	..	..	12·7	9·8	7·5	10·3	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·7	11·1	6·7	9·7	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	9·9	8·0	6·7	9·7	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·0	9·8	8·5	10·8	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga*	0830																										
	1130																										
	1730																										
Barahkshetra	0830	146	1015·9	998·8	..	16·9	14·0	11·6	13 6	72	..	0·3	..	4·5	0	0	26	2	3	2	4	3	6	2	4	3	0
	1130	..	1014·0	997.3	..	25·4	17·6	11·6	13·9	43	..	0·6	..	8·1	0	0	29	0	0	0	0	1	15	12	1	0	0
	1730	..	1010·8	994·0	..	22·7	16·9	12·6	14·5	53	..	1·8	..	5·7	0	0	28	0	8	7	9	1	0	1	2	1	0
Angbung	0830	..	..	..	..	14·4	11·8	9·6	11·9	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·6	12·9	8·1	10·8	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	11·5	9·1	7·1	10·1	75	..	3·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	15·4	10·9	7·1	10·1	59	..	3·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·9	9·6	6·8	9·9	67	..	5·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	13·9	10·5	7·3	10·2	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·2	11·5	7·3	10·2	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	5·3	0·8	—5·6	4·1	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	2·7	1·5	0·1	6·1	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data not available †Data included under Nepal. (c)—Mean of 28 days (e) Mean of 26 days.

Division and station	Hour of observation I.S.T.	Station elevation	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Kosi Catchment-*contd.*																											
Bhojpur	0830	..	..	..	..	13·9	10.1	6·7	9.9	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·5	10·1	7·3	10·2	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	15·5	11·8	8·7	11·3	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·0	12·1	7·8	10·6	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment																											
Gangtok	0830	1812	1523·8	821·5	..	10·2	8·3	6.4	9·7	78	..	3·4	..	0	0	0	0	0	0	0	0	0	0	0	0	29	..
	1130	,,	1514·6	821·0	..	13·9	10·4	7·5	10·4	67	..	4·7	..	1·3	0	0	13	0	0	0	3	6	4	0	0	16	0
	1730	,,	1496·2	818·9	..	11·0	8·9	7·1	10·1	78	..	6·7	..	1·1	0	0	6	0	2	0	0	3	1	0	0	23	0
Geyzing	0830	..	..	..	..	13·5	10·8	8·7	11·3	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
	1730	..	..	..	..	13·2	10·8	9·0	11·5	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

MONTHLY MEANS OF UPPER WINDS,

February 1960 (Magha 12–Phalguna 10, 1881 SAKA)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 43 stations all the observations were taken by means of pilot balloons and at 11 stations some observations were made by means of pilot balloons (and) the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9·0 km. a.m.s.l. are given under Table IV and data above 9·0 km. a.m.s.l. under, Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second* irrespective of direction;

v—represents the resultant mean velocity in metres per second*;

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0·15 km. a.g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a.m.s.l. Of these, the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1 and 16·2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

*Values obtained by converting the original data in knots.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

No.	Station	Lat. N.	Long. E.	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flights (IST)			
1	Agartala	23° 53′	91° 15′	17	28th November 1951	0530	1730	2330	
2	Ahmedabad	23° 04′	72° 38′	61	19th May 1928	0530	1730	2330	
3	Amausi	26° 45′	80° 53′	133	20th November 1950	0530	1730	2330	
4	Ambala	30° 23′	76° 46′	279	1st April 1941	0530	1730	2330	
5	Anantapur	14° 41′	77° 37′	365	12th February 1946	0530	1730	2330	
6	Asansol	23° 41′	86° 59′	135	29th May 1942	0530	1730	2330	
7	Baghdogra	26° 38′	88° 19′	140	7th June 1953	0530	1730	2330	
8	Bairagarh	23° 17′	77° 21′	532	26th February 1943	0530	1730	2330	
9	Bajpe	12° 55′	74° 53′	109	25th May 1959	0530	1730	2330	
10	Bamrauli	25° 27′	81° 44′	103	28th February 1930	0530*	1130	1730*	2330
11	Bangalore	12° 58′	77° 35′	936	19th May 1915	0530	1730	2330	
12	Bareilly	28° 22′	79° 24′	180	12th January 1943	0530	1730		
13	Begumpet	17° 27′	78° 28′	543	1st September 1929	0530	1730	2330	
14	Bhagalpur	25° 14′	86° 57′	61	19th May 1950	0530	1730		
15	Bhubaneshwar	20° 15′	85° 50′	54	5th December 1942	0530	1730	2330	
16	Bhuj	23° 15′	69° 48′	90	14th September 1937	0530	1730	2330	
17	Bikaner	28° 00′	73° 18′	229	18th October 1946	0530	1730	2330	
18	Chikalthana	19° 51′	75° 24′	583	7th October 1951	0530	1730	2330	
19	Cochin†	09° 56′	76° 14′	13	16th March 1942	0530	1730	2330	
20	Darjeeling	27° 03′	88° 16′	2115	21st May 1956	0830	1730		
21	Dehra Dun	30° 19′	78° 03′	692	1st October 1958	0530	1730		
22	Dum Dum	22° 39′	88° 27′	13	14th May 1921	0530*	1130	1730*	2330
23	Gadag	15° 25′	75° 38′	650	3rd May 1943	0530	1730	2330	
24	Gannavaram	16° 32′	80° 48′	32	8th April 1942	0530	1730	2330	
25	Gauhati	26° 05′	91° 43′	51	12th Mach 1955	0530*	1130	1730*	2330
26	Gaya	24° 45′	84° 57′	119	19th March 1937	0530	1730	2330	
27	Gopalpur	19° 16′	84° 53′	24	15th February 1946	0530	1730	2330	
28	Gorakhpur	26° 45′	83° 22′	83	5th January 1943	0530	1730		
29	Gwalior	26° 14′	78° 15′	208	7th May 1938	0530	1730	2330	
30	Imphal	24° 51′	93° 58′	805	8th March 1952	0530	1730	2330	
31	Jabalpur	23° 10′	79° 57′	402	30th July 1928	0530	1730	2330	
32	Jagdalpur	19° 05′	82° 02′	562	25th March 1948	0530	1730	2330	
33	Jaipur	26° 49′	75° 48′	403	6th June 1953	0530	1730	2330	
34	Jamshedpur	22° 49′	86° 11′	144	23rd July 1942	0530	1730		
35	Jharsuguda	21° 55′	84° 05′	240	1st May 1944	0530	1730	2330	
36	Jodhpur	26° 18′	73° 01′	229	15th October 1934	0530*	1130	1730*	2330
37	Madras	13° 00′	80° 11′	29	8th April 1926	0530*	1130	1730*	2330
38	Minicoy	08° 18′	73° 00′	15	14th April 1941	0530	1730	2330	
39	Mohanbari	27° 29′	59° 01′	112	1st June 1948	0530	1730	2330	
40	Nagpur	21° 06′	79° 03′	316	23rd April 1943	0530*	1130	1730*	2330
41	Nanpara	27° 50′	81° 30′	142	23rd April 1957	0530	1730		
42	New Delhi	28° 35′	77° 12′	227	20th October 1936	0530*	1130	1730*	2330
43	Poona	18° 32′	73° 51′	593	5th January 1925	0530	1730	2330	
44	Port Blair	11° 40′	92° 43′	93	29th October 1945	0530*	1130	1730*	2330
45	Raipur	21° 14′	81° 39′	308	15th July 1944	0530	1730	2330	
46	Raxaul	26° 59′	84° 51′	83	28th October 1957	0530	1730		
47	Santa Cruz	19° 07′	72° 51′	27	14th May 1933	0530*	1130	1730*	2330
48	Tezpur	26° 37′	92° 47′	79	12th August 1932	0530	1730	2330	
49	Tiruchirapalli	10° 46′	78° 43′	96	22nd June 1936	0530	1730	2330	
50	Trivandrum	08° 29′	76° 57′	73	8th December 1928	0530*	1130	1730*	2330
51	Udaipur	24° 35′	73° 42′	587	24th June 1947	0530	1730	2330	
52	Vengurla	15° 52′	73° 38′	8	22nd November 1941	0530	1730	2330	
53	Veraval	20° 54′	70° 22′	17	13th October 1941	0530*	1130	1730*	2330
54	Visakhapatnam	17° 43′	83° 14′	10	24th September 1928	0530	1730	2330	

*Radiowind ascents.

†Naval Meteorological Office.

5—18 D.D.G. Obs, Poona/64

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station	AGARTALA												AHMEDABAD											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	1.3	0.9	164	29	1.3	0.7	242	29	1.7	0.8	144	29	2.5	2.0	021	29	2.9	1.3	355	29	5.2	1.5	001
0.15 a.g.	28	3.3	1.9	179	29	3.5	2.5	260	28	4.6	2.8	238	29	7.8	6.2	037	29	2.8	1.4	345	29	6.1	4.5	184
0.3 a. m. s. l.	28	2.8	0.6	268	29	4.1	2.9	255	28	4.3	2.7	245	29	7.6	6.0	040	29	2.8	1.3	344	29	5.9	4.5	359
0.6 „	28	3.4	1.1	262	29	4.1	3.2	250	28	3.7	2.5	245	29	5.8	4.0	040	29	2.9	1.5	341	29	4.4	3·2	007
0.9 „	28	3.9	1.5	248	29	4.1	3.3	240	28	3.7	2.4	240	29	3.8	2.3	037	29	2.8	1.5	341	29	3.7	2.4	017
1.5 „	28	5.1	2.3	238	29	4.9	3.5	235	28	4.6	2.8	240	29	3.5	0.7	274	29	3.3	1.2	320	29	3.4	0.8	034
2.1 „	28	6.6	4.4	267	29	6.1	4.2	245	28	6.1	4.6	268	29	4.8	3.0	239	29	4.6	1.7	261	29	4.6	1.6	222
3.0 „	27	10.0	9.3	283	29	9.9	8.4	280	27	10.1	9.6	285	26	6.4	2.9	258	29	5.8	2.6	281	29	5.1	1.8	265
3.6 „	23	12.4	11.5	287	28	12.1	11.5	284	13	11.8	11.5	285	8	7.0	5.2	272	29	7.1	4.6	283	5	6.9	3.7	250
4.5 „	13	13.4	13.0	285	28	14.3	13.8	284	3	12.5	12·4	292	1	3.6	3.6	185	28	9.4	7.5	286				
5.4 „	9	13.9	13.3	276	26	17.1	16.7	280	2	13·6	13.5	294					28	11.6	10.2	283				
6.0 „	8	14.9	13.8	277	24	19.0	18.4	277	1	13·9	13·9	290					28	13.8	12.9	341				
7.2 „	3	14.9	14.4	294	14	32.0	24.1	270									27	19.8	17.7	279				
9.0 „	2	21.1	20.8	264	7	32.3	31.9	268									8	22.1	20.6	282				

Station	AMAUSI												AMBALA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	2.0	1.5	282	29	3.6	3.2	275	29	2.4	2.0	280	29	1.8	1.5	312	29	2.9	2.8	308	29	2.4	2.3	319
0.15 a.g.	29	6.2	5.3	329	29	5.5	4.9	284	29	6.1	5.3	304	29	6.9	5.7	331	29	5.9	5.7	303	29	8.0	7.6	332
0.3 a.m. s.l.	29	5.9	5.1	328	29	5.5	5.0	286	29	6.1	5.3	304	29	3.4	2.6	323	29	3.7	3.6	300	29	3.6	3.3	323
0.6 „	29	5.8	4.9	320	29	5.3	5.3	288	29	5.8	5.1	304	29	7.7	6.9	326	29	6.2	5.9	306	29	7.7	7.5	329
0.9 „	29	6.1	5.2	307	29	5.8	5.6	292	29	5.9	5.3	305	29	7.9	7.0	327	29	6.3	6.0	308	29	7.4	7.2	329
1.5 „	29	7.6	6·4	298	27	7.2	6.4	301	28	6.1	5.5	307	29	7.4	6.3	317	29	6.9	6.3	313	29	6.5	5.6	319
2.1 „	28	9.1	7.7	299	27	8.7	8.0	305	26	7.4	7.0	301	29	7.1	5.9	312	29	6.9	6.3	314	29	6.5	6.0	309
3.0 „	13	11.2	9.8	297	26	11.5	11.1	301	12	9.8	8.7	292	27	7.0	5.8	300	29	8.1	7.2	313	29	7.4	6.7	300
3.6 „	3	11.2	6.6	315	22	13.0	12.5	299	2	14.2	12.1	300	25	8.7	7.3	293	28	9.3	8.5	306	8	5.3	4.1	289
4.5 „					17	13.9	12.9	299	1	10.8	10.8	330	16	10.4	8.9	284	26	11.0	10.1	295				
5.4 „					15	15.6	15.1	294	1	9.3	9.3	350	14	13.8	11.6	276	25	14.7	13.9	289				
6.0 „					13	16.2	15.2	289					7	13.9	12.2	281	22	16.1	15.2	285				
7.2 „					3	24.7	11.8	315					1	13.9	13.9	310	9	19.4	18.6	284				
9.0 „																	2	27.5	27.2	284				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station	ANANTAPUR												ASANSOL											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0.6	0.3	161	29	3.9	3.7	080	29	4.1	3.9	099	29	1.0	0.9	284	29	0.6	0.6	305	29	0·9	0.3	349
0.15 a.g.	29	3.4	2.6	133	29	5.3	4.8	082	29	7.9	7.5	106	29	3.6	0.9	299	29	3.4	2.8	313	29	5.6	3.6	001
0.3 a.m.s.l.													29	3.5	2.4	311	29	3.4	2.9	315	29	5.7	3.6	359
0.6 ,,	29	4.3	3.7	126	29	5.3	4.9	084	29	8.3	7.7	106	29	4.7	3.3	343	29	3.9	3.4	308	29	5.8	4.1	345
0.9 ,,	29	6.7	6·1	100	29	6.0	5.6	083	29	7.8	7.2	105	29	5.0	4.0	329	29	4.2	3.7	307	29	4.9	3.2	318
1.5 ,,	29	7.1	6·1	077	29	6.4	5.8	082	29	4.2	3.3	075	29	6.4	5.6	306	29	5.1	4.5	289	29	5.8	5.0	285
2.1 ,,	29	6.3	5.2	055	29	6.0	5.5	082	29	4.3	2.6	037	28	8.6	7.4	292	29	7.4	6.8	295	27	8.0	7.1	290
3.0 ,,	29	4.7	3.2	064	29	5.1	4.2	072	29	4.3	2.8	064	23	11.5	10.6	301	25	10.9	10.1	297	25	11.3	10.5	293
3.6 ,,	29	5.1	2.7	070	29	5.0	3.5	057	26	4.7	2.3	044	15	11.7	11.2	295	19	13.2	12.8	288	15	13.7	12.9	294
4.5 ,,	29	5.6	2.4	062	28	5.3	3.0	017	18	5.4	2.6	036	8	13.2	12.5	301	10	18.2	18.0	289	3	12.9	12.2	303
5.4 ,,	28	5.6	1.9	320	28	5.5	3.2	005	6	6.3	4.1	329	3	14.4	13.8	285	7	19.8	19.5	286				
6.0 ,,	27	6.7	4.5	309	28	6.7	4.4	352	2	5.4	4.0	311	3	18.9	17.5	285	1	27.2	27.2	275				
7.2 ,,	16	9·6	7·0	289	26	8.9	6.4	304																
9.0 ,,	7	7·2	4·5	280	17	14.2	12.1	286																

Station	BAGHDOGRA												BAIRAGARH											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	1.5	1.2	035	29	2.3	0.3	194	29	1.4	1.0	019	29	1.6	1.2	040	29	1.6	1.0	332	29	1.7	0.9	031
0.15 a. g.	29	3.4	2.8	313	29	5.6	3.6	001	29	3.8	3.3	062	29	5.2	3·5	069	29	2.5	1.3	309	29	3.7	2.6	026
0.3 a.m.s.l.	29	3.8	3.4	085	29	3.0	0.7	205	29	3.1	1.3	048												
0.6 ,,	29	4.5	4.2	090	29	2.9	1.3	207	29	3.0	1.0	093	29	4.7	3.0	069	29	2.4	1.2	311	29	4.6	2.3	023
0.9 ,,	29	4.1	3.5	082	29	2.7	1.6	210	29	3.0	0.3	132	29	4.2	2.4	049	29	2.9	1.8	310	29	4.2	2.7	017
1.5 ,,	29	3.2	1.6	090	29	3.2	1.7	240	29	3.3	0.7	205	29	3.8	2.5	316	29	3.7	2.7	301	29	3.7	2.0	327
2.1 ,,	28	4.9	0.2	284	29	4.9	2.4	261	28	4.9	1.4	183	29	5.1	3.9	296	29	4.4	3.2	305	29	4.8	2.9	292
3.0 ,,	26	8.2	5.2	294	26	7.9	5.8	288	20	6.2	3.8	284	29	6.7	4.4	280	29	5.7	4.3	298	29	5.7	3.5	273
3.6 ,,	23	9.1	6.8	287	22	9.6	6.3	285	10	7.1	6.2	283	16	8.3	6.6	273	29	7.0	5.3	289	16	5.7	4.6	268
4.5 ,,	13	8.6	8.0	287	15	14.0	10.8	288					7	7.7	6.7	272	29	10.2	8.6	286	3	6.5	6.2	266
5.4 ,,	5	11.3	10.9	300	10	16.6	16.2	288					2	9.5	8.9	257	29	13.7	11.8	282				
6.0 ,,	4	14.4	12.7	300	9	21.3	20.7	288									28	15·4	13·5	283				
7.2 ,,	1	17.5	17.5	305	3	12.0	11.7	290									23	19.2	17.7	284				
9.0 ,,																	7	22.5	21.1	285				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9°Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station	BAJPE												BAMRAULI											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	2.2	2.0	091	29	4.3	4.0	293	29	1.1	0.8	017	29	0.8	0.6	275	29	2.0	1.2	282	29	2.1	1.6	305
0.15 a.g. . .	29	3.6	2.6	067	29	5.0	4.8	284	29	3.0	2.5	334	29	4.7	3.5	314	29	2.8	1.9	293	29	4.9	4.2	293
0.3 a. m. s. l. .	29	3.5	2.2	064	29	5.2	5.0	284	29	3.1	2.7	330	29	4.7	3.5	314	29	2.8	1.9	297	29	4.9	4.2	293
0.6 „ .	29	4.1	2.4	074	29	3.3	2.5	314	29	3.3	2.6	325	29	4.8	3.5	304	29	4.2	2.8	300	29	4.7	4.0	295
0.9 „ .	29	5.4	3.8	090	29	2.7	1.7	013	29	3.2	2.3	345	29	5.3	4.2	308	29	5.6	3.8	300	29	5.1	4.4	297
1.5 „ .	29	6.0	5.1	091	29	5.1	4.8	075	29	4.9	4.3	067	29	7.2	6.0	301	29	8.1	6.0	305	29	6.8	5.9	300
2.1 „ .	29	4.9	4.1	089	29	8.7	8.5	076	29	7.3	7.6	083	29	8.9	7.2	299	29	9.4	7.9	305	29	8.5	7.4	299
3.0 „ .	29	5.4	4.3	072	27	6.8	6.2	075	28	6.8	6.3	078	29	11.6	10.5	299	27	11.8	9.9	305	29	10.9	10.1	297
3.6 „ .	25	6.0	4.8	089	25	5.8	4.3	068	23	5.7	4.6	064	29	12.3	11.0	294	26	12.8	11.3	300	29	12.0	11 0	296
4.5 „ .	16	7.0	4.4	089	20	7.2	5.4	063	12	5.7	5.0	072	29	12.7	11.7	293	26	14.4	14.3	295	29	14.4	13.6	289
5.4 „ .	8	6.0	4.4	079	16	6.0	3.3	042	3	4.6	4.2	080	29	14.4	13.5	288	23	16.0	15·3	289	29	15.7	14.8	287
6.0 „ .	6	6.0	2.9	086	14	6.8	3.5	041	2	6.2	5.1	078	28	15.3	13.7	286	17	15.6	14.5	281	29	17.3	15.9	281
7.2 „ .	1	6.2	6.2	160	12	8.4	4.4	311					28	19.2	17.7	281	14	21.5	20.0	280	29	21.1	19.9	282
9.0 „ .					6	12.7	10·4	071					26	28.4	26.7	265	4	26.3	24.8	299	25	33.3	31.0	278

Station	BAMRAULI				BANGALORE								BAREILLY											
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	0.8	0.3	279	29	3.5	3.0	087	29	4.1	3.5	084	29	4.3	4.0	098	29	2.0	1.0	302	29	1.6	1.5	287
0.15 a.g. . .	28	5.5	3.9	325	28	8.2	7.2	092	28	5.3	4.8	087	29	9.9	9.4	104	29	5.3	4.5	315	29	4.4	4.2	296
0.3 a. m. s.l. .	28	5.7	4.2	326													29	5·0	4·5	309	29	4.2	4·0	295
0.6 „ .	28	6.0	4.1	313													29	8·1	7·5	307	29	5.7	5.5	296
0.9 „ .	28	7.1	4.7	307													29	8·4	7·8	306	29	6.3	5.9	295
1.5 „ .	27	7.2	5.8	293	28	8.3	6.9	081	28	5.7	5.3	079	29	8.8	8.2	095	29	9.5	8.7	306	29	7.8	7.3	297
2.1 „ .	27	9.0	7.8	294	28	6.2	5.1	063	29	5.7	5.3	075	29	5.2	3.6	063	29	11.3	10.8	303	29	9.2	8.7	298
3.0 „ .	16	9.8	8.3	294	28	5.5	4.8	077	29	5.1	4.2	070	29	5.0	4.0	066	27	11.6	11.0	302	29	11.4	10.5	298
3.6 „ .	8	11.1	9.8	291	25	6.1	5.0	081	29	4.8	3.8	071	28	5.8	4.7	069	21	11.6	10.6	293	29	12.7	11.9	303
4.5 „ .					20	5.2	3.0	081	28	5.2	3.9	058	25	5.9	4.3	065	18	13.2	12.3	294	27	14.5	13.7	299
5.4 „ .					12	6.4	2.7	034	27	5.6	3.3	038	15	6.2	3.0	070	9	14.6	13.1	280	24	16.1	15.2	297
6.0 „ .					6	5.9	2.3	039	26	6.3	4.1	015	9	6.7	1.6	086	5	16.7	15.7	285	23	17.8	16.7	294
7.2 „ .					1	4.1	4.1	110	26	8.4	4.8	330	1	12.9	12.9	195	3	21.0	18.8	296	15	21.1	19.2	293
9.0 „ .									25	9.2	5.5	274									6	30.2	28.5	294

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level.

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station	BEGUMPET												BHAGALPUR								BHUBANESHWAR			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	0.5	0.1	123	29	2.5	1.7	094	29	0.9	0·8	295	29	1.2	0.8	235	29	1.8	1.6	284	27	1.5	0.9	259
0.15 a.g. .	28	4.3	3.5	130	29	4.1	3.1	096	29	5.1	4.5	118	29	3.7	2.5	267	29	4.5	4.2	292	27	4.4	2.8	218
0.3 a.ms.l. .													29	4.3	3.1	283	29	4.8	4.5	287	27	4.7	3.3	241
0.6 „ .	28	2.8	1.9	122	29	3.8	2.8	097	29	3.2	2.8	114	29	4.3	3.2	300	29	5.2	4.8	288	27	4.3	2.6	247
0.9 „ .	28	5.6	4.2	110	29	4.2	3.3	097	29	5.4	4.6	110	29	4.6	3.4	304	29	5.9	5.1	287	27	3.6	1.4	307
1.5 „ .	28	5.6	4.2	075	29	4.2	2.9	090	29	4.7	3.5	080	29	6.3	4.1	302	29	7.3	5.9	285	27	4.8	4.1	345
2.1 „ .	28	5.7	3.7	045	29	4.1	2.4	070	29	4.8	3.0	050	29	8.9	6.9	298	29	9.0	7.4	288	27	5.5	4.4	338
3.0 „	28	4.6	2.9	026	29	4.8	2.7	034	29	5.3	2.4	010	27	11.4	10.4	293	29	13.2	11.9	292	27	6.2	5.2	332
3.6 „ .	28	4.4	2.2	005	29	4.8	2.4	352	21	5.2	2.4	335	17	12.9	12.1	299	28	15.2	14.4	295	27	6.2	5.6	308
4.5 „ .	28	5.3	2.3	326	29	6.3	3.7	328	11	6.7	4.4	290	11	12.9	12.4	296	24	16.5	15.9	291	26	7.2	6.5	292
5.4 „ .	27	6.5	3.3	296	29	7.5	5.6	319	4	9.9	9.0	285	7	14.2	13.5	296	23	17.2	16.5	293	22	8.7	7.8	299
6.0 „ .	26	8.4	6.1	287	28	9.0	7.1	308	3	11.8	11.2	299	5	15.3	14.7	300	23	19.2	18.4	292	22	11.2	9.6	289
7.2 „ .	23	12.6	10.4	285	27	11.8	10.5	291	1	6.2	6.2	270	1	11.8	11.8	320	16	22.7	21.8	289	11	14.3	12.9	298
9.0 „ .	6	14.2	13.6	269	22	16.4	14.6	275									8	27.9	26.9	282	2	23.7	23.5	264

Station	BHUBANESHWAR								BHUJ												BIKANER			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	3.2	2.5	195	29	3.2	2.6	204	29	0.3	0.3	278	29	2.6	1.7	002	29	6.8	0.6	304	29	0.1	0.1	119
0.15 a.g.	29	4.7	3.0	185	29	8.0	7.1	206	29	5.8	4.5	355	29	3.8	2.5	001	29	4.5	3.4	345	29	5.8	2.1	101
0.3 a. ms.l. .	29	4.6	2.7	194	29	7.7	7.1	208	29	6.4	5.1	001	29	3.9	2.7	002	29	4.7	3.4	345	29	4.6	2.4	117
0.6 „ .	29	3.5	1.5	223	29	5.8	4.7	218	29	5.7	4.2	017	29	3.6	2.3	002	29	4.7	3.5	004	29	4.8	1.3	021
0.9 „ .	29	2.7	1.2	284	29	4.5	3.0	247	29	4.2	2.3	040	29	3.5	2.2	356	29	4.1	2.3	021	29	4.5	2.1	332
1.5 „ .	29	4.3	3.4	316	29	5.0	4.4	314	29	4.0	0.8	181	29	3.5	1.0	315	29	3.8	0.7	069	29	5.0	3.7	308
2.1 „ .	27	6.3	5.9	327	28	6.0	5.6	332	29	4.0	1.5	220	29	4.8	2.0	245	29	4.2	1.3	187	29	5.1	4.3	299
3.0 „ .	25	7.1	6.4	324	28	7.1	6.0	331	29	5.4	2.4	263	29	5.9	3.1	240	28	5.1	1.9	238	29	7.4	6.4	286
3.6 „ .	24	7.9	6.3	310	18	7.2	6.4	323	17	7.2	5.9	285	29	6.2	2.9	266	18	6.1	4.1	290	27	9.3	8.7	281
4.5 „ .	22	9.0	8.3	293	6	6.3	4.7	299	5	11.0	9·5	273	29	7.8	5.2	280	11	8.6	5.5	278	23	11.2	10.1	280
5.4 „ .	22	11.2	10.3	285	1	7.2	7.2	270					29	10.9	8.7	273	2	10.3	10.2	254	16	13.6	11.4	283
6.0 „ .	22	12.5	11.0	282	1	7.2	7.2	270					29	12.8	10.9	273	1	14.4	14.4	305	9	16.0	14.4	291
7.2 „ .	14	14.9	13.6	281									25	18.0	15.8	277					9	12.4	12.4	280
9.0 „ .	4	21.8	20.7	279									8	31.3	30.1	285								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station.	BIKANER								CHIKALTHANA												COCHIN			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	0.6	0·5	306	29	0.6	0.5	024	29	0.8	0.3	004	29	1.5	0.4	189	29	0.7	0.3	007	29	1.5	1.1	080
0.15 a.g. .	29	2.8	1·6	312	29	5.0	3.2	030	29	4.6	3.1	093	29	2.9	0.3	190	29	5.0	3.1	066	29	3.2	1.6	062
0.3 a.m.s.l. .	29	2.4	1·4	310	29	4·4	2·8	027													29	2.9	1.5	048
0.6 „ .	29	3.0	1.7	315	29	3·9	2·2	014													29	2.8	0.9	018
0.9 „ .	29	3.1	1.8	312	29	2.8	1.2	312	29	5.6	3.1	104	29	3.0	0.2	333	29	5.3	2.9	068	29	3.0	1.3	033
1.5 „ .	29	3.3	2.4	296	29	4.0	2.8	258	29	5.1	1.6	125	29	3.1	0.4	329	29	3·7	1.6	095	29	4.5	3.3	050
2.1 „ .	29	4.5	3.5	279	29	5.2	3.7	271	29	4.4	0.7	163	29	3.5	1.0	346	29	3.3	0.7	122	29	5.7	4.1	068
3.0 „ .	29	7.3	6.2	276	28	7.5	5.9	282	29	4.8	0.5	266	29	4.5	0.9	001	29	3.9	1.6	188	22	6.1	4.5	082
3.6 „ .	29	9.8	8.7	279	22	8.5	7.7	286	23	6.5	2.9	302	29	5.3	2.1	297	21	4.8	2.0	317	15	6.7	5.9	092
4.5 „ .	29	12.3	11.3	279	7	11.3	10.6	274	3	4.0	2.2	282	29	7.2	4.9	297	14	7.0	5.7	287	8	6.0	5.2	085
5.4 „ .	27	15.0	13.8	281	1	13.9	13.9	280					29	10.3	8.1	296	6	8.1	6.0	353	3	7.0	5.3	062
6.0 „ .	26	16.4	15.0	282									28	11.8	9.5	292	2	9.5	9.5	297	1	4.6	4.6	025
7.2 „ .	21	17.9	16.8	281									21	17.3	15.1	283								
9.0 „ .	7	25.0	23.7	275									1	33.4	33.4	295								

Station	COCHIN								DARJEELING								DEHRA DUN							
Time in I.S.T.	1730				2330				0830				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	4.5	4.0	269	29	0.6	0.3	057	29	0.3	0.1	093	29	1.9	1.4	254	29	0.7	0.6	033	29	1.4	0.9	254
0.15 a.g. . .	28	5.5	4.8	270	29	2.4	0.7	055	16	1.2	0.6	181	6	3.0	1.4	310	29	1·3	1·1	048	29	2.6	1.9	260
0.3 a.m.s.l. .	28	5.3	4.8	273	29	2.2	0.3	028																
0.6 „ .	28	4.2	2.9	300	29	2.5	1.1	084																
0.9 „ .	28	3.9	2.0	357	29	3.8	2.6	090									29	1.3	0.7	082	29	2.7	2.1	259
1.5 „ .	28	6.0	5.7	058	28	5.3	4.8	078									29	2.7	1.6	298	29	2.8	2.4	270
2.1 „ .	28	7.5	6.8	078	26	6.4	5.8	065									29	4.5	3.2	299	29	4.0	3.3	281
3.0 „ .	26	7.4	6·4	071	21	7.1	6.2	673	15	4.2	3.0	269	6	4.4	1.6	328	28	6.2	5.0	300	29	5.8	4.5	311
3.6 „ .	24	5.8	4.3	074	14	4.8	4.0	093	12	6·4	3.9	284	4	8.9	3.8	264	26	7.1	6.1	297	28	6.8	5.9	317
4.5 „ .	22	5.6	5.0	072	6	6.8	5.9	080	7	5.1	3.3	310	2	3.6	0.3	180	17	9.8	7.8	292	26	10.1	9.5	301
5.4 „ .	14	6.3	5.3	065	2	8.5	8.5	082	6	7.9	7.6	294	1	0.5	0.5	335	10	14.1	12.5	285	17	14.4	13.8	288
6.0 „ .	11	7.6	6.1	045	1	3.6	3.6	100	5	10.1	9.2	301					5	15.1	14.1	280	16	14.7	13.8	282
7.2 „ .	7	7.1	5.0	069					3	16.6	15.5	302					2	18.5	16.5	283	8	20.3	19.5	278
9.0 „ .	3	9.8	2.4	010																	1	19.0	19.0	300

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station	DUM DUM																GADAG							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0.3	0.2	099	29	1.5	0.6	296	29	0.3	0.1	232	29	1.0	0.5	184	29	3.7	3.0	123	29	3.3	2.7	089
0.15 a. g.	29	3.7	2.2	273	29	2.6	1.1	305	29	2.3	2.0	262	29	4.5	2.7	216	29	7.8	6.8	123	29	5.1	4.4	083
0.3 a. m. s. l.	29	3.9	2.3	275	29	2.7	1.4	304	29	3.2	2.2	264	29	3·6	1.6	242								
0.6 ,,	29	3.5	1.3	288	29	3.1	1.9	292	29	3.1	2.1	267	29	3.4	1.4	281								
0.9 ,,	29	3.6	2.2	292	29	3.5	2.2	290	29	3.5	2.6	280	29	4.0	2.5	295	29	8.4	7.6	115	29	5.1	4.4	079
1.5 ,,	29	4.4	4.0	291	29	5.5	4.4	290	29	4.2	3.6	298	29	6.7	5.9	299	29	6.4	5.5	068	29	5.0	4.6	081
2.1 ,,	29	7.1	5.3	298	29	7.7	6.9	298	29	6.5	5.9	303	28	8.4	7.4	297	29	5.5	4.5	058	29	5.5	4.8	080
3.0 ,,	29	8.8	8.2	297	28	10.1	9.4	307	29	9.1	7.8	300	27	9.9	9.6	307	28	4.5	3.5	065	29	5.0	4.5	064
3.6 ,,	29	10.0	9.7	295	26	11.4	10.8	303	29	10.7	10.0	294	11	8.5	8.2	302	27	4.4	2.1	052	29	5.9	4.5	052
4.5 ,,	29	10·8	10.7	289	25	12.9	12.5	295	29	10.9	10.6	287	3	7.7	6.8	296	22	6.2	2.4	033	28	6.5	4.5	028
5.4 ,,	29	12.4	11.8	285	24	15.5	14.9	289	29	13.6	12.9	285	1	12.9	12.9	290	11	6.4	4.0	327	28	6.4	4.2	020
6.0 ,,	29	12.9	12.6	284	21	16.9	16.2	290	29	14.6	14.1	284					8	8.2	5.9	322	28	7.5	4.1	352
7.2 ,,	29	17.9	16.7	273	11	22.4	21.3	280	27	16.6	15.7	279					1	6.2	6.2	320	24	9.2	6.2	292
9 0 ,,	22	20.8	19.8	272	2	32.6	32.6	273	26	21.2	21.1	282									19	13.6	10.8	277

Station	GADAG				GANNAVARAM												GAUHATI							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	3.7	2.8	099	29	1.0	0.9	062	29	2.7	2.6	125	29	1.4	1.1	241	29	0.6	0.5	071	29	1.7	1.3	041
0.15 a. g.	29	8.8	6.9	090	28	2.9	1.6	123	29	3.1	2.9	120	29	4.9	4.6	150	29	3.0	2.2	082	29	2.5	2.0	035
0.3 a. m. s. l.					26	3.0	2.3	137	29	3.3	3.1	122	29	5.1	4.8	140	29	3.1	2.2	085	29	2.7	2.0	041
0.6 ,,					26	4.2	3.5	128	29	3.3	2.9	112	29	5.1	4.6	126	29	2.9	1.7	086	29	2.6	1.0	029
0.9 ,,	29	9.0	7.3	090	25	4.6	3.7	109	29	3.7	2.9	095	29	5.1	4.0	098	29	3.2	0.7	143	29	3.2	0.1	279
1.5 ,,	29	7.2	5.8	089	24	6.1	4.8	064	29	5.1	3.9	060	29	5.7	4.5	046	29	4.8	2.1	253	29	5.8	3.2	227
2.1 ,,	29	5.3	4.2	077	24	7.0	5.5	054	29	5.7	4.1	039	29	6.5	4.4	037	29	6.3	3.3	258	29	7.3	4.7	236
3.0 ,,	29	5.1	3.9	061	22	5.4	3.4	037	29	5.3	2.6	018	29	4.6	1.9	035	29	8.1	6.0	267	26	9.5	6.9	259
3.6 ,,	28	5.0	3.4	056	21	5.5	2.6	024	29	5.1	2.4	005	25	5.0	2.6	342	29	11.0	9.4	273	26	11.0	8.7	269
4.5 ,,	25	6.2	2.7	037	18	5.4	1.9	338	29	5.7	3.2	329	23	5.5	2.9	312	29	14.9	13.3	283	22	12.9	12.1	273
5.4 ,,	13	8.1	6.5	330	16	7.5	4.2	301	28	7.2	4.6	299	17	7.2	4.1	320	29	17.3	16.9	277	21	15.4	14.9	276
6.0 ,,	11	9.0	7.9	326	14	9.6	5.9	294	28	9.3	6.7	298	13	8.3	4.4	295	29	19.2	18.6	279	19	16.7	16.4	280
7.2 ,,	1	3.1	3.1	320	12	11.4	8.6	275	28	11.1	9.8	290	1	12.4	12.4	265	29	22.2	21.7	275	16	19.4	18.8	281
9.0 ,,					6	15.9	14.4	249	23	17.3	16.1	276					28	32.4	31.4	273	9	24.8	23.6	270

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station	GAUHATI								GAYA												GOPALPUR			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	1.0	0.7	044	29	0.5	0.3	080	29	2.3	1.0	190	29	2.5	2.1	323	29	0.9	0.5	199	29	1.7	1.6	329
0.15 a. g.	29	3.5	1.9	033	29	2.7	1.2	117	29	4.7	2.9	246	29	5.1	4.4	312	29	4.3	2.4	311	28	3.5	1.9	254
0.3 a. m. s. l.	29	3.5	1.7	038	29	2.7	1.0	110	29	4.5	3.0	258	29	5.3	4.5	310	29	4.3	2.9	311	28	2.6	2.6	230
0.6 ,,	29	2.7	0.6	045	29	2.6	0.9	095	29	4.3	2.8	298	29	5.3	4.6	302	29	5.6	4.1	307	29	4.1	2.9	227
0.9 ,,	29	2.8	0.4	222	29	2.5	0.5	223	29	4.8	3.6	301	29	5.6	4.6	296	29	6.3	5.3	301	29	3.2	0.7	237
1.5 ,,	29	4.5	2.9	246	29	4.4	2.7	257	29	6.8	5.3	297	29	6.8	5.9	277	29	7.4	6.2	289	29	4.2	2.9	004
2.1 ,,	29	7.2	6.0	242	27	5.8	3.4	247	28	9.6	5.9	299	29	9.0	8.3	282	27	8.4	7.4	294	29	5.6	4.1	003
3·0 ,,	29	9.3	6.8	246	18	5.4	3.2	265	18	11.8	10.8	295	25	11.9	10.5	293	11	8.9	7.3	300	29	5.4	4.4	349
3·6 ,,	29	10.7	8.9	273	1	5.1	5.1	035	9	13.3	13.0	298	23	14.9	13.7	292	5	10.5	9.5	324	29	5.6	4.2	328
4.5 ,,	29	14.8	14.2	275					1	10.8	10.8	295	16	16.0	15.4	287	1	16.0	16.0	335	29	5.8	4.9	293
5.4 ,,	29	18.4	18.1	279									15	16.5	16.0	287					28	8.0	6.6	288
6.0 ,,	29	19.3	18.7	283									12	18.1	17.7	284					24	9.3	7.7	289
7.2 ,,	29	23.3	22.0	281									2	17.8	17.7	289					14	12.7	12.0	267
9.0 ,,	27	31.9	30.8	278																	1	28.3	28.3	265

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	5.0	4.1	176	29	2.8	2.7	215	29	0.7	0.2	264	29	1.4	1.2	287	29	0.8	0.2	208	29	2 5	2.2	340
0.15 a. g.	29	5.8	5.0	174	29	6.5	6.2	210	29	4.4	3.2	305	29	4.2	3.8	285	29	4.5	1.6	350	29	3.9	3.6	339
0.3 a. m.s. l.	29	6.0	5.0	170	29	6.2	6.0	205	29	4.6	3.3	305	29	4.7	4.3	285	29	3.5	1.0	319	29	3.7	3.3	339
0.6 ,,	28	4.3	3.0	170	29	5.1	4.4	197	29	4.8	4.0	302	29	5.7	5.2	284	29	5.0	2.8	355	29	4.4	3.9	332
0.9 ,,	27	3.2	0.6	207	28	3.6	2.0	191	29	5.0	4.2	302	29	6.1	5.5	285	29	5.0	3.2	333	29	4.3	3.8	319
1 5 ,,	29	4.9	3.7	324	29	4.4	2.9	350	29	6.9	5.4	303	29	7.4	6.6	290	29	6.1	5.4	307	29	5.3	4.8	294
2.1 ,,	29	6.0	5.2	330	28	5.6	4.7	332	29	8.7	7.2	299	29	9.9	8.8	295	29	7.6	6.7	301	29	7.9	7.0	292
3.0 ,,	28	6.2	5.5	323	29	5.8	4.3	326	25	10.4	9.8	294	28	13.3	12.4	302	29	10.1	9.0	293	29	10.8	9.5	293
3.6 ,,	27	6.3	5.2	314	23	6.4	5.1	317	14	13.2	12.9	301	27	15.1	14.6	303	29	11.4	9.8	292	29	11.5	10.1	289
4.5 ,,	27	7.4	6.0	304	5	7.2	5.9	304	7	11.9	11.8	303	26	15.4	15.0	298	27	12.6	11·1	284	28	13.4	12.3	286
5·4 ,,	27	9.3	7.5	296	3	11.7	9.1	295	6	14.2	13.9	297	24	17.3	16.8	295	23	13.7	12.3	286	25	15.4	14.3	289
6.0 ,,	27	11.2	9.9	284	2	7.5	6.0	325	4	17.2	16.9	298	20	18.1	17.3	295	21	14.6	13.0	289	24	16.5	15.1	291
7.2 ,,	26	14.2	14.1	275					1	18.0	18.0	310	12	17.9	16.1	295	18	18.6	17.2	285	21	19.2	17.1	286
9.0 ,,	21	23.6	22.7	271									10	21.6	19.0	297	8	21.0	19.1	281	11	22.6	20.8	282

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station	GWALIOR				IMPHAL												JABALPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	0 8	0.5	213	29	0.2	0.1	298	29	2.0	1.6	248	29	0.3	0.3	192	29	1.1	0.9	139	29	1.2	0.8	343
0.15 a. g. . .	29	4.3	2.6	013	28	1.0	0.4	172	29	4.5	3.8	252	27	1.3	0.3	112	29	3.4	1.3	138	29	2.8	1.9	328
0.3 a.m. s. l. .	29	3.8	2.0	016																				
0.6 „ .	29	4 2	2.9	352													29	4.2	1.3	108	29	2.9	2.0	327
0.9 „ .	29	4.4	3.3	317	28	1.0	0.8	192	29	4.1	3.4	252	27	1.3	0.6	112	29	4.5	1.3	022	29	3.4	2.5	326
1.5 „ .	29	6.1	4.9	290	28	2.6	0.6	266	29	5.5	4.5	252	27	3.3	2.4	252	29	5.5	3.6	320	29	4.8	3.9	308
2.1 „ .	29	7.6	6.5	293	27	5.3	3.3	257	29	5.9	5.0	242	27	5.8	4.6	249	29	7.2	5·6	308	29	6.5	5.6	309
3.0 „ .	29	9.5	8 2	288	27	8.0	6.6	253	23	7.5	6.5	247	22	8·0	6.8	271	29	8.4	6.3	307	29	7.7	6.4	306
3·6 „ .	24	10.2	8.6	290	17	9.8	8.9	272	13	9.5	9.1	266	14	10.2	9.8	271	29	8.6	6.6	298	29	8.4	7.3	299
4.5 „ .					11	11.2	10.9	274	5	18.1	17.8	278	3	7.6	7.5	272	24	8.7	7.8	301	29	11.0	9.7	291
5.4 „ .					6	12.5	12.2	275	4	27.2	27.1	279	3	9.4	9.2	273	20	10.2	8.5	294	29	13.7	12.3	287
6.0 „ .					3	12.9	11.5	285	3	22.1	22.1	282	3	13.5	13.0	269	18	11.4	10.0	283	27	16.0	14.5	283
7.2 „ .					1	10.3	10.3	255	2	28.8	10.7	274					9	14.1	12.8	273	24	19.8	18.3	285
9.0 „ .					1	24.2	24.2	255									3	14.8	12.9	270	11	25.5	23.4	283

Station	JABALPUR				JAGDALPUR												JAIPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	0.9	0.7	135	29	0.1	0.1	180	29	1.2	0.5	023	29	0.3	0.1	218	29	1.5	1.0	007	29	1.6	1.2	300
0.15 a.g. .	29	4.2	1.9	037	29	3.0	0.5	138	29	3.2	1.4	046	29	4.8	1·2	087	29	4.3	2 5	033	29	3.1	2.3	299
0.3 a. m. s. l. .																								
0.6 „ .	29	4.6	2.2	029	29	1.2	0.1	162	29	2.0	0.9	055	29	3.3	0.8	101	29	4.4	2 0	015	29	3.2	2.2	285
0.9 „ .	29	4.7	2.7	011	29	4·3	0.4	086	29	3.4	1.4	037	29	4 9	1 3	062	29	3.3	1.5	314	29	3.2	2.7	278
1.5 „ .	29	4 3	3.3	320	29	4.7	2.5	028	29	3.3	1.4	004	29	3 4	1.7	351	29	5.1	4 3	295	29	4.2	3.6	303
2.1 „ .	29	6.4	5.0	302	29	5.0	3.4	001	29	4.0	2.2	358	28	3.6	2.0	348	29	6.7	5.8	290	29	6.6	5.1	302
3.0 „ .	29	7.5	5.7	297	29	5.7	4.3	003	29	4.6	3.0	350	28	4.9	3.3	336	29	8.9	7.7	283	29	8.6	7.7	291
3.6 „ .	25	7.2	5.5	292	29	5.3	3.0	348	29	5.0	3.6	030	21	5.3	4.1	324	26	9.9	8.9	288	29	11.0	10.1	292
4.5 „ .	6	7.3	6.0	299	26	5.5	3.4	311	29	7.2	5.7	301	5	5.3	3.5	299	12	11.4	11.0	270	26	12.4	10.7	287
5.4 „ .					19	7.3	5.8	311	27	9.5	7.5	297	1	6.7	6.7	265	3	11.7	10.4	268	24	14.4	12.7	287
6.0 „ .					15	8.6	6.7	293	26	12.7	10.7	299					1	9.3	9.3	290	23	16.0	14.5	284
7.2 „ .					10	11.8	10.0	294	20	13.5	12.1	285									22	19.9	18.8	282
9·0 „ .									11	19.4	18.0	278									9	20.9	17.5	287

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station	JAIPUR				JAMSHEDPUR								JHARSUGUDA											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	1.4	1.2	004	29	1.0	0.8	287	29	1.4	1.0	284	29	1.6	1.4	030	29	1.5	0.9	250	29	1.1	0.1	344
0·15 a. g.	29	5.1	2.0	335	29	2.4	1.8	291	29	2.3	1.4	290	29	4.8	3.3	046	29	3.4	2.2	243	29	3.9	1.5	266
0·3 a. m.s.l.					29	2.4	1.4	312	29	2.3	1.4	290	29	4.1	3.7	033	29	3.2	2.1	243	29	3.2	1.0	255
0·6 ,,	29	4.6	1.7	328	29	3.2	1.3	354	29	3.0	2.3	299	29	5.0	2.4	023	29	3.1	2.3	261	29	4.4	2.1	295
0·9 ,,	29	3.5	1.9	228	29	3.8	2.5	333	29	3.1	2.6	290	29	4.8	2.3	338	29	3.3	2.4	272	29	4.3	2.7	295
1·5 ,,	29	3.9	3.1	307	29	5.5	4.6	304	29	4.9	4.3	297	29	5.0	4.1	309	29	4.7	3.8	306	29	4.6	3·3	300
2·1 ,,	29	5.9	4.7	294	29	8.4	7.6	302	29	7.8	7.0	298	29	6.6	5.6	310	29	7.2	6.0	320	29	5.9	4.4	317
3·0 ,,	29	8.2	7.5	341	25	10.9	10.1	306	29	10.0	9.1	300	27	7.4	6.5	323	29	7.7	6.6	312	27	7.3	6.4	321
3·6 ,,	28	9.8	8.3	291	9	11.8	11.2	302	29	11.3	10.6	297	21	8.0	5.7	303	28	8.7	7.9	308	24	7.5	6.8	310
4·5 ,,	13	11.1	10.6	290	2	12.9	11.0	304	27	13.4	12.6	292					24	9.9	9.3	297				
5·4 ,,	5	12.8	11.7	290	1	11.3	11.3	005	26	16.2	15.3	290					6	12.7	12.4	278				
6·0 ,,	3	15.8	15.1	270					25	18.6	17.4	285												
7·2 ,,	1	20·1	20.1	290					20	24.3	24.0	285												
9·0 ,,									7	21.8	21.1	276												

Station	JODHPUR																MADRAS							
Time in I. S. T.	0530*				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	2.4	2.3	027	29	1.6	0.6	031	29	2.3	1.2	345	29	2.4	1.5	009	29	1.5	0.6	026	29	3.8	2.9	061
0.15 a. g.	27	6.1	5.0	038	29	2.9	1.2	076	29	4.8	3.5	004	29	5.3	2.9	014	28	5.6	4.8	080	29	3·9	3.0	065
0.3 a.m.s.l.	27	5.0	4.1	032	29	2.6	1.3	048	29	4.3	3.1	002	29	4.6	2.5	007	28	5.4	4.6	079	29	4·0	3.1	066
0.6 ,,	27	5.4	3.7	024	29	3.0	1.0	068	29	3.7	2.5	337	29	5.0	2.7	011	28	4.8	3.9	083	29	4.4	3.2	058
0.9 ,,	27	4.4	1.9	336	29	3.4	0.9	025	29	2.8	1.9	316	29	4.3	2.0	005	27	5.7	4.6	080	29	4.9	3.9	058
1.5 ,,	27	4.3	2.8	283	29	3.4	1.5	297	29	3.5	2.2	312	29	3.7	1.6	268	28	6.3	5.3	074	26	6.7	6.0	067
2.1 ,,	28	4.9	3.9	281	29	5.1	3.7	270	29	4.1	2.8	281	29	4.8	2.9	268	28	6.8	5.1	067	24	7.5	6.7	079
3.0 ,,	28	6.8	5.8	275	29	7.1	5.7	269	29	6.7	5.3	271	28	7.5	5.5	277	27	6.1	5·2	071	22	5.7	4.8	083
3.6 ,,	28	8.3	6.8	272	29	8.5	6.8	269	29	7.7	6.9	275	8	8.5	8.0	286	28	5.8	4·8	082	22	5.4	4.6	080
4.5 ,,	28	10.8	9.3	277	27	10.7	8.6	271	27	10.3	8.4	282	3	10.1	9.5	279	29	5.7	3·1	074	22	5.0	3.7	068
5.4 ,,	27	13.7	12.1	276	26	11.9	10.2	278	28	12.7	11.2	281					27	6.2	3·1	067	21	5.5	2.7	053
6.0 ,,	26	15.1	13.5	277	27	13.5	12.3	278	28	15.0	13.5	282					27	6.4	3·0	022	21	6.2	2.1	052
7.2 ,,	25	19.7	18.3	274	21	16.6	15.5	275	27	20.9	19.5	277					26	8.8	4·8	328	17	7.8	4.6	334
9.0 ,,	21	28.2	26.3	271	13	21.6	20.8	273	23	29.3	29.1	278					22	8.3	5·1	290	10	6.3	1.6	288

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station	MADRAS								MINICOY												MOHANBARI			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	4·7	4·7	083	29	1·6	1·1	047	29	1·6	1·0	003	29	2·5	1·7	009	29	1·9	1·2	019	29	0·9	0·7	053
0·15 a.g.	27	8·3	7·7	082	29	4·6	3·8	071	29	3·4	1·9	005	29	4·2	3·1	021	29	3·2	2·3	0.9	26	4·6	4·3	057
0·3 a. m. s. l.	28	7·5	6·7	080	29	5·3	4·5	075	29	3·2	2·1	018	29	4·4	3·7	025	29	3·2	2·3	025	26	4·7	4·4	057
0·6 ,,	28	6·0	4·9	068	29	5·6	4·9	075	29	3·4	2·2	037	29	4·6	4·0	034	29	3·8	2·8	043	26	4·3	4·1	052
0·9 ,,	28	6·3	5·3	063	29	6·1	5·5	075	29	4·4	3·8	079	29	5·2	4·6	047	29	4·6	4·1	064	26	3·3	2·4	056
1·5 ,,	28	6·6	5·4	064	27	6·6	5·3	067	29	5·9	5·5	083	29	5·9	5·4	061	29	6·5	6·0	077	25	1·9	0·3	101
2·1 ,,	28	6·3	4·7	058	26	5·7	4·3	065	28	5·8	5·5	087	28	5·3	4·6	070	28	6·5	6·2	081	25	6·3	1·9	229
3·0 ,,	29	5·5	3·5	054	24	4·9	3·9	071	28	5·3	4·1	085	26	6·0	4·6	072	28	5·7	4·8	070	19	5·0	3·7	240
3·6 ,,	28	5·3	3·7	057	13	4·9	4·3	056	24	5·3	4·0	085	24	6·3	4·7	076	18	5·8	4·1	050	14	4·6	3·3	226
4·5 ,,	27	5·3	2·2	063	6	4·5	3·2	071	18	5·8	5·1	089	23	6·6	5·6	078	14	5·4	4·3	077	7	7·6	5·7	267
5·4 ,,	25	5·6	1·5	022	3	5·0	4·1	038	11	7·6	7·3	075	17	7·7	6·8	078	2	3·1	3·1	095	5	9·8	9·1	287
6·0 ,,	25	6·6	3·0	003	1	7·7	7·7	010	8	7·9	7·4	079	14	10·1	7·8	071	1	3·1	3·1	215	3	11·3	10·9	302
7·2 ,,	24	8·4	4·9	330									6	7·3	2·2	085					2	8·2	7·8	280
9·0 ,,	18	10·6	7·2	283									5	7·9	6·9	251								

Station	MOHANBARI								NAGPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	6·9	0·7	038	29	0·6	0·3	011	29	0·7	0·7	338	29	1·1	0·5	062	29	1·3	0·5	216	29	1·2	0·4	027
0·15 a.g.	29	2·7	2·1	033	27	3·5	3·0	047	29	4·8	2·7	059	29	2·0	0·4	054	29	3·1	1·0	029	29	5·7	3·3	101
0·3 a. m. s. l.	29	2·8	2·2	034	27	3·4	3·0	047																
0·6 ,,	28	2·8	2·2	055	28	2·9	2·4	059	29	4·4	2·2	064	29	2·5	0·7	090	29	3·1	1·0	016	29	5·4	2·7	114
0·9 ,,	28	2·6	1·6	071	28	2·6	1·9	079	29	4·9	0·8	142	29	2·8	0·3	173	29	2·4	0·7	015	28	4·3	1·4	123
1·5 ,,	28	3·1	1·8	237	28	2·4	0·4	159	29	4·8	1·2	296	28	4·1	1·1	291	29	3·8	1·4	335	29	4·4	1·5	336
2·1 ,,	28	5·9	5·3	229	27	4·5	3·3	238	28	5·3	2·9	323	28	5·3	2·9	329	29	5·6	2·5	330	29	4·8	2·5	333
3·0 ,,	26	6·2	5·3	222	21	5·6	4·9	248	28	6·4	4·3	316	28	6·3	3·8	319	29	5·7	3·5	326	29	5·2	3·0	315
3·6 ,,	23	5·1	3·2	219	12	3·9	2·2	248	29	6·8	5·0	311	28	7·1	4·9	313	29	5·9	4·6	305	16	6·5	5·7	296
4·5 ,,	21	6·5	4·3	260	1	5·1	5·1	305	29	8·2	5·9	292	27	9·5	7·1	297	28	7·8	6·3	292	4	6·3	5·3	296
5·4 ,,	17	9·6	7·8	270					29	11·2	9·2	289	28	11·1	8·9	290	28	10·8	9·4	289	1	1·5	1·5	315
6·0 ,,	15	10·1	9·3	270					29	13·5	11·7	285	28	12·7	10·6	287	28	12·7	11·1	285				
7·2 ,,	9	13·5	13·1	283					28	19·3	16·2	278	25	20·2	17·7	283	28	18·6	16·5	283				
9·0 ,,	5	24·4	24·1	286					24	23·9	21·8	279	18	23·8	21·7	282	26	24·0	22·2	271				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station	NANPARA								NEW DELHI															
Time in I.S.T.	0530				1730				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0·7	0·5	280	29	1·5	1·4	285	29	2·1	1·8	304	29	3·4	3·1	315	29	2·1	2·0	322	29	2·5	2·3	318
0·15 a.g.	29	4·5	3·3	316	29	4·7	4·3	296	29	6·0	5·3	324	29	4·1	3·3	310	29	5·7	5·1	320	28	6·6	6·0	338
0·3 a. m.s.l.	29	4·5	3·3	314	29	4·7	4·3	293	29	5·7	4·8	324	29	3·8	3·2	311	29	5·6	5·1	314	29	6·0	5·3	337
0·6 ,,	29	5·3	4·4	305	29	5·5	5·1	290	29	6·2	5·5	323	29	5·3	4·4	300	29	5·4	4·9	318	29	6·6	6·2	333
0·9 ,,	29	6·2	5·2	304	29	5·8	5·3	291	29	6·6	6·0	329	29	6·2	5·8	311	29	5·1	4·7	319	29	6·7	6·4	318
1·5 ,,	29	7·8	6·9	302	29	7·9	6·9	290	29	7·9	7·5	310	29	6·6	6·2	311	29	6·1	5·9	310	28	7·8	7·5	300
2·1 ,,	29	9·7	8·8	298	29	9·7	8·3	296	29	8·6	8·0	305	29	7·4	6·6	304	29	7·2	6·5	306	28	8·1	7·4	299
3·0 ,,	27	11·8	10·9	302	28	11·4	11·0	302	29	9·6	9·1	302	29	9·7	8·3	287	29	9·1	8·2	302	23	9·3	8·6	298
3·6 ,,	24	14·0	13·2	299	28	13·8	13·3	306	29	10·7	9·8	299	29	11·3	10·1	288	29	10·5	9·6	300	5	7·9	7·4	289
4·5 ,,	14	15·4	14·5	305	27	15·7	15·1	301	28	13·0	11·8	292	29	14·3	12·7	284	29	12·7	11·8	297	1	7·2	7·2	290
5·4 ,,	9	15·5	14·6	294	26	17·5	16·4	299	28	14·6	13·5	288	25	15·6	14·3	285	29	15·0	14·4	294	1	10·3	10·3	280
6·0 ,,	5	14·8	14·6	297	21	18·7	17·8	292	28	15·6	14·4	286	25	18·0	16·6	285	29	16·4	15·4	290	1	8·2	8·2	280
7·2 ,,	3	17·5	16·7	300	16	21·8	20·6	288	28	21·1	19·4	283	18	20·1	19·7	284	29	18·9	17·8	286				
9·0 ,,					5	24·0	22·1	307	27	28·8	27·0	278	6	30·9	28·4	289	28	29·9	27·8	283				

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0·1	0·1	225	29	0·9	0·4	290	29	0·3	0·3	264	29	1·5	1·2	063	29	3·1	2·8	059	29	2·4	2·2	060
0·15 a.g.	29	2·6	1·4	101	29	2·5	0·6	032	29	3·8	1·4	309	29	5·1	4·4	054	29	4·9	4·6	053	29	5·8	4·8	063
0·3 a. m.s. l.													29	5·1	4·5	059	29	5·3	4·8	055	29	5·7	4·7	061
0·6 ,,	29	1·4	0·9	208	29	2·1	0·5	016	29	2·0	1·1	258	29	5·7	4·9	072	29	5·6	4·7	069	29	6·0	5·1	062
0·9 ,,	29	4·5	2·7	085	29	3·0	0·9	027	29	4·7	1·7	348	29	6·5	5·4	089	28	6·4	4·8	082	28	6·4	4·6	064
1.5 ,,	29	5·5	3·6	099	29	3·2	0·8	052	29	4·7	2·3	069	29	7·4	6·1	095	27	7·2	6·1	093	29	7·0	5·5	097
2·1 ,,	29	4·5	3·1	113	29	2·9	0·9	094	29	5·0	3·5	098	29	7·6	6·0	101	25	7·2	5·9	099	29	6·5	4·9	094
3·0 ,,	29	4·7	1·3	065	29	4·5	1·4	076	29	5·3	3·4	100	29	4·8	2·8	102	20	5·5	2·8	078	29	5·5	2·7	078
3·6 ,,	26	5·2	2·4	292	29	5·6	3·5	121	24	5·7	1·4	030	28	5·5	2·0	089	19	6·0	2·7	050	29	5·8	2·3	057
4·5 ,,	14	6·1	3·2	291	29	6·4	2·6	337	12	5·7	2·9	299	28	5·8	2·2	065	16	5·7	2·5	055	29	5·0	1·7	034
5·4 ,,	5	5·1	3·0	304	29	8·5	6·3	308	8	7·3	5·8	289	28	5·9	0·6	327	15	5·3	1·3	051	28	4·9	0·9	254
6·0 ,,	1	6·7	6·7	270	29	10·9	8·8	301	3	11·7	9·2	289	26	5·3	1·4	285	15	5·4	0·8	043	28	4·9	1·4	279
7·2 ,,	1	11·8	11·8	230	26	14·6	12·3	253					26	6·1	2·1	290	12	8·3	1·0	069	26	7·8	2·8	256
9·0 ,,					18	20·8	19·4	274					19	6·7	1·2	260	8	6·2	1·2	130	17	5·6	2·4	230

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	2·3	2·0	060	29	1·4	0·5	077	29	1·1	0·5	295	29	1·6	0·3	296	29	0·3	0·1	119	29	0·6	0·5	243
0·15 a. g.	29	4·9	4·5	051	29	4·2	2·1	059	29	2·7	1·5	311	29	4·0	1·2	286	27	4·2	2·2	104	29	3·4	2·7	261
0·3 a. m.s. l.	29	5·2	4·8	054													27	4·3	1·4	103	29	3·7	3·0	264
0·6 „	28	5·9	5·3	060	29	4·3	1·6	045	29	3·0	1·6	309	29	3·7	1·2	293	27	3·4	1·1	260	29	3·7	3·4	268
0·9 „	27	6·3	5·1	069	29	3·4	1·1	357	29	3·2	1·9	305	29	3·2	1·5	287	27	3·4	1·3	267	29	4·6	3·7	260
1·5 „	25	5·9	4·2	089	29	4·1	2·3	318	29	4·1	2·7	307	29	3·7	2·3	314	26	4·5	3·4	276	28	5·4	3·2	265
2·1 „	23	4·8	2·3	103	29	5·2	3·1	323	29	5·3	3·6	323	29	4·6	2·9	326	24	6·7	4·4	285	27	6·9	4·3	290
3·0 „	19	5·0	2·2	080	28	5·7	4·1	329	29	5·3	3·8	325	28	4·9	3·7	323	20	10·3	9·2	289	26	10·7	9·7	293
3·6 „	14	4·9	1·4	016	24	6·1	4·4	316	29	7·1	5·1	309	22	6·5	5·0	306	14	13·9	13·6	293	26	14·6	14·0	290
4·5 „	8	6·9	1·3	321	8	6·1	5·6	295	29	9·7	8·6	295	6	8·6	7·2	324	8	17·9	17·8	296	21	15·2	15·0	288
5·4 „	2	6·7	4·4	085					26	12·6	11·4	288	2	8·0	7·7	321	2	16·7	16·7	295	15	16·9	14·4	287
6·0 „	1	9·8	9·8	065					26	14·8	13·3	285	1	10·3	10·3	245					11	17·6	17·3	285
7·2 „									12	21·4	19·1	284									3	17·5	16·8	295
9·0 „									3	31·3	29·4	276												

Station	SANTA CRUZ																TEZPUR							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0·6	0·5	030	29	1·6	0·7	088	29	3·8	3·1	305	29	1·6	1·3	014	29	0·6	0·5	077	29	0·7	0·5	069
0·15 a. g.	29	4·9	4·0	027	29	2·4	1·3	088	29	6·6	5·8	310	29	6·4	4·1	003	29	5·4	4·8	069	29	4·5	3·4	070
0·3 a. m. s. l.	29	4·8	3·7	030	29	3·1	2·2	091	29	5·7	4·8	310	29	5·7	4·8	350	29	5·8	5·2	079	29	4·8	3·9	073
0·6 „	29	5·8	3·6	035	29	4·4	3·1	086	29	3·8	2·7	315	29	6·4	5·5	349	29	4·5	4·0	088	29	4·3	2·9	079
0·9 „	29	5·3	3·1	044	28	4·7	3·1	090	29	3·4	1·2	335	29	5·6	4·5	351	29	3·5	2·4	102	29	3·2	1·2	084
1·5 „	29	4·7	2·1	089	28	3·9	1·8	097	29	3·8	1·4	085	29	3·7	1·7	029	29	3·2	1·3	206	29	4·6	2·9	245
2·1 „	29	5·1	2·6	139	28	4·1	1·3	138	29	5·3	2·0	100	29	5·0	3·2	101	29	4·7	3·1	243	28	7·1	5·8	242
3·0 „	29	4·9	1·6	136	29	5·4	0·1	048	29	6·2	2·1	060	28	5·8	2·9	099	27	7·5	4·7	256	26	9·2	7·5	234
3·6 „	27	6·9	1·9	275	29	6·8	1·9	323	29	6·1	2·0	005	20	5·8	1·4	282	21	8·2	4·4	261	24	9·1	6·9	245
4·5 „	26	7·7	4·4	285	29	8·0	4·0	299	29	7·1	2·7	310	10	7·3	3·2	267	14	10·0	7·7	274	20	10·8	8·9	266
5·4 „	26	8·9	4·5	281	28	9·3	6·5	287	29	8·1	5·7	300	3	8·2	8·2	259	9	9·7	9·5	273	14	12·8	9·8	277
6·0 „	26	11·6	8·6	285	28	10·6	8·1	286	29	9·7	7·5	295	2	12·6	11·5	277	5	10·0	9·2	271	9	10·7	9·4	279
7·2 „	26	17·3	14·2	284	26	14·3	12·0	273	29	14·5	13·0	285					1	12·4	12·4	270	1	18·0	18·0	265
9·0 „	24	20·8	16·0	274	11	20·6	18·7	260	24	20·6	19·5	275												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station	TEZPUR				TIRUCHIRAPALLI												TRIVANDRUM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	0·8	0·7	069	29	2·2	1·9	042	29	5·3	4·9	082	29	3·0	2·5	077	29	1·5	1·1	027	29	1·1	0·5	281
0·15 a. g. .	28	6·3	5·6	076	29	6·6	6·1	035	29	6·8	6·6	077	29	7·8	7·0	073	29	2·5	1·4	021	29	1·8	0·7	332
0·3 a. m.s. l. .	28	6·0	6·3	083	29	6·7	6·3	040	29	6·5	6·3	074	29	8·6	7·7	073	29	2·5	1·4	022	29	2·6	0·6	331
0·6 ,, .	28	4·1	3·0	094	29	7·0	6·4	054	29	6 7	6·4	067	29	8·7	8.1	067	29	2·4	1·6	055	29	2·0	1·2	006
0·9 ,, .	28	2·9	1·1	231	29	6·7	6·0	061	29	7·1	6·8	058	29	8·2	7·7	057	29	3·2	2·7	056	29	2·7	2 0	040
1·5 ,, .	28	4·5	3·7	250	27	6·3	5·5	066	29	7·6	7·3	050	29	7 3	6·3	056	29	5·1	4·5	064	28	5·3	4 9	062
2·1 ,, .	26	6·2	4·9	254	26	7·1	6·4	071	29	7·5	6·7	051	29	7·0	6·0	063	29	5·5	4·4	074	27	6·4	5·7	074
3·0 ,, .	22	6·1	4·1	245	25	6·7	5·9	073	28	6·7	5·8	070	27	6·5	5·6	071	29	5·1	4·3	092	21	5·6	4·8	078
3·6 ,, .	9	5·7	2·4	271	21	5·8	4·8	077	27	5.8	4·3	068	23	6·0	5·1	073	29	5·0	4 1	086	21	5·1	4·4	070
4·5 ,, .	3	5·5	5·3	251	21	6 1	5·0	075	25	5.8	4·4	062	11	4·9	3·6	069	29	5·3	4·4	082	15	6·3	5·9	074
5·4 ,,	2	7·7	7·7	263	17	6·7	4·9	061	22	5·9	3·3	056	2	4·1	4·1	037	29	6·9	6·0	080	12	8·1	7·7	072
6·0 ,, .	2	10·6	10·5	278	13	7·7	4·3	054	21	6·7	5·0	048					29	8·2	7·0	067	10	9·1	7·6	052
7·2 ,, .					4	5·3	3·9	017	13	8·3	5·7	005					29	9·0	5·3	051	6	8·4	5·3	013
9·0 ,, .					1	3·1	3·1	340	4	6·0	4·1	035					27	7·0	2·7	095	2	8·5	4·4	254

Station	TRIVANDRUM								UDAIPUR												VENGURLA			
Time in I. S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	2·1	1·4	249	29	1·5	0·8	021	29	0·2	0·1	352	29	1·0	0·1	221	29	0·2	0·2	335	29	0·7	0·7	005
0.15 a. g. .	28	3·2	2·4	250	28	2·8	0·8	311	29	2·6	2·0	010	29	2·7	2·0	143	29	2·6	1·4	350	29	3·6	2·7	035
0.3 a. m.s. l. .	28	3·2	2·4	291	28	2·9	0·9	302													29	4·1	2·6	031
0·6 ,, .	28	2·6	0·8	280	28	2·8	1·2	355													29	4·4	2·5	050
0·9 ,, .	28	3·5	2·5	051	28	3·9	3·0	045	29	3·3	1·9	014	29	3·2	3·0	223	29	3·8	1·6	359	29	5·4	3·3	083
1·5 ,, .	28	6·4	6·4	056	27	6·8	6·6	056	29	4·1	1·7	276	29	3·3	1·9	279	29	3·6	1·2	310	28	5·1	4·3	095
2·1 ,, .	28	7 2	6·7	062	26	6·4	5·5	068	29	5·8	4·2	253	29	4·5	3·7	279	29	3·8	2·1	271	28	4·8	4·3	084
3·0 ,, .	28	5·5	4·5	080	24	4·9	3·7	078	29	7·3	4·7	263	29	5·7	4·3	275	29	5·0	2·8	265	19	4·5	3·5	072
3·6 ,, .	28	4·6	3 8	079	17	4·1	2·8	076	28	8·2	6·1	275	29	6·5	4·2	274	28	6.0	3·9	287	19	5·2	1·7	078
4·5 ,, .	28	5·0	4·3	072	7	4·0	3·7	062	11	8·2	7·1	286	28	8·7	6·8	287	20	7·9	6·6	289	2	3·9	1·4	005
5·4 ,, .	28	5·5	4·3	080	2	9·8	9·3	057					28	11·4	9·8	287	13	10·7	9·5	281				
6·0 ,, .	28	7·7	5·9	081									27	12·7	11·2	287	8	13·5	12·4	276				
7·2 ,, .	28	8·5	4·5	045									26	17·9	16·4	282								
9·0 ,,	27	8·2	3·5	082									12	26·8	24·5	274								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Station	VENGURLA								VERAVAL															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	2.4	2·2	255	29	1.0	1.0	007	29	3.9	2.3	019	29	5.0	3.8	009	29	5.1	3.5	290	29	2.5	2.3	356
0.15 a. g. .	29	3.8	3.5	257	29	4.7	4.5	356	29	8.2	7.2	019	29	4.6	3.5	028	29	6.3	3.9	288	29	6.6	5.3	352
0·3 a. ms. l.	29	4·6	4·3	250	29	4.5	4.5	345	29	8.1	7.1	015	29	5.3	4.0	037	29	5.7	2.9	294	29	6.9	5.0	358
0·6 ,, .	29	3·7	3·1	255	29	4.2	4.0	341	29	5.9	3.7	357	29	5.2	3.4	043	29	5.0	1.7	328	29	6.2	4.0	170
0·9 ,, .	29	2.7	0.9	004	29	4.6	3.7	355	29	5.0	1.4	008	29	4.9	2.5	041	29	4.8	2.4	004	29	5.3	3.2	149
1·5 ,, .	29	5.1	4.3	060	29	6.1	4.2	064	29	4.6	1.0	181	29	4.4	0.3	188	29	4.6	2.3	030	29	4.3	1.4	063
2·1 ,, .	29	8.1	7.5	065	28	8.3	7.1	084	28	5.7	3.0	195	29	4.9	2.5	192	29	5.1	0.3	020	29	5.1	0.4	126
3·0 ,, .	29	8.1	6.8	074	28	7.5	6.3	083	29	6.5	1.7	211	29	6.4	2.1	208	29	6.7	1.2	257	29	6.2	1.6	182
3.6 ,, .	29	6.8	4.5	059	17	4·8	2.4	083	29	7.4	2.5	274	29	7.1	2.2	257	29	7.6	3.0	268	22	7.2	2.5	269
4·5 ,, .	29	6.2	3.7	025	2	3·3	2.3	035	28	9.3	6.6	272	29	8.5	4.6	275	29	9.9	6.4	277	18	8.5	5.9	269
5·4 ,, .	29	7.0	4.0	013					26	13.7	8.3	270	28	11·2	8.6	278	29	12.3	9.8	277	6	10.0	7.5	285
6·0 ,, .	29	7·4	4·7	354					22	14.9	14.1	281	28	13·4	11.3	277	29	14.0	10.8	275	2	10.8	6.5	321
7·2 ,, .	18	8·4	6·8	297					22	22.1	20.5	280	22	15·8	13.5	276	29	19.4	17.4	273				
9·0 ,, .	5	14·9	14.2	292					14	27.8	27 6	279	19	20.6	19.9	273	26	25.9	23.8	270				

Station	VISAKHAPATNAM											
Time in I.S.T.	0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D
Surface. . .	29	0.1	0.1	315	29	3.7	2.3	120	29	0.3	0.2	218
0.15 a. g. .	29	1.3	0.6	315	29	3.7	2.7	127	29	2.5	1.6	235
0.3 a. m. s. l. .	29	1.7	0.4	220	29	3.9	2.9	125	29	2.9	2.1	208
0.6 ,, .	29	2.3	0.4	186	29	3.9	2.2	108	29	3.5	2.1	173
0.9 ,, .	29	2.9	1.1	096	29	4.0	2.3	093	29	4·0	1.9	128
1.5 ,, .	29	4.8	3.3	327	29	5.2	2.8	017	27	5.0	2.4	036
2·1 ,, .	29	5.3	4.0	032	29	6.5	4.6	002	27	5.7	4.5	017
3 0 ,, .	28	5.3	3.1	012	29	5.6	3.9	351	26	4.9	3.4	355
3 6 ,, .	28	5.3	2.8	339	29	5.5	3.0	339	24	4.9	3.0	315
4 5 ,, .	26	5.2	3.2	293	29	6.7	4.6	308	18	6.1	3.8	305
5·4 ,, .	24	6.2	4.4	293	29	7.7	5.7	301	4	9.1	8.0	285
6·0 ,, .	21	9.1	7.2	281	29	9.5	7.5	294	1	5.1	5.1	330
7·2 ,, .	12	13.3	11.8	281	27	13.0	11.6	295	1	8.7	8.7	315
9 0 ,, .	3	13.6	13.5	263	16	16.3	15.1	273	1	11.8	11.8	315

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA			
	0530 hrs.			
10.5	1	16·5	16 5	290
	1730 hrs.			
10.5	2	29.8	29.8	260
12.0	1	34.4	34.4	250
	ANANTAPUR			
	0530 hrs.			
10.5	2	3.9	3.2	296
	1730 hrs.			
10 5	5	12.0	11.5	261
12.0	2	9.3	9.0	268
	BAIRAGARH			
	1730 hrs.			
10.5	3	26.1	25.1	290
12.0	2	38.8	38.6	275
	BAJPE			
	1730 hrs.			
10.5	5	14.0	13.4	256
12.0	5	13.7	12.8	245
14.1	3	3.8	2.7	255
16.2	3	6.0	6.0	094
18.0	2	3.6	2.0	033
21.0	1	26.7	26.7	235
	BAMRAULI			
	0530 hrs.*			
10.5	18	31.0	32.2	274
12.0	13	39.1	33.4	268
14.1	1	32.3	32.3	280
16.2	1	18.0	18.0	235
18.0	1	25.2	25.2	275
	1130 hrs.			
10.5	2	36.9	36 9	281
12.0	2	45.6	45.2	277
14.1	1	30.3	30.3	275
	1730 hrs.*			
10.5	24	36.4	34.6	272
12.0	12	38.9	33.5	264
14.1	4	35.8	35.7	262
16.2	1	9.8	9.8	255
18.0	1	9.8	9.8	270
	BANGALORE			
	1730 hrs.			
10.5	23	9.5	7.0	237
12.0	21	11.2	8.5	220
14.7	18	9.4	6.0	176
16.2	17	8.4	4.9	125
18·0	14	6.0	1.3	259
21.0	7	9.8	7.4	268
24.0	2	3.3	2.6	256
	BEGUMPET			
	0530 hrs.			
10.5	1	13.9	13.9	220
	1730 hrs.			
10.5	19	17.9	16.7	267
12.0	13	19.7	17.5	254
14.1	9	17.5	14.9	237
16.2	4	7.6	5.4	286
18.0	4	6.4	3.8	272
21.0	4	8.7	7.6	290
24.0	3	22.1	21.7	285
27.0	2	34.9	34.9	267
30.0	1	21.1	21.1	280
	BHAGALPUR			
	1730 hrs.			
10.5	2	25.2	24.1	284
	BHUBANESHWAR			
	1730 hrs.			
10.5	2	28.6	26.9	274
12.0	1	24.2	24.2	260
	BIKANER			
	1730 hrs.			
10.5	2	29.1	27.2	287
	COCHIN			
	1730 hrs.			
10.5	3	9.8	1.9	245
12.0	2	9.5	4.2	248
14.1	1	20.1	20.1	150
	DUM DUM			
	0530 hrs.*			
10.5	20	24.7	24.1	274
12.0	12	25.4	25.2	259
14.1	5	18.9	18.4	252
16.2	2	18.3	14.7	282
18.0	1	17.5	17.5	305
	DUM DUM			
	1130 hrs.			
10.5	1	28.3	28.3	255
	1730 hrs.*			
10.5	21	22.9	22.2	265
12.0	17	22.0	21.8	262
14.1	11	21.4	20.5	266
16.2	6	18.3	17.5	265
18.0	3	9.8	9.4	285
21.0	1	3.1	3.1	305
24.0	1	7.2	7.2	270
	GADAG			
	1730 hrs.			
10.5	14	13.7	12.3	245
12.0	9	11.7	10.1	229
14.1	5	7.1	4.7	220
16.2	2	5.7	2.3	267
18.0	1	6.2	6.2	125
	GANNAVARAM			
	0530 hrs.			
10.5	4	13.4	12.8	227
12.0	1	2.1	2.1	310
14.1	1	4.6	4.6	285
16.2	1	5.7	5.7	270
	1730 hrs.			
10.5	20	16.8	15.5	256
12.0	14	16.0	14.6	247
14.1	6	10.5	7.4	218
16.2	4	5.3	4.8	264
18.0	2	4.1	4.1	275
	GAUHATI			
	0530 hrs.*			
10.5	23	41.5	40.3	270
12.0	14	39.5	7.6	270
11.4	5	34.0	31.9	268
16.2	2	39.5	39.3	267
	1130 hrs.			
10.5	2	27.8	27.6	263
12.0	2	31.3	31.3	260
	1730 hrs.*			
10.5	24	37.6	36.5	274
12.0	21	44.9	43.9	274
14.1	6	34.8	34.7	267
	GOPALPUR			
	1730 hrs.			
10.5	10	26.2	24.9	263
12.0	4	24.6	23.3	215
14.1	1	9.8	9.8	205
	GORAKHPUR			
	1730 hrs.			
10.5	5	29.6	26.9	208
12.0	3	36.5	35.0	271
	GWALIOR			
	0530 hrs.			
10.5	2	24.7	21.5	294
	1730 hrs			
10.5	4	29.4	29.3	268
	JABALPUR			
	0530 hrs.			
10.5	1	22.7	22 7	255
	1730 hrs.			
10.5	3	32.9	32.9	282
12.0	1	26.7	26.7	270
	JAGDALPUR			
	1730 hrs.			
10.5	5	21.7	21.5	264
12.0	2	23.4	22.2	212
14.1	1	25.2	25.2	200
	JAIPUR			
	1730 hrs.			
10.5	7	26.4	23.5	280
12.0	1	35.4	35.4	255
	JAMSHEDPUR			
	1730 hrs.			
10.5	5	25.2	24.8	268
12.0	2	20.1	19.8	274
	JODHHPUR			
	0530 hrs.*			
10.5	17	35.0	33.3	265
12.0	12	39.4	38.1	271
14.1	6	35.3	35.0	275
	1130 hrs.			
10.5	4	25.1	23.9	265
12.0	1	20.6	20.6	290
	1730 hrs.*			
10.5	23	38.1	37.2	276
12.0	20	43.7	39.8	275
14.1	9	36.1	35.4	272
	JODHPUR			
	1730 hrs.*			
16.2	2	40.3	40.1	264
	MADRAS			
	0530 hrs.*			
10.5	17	8.4	5.3	259
12.0	18	9.5	6.2	239
14.1	9	10.7	7.3	187
16.2	3	16.0	14.4	216
18.0	3	14.8	9.5	252
21.0	1	11.3	11.3	203
	1130 hrs.			
10.5	7	7.6	7.5	264
12.0	4	6.3	2.4	251
14.1	2	2.3	0.9	108
16.2	2	4.9	4.4	063
18.0	2	3.9	3.2	292
	1730 hrs.*			
10.5	20	9.9	7.8	242
12.0	16	12.6	9.5	332
14.1	12	11.9	10.2	194
16.2	4	9.3	8.1	141
18.0	2	9.8	9.6	283
	NAGPUR			
	0530 hrs.*			
10.5	24	27.6	26.6	265
12.0	22	26.5	25.5	260
14.1	18	24.2	22.3	259
16.2	11	15.5	14.4	268
18.0	3	12.7	10.1	299
21.0	1	8.7	8.7	240
	1130 hrs.			
10.5	4	30.2	28.6	278
12.0	3	30.9	29.2	275
14.1	2	29.3	28.2	268
	1730 hrs.*			
10.5	25	27.5	26.7	264
12.0	23	28.4	26.6	255
14.1	19	21.6	20.2	256
16.2	14	14·1	13.5	262
18·0	7	7.4	3.4	294
21.0	3	7.9	4.8	285
	NANPARA			
	1730 hrs.			
10.5	2	29.3	27.3	302
12.0	1	33·9	33·9	310

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9½ Km. above mean sea level

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Ht. in Km.	n	V	v	D
	NEW DELHI			
	0530 hrs.*			
10.5	26	36.5	34.9	278
12.0	21	40.6	38.6	247
14.1	11	34.5	32.3	270
16.2	6	27.6	27.0	286
18.0	1	9.8	9.8	285
	1130 hrs.			
10.5	1	37.4	37.4	275
12.0	1	41.5	41.5	275
	1730 hrs.*			
10.5	25	37.6	47.7	279
12.0	21	42.8	41.5	278
14.1	11	43.2	41.4	283
16.2	6	34.4	33.8	285
18.0	3	23.5	23.3	274
21.0				
	POONA			
	1730 hrs.			
10.5	11	23.6	21.8	259
12.0	7	27.5	20.7	251
14.1	2	11.3	11.0	248
16.2	1	10.8	10.8	280
18.0	1	7.7	7.7	210
	PORT BLAIR			
	0530 hrs.*			
10.5	12	7.6	2.2	192
12.0	10	9.7	7.1	179
14.1	7	9.3	7.7	149
16.2	2	9.3	9.0	120
	1130 hrs.			
10.5	5	5.1	5.1	155
	1730 hrs.*			
10.5	10	7.6	4.8	249
12.0	1	11.8	11.8	210
14.1	1	19.6	19.6	175
16.2	1	9.8	9.8	295
18.0	1	11.8	11.8	225
	RAIPUR			
	1730 hrs.			
10.5	1	28.8	28.8	245
12.0	1	33.9	33.9	209
14.1	1	25.7	25.7	250
	SANTA CRUZ			
	0530 hrs.*			
10.5	22	22·9	22·9	260
12.0	16	22·5	19·3	249
14.1	14	20·8	15·1	224
16.2	3	14·1	12·9	237
18.0	1	10·8	10·8	080
	1130 hrs.			
10.5	5	25·8	24·7	265
12.0	1	32·3	32·3	280
	1730 hrs.*			
10.5	18	24·1	22·8	265
12.0	15	23·6	21·8	255
14.1	9	21·5	20·2	250
16.2	3	17·0	16·6	267
	TIRUCHIRAPALLI			
	1730 hrs.			
10.5	1	3·6	3·6	120
	TRIVANDRUM			
	0530 hrs.*			
10.5	26	7·9	4·0	150
12.0	22	9·3	6·1	142
14.1	14	14·6	10·9	140
16.2	10	15·1	8·9	129
18.0	4	19·3	9·5	153
21.0	1	26·7	26·7	070
	1130 hrs.			
10·5	2	5·4	3·3	238
12·0	2	9·0	7·5	163
	1730 hrs *			
10·5	26	8·6	3·5	124
12·0	22	11·0	7·6	133
14·1	19	13·8	11·2	133
16·2	10	12·1	9·5	118
18·0	4	6·3	3·9	074
	UDAIPUR			
	1730 hrs.			
10.5	2	42·8	41·8	270
12·0	1	43·1	43·1	275
	VERAVAL			
	0530 hrs.*			
10.5	11	32.6	32.0	270
12.0	9	34·1	33·1	295
14 1	2	28·6	27·0	235
10 5	9	23·0	22·4	274
12·0	3	33·2	31·9	266
14·1	2	29·3	29.0	280
	1730 hrs.*			
10·5	16	26·6	24·2	253
12·0	12	23·0	21·9	265
14.1	8	24·8	24·1	254
16·2	2	17·0	15·5	258
18·0	1	8·3	8·3	270
21·0	1	3·1	3·1	170
	VISAKHAPATNAM			
	0530 hrs.			
10·5	1	12·4	12·4	245
	1730 hrs.			
10·5	11	19·8	19·1	265
12·0	6	17·1	16·4	262
14·1	2	13·1	31·1	230

7—18 DDG. Obs. Poona/64

RADIOSONDE DATA

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad . . .	Clock type	1st October, 1944	00 and 12	
2	Amritsar . . .	Clock type	21st June, 1957	00 and 12	
3	Bombay . . .	Clock type	7th September, 1954	00 and 12	
4	Calcutta . . .	Clock type	13th December, 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November 1947.
5	Gauhati . . .	Clock type	22nd July, 1955	00 and 12	
6	Jodhpur . . .	Clock type	17th April, 1946	00 and 12	
7	Madras . . .	Fan type	29th June, 1946	00 and 12	
8	Nagpur . . .	Fan type	1st October, 1946	00 and 12	
9	New Delhi . . .	Clock type	3rd December, 1943	00 and 12	
10	Port Blair . . .	Fan type	4th December, 1949	00 and 12	
11	Trivandrum . . .	Fan type	1st July, 1947	00 and 12	
12	Veraval . . .	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam . .	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

TABLE VI – MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 0000 Hours G.M.T.

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (1017 mb.)						AMRITSAR (989 mb.)						BOMBAY (1009 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	98	286.4	292	282	281.9	13	230	282.0	284	278	280.1	29	13	292.7	297	289	286.8
1000	29	115	..	..	..	..	11	136	..	..	..	..	29	94	..	..	..	..
900	29	1020	292.2	299	283	270.4	11	1022	288.3	292	281	271.8	29	1014	296.4	300	293	275.0
850	29	1507	289.4	294	281	266.5	11	1505	286.8	290	279	266.6	29	1510	293.2	297	290	272.3
800	29	2019	286.7	290	283	259.7	11	2014	284.6	288	277	265.6	29	2029	289.1	292	286	271.3
700	29	3130	280.3	284	276	250.9	11	3117	277.3	281	273	260.2	29	3148	280.8	285	274	267.0
600	29	4379	272.4	278	268	239.4	11	4351	269.0	273	265	..	29	4407	275.0	278	271	252.0
500	29	5808	262.3	268	256	..	11	5764	259.0	263	256	..	29	5856	266.1	270	260	..
400	29	7485	250.1	257	244	..	11	7423	248.2	252	243	..	29	7563	255.7	261	252	..
300	27	9543	239.2	248	231	..	10	9463	234.6	245	227	..	28	9662	241.9	252	233	..
250	27	10804	232.7	239	221	..	9	10693	225.9	232	219	..	28	10935	233.7	241	221	..
200	27	12299	224.0	229	215	..	7	12125	219.4	224	213	..	24	12426	223.5	231	219	.
175	27	13165	218.7	224	210	..	5	12995	219.2	223	212	..	24	13287	217.6	226	213	..
150	26	14149	213.2	218	204	..	5	13984	216.8	221	211	..	20	14273	212.0	222	204	..
125	25	15268	207.2	213	197	..	5	15139	212.6	216	210	..	12	15376	205.8	212	197	..
100	20	16630	201.9	210	195	..	5	16514	209.8	212	207	..	8	16667	197.7	206	192	..
80	16	17939	200.5	207	195													

	CALCUTTA (1012 mb.)						GAUHATI (1007 mb.)						JODHPUR (989 mb.)					
Surface	29	6	289.1	294	284	287.9	29	49	287.9	292	283	285.5	27	218	288.4	291	282	272.4
1000	29	108	..	..	..	..	29	109	..	..	..	..	27	123	..	..	..	..
900	29	1012	289.5	295	281	276.8	29	1006	288.6	291	284	279.2	27	1026	291.8	296	286	266.8
850	29	1496	286.3	291	280	273.5	29	1488	285.2	289	279	275.6	27	1514	289.0	292	284	263.2
800	29	2003	283.3	287	278	270.8	29	1993	282.0	285	276	272.4	27	2026	286.0	291	282	262.7
700	29	3104	278.0	286	274	261.1	29	3086	275.7	286	269	263.4	27	3134	279.2	285	274	255.7
600	29	4348	271.1	279	267	256.4	29	4319	269.6	279	263	..	27	4378	270.9	275	266	243.2
500	29	5775	262.0	269	255	..	29	5740	261.9	270	254	..	27	5801	261.0	265	257	..
400	29	7456	252.5	259	248	..	29	7421	251.4	257	244	..	25	7476	250.0	257	245	..
300	22	9537	240.8	247	236	..	28	9498	241.1	250	231	..	24	9528	237.3	244	230	..
250	15	10813	233.9	239	229	..	25	10771	234.0	242	221	..	22	10775	231.1	239	225	..
200	11	12314	223.3	227	219	..	19	12293	226.3	234	213	..	21	12258	222.7	227	219	..
175	6	13148	218.3	223	211	..	13	13162	221.4	229	213	..	19	13136	217.3	223	208	..
150	5	14150	212.6	217	203	..	9	14125	215.8	219	207	..	16	14120	212.9	220	203	..
125													13	15241	207.1	213	201	..
100													7	16669	205.3	210	198	..
80																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 0000 Hours G.M.T.

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1010 mb.)						NAGPUR (977 mb.)						NEW DELHI (989 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	15	294.7	299	292	292.9	29	311	288.4	292	283	281.1	28	210	285.4	290	279	279.9
1000	29	107	..	..	..	..	29	115	..	..	..	..	28	118	..	..	..	..
900	29	1019	292.6	296	287	279.7	29	1025	295.7	300	291	273.6	28	1017	290.9	296	283	270.3
850	29	1508	290.3	295	286	272.7	29	1518	292.0	296	288	271.2	28	1503	288.4	292	282	264.1
800	29	2023	287.7	291	283	268.7	29	2035	288.4	293	284	267.1	28	2013	285.2	289	280	262.3
700	29	3139	282.1	285	278	258.4	29	3153	281.1	286	275	259.0	28	3117	278.0	282	274	254.9
600	29	4399	275.0	279	273	256.0	29	4407	273.8	278	269	246.1	28	4355	269.9	274	266	240.5
500	28	5848	266.3	269	264	..	29	5848	264.7	270	260	..	28	5770	259.9	263	255	..
400	26	7556	255.8	260	251	..	29	7545	254.3	259	249	..	28	7431	248.0	255	244	..
300	23	9651	240.5	245	235	..	28	9629	240.1	247	233	..	28	9464	235.2	241	228	..
250	21	10911	231.1	239	225	..	28	10890	231.4	240	222	..	28	10703	229.1	236	217	..
200	18	12385	219.9	233	213	..	27	12373	220.2	229	214	..	26	12180	222.4	228	212	..
175	13	13218	213.2	227	208	..	27	13220	215.3	225	207	..	26	13041	218.1	222	211	..
150	12	14192	208.1	222	200	..	27	14188	209.1	221	200	..	25	14015	213.2	218	208	..
125	8	15318	203.9	214	195	..	21	15296	204.6	218	197	..	21	15125	207.7	213	201	..
100							19	16631	199.4	212	193	..	19	16465	202.3	209	194	..
80							12	17926	199.5	209	193	..	9	17794	200.8	208	191	..

	PORT BLAIR (1003 mb.)						TRIVANDRUM (1002 mb.)						VERAVAL (1012 mb.)					
Surface	29	79	296.8	300	292	295.2	29	64	297.5	300	295	292.9	29	8	293.8	296	287	282.4
1000	29	101	..	..	..	..	29	84	..	..	..	..	29	107	..	..	..	..
900	29	1020	292.6	296	289	289.3	29	1005	292.9	297	289	285.9	29	1030	295.6	302	291	276.6
850	29	1511	290.5	293	287	284.9	29	1496	290.5	294	287	279.4	29	1524	292.1	300	286	274.5
800	29	2027	287.6	291	283	281.0	29	2013	283.3	293	285	274.6	29	2041	288.4	296	281	272.5
700	29	3145	281.9	285	279	274.2	29	3133	282.2	288	275	263.6	29	3158	281.4	286	278	268.4
600	29	4408	276.0	281	273	267.6	29	4395	275.2	279	271	256.1	29	4417	274.6	278	269	262.7
500	29	5861	267.4	271	264	..	29	5844	267.2	274	262	..	29	5860	264.9	269	261	..
400	28	7575	256.8	262	251	..	29	7556	256.0	264	251	..	29	7557	253.3	260	246	..
300	17	9677	242.1	249	237	..	27	9649	240.4	246	233	..	25	9637	239.2	247	233	..
250	15	10940	231.3	236	223	..	26	10901	230.5	239	223	..	24	10894	231.2	239	223	..
200	14	12421	220.6	228	213	..	26	12387	219.1	228	210	..	18	12364	220.8	228	215	..
175	14	13271	214.8	223	207	..	25	13225	213.1	225	204	..	13	13199	215.6	222	210	..
150	12	14235	209.1	220	201	..	24	14191	207.0	219	197	..	10	14164	209.5	215	206	..
125	9	15358	203.5	216	198	..	22	15298	202.7	214	193	..	7	15262	204.2	209	201	..
100	7	16735	201.1	211	195	..	17	16639	199.4	206	193							
80							9	17947	200·9	211	197							

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 0000 Hours G. M. T.

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1008 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	29	48	293.2	297	290	289.2
1000	29	113	..	..	..	..
900	29	1032	293.7	297	289	278.7
850	29	1524	290.7	295	285	276 6
800	29	2040	287.7	291	282	273.9
700	29	3157	281.8	287	277	263.6
600	29	4417	275.2	278	269	257.7
500	29	5866	265.9	270	261	..
400	29	7576	255.9	261	247	..
300	27	9676	241.2	247	234	..
250	26	10940	230.6	236	219	..
200	23	12418	219.4	225	214	..
175	21	13256	212.8	220	206	..
150	21	14218	206.8	215	199	..
125	20	15288	200.7	210	191	..
100	16	16599	196.3	205	190	..
80	10	17890	197.9	206	190	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 1200 Hours G.M.T.

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (1000 mb.)						AMRITSAR (988 mb.)						BOMBAY (1008 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	98	300.1	305	292	283.4	12	230	294.8	299	291	284.3	29	13	303.7	309	300	289.6
1000	29	100	..	..	..	..	12	128	..	..	..	..	29	87	..	..	..	..
900	29	1021	294.8	303	289	272.4	12	1033	290.1	294	284	272.5	29	1022	299.0	303	293	279.5
850	29	1512	291.1	296	285	264.6	12	1518	287.7	291	281	267.7	29	1522	295.3	299	290	275.7
800	29	2027	287.7	292	282	262.0	12	2029	284.6	289	278	264.7	29	2046	291.2	294	288	273.9
700	29	3140	281.3	284	277	249.0	12	3132	277.7	283	271	257.3	29	3173	283·3	286	280	265.4
600	29	4394	273.8	278	269	245.1	12	4373	269.7	277	263	..	29	4439	276.6	281	274	244.3
500	29	5831	264.1	269	256	..	12	5790	260.3	265	255	..	29	5896	267.2	273	262	..
400	29	7520	252.5	257	246	..	12	7455	248.5	253	243	..	29	7607	256.1	261	250	..
300	27	9599	241.5	249	233	..	11	9489	233.0	237	226	..	26	9716	243.3	252	234	..
250	27	10870	234.1	240	227	..	10	10722	224.9	230	216	..	22	10985	235.1	239	231	..
200	26	12373	225.8	233	218	..	9	12158	220.8	227	216	..	21	12490	224·8	231	220	..
175	24	13250	220.5	229	213	..	8	13080	219.2	225	213	..	19	13343	218·5	224	213	..
150	24	14237	214.7	224	209	..	8	14038	216·7	225	208	..	18	14312	211.7	217	206	..
125	21	15364	209.5	218	202	..	7	15190	213·3	220	208	..	16	15437	206·6	213	198	..
100	13	16704	205.5	212	196	..	6	16622	210·3	215	205	..	11	16760	200.4	209	192	
80	10	18016	204.5	211	196	..							6	18095	203.3	207	194	

	CALCUTTA (1010 mb.)						GAUHATI (1004 mb.)						JODHPUR (987 mb.)					
Surface	29	6	300.7	306	295	287·9	29	49	297.8	301	294	287.6	29	218	302.8	306	297	275.7
1000	29	94	..	..	..	..	29	86	..	..	..	..	29	102	..	..	..	..
900	29	1019	295.1	301	289	277·8	29	1005	294.0	300	290	279.8	29	1031	295.9	299	288	268.2
850	29	1511	290.8	297	284	274·7	29	1495	290.3	296	287	276.2	29	1524	291.6	295	284	264.6
800	29	2030	287.6	293	284	270.0	29	2009	286.2	292	283	273.8	29	2040	287.7	291	281	263.4
700	29	3143	281.9	289	278	259.9	29	3117	278·5	283	275	263.1	29	3154	280.8	285	274	252.6
600	29	4402	274.4	281	268	251.3	29	4361	271.9	281	268	..	29	4406	272·5	277	267	242.8
500	29	5847	265.5	271	257	..	29	5794	264.1	273	257	..	29	5837	262·4	269	255	..
400	28	7545	254.6	263	249	..	29	7489	253.4	266	245	..	28	7515	251.0	258	245	..
300	23	9654	242.8	249	237	..	27	9566	242.2	254	233	..	26	9587	239.3	249	232	..
250	18	10932	234.8	237	233	..	25	10846	236.1	245	226	..	26	10851	232.9	244	223	..
200	17	12430	225.2	230	221	..	25	12363	227.8	235	221	..	24	12348	224.9	235	217	..
175	13	13293	219.2	224	213	..	18	13219	222.8	228	215	..	21	13205	220.0	231	211	..
150	11	14269	213.8	219	209	..	14	14200	217.5	222	211	..	19	14184	215.1	227	207	..
125	8	15369	205.7	212	202	..	7	15314	211.7	217	205	..	14	15332	209.4	217	203	..
100	6	16654	198.3	203	195	..	5	16737	205.4	212	201	..	11	16653	204.9	214	199	..
80																		

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 1200 Hours G. M. T.

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1009 mb.)						NAGPUR (976 mb.)						NEW DELHI (988 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	015	301.0	303	299	292.8	28	311	303.5	301	300	281.0	29	210	298.8	306	291	282.6
1000	28	099	..	..	..	..	28	092	..	..	..	..	29	105	..	..	..	..
900	28	1020	294.1	299	291	278.4	28	1025	297.7	303	293	275.7	29	1023	293.3	299	287	273.1
850	28	1512	291.1	297	287	274.6	28	1521	293.2	298	290	273.2	29	1513	290.2	296	283	268.0
800	28	2029	288.3	293	286	271.0	28	2041	289.0	294	285	270.7	29	2027	286.8	291	279	264.4
700	28	3149	282.5	288	279	264.7	28	3159	281.1	284	277	261.4	29	3137	279.7	283	274	256.8
600	28	4411	275.9	279	273	254.4	28	4415	273.8	278	269	256.4	29	4384	271.6	277	267	244.8
500	27	5862	267.0	271	264	..	28	5854	264.1	267	255	..	29	5809	261.3	266	258	..
400	27	7572	255.5	260	250	..	28	7546	253.7	260	247	..	29	7480	249.5	254	246	..
300	23	9667	241.3	246	236	..	27	9634	240.1	245	234	..	28	9528	236.8	241	232	..
250	23	10930	231.0	236	224	..	26	10904	232.0	237	224	..	24	10768	231.2	238	224	..
200	20	12404	219.1	225	213	..	26	12390	221.8	227	216	..	23	12252	224.3	229	218	..
175	19	13246	212.4	219	207	..	26	13242	216.0	223	210	..	21	13124	220.5	225	214	..
150	16	14258	205.4	216	196	..	26	14210	209.9	219	203	..	21	14108	215.5	220	208	..
125	10	15269	199.4	205	193	..	24	15305	204.2	213	195	..	19	15252	209.8	219	204	..
100	5	16673	198.8	201	197	..	23	16634	198.7	208	191	..	17	16602	205.3	212	198	..
80						..	18	17953	198.7	206	193	..	13	17931	203.2	208	196	..

	PORT BLAIR (1001 mb.)						TRIVANDRUM (1001 mb.)						VERAVAL (1010 mb.)					
Surface	29	79	300.6	302	298	295.8	28	64	302.7	304	30	294.0	29	8	299.6	303	298	293.4
1000	29	87	..	..	..	..	28	77	..	..	..	..	29	100	..	..	..	..
900	29	1010	292.5	296	290	290.9	28	1005	295.6	298	294	287.1	29	1027	296.2	300	291	280.6
850	29	1501	290.2	294	287	286.8	28	1500	292.1	294	289	284.1	29	1522	292.5	296	290	277.5
800	29	2017	287.5	291	285	281.9	28	2019	288.9	291	285	279.4	29	2040	289.0	296	287	275.7
700	29	3135	281.7	284	279	275.4	28	3143	283.8	287	281	268.4	29	3160	281.2	285	278	269.5
600	29	4396	274.8	278	272	268.8	28	4410	276.6	280	273	262.7	29	4417	273.9	277	269	260.7
500	29	5844	267.1	272	264	..	28	5868	268.2	273	263	..	29	5858	265.0	270	261	..
400	29	7557	256.0	259	253	..	28	7588	257.5	266	251	..	29	7557	254.3	260	248	..
300	18	9663	241.1	247	237	..	27	9701	242.9	251	237	..	27	9639	239.5	245	233	..
250	17	10926	230.8	235	224	..	26	10971	232.9	243	228	..	20	10889	230.9	238	226	..
200	7	12394	220.1	226	216	..	24	12442	220.5	232	212	..	17	12366	221.7	231	215	..
175	5	13248	211.6	217	206	..	23	13285	214.4	225	206	..	13	13223	215.8	221	209	..
150	5	14182	206.0	214	196	..	23	14253	207.6	218	198	..	11	14170	209.4	217	202	..
125						..	22	15330	201.6	211	192	..	8	15266	205.1	210	196	..
100						..	16	16700	198.3	206	194	..						..
80						..	10	17989	197.5	203	193	..						..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 1200 Hours G.M.T.

February 1960 (Magha 12—Phalguna 10, 1881 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1006 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	29	48	300.2	3.2	299	293.2
1000	29	103	..	..	..	..
900	29	1028	294.9	299	289	279.8
850	29	1522	291.5	295	286	277.3
800	29	2040	288.4	292	284	274.1
700	29	3159	281.9	286	279	265.1
600	29	421	275.5	280	269	257.9
500	29	5871	266.2	270	261	..
400	29	7581	255.9	263	250	..
300	29	9685	242.1	247	236	..
250	29	10953	231.5	237	226	..
200	28	12439	220.6	227	216	..
175	26	13284	214.8	221	209	..
150	25	14252	208.3	215	201	..
125	23	15348	202.1	211	196	..
100	23	16666	197.5	206	188	..
80	15	18004	199.5	213	193	..

NOTE:—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

Means are not worked out for less than five observations at standard pressure surfaces.

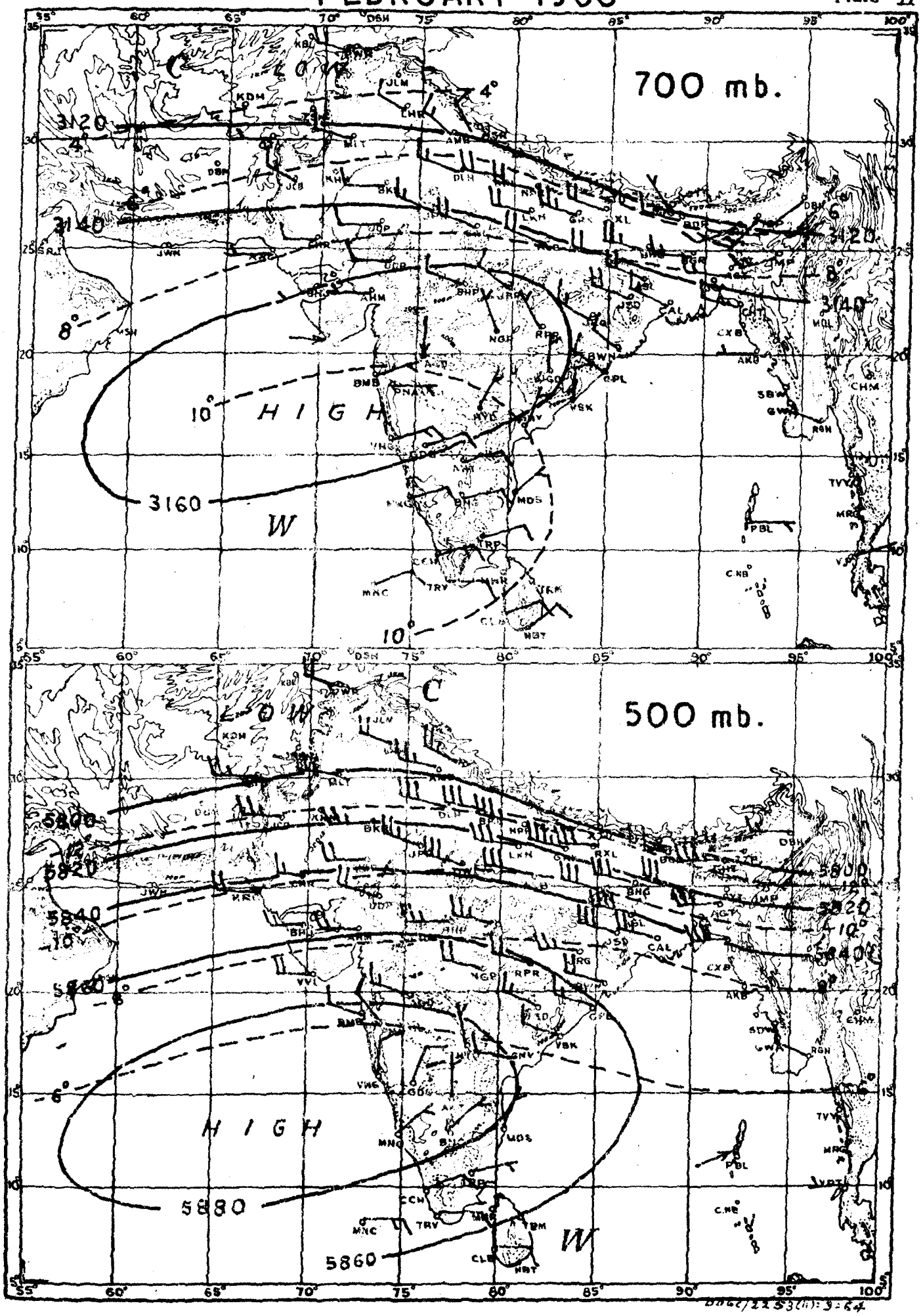
GIPN—86—18 D. D. G Obs. (Poona)/64—23-2-65—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I. Met. D.

FEBRUARY 1960

Plate II



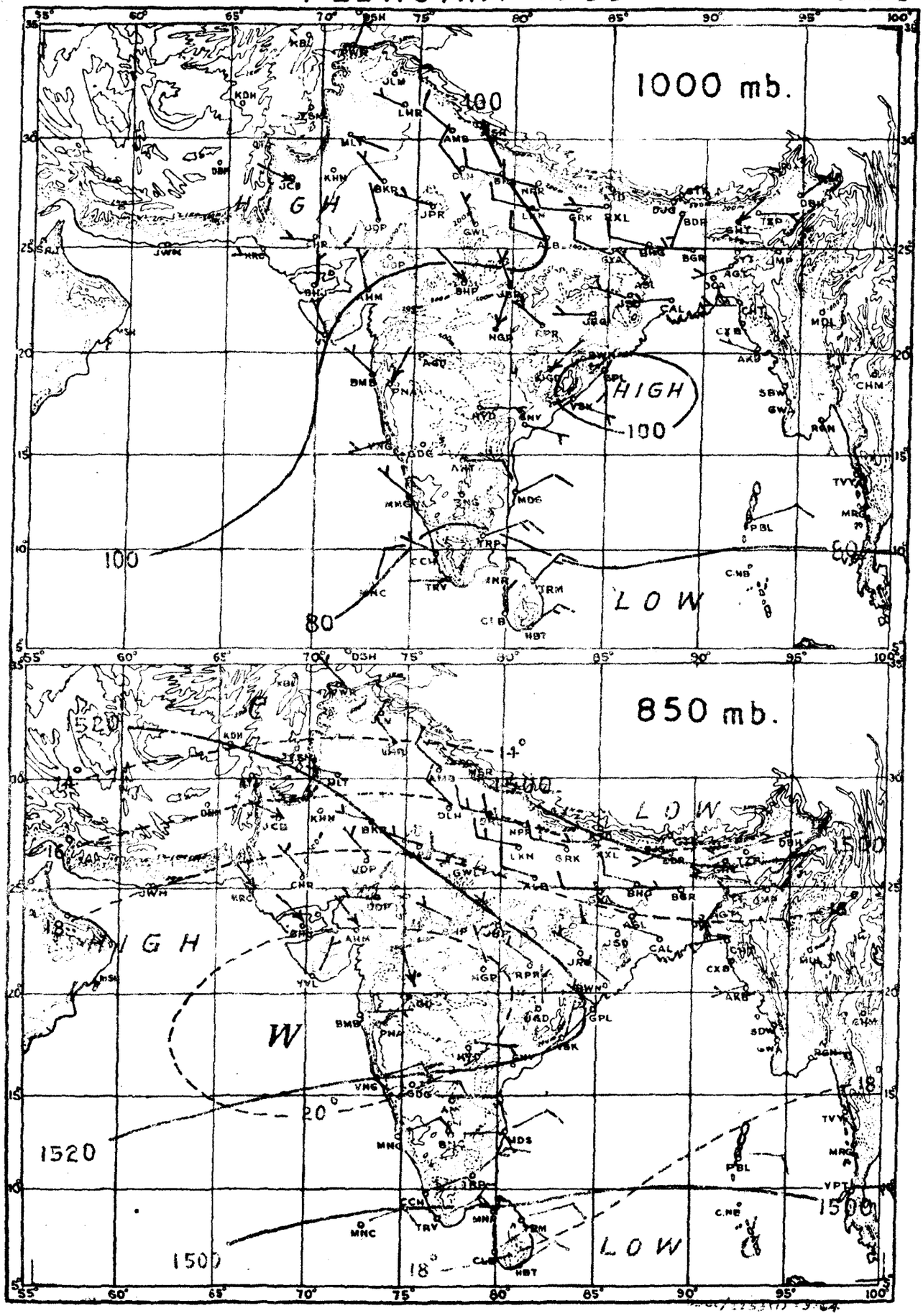
RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

-------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

G.P.I.P. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **FEBRUARY 1960** *Plate I*



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

-------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

G.P.Z.P. POONA, 1963

Registered No. B-3097

INDIA WEATHER REVIEW, 1960

Monthly Weather Report

March

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U. S. Dept. of Commerce

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Chief features—

Abundant rainfall and sub-normal day temperatures.

Five western disturbances moved across the country during the month and all five of them were fairly active. In combination with the anticyclonic cell over the Bay of Bengal, these western disturbances induced a good inflow of moisture from the Bay of Bengal into the interior of the country, which caused more than usual rainfall over most of the country. Bihar Plains, Uttar Pradesh, Madhya Pradesh, Vidarbha and Telengana received over twice their normal rainfall during the month of March. Tabular statements showing the movement and activity of each western disturbance is given below.

STATEMENT SHOWING THE MOVEMENT AND ACTIVITY OF WESTERN DISTURBANCES DURING MARCH, 1960.

S. No.	Period	Course	Region affected	Nature of precipition	Period	Remarks
1	3rd—6th	Baluchistan—Punjabs—Himachal Pradesh and Kumaon hills	Punjab (I)	Scattered thundershowers	5th & 6th	
			Jammu & Kashmir	Scattered thundershowers	5th	
			Uttar Pradesh	Scattered thundershowers	6th	
1a	5th—9th	South Rajasthan-north Madhya Pradesh-Bihar State-West Bengal-Assam	Rajasthan	Scattered thundershowers	6th	
			Madhya Pradesh	Scattered thundershowers	6th to 7th	(i) Induced by Western Disturbance No. 1
			Northeast India	Fairly widespread thundershowers-(Local or scattered thundershowers	7th, 6th, 8th & 9th	(ii) Squall of 160 kms per hour was experienced at Delhi on 7th evening
2	7th—13th	Baluchisthan-Sind-Punjabs-Rajasthan-north Madhya Pradesh-northeast India	Rajasthan	Scattered thundershowers	8th	
			Jammu & Kashmir	Local rain/snow	8th to 11th	
			Himachal Pradesh & Punjab (I)	Local thundershowers	8th to 11th	
			Uttar Pradesh & Madhya Pradesh	Fairly widespread thundershowers	11th	
			Bihar State and Orissa	Local or scattered thundershowers	11th and 12th	
			West Bengal	Local thundershowers	12th	
			Assam	Scattered thundershowers	12th & 13th	
3	14th—18th	Afghanisthan-N.W.E.P-Punjabs-Himachal Pradesh	Jammu & Kashmir	Local or scattered thundershowers	16th & 17th	
			Punjab (I)	Local or scattered thundershowers	16th to 18th	
			Himchal Pradesh	Fairly widespread or local thundershowers	16th to 18th	
			West Uttar Pradesh	Scattered thundershowers	17th & 18th	
4	19th—23rd	Iran-Afghanistan-N.W.F.P-Punjabs-Himachal Pradesh	Himachal Pradesh Punjab(I)-Uttar Pradesh	Fairly widespread thundershowers	22nd	
				Local or scattered thundershowers	22nd & 23rd	
			Jammu & Kashmir	Scattered thundershowers	23rd	
5	26th—30th	Baluchistan-Punjabs-north-west Uttar Pradesh	Punjab (I)	Local or scattered thundershowers	27th to 30th	
			West Uttar Pradesh	Local or scattered thundershowers	28th to 30th	
			Himachal Pradesh	Fairly widespread thundershowers	28th to 29th	
			Jammu & Kashmir	Local or scattered thundershowers	28th & 29th.	

In association with an upper air trough, fairly widespread thundershowers occurred in extreme south Peninsula on 11th when Fort Cochin reported 13 cms. of rain.

During the first week of the month, the day temperatures were generally above normal over northwest India and the central parts of the country, being appreciably so in Rajasthan and northwest Madhya Pradesh between 1st and 4th. Subsequently, the day temperatures fell and became below normal almost over the entire country by 9th. During the rest of the month, they were generally below normal over most of the country, being appreciably to markedly so over Uttar Pradesh and Bihar on 12th and 13th and over most of north India between 19th and 25th.

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The month's rainfall was in large excess in Orissa, Bihar Plains, Uttar Pradesh, east Rajasthan, Madhya Pradesh, Saurashtra and Kutch, Maharashtra (including Marathwada), Vidarbha, coastal Andhra Pradesh, Telangana, Mysore State and Kerala in slight excess in Sub-Himalayan West Bengal, Bihar Plateau, West Rajasthan and Rayalaseema and normal in Gangetic West Bengal and the Punjab (I). It was in slight defect in Jammu and Kashmir, in moderate defect in the Madras State and in large defect in Assam and the Arabian Sea Islands. There was no rain in the Bay Islands, Gujarat and the Konkan.

The mean maximum tempereture was above normal in the Arabian Sea Islands, normal in the Bay Islands, Assam, west Uttar Pradesh, west Rajasthan, east Madhya Pradesh, the Konkan, Maharashtra (including Marathwada), Rayalaseema and in the States of Madras, Mysore and Kerala and below normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in south Interior Mysore and normal over the rest of the country outside Himachal Pradesh.

The mean morning relative humidity was above normal in Assam, Bihar State, Uttar Pradesh, the Punjab(I), Madhya Pradesh, Vidarbha, Telangana, Rayalaseema, south Interior Mysore and Kerala, below normal in Bay Islands and normal over the rest of the country outside Himachal Pradesh.

The mean morning cloud amount was normal in the Bay Islands, Assam, Gangetic West Bengal and coastal Andhra Pradesh and above normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, relative humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column. Similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,

The 27th July 1960.

C. RAMASWAMY,

for *Director General of Observatories.*

Errata to M.W.R. March, 1960 (Phalguna 11, 1881 - Chaitra 11, 1882 Saka)

Page No.	Station	Hour	Column	For	Read
Table II					
116	Imphal		2	5.2 (g)	25.2 (g)
116	Lumding		8	19.0	9.0
116	Midnapore		8	12.6	16.4
117	Ranchi		18	3.3(b)	3.3
117	Gaya		9	25,1	25,26
117	Jamui		13	16.7	16.8
117	Bhagalpur		13	16.6	16.7
117	(Foot Note)		-	(c) Mean of 29 days	(c) Mean of 28 days
118	New Delhi		13	3.5	13.5
118	Ludhiana		3	1.1	-1.1
118	Ludhiana		19	(Not clear)	5.9
118	Srinagar		12	+58.43	+58.3
121	Hanamkonda		22	0	1
121	Salem		12	12.5	-12.5
121	Karwar		12	0.0	0
121	Honavar		12	-20.3	-0.3
122	Gadag		16	-1.3	+1.3
122	Gadag		19	+0.4	-0.4
122	Chitaldrug		12	-5.9	+5.9
122	Hassan		12	+1.6	+29.6
122	Mysore		12	+29.5	+51.8
122	Fort Cochin		16	+2.3	+2.2
122	Ootacamund		19	+4.3	-4.3
122	Coonoor		7	0.8	+0.8
122	(Foot Note)		-	+Observatory closed on 15.3.60	†. Observatory closed on 15.3.60
123	Colombo		3	0.8	-0.8
123	Colombo		16	3.1	-3.1
123	Trincomalee		3	-1.5	-0.5
123	Mannar		22,23	4,0	0,4
123	Dailekh		1	Dailekh*	Dailekh †
123	(Foot Note)		-	(Not given)	† Data not available.
Table III					
125	Port Blair	2330	11	38	88
125	Tezpur	0830	5	1012.8	1003.8
125	Tezpur (P.B.O)	0230	9	15.5	15.4
126	Dhubri	0830	6	+1.9	+1.0
126	Dhubri (Rupsi Aerodrome)	1730	17	2	1
126	Silchar (Kumbhigram Aerodrome)	0530	13	2.9	2.5
126	Silchar (Kumbhigram Aerodrome)	0830	13	2.2	2.9
126	(Foot Note)	-	-	(b) Mean of 20 days	(Delete)
128	Ranchi (C.W.O.)	1730	4	1007.5	1009.8
128	Daltonganj	0830	14	+4.4	+1.4
128	Motihari	0830	2	1830	0830
129	Patna (Aerodrome)	0530	4	1019.9	1009.9
129	Nautanwa	0830	14	+1.2	..
129	Gorakhpur	0830	14	-..	+1.2

Contd.2

Page No.	Station	Hour	Column	For	Read
129	Allahabad (Bamrauli)	0830	14	..	+0.9
130	Dehra Dun	0830	15	(Not clear)	1.5
131	Hissar	1730	4	1009.9	1009.3
131	Patiala	1730	4	1009.7	1009.9
131	Ambala (Aerodrome)	1730	7	25.7	25.0
131	Ludhiana	0830	3	347	247
131	Ludhiana	0830	27	0	10
131	Amritsar	1130	13	4.4	3.4
131	(Foot Note)	-	-	(a) Means	(a) Mean of 30 days
132	Srinagar (Aerodrome)	1130	23	(Blank)	2
132	Sri Ganganagar	0530	15	22.8	2.8
133	Udaipur	1730	16,17	1,0	0,1
133	Gwalior (P.B.O)	0830	4	998.9	988.9
134	Sidhi	0830	15	1.4	1.1
134	Raipur	1130	5	978.4	978.6
135	Baroda	2330	18	27	22
135	Bhutakia Bhimsar	0830	3	4	47
136	Surendranagar	0830	1	Surendranagar	Surendranagar*
136	Surendranagar	0830	15	11.9	11.9(h)
136	Surendranagar	1730	25	6	9
136	Bhavnagar	0830	1	Bhavnagar(h)	Bhavnagar
136	Bombay (Santa Cruz Aerodrome)	0530	5	1018.5	1008.5
136	Vengurla	0530	5	1009.4	1008.4
136	Aurangabad (Chikalthana aerodrome)	0230	3	530	579
136	(Foot Note)	-	-	(Not given)	*wind directions for Complete days
137	Parbhani	0830	11	3	39
137	Parbhani	1730	11	2	22
137	Nanded	0830	11	5	51
137	Sholapur	0530	2	0536	0530
138	Rentachintala	0830	8	22.3	22.2
138	Nizamabad	0830	1	Nizamabad	Nizamabad*
138	Mahbubnagar	0830	1	Mahbubnagar*	Mahbubnagar
138	Mahbubnagar	1730	4	1015.6	1005.6
139	Coimbatore (Peelamedu Aerodrome)	0830	28	0	1
139	Salem	0830	4	1012.7	1012.1
140	Honavar	0830	12	3	+3
143	Khijrawan	1730	15	5.3	5.3(a)
143	Sonepure	0830	15	4.5(a)	4.5
143	Bhimkund	0830	28	0	1
143	Dailekh	0830	1	Dailekh*	Dailekh
143	Dailekh	1730	1	Dailekh*	Dailekh

Contd.3

Page	Station	Time in I.S.T.	Height in Km.	Entry under column	Existing Entry	Correct entry
146	Ambala	-	-	Height of Anemometer head amsl in metres	179	279
147	Ambala	1730	1.5	V	6.0	6.6
149	Bairagarh	1730	6.0	D	722	272
149	Bajpe	0530	2.1	v	1.5	1.9
149	Bajpe	0530	5.4	v	5.1	3.5
150	Begumpet	1730	3.6	V	5.8	6.8
150	Bhagalpur	1130	Surface	V	0.9	2.9
152	Dum Dum	0530	6.0	D	296	290
153	Gannavaram	2330	5.4	v	4.9	4.2
153	Gannavaram	2330	6.0	v	4.2	4.9
		1730	0.3	v	4.3	4.4
154	Gwalior	0530	0.3	V	4.2	4.3
154	Gwalior	1730	0.3	D	237	331
154	Jabalpur	0530	0.9	v	7.7	1.5
155	Jaipur	0530	3.0	D	259	258
156	Jharsuguda	2330	0.15 a.g.	D	188	185
156	Jodhpur	1130	5	V	5.1	5.8
157	Mohanbari	0530	7.2	V	16.6	16.5
158	Port Blair	1730	0.9	V	8.0	3.0
159	Raxaul	1730	0.9	D	274	271
159	Santa Cruz	2330	1.3	V	4.8	4.1
159	Santa Cruz	2330	2.1	V	4.1	4.8
160	Tiruchirapalli	0530	7.2	D	031	331
160	Tiruchirapalli	1730	0.3	D	024	094
160	Trivandrum	0530	0.3	D	367	357
160	Trivandrum	1130	9.0	v	3.7	7.3
160	Udaipur	1730	3.6	n	20	28
160	Vengurla	0530	2.1	v	6.6	0.6
161	Veraval	0530	6.0	v	19.8	19.3
161	Visakhapatnam	0530	5.4	V	7.8	8.7
161	Visakhapatnam	1730	6.0	V	11.9	11.6
162	Dum Dum	-	..	Name of Station DUM DUN		DUM DUM
163	New Delhi	1730	10.5	V	83.0	38.0
163	Tezpur	1730	14.1	v	83.8	83.3
163	Visakhapatnam	1730	-	-	17.30	1730
				RADIOSONDE DATA		
165	Gauhati	00 GMT	800 mb.	Mean	233.5	283.5
166	Madras	00 GMT	850 mb	Dew Point	286.2	276.2
166	Madras	00 GMT	175 mb.	Min.	196	201
166	Madras	00 GMT	80 mb.	Max.	203	204
166	New Delhi	00 GMT	300 mb.	Min.	223	228
166	New Delhi	00 GMT	150 mb.	Max.	228	223
166	New Delhi	00 GMT	125 mb.	Min.	205	204

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	23·2 −58·7	28	29·0 +0·3	16·6 +0·4	64 +9	57	3·1 +0·1	3·4
2. West Bengal	34·9 +3·1	110	31·1 −1·9	19·0 −0·2	66 +4	49	2·1 +0·1	2·0
3. Orissa	46·9 +21·9	188	32·2 −1·4	21·0 −0·5	69 +1	55	2·6 +0·6	3·2
4. Bihar	35·7 +20·3	232	30·8 −1·9	17·1 +0·3	59 +11	41	2·5 +1·0	2·6
5. Uttar Pradesh	31·6 + 25·3	502	30·4 −1·1	15·8 +0·8	58 +8	35	2·7 +1·2	3·1
6. Punjab (India) (Including Himachal Pradesh and Delhi)*	19·2 +1·7	110	28·7 −1·5	13·9 −0·2	67 +15	43	2·9 +0·8	3·3
7. Jammu and Kashmir.	62·7 −16·3	79	9·0 −1·3	−0·8 +0·9	65 −5	59	6·2 +1·3	6·3
Division—*contd.*								
8. Rajasthan	7·5 +1·7	129	30·8 −0·7	15·3 0	45 +1	21	2·5 +0·9	2·9
9. Madhya Pradesh	25·5 +13·5	213	32·3 −1·1	16·8 0	46 +6	26	2·5 +1·2	3·4
10. Bombay	6·7 +4·1	258	33·1 −1·0	19·5 +0·3	57 +4	37	2·0 +0·8	2·4
11. Andhra Pradesh	17·6 +9·5	217	34·1 −1·0	22·7 +0·2	69 +3	53	2·5 +0·5	2·4
12. Madras State	8·6 −6·3	58	33·8 0	23·2 +0·6	72 −3	50	3·7 +1·2	3·5
13. Mysore	29·7 +21·4	358	34·0 −0·5	21·1 +0·6	64 +6	37	2·6 +0·8	3·8
14. Kerala	112·1 +76·3	313	32·2 +0·1	24·7 −0·1	82 +6	75	4·0 +1·9	5·0
Sub-Division								
1. Bay Islands	0 −28·5	0	31·7 +0·9	21·9 0	65 −7	73	2·5 −0·4	3·7
2. Assam (Including Manipur, Tripura)	23·2 −58·7	28	29·0 +0·3	16·6 +0·4	64 +9	57	3·1 +0·1	3·4
3. Sub-Himalayan West Bengal.	37·3 +6·1	120	28·9 −2·0	16·7 +0·7	63 +4	43	2·4 +1·1	2·3
4. Gangetic West Bengal.	34·0 +1·9	106	31·7 −1·8	19·6 −0·4	66 +3	51	2·1 −0·2	2·0
5. Orissa	46·9 +21·9	188	32·2 −1·4	21·0 −0·5	69 +1	55	2·6 +0·6	3·2
6. Bihar Plateau	24·3 +3·4	116	31·6 −1·6	17·6 0	56 +8	39	2·3 +0·7	2·9
7. Bihar Plains	43·8 +32·4	384	29·9 −2·2	16·7 +0·6	61 +14	42	2·7 +1·3	2·4
8. Uttar Pradesh (East).	28·4 +19·6	323	31·3 −1·2	16·6 +1·0	58 +10	35	2·5 +1·2	3·0
9. Uttar Pradesh (West).	35·3 +20·0	231	29·4 −1·0	14·8 +0·5	58 +7	34	2·9 +1·1	3·4
10. Punjab (India) (Including Delhi).	19·2 +1·7	110	28·7 −1·5	13·9 −0·2	67 +15	43	2·9 +0·8	3·3
11. Himachal Pradesh.	67·4 ..	..	24·3 ..	9·5 ..	79 ..	54	4·1 ..	4·4
12. Jammu and Kashmir.	62·7 −16·3	79	9·0 −1·3	−0·8 +0·9	65 −5	59	6·2 +1·3	6·3
13. Rajasthan (West)	7·2 +0·9	114	31·1 −0·2	15·2 +0·2	47 −1	21	2·4 +0·4	2·7
14. Rajasthan (East)	7·9 +2·7	152	30·5 −1·1	15·3 −0·2	42 +3	21	2·7 +1·3	3·1
15. Madhya Pradesh (West).	16·1 +8·3	206	32·3 −1·2	16·6 +0·1	41 +6	23	2·6 +1·3	3·3
Sub-Division—*contd.*								
16. Madhya Pradesh (East).	38·8 +21·0	218	32·4 −0·8	17·2 0	52 +7	30	2·7 +1·0	3·4
17. Gujarat	0 −0·9	0	33·3 −2·2	18·3 +0·6	53 +4	25	1·9 +0·8	2·2
18. Saurashtra and Kutch.	3·5 +1·4	167	31·2 −1·7	18·5 0	68 +4	47	2·4 +1·0	2·1
19. Konkan	0 −0·8	0	30·2 +0·1	22·3 +0·7	67 −3	64	2·3 +0·6	1·8
20. Maharashtra (Including Marathwada).	2·5 +2·0	500	35·6 −0·3	18·8 +0·5	43 +2	21	1·4 +0·5	2·8
21. Vidarbha	39·7 +26·5	301	34·7 −2·1	19·2 −0·4	51 +15	28	2·3 +1·1	3·0
22. Coastal Andhra Pradesh.	17·3 +8·5	197	33·0 −1·1	22·9 −0·1	73 −1	64	2·7 +0·3	2·5
23. Telangana	35·7 +25·9	364	34·3 −1·1	21·6 +0·9	67 +7	35	2·5 +0·9	2·7
24. Rayalaseema	4·9 +0·6	114	37·3 −0·7	23·3 +0·3	61 +8	41	1·7 +0·7	1·9
25. Madras State	8·6 −6·3	58	33·8 0	23·2 +0·6	72 −3	50	3·7 +1·2	3·5
26. Coastal Mysore	5·5 +3·6	289	31·9 −0·3	24·3 0	78 +2	66	3·6 +1·2	3·5
27. Interior Mysore (North).	43·9 +36·4	585	35·3 −0·6	21·2 +0·2	52 +3	30	1·9 +0·8	3·5
28. Interior Mysore (South).	27·7 +15·4	225	33·3 −0·5	20·4 +1·1	72 +10	34	3·0 +0·7	4·3
29. Kerala	112·1 +76·3	313	32·2 +0·1	24·7 −0·1	82 +6	75	4·0 +1·9	5·0
30. Arabian Sea Islands.	3·3 −5·8	36	33·3 +2·1	25·4 +0·3	75 +3	70	4·1 +1·5	5·0

NOTE—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Lire squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20-b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	28·3	..	30·1	31	22·3	..	19·9	1	0	0	..	0	..	0	..	8·5	5·2	..	0	0	0	0	0	8	0	0	0	0	0
Long Island	31·0	..	32·3	26	22·1	..	21·1	16, 17	0	0	..	0	..	0	..	3·2	1·6	..	0	0	0	0	0	0	0	0	0	0	0
Port Blair	31·7	+0·9	32·9	26	21·9	0	19·8	17	0	0	−28·5	0	..	0	−2·1	9·2	6·2	−3·3	0	0	0	0	0	5	0	0	0	0	0
Car Nicobar	31·1	..	32·2	26,30	21·1	..	18·2	17	3·0	5·0	..	3·0	26	1	..	9·0	4·2	..	0	2	0	0	0	0	0	0	0	0	0
Nancowry	33·7	..	34·9	10	24·7	..	23·7	24	55·8	70·8	..	25·8	29	4	..	0	0	..	0	4	0	0	3	0	0	0	0	0	0
Kondul	29·9	..	31·5	28	23·4	..	20·2	23	15·5	83·4	..	55·0	23	4	..	8·8	5·1	..	0	5	0	0	3	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	26·7	..	33·2	29	16·7	..	11·3	13	4·8	53·2	..	20·8	15	7	..	11·2	15·3	..	1	8	0	0	2	0	0	0	0	0	0
Digboi	(a) 28·2	..	32·7	29	(a) 15·5	..	11·0	2	(a) 3·4	(a) 43·8	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Dibrugarh	28·4	+2·3	34·4	29	16·5	+0·5	13·3	2, 13	4·0	24·8	−78·3	9·6	15	4	−4·5	4·0	2.6	+0·3	1	5	0	0	1	0	0	0	0	0	0
Dibrugarh (Mohanbari Aerodrome)	27·4	..	33·4	29	15·2	..	11·4	25	22·8	47·0	..	16·6	6	8	..	4·1	2·3	..	1	9	0	0	3	1	0	0	0	0	0
North Lakhimpur	27·7	..	32·6	29	14·8	..	11·1	13	2·9	48·7	..	25·0	15	3	..	..	..	..	2	12	0	0	5	0	0	0	0	0	0
Sibsagar	28·1	+1·9	33·4	31	16·4	+0·8	12·7	2	6·1	39·7	−72·1	20·2	15	4	−4·5	5·0	3·5	−0·4	0	7	0	0	2	6	0	0	0	0	0
Jorhat	28.7	..	34·1	31	15·7	..	12·1	2	5·3	31·4	..	17·7	15	3	..	..	..	..	0	7	0	0	5	0	0	0	0	0	0
Golaghat	(a) 29.5	..	35·1	31	(a) 15·9	..	12·2	3, 4	12·0	5·0	..	12·0	7	2	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Gohpur	28.3	..	32·7	31	14·5	..	10·5	1	0	31·6	..	31·6	15	1	..	6·6	2·5	..	0	1	0	0	0	0	0	0	0	0	0
Tezpur	29·2	+0·6	35·0	31	17·2	+0·4	15·2	25	0·6	5·1	−43·7	1·9	8	0	−4·5	7·3	5·4	+0·1	2	4	0	0	0	0	0	0	0	0	0
Tezpur (P.B.O.)	29·0	..	35·1	31	16·4	..	13·7	5	2·7	31·7	..	15·3	12	4	..	4·4	2·8	..	0	6	0	0	4	1	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	10·8	53·2	..	38·0	15	4	..	7·1	4·8	..	0	9	0	0	0	0	0	0	0	0	0
Chaparmukh	30·3	..	36·6	31	16.1	..	12.8	4, 25	0·5	23·8	..	19.0	15	2	..	..	..	..	5	3	0	0	3	0	0	0	0	0	0
Tangla	29.5	..	35·3	31	15·3	..	11·6	4	0	43·1	..	6·6	12	3	..	4·0	1·5	..	0	6	0	0	0	0	0	0	0	0	0
Gauhati	29·5	−0·4	36·1	31	17·1	+1·4	15·4	13	0·8	30·4	−20·1	8·0	1	4	+0·2	1·9	1·6	−1·5	0	6	0	0	0	0	0	0	0	0	0
Gauhati (Bborjor Aerodrome)	29·4	..	35·9	31	15·2	..	10·5	25	3·0	14·6	..	5·2	12	2	..	..	..	..	0	7	0	0	3	2	0	0	0	0	0
Rangiya	29·2	..	35.8	31	14·8	..	10·8	9	(b) 4·2	(b) 26·3	..	..	..	..		(c) 7·1	(c) 5.0	..	..	..	0	0	0	0	0	0	0	0	0
Goalpara	30·5	..	37·1	31	15·5	..	10·7	29	24·0	35·2	..	24·0	7	3	..	..	..	..	1	3	0	0	0	0	0	0	0	0	0
Dhubri	28·7	−1·3	37·8	31	18·0	+0·7	14·5	23	9·8	25·0	−17·2	6·4	8	4	+1.5	8·0	6·0	−1.2	0	6	0	0	0	0	0	0	0	0	0
Dhubri (Rupsi Aerodrome)	29.4	..	38·2	31	15.5	..	12·1	24	13·6	46·4	..	18·4	6	5	..	9·2	4·8	..	0	8	0	0	3	1	0	0	0	0	0
Tura	28·3	..	35·2	28	16.1	..	12·6	2,7	48·8	107·4	..	28·2	9	5	..	8·3	7.6	..	0	8	0	0	0	0	0	0	0	0	0
Agartala	30·9	..	35·8	29	17·6	..	12·7	25	18·6	122·9	..	98·6	1	3	..	9·7	6·5	..	0	4	0	0	5	0	0	0	0	0	0
Kailashar	31·0	..	36·9	28	15·9	..	10·8	25	9·0	57·1	..	37·4	1	2	..	6·9	3·3	..	0	3	0	0	5	0	0	0	0	2	0
Silchar	28·1	−2·1	34·6	22	17·0	−0·2	13·2	25	15·4	25·8	−145·9	10·6	13	3	−5·1	−5·0	2·6	−0.5	0	5	0	0	0	0	0	0	0	0	0
Silchar (Kumbhigram Aerodrome)	30·7	..	38·0	28	16·8	..	12·2	4	4·4	12·5	..	4·9	7	2	..	10·0	9·1	..	1	4	0	0	3	0	0	0	0	0	0
Imphal	(g) 5·4	..	31·8	28	10·1	..	5·3	25	4·8	15 6	..	7·2	1	3	..	13·0	7·2	..	0	6	0	0	2	4	0	0	0	0	0
Haflong	26·7	..	31·4	28	15·9	..	10·9	3	9·1	16·2	..	8·4	7	2	..	11·5	10·8	..	0	6	0	0	4	0	0	0	0	0	0
Lumding	31·2	+1·1	37·1	17	13·9	−0·7	19·0	4	12·0	12·4	−33·3	12·0	8	1	3·3	5·4	2·5	..	0	2	0	0	1	0	0	0	0	0	0
Sub-Himalayan West Bengal																													
Cooch Behar	28·8	..	35.3	30	15·5	..	12·4	23	10·6	46·0	+4·3	22·0	6	5	+2·5	8·9	4·7	..	1	5	0	0	7	0	0	0	0	0	0
Jalpaiguri	26·9	−2·7	34·1	30	16·1	+0·4	12·3	23	28·8	47·0	+14·7	17·0	8	4	+1·7	10·4	7·0	+4·1	0	7	0	0	4	0	0	0	0	0	0
Bagdogra	27·6	..	33·4	31	14·1	..	9·2	23	48·8	85·7	..	19·6	23	5	..	12·6	9·0	..	1	5	0	0	4	0	0	0	0	0	0
Malda	31·0	−1·3	39·1	31	17·4	+1·0	15·0	8	0·6	19·0	−0.6	15.2	7	2	+0.7	10·7	7·0	+1·0	0	4	0	0	4	0	0	0	0	0	0
Gangetic West Bengal																													
Dum Dum	32·1	..	38·2	31	19·2	..	13·8	3	0·2	25·2	..	24·8	3	4	..	7·6	5·7	..	2	6	0	0	7	2	0	0	0	0	0
Calcutta	32·7	−0·9	38·3	31	20·6	+0·2	15·1	3	9·2	42·1	+7·6	13·0	3	5	+2·7	9·8	5·9	+0·3	1	8	0	0	8	3	0	0	0	4	0
Barrackpore Aerodrome	31·3	..	38·1	31	19·1	..	13·8	26	0	81·0	..	34·5	2	5	..	..	..	..	0	6	0	1	5	2	0	0	0	3	0
Saugor Island	29·1	−1·2	33·1	20, 28	22·7	−0·7	15·7	1	3·5	30·6	−2·2	18·2	1	3	+1·2	19·8	18·6	+3·2	1	6	0	0	5	0	0	0	0	0	0
Sandheads	29·7	..	35·1	23, 26	24·6	..	17·8	3	12·9	21·5	+0·7	8·7	3	3	+2·0	..	..	..	0	3	0	0	3	0	0	0	0	0	0
Contai	31·1	..	34·9	28	20·9	..	15·9	27	2·2	26·2	..	10·1	1	4	..	11·6	8·8	..	0	7	0	0	0	0	0	0	0	0	0
Midnapore	32·5	−2·6	40·1	31	19·9	−0·9	12·6	3	0	36·6	+0·8	13·0	2	4	+1·6	6·5	5·5	+1·3	0	5	0	0	2	0	0	0	0	0	0
Purulia	31·4	..	39·5	31	19·1	..	14·3	12	1·0	40·7	..	17·2	12	5	..	6·7	4·4	..	0	7	0	0	1	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	63·0	+35·3	34·0	3	4	+2·1	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Burdwan	30·2	−3·9	38·0	31	17·8	−1·9	15·5	11 days	0	34·2	−5·4	20·1	8	2	−0·3	10·1	9·0	+5·8	0	2	0	0	1	0	0	0	0	0	0
Krishnagar	33·3	−0·4	40·0	31	18·4	−0·3	14·6	24	0·3	7·1	−31·5	3·0	3	1	−1·1	3·8	3·6	−1·1	0	6	0	0	0	0	0	0	1	1	0
Asansol	31·9	−2·4	39.9	31	19·2	+0·4	14.9	7	7·3	22·4	+1.6	10·9	7	3	+1·2	7·4	5·3	−1·5	0	4	0	0	4	0	0	0	0	2	0
Suri	32·4	..	40·4	31	18·9	..	14·4	3	4·2	15·0	..	6·4	23	3	..	12·4	8·2	..	0	3	0	0	3	0	0	0	0	0	0

(a) Me an of 30 days. (b) Mean of 29 days. (c) Mean of 26 days. (g) Mean of 24 days.

Division and station	Air temperature in °F								Rainfall in millimetres					No. of rainy days upto (2.5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—*contd.*																													
Berhampore	31·9	−1·5	38·5	30,31	18·8	+0·3	14·7	25	25·9	35·8	+9·4	29.2	23	2	+0·1	2·1	1·0	−2·5	0	3	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	33·0	..	40·9	31	19·5	..	16·3	26	6·9	89·6	..	29·0	1	6	..	5·2	3·6	..	0	8	0	0	7	17	0	0	0	0	0
Balasore	31·4	−2·3	36·7	31	20·6	−0·2	16·8	26	19·2	65.4	+18·7	23·2	1	6	+3·1	11·4	6·1	−0·2	0	8	0	0	9	0	0	0	0	0	0
Chandbali	33·1	−1·1	37·5	31	20·5	−1·0	16·1	2,25	22·2	79·5	+46·7	28·2	1	4	+1·9	13·2	9·2	−0·5	0	5	0	0	1	1	0	0	0	0	0
Cuttack	34.5	−1·4	39·2	31	21·8	−0·3	17·8	7	6·2	21·0	−5·4	12·4	20	2	+0·6	7·6	6·4	+2·5	2	2	0	0	3	0	0	0	0	0	0
Bhubaneswar	33·7	..	37·6	31	21·6	..	16·2	2	31·6	40·6	..	28·2	2	3	..	17·0	14·5	..	0	5	0	0	5	3	0	0	0	0	0
Puri	29·9	−0·3	33·9	22	23·8	−0·4	17·8	7	0	28·2	−15·5	28·2	7	1	+0.1	21·7	21·3	+4.2	0	1	0	0	2	0	0	0	0	0	0
Gopalpur	30·5	−0·1	33·3	28	22·2	−0·5	17·9	3	8·2	12·4	−3·6	8·2	2	1	−0·1	20·5	17·5	+1·7	0	4	0	0	4	0	0	0	0	0	0
Koraput	30·5	..	35·6	30	17·6	..	14·4	3	0	14·0	..	14·0	8	1	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Titilagarh	35·0	..	40·6	31	19·8	..	14·6	2	0	42.0	..	22·0	21	2	..	4·1	3·0	..	0	3	0	0	2	0	0	0	0	0	0
Bolangir	34·3	..	39·8	31	20·7	..	16·9	8	0	34.8	..	17·8	21	2	..	7·2	7·1	..	0	2	0	0	1	0	0	0	0	0	0
Phulabani	32.5	..	37·3	31	15·4	..	10·2	5	31·9	59·0	..	18·4	7	5	..	5·1	3·2	..	0	6	0	0	1	0	0	0	0	0	0
Angul	33·1	−2·3	39·2	31	19·6	−0·5	17·1	25	54·4	86·6	+68.1	52·0	7	4	+2·3	8·1	7·1	+0·5	0	6	0	0	6	2	0	0	0	0	0
Sambalpur	33·0	−2·4	38·6	30	18·7	−0·6	14·8	26	15·7	35·0	+12·2	11·9	21	4	+2·3	6·9	4·2	+0·2	0	6	0	0	4	0	0	0	0	0	0
Keonjhar	31·3	..	38·0	31	17·7	..	14·3	25	27·2	58·6	..	21·1	1	5	..	7·6	5·5	..	0	7	0	0	3	2	0	0	0	0	0
Jharsuguda	32·7	..	38·7	31	18.3	..	13·9	25	7·7	51·7	..	11·1	22	7	..	8·9	7·4	..	1	7	0	0	8	0	0	0	0	0	0
Bihar Plateau																													
Jamshedpur	32·7	−1·7	39·5	31	18·8	+0·6	14·4	25	4·4	22·4	+4·4	7·6	9	3	+1·0	8·5	6·0	+1 7	0	7	0	0	4	0	0	0	0	0	0
Jamshedpur(P.B.O.)	32·5	..	39·6	31	18·6	..	14·4	25	5·1	31·0	..	10·4	9	6	..	8·7	5·9	..	1	8	0	0	6	0	0	0	0	0	0
Chaibasa	32·3	−2.3	39·4	31	18·8	0	14·7	26	10·4	33·7	+1·6	11·0	1	6	+4·3	4·5	2·8	−0·4	0	7	0	0	3	0	0	0	0	0	0
Ranchi	30·1	−0·4	37·3	31	12·3	−5·1	8·7	24, 25	7·6 (n)	23·8 (j)	−6·4	14·0	12	3	+0·5	4·4 (n)	3·3 (k)	−4·1	0	4	0	0	2	0	0	0	0	0	0
Ranchi (C.W.O.)	31·2	..	..	..	17·4	..	..	..	7·6	11·9	..	..	..	..	..	12·4	9·1	..	0	4	0	0	4	1	0	0	0	0	0
Daltonganj	31·8	−1·1	39·1	31	16·2	+0·7	11·2	25	1·0	40·0	+23·0	19·8	7	3	+1·4	.	..	..	0	4	0	0	2	0	0	0	0	0	0
Hazaribagh	29·6	−1·3	36·6	31	16·2	−1·1	11·7	24	7·4	25·3	+1·4	7·7	7	4	+2·1	12·9	9·1	−1·2	0	5	0	0	5	0	0	0	0	0	0
Dhanbad	30·6	..	38·9	31	19·3	..	14·7	3	25·3	29·8	..	14·8	23	3	..	(c) 7·7	(e) 7·5	..	0	3	0	0	2	0	0	0	0	0	0
Dumka	31·7	−1·5	39·6	31	17·7	−0·4	13·8	25	0	0	−23·1	0	..	0	−1·6	..	..	..	0	0	0	0	2	0	0	0	0	0	0
Bihar Plains																													
Purnea	30·3	−1·6	38·0	31	15·1	−0·1	11·0	25	13·4	43·2	+30·5	11·2	23	5	+3·9	9·5	4·9	+0·4	0	6	0	0	2	2	0	0	0	0	0
Forbesganj	30·1	..	38·0	31	14·1	..	10·6	24	30·6	51·0	..	19·4	8	5	..	12·2	7·5	..	0	6	0	0	3	3	0	0	0	0	0
Darbhanga	29·7	−1·9	38·4	31	16·8	+1·0	13·2	25	4·2	31·7	+18·8	20·5	7	3	+1·9	8·6	5·6	+1·3	0	4	0	0	1	0	0	0	0	0	0
Motihari	27·9	−3·5	37.4	31	15·9	+1·4	11·1	25	0	45·1	+32·6	31·0	7	2	+1·1	8.7	3·0	−1·8	0	2	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	94·0	+84·3	53·3	6	3	+2·1	..	..	..	0	3	0	0	0	0	0	0	0		0
Chapra	30·6	..	40·8	6	17·0	..	12·8	2	18·3	63·9	+54·8	18·3	23	4	+3·1	7·8	5·2	..	0	5	0	0	3	2	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	40·8	+31·1	25·4	7	3	+2·1	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Patna	30·7	−1·4	38·6	31	18·0	+0·1	13·9	24	12·2	38·4	+27·7	25·2	7	3	+1·9	8·4	8·1	+2·5	0	5	0	0	3	2	0	0	2	0	0
Patna (Aerodrome)	30·2	..	38·8	31	16·3	..	12·2	24	10·8	39·7	..	21·3	7	4	..	11·6	6 6	..	0	4	0	0	1	2	0	0	0	0	0
Deluri	31·0	..	38·9	31	18·2	..	13·4	3	9·7	72·7	+61·5	30·4	7	4	+3·0	8·1	5·8	..	0	5	0	0	2	0	0	0	0	0	0
Gaya	31·2	−2·0	39·3	31	16·9	−0·4	12·8	25,31	1·9	32·4	+19·9	19·1	7	3	+1·8	10·4	6 4	−1·2	1	4	0	0	5	3	1	0	0	1	0
Jamui	31·8	..	40·3	31	20·2	..	14·9	8,9	3·4	21·4	..	16·7	7	2	..	10·4	5·0	..	0	4	0	0	1	3	0	0	0	0	0
Bhagalpur	30·4	..	38·3	31	18·0	..	14·6	23	3·4	23·0	..	16.6	7	2	..	12·0	8·0	..	0	3	0	0	3	2	0	0	0	0	0
Sabour	30·2	−2·4	38·9	31	16·0	+0·9	11·7	26	1·2	22·2	+11·5	17·4	7	2	+1·1	12·8	7·8	−0·6	0	3	0	0	4	3	0	0	0	0	0
Uttar Pradesh (East)																													
Gonda	30·4	−1·8	37·8	30	16·1	+1·0	11·7	25	7·0	21·4	+10·8	6·6	8	4	+3·2	7.6	5·3	−2·1	0	5	0	0	2	0	0	0	0	0	0
Nautanwa	27·5	..	34·8	30,31	14·6	..	10·0	4	0	31·0	..	17·8	7	3	..	9·0	6·2	..	0	3	0	1	1	0	0	0	0	0	0
Gorakhpur	31·3	−0·9	38·6	30,31	17·7	+1·4	13·1	25	17·2	46·2	+36·3	18·2	22	4	+3·2	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Azamgarh	31·8	..	39·2	31	15·9	..	10·7	24	11·0	41·2	..	12·8	12	4	..	..	..	..	0	4	0	1	1	0	0	0	0	0	0
Ballia	30·7	..	39·0	31	17·2	..	13·6	25	10·1	59·4	..	33·0	12	4	..	8·1	5·1	..	0	5	0	1	0	0	0	0	0	0	0
Varanasi (Banaras)	31·5	−1·6	38·4	31	17·5	+1·1	13·4	3	7·4	32·5	+23·1	15·7	7	3	+2·1	5·0	4·3	−1·3	0	3	0	0	2	1	2	0	0	0	0
Varanasi (Banaras) (Babatpur Aerodrome)	31·2	..	38·4	31	16·5	..	11·7	25	6·6	18·0	..	8·6	11	2	..	14·0	9·0	..	0	3	0	1	3	3	1	0	0	0	0
Allahabad (Bamrauli).	32·7	−0·5	39·2	31	16·9	+0·8	11·8	24	0·4	8.3	−5·9	7·7	11	1	−0·3	7·9	5·0	−1·1	1	2	0	0	5	1	0	0	0	0	0
Sultanpur	30·2	..	35·6	30,31	16·5	..	12·6	23	4·1	15·1	..	10·7	22	2	..	8·6	6·2	..	0	2	0	0	1	0	0	0	0	0	0
Faizabad	30·6	..	37·6	30	14·8	..	10·2	24	3·0	30·0	..	16·7	22	3	..	7·8	4·8	..	0	5	0	0	3	1	0	0	0	0	0
Banda	32·2	..	38 9	31	15·8	..	10·9	23	19·0	36·1	..	19·0	22	2	..	6·5	3·6	..	0	3	0	1	0	0	2	0	0	0	0
Fatehpur	31·8	−1·1	37·8	31	16·7	+1·0	11·3	23	3·0	16·7	+9·6	10·5	11	2	−1·1	10·0	6·0	+0·5	0	2	0	0	4	0	0	0	0	0	0
Kanpur	31·3	−0·6	37·2	30,31	17·1	+1·6	11·9	23	7·0	14·0	+6·6	7·0	11	2	+1·2	14·4	10·1	+0·4	0	3	0	0	2	0	0	0	0	0	0
Kanpur(Aerodrome)	31·5	..	37·3	31	16·5	..	11·2	23	1·0	7·5	..	6·5	11	1	..	..	..	..	0	3	0	0	3	0	1	0	0	0	0

(c) Mean of 29 days. (e) Mean of 26 days. (j) Mean of 21 days (k) Mean of 20 days. (n) Mean of 18 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—*contd.*																													
Lucknow	31.2	−1·5	36.7	30,31	16.0	+0.1	11.3	23	6.8	12.4	+3.8	6.8	12	2	+1.1	7.2	4.8	+1.1	0	3	0	0	1	1	0	0	0	0	0
Lucknow (Amausi Aerodrome)	30·8	−1·5	36·7	31	15·4	+1·3	10.1	23	33·4	42·4	+33·8	16·3	22	3	+2·1	14.4	9·4	..	0	5	0	1	5	1	0	0	0	2	0
Hardoi	30·5	..	36·8	30	15·5	..	9·9	23	11·6	28·6	..	8·6	12	5	..	10·1	7·0	..	0	8	0	0	0	1	0	0	0	0	0
Lakhimpur Kheri	29·9	..	36·7	31	15·3	..	10·7	23	11.0	46·6	..	14·0	8	5	..	7·6	4.7	..	0	7	0	0	4	0	2	0	0	0	0
Bahraich	30·3	−1·2	38·4	30	15·7	+0·8	10·6	23	43·7	62·0	+52.1	23·6	7	5	+4·2	10·2	7.3	+2·8	0	5	0	1	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Orai	31·8	..	37·2	31	15·5	..	10·3	23	0	7·3	..	5.0	11	1	..	12·2	8·3	..	0	4	0	0	0	0	0	0	0	0	0
Jhansi	32·5	−1·1	37·0	31	16.8	+0·1	12·2	25	3.0	8.4	0	8·4	12	1	+0·2	7·1	4·8	−0·3	0	1	0	0	1	0	0	0	0	0	0
Agra	31·2	−0·4	36·0	31	15·3	+1·3	9·9	23	0	43.4	+35·3	41·3	11	1	+0·2	4·8	4·7	−1·3	0	2	0	0	0	0	3	0	0	0	0
Agra (Aerodrome)	30·6	..	35·4	31	15·0	..	8·8	23	0	45·9	..	35·5	11	3	..	..	..	..	0	5	0	0	9	0	1	0	0	0	0
Mainpuri	31·3	−0·9	36·2	29,30	15.9	+1·2	9·8	23	4.2	41·0	+32.4	28·2	11	4	+3·2	6·2	4.4	+0·5	0	4	0	0	3	0	0	0	0	0	0
Aligarh	29·8	−0.3	34·4	31	14·4	−0·3	8·5	23	1.9	32·2	+17.7	26·3	11	2	+0·7	8·7	6·9	0	0	5	0	0	3	0	0	0	0	0	0
Bareilly	29·5	−1·1	36·0	30	15·5	+0·7	10·7	23	18·9	70·5	+55·0	34·9	11	4	+2·7	7.5	4·1	+0·1	0	6	0	1	5	1	0	0	0	0	0
Meerut	28·9	−1·0	34·4	30	14.1	+0·1	8·4	23	..	13·0	−2·2	7·0	11	2	+0·6	..	6·3	..	0	2	0	0	0	0	0	0	0	0	0
Najibabad	28·2	..	33·2	31	12·4	..	6·3	24	0·6	24·2	..	6·8	11	4	..	8.2	4·9	..	1	5	0	0	8	0	0	0	0	0	0
Roorkee	27·2	−1·6	33·1	31	13·7	+0·9	8·8	24	0·5	19·6	−0·2	7·4	8	3	+1·4	7·7	4.8	+0·8	0	7	0	0	6	0	0	0	0	0	0
Dehra Dun	24·9	−1·4	29·8	28	12·4	+0·1	5.6	23	1·0	53·9	+2·9	14·6	8	7	+4·3	5·2	4·2	+0·8	1	10	0	2	10	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
New Delhi	28·8	−1·8	33·2	31	15·2	+0.4	10·4	24	0.7	25·4	+12·5	3·5	14	3	+1·7	12·5	9·9	−1·5	0	4	0	0	7	0	2	0	0	4	0
New Delhi (Palam Aerodrome)	28·6	..	34·1	31	14·4	..	8·3	24	2·2	32·0	..	12·0	14	3	..	..	..	..	0	5	0	1	6	0	1	0	0	0	0
Hissar	29·2	−1·8	34·2	4	13·1	−0·7	6·7	23	3·6	13·8	−2·5	11·2	11	1	−0·5	9·9	8·6	+1.7	0	3	0	0	3	0	0	0	0	0	0
Karnal	28·2	..	32·2	30,31	12.2	..	7.2	23	5·4	20·6	..	10·4	11	2	..	..	..	..	1	2	0	0	0	0	0	0	0	0	0
Patiala	27·3	..	32·3	31	12·9	..	8·8	22	9·1	27·1	+10·3	9·0	10	4	+2·3	10·1	8·4	..	0	7	0	1	9	0	0	0	0	0	0
Ambala	28·2	−0·9	33·3	31	13.4	−0·2	9·5	1,23	0	10·6	+13·3	6·0	11	2	+0·2	13·0	8·7	+2·7	0	3	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	27·4	..	32·3	31	12·5	..	7·8	1	0	14·0	..	5·0	11	2	..	..	..	..	0	8	0	0	13	1	1	0	0	0	0
Chandigarh	27·0	..	30·6	31	13·0	..	8·2	23	27·9	50·7	..	21·2	10	6	..	..	..	..	0	8	0	1	0	0	0	0	0	0	0
Ludhiana	27·3	1.1	32·2	31	12·6	−0.9	7.2	24	10·3	19·7	−4·2	7.0	17	4	+2·2	8·9	5·9	+2·7	0	4	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	26·0	..	31·7	3	10·1	..	5·3	24	8.9	13·9	..	5·6	17	2	..	..	..	..	0	7	0	0	12	0	0	0	0	0	0
Bhatinda	27·4	..	31·8	3,27	10.9	..	6.6	23	2·0	36·1	..	15·5	10	5	..	10·6	7·3	..	0	7	0	2	7	0	1	0	0	0	0
Ferozepur	26·4	..	31·3	3	11·7	..	5·8	19	2·6	16·8	..	5·2	9	3	..	6·0	3·2	..	0	4	0	0	0	0	1	0	0	0	0
Amritsar	25·9	..	30·4	3	11 3	..	5·9	24	15 2	46·1	..	16·4	9	4	..	14·0	9·2	..	0	11	0	0	11	0	0	0	0	3	0
Pathankot (Aerodrome)	25·3	..	29·5	30	12·7	..	6.8	23	17·5	44·7	..	10·8	10	6	..	12·6	10·1	..	0	9	0	1	8	0	4	0	0	3	0
Adampur (Aerodrome) (R)																													
Himachal Pradesh																													
Bilaspur	25·2	..	30·2	31	10·3	..	6·4	23	20.8	46·8	..	10·5	17	6	..	7.2	5·3	..	0	10	0	2	10	2	1	0	0	0	0
Mandi	23·5	..	27·3	1	8·7	..	4·3	2	20·1	88.0	..	21.4	29	7	..	3·2	2·7	..	1	12	0	2	10	1	0	0	0	0	0
Jammu and Kashmir																													
Srinagar	11·0	−2·8	18·9	1	3·2	+0·4	0	11, 24	69·0	150·0	+58·43	56.4	11	10	+2·6	8·0	7·1	+2·0	2	15	3	1	2	0	1	0	0	0	0
Srinagar (Aerodrome)	10·8	..	20·4	3	2·2	..	−0·6	23	66·7	131·8	..	46·8	11	10	..	..	..	..	0	12	6	0	1	0	0	0	0	0	0
Gulmarg	Closed during winter months																												
Sonemarg *	..	..	..	..	..		..	..	..	..		..	..	..	..	..	..	..	0	0	19	..	..	..	..	..	..	..	..
Dras	..	..	..	..		..	..	..	..	17·2	−121·0	3·7	16	2	−7·8	..	..	..	5	9	..	..	..	..	..	..	..	..	..
Kargil *	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	0	4	..	..	..	..	..	..	..	..
Leh	7·0	+0·2	13·3	27	−4·8	+1.3	−11·4	24	3.1	20·8	+15·7	12·5	29	2	+1·1	7·3	6·3	+3·1	0	2	4	0	0	0	0	0	0	0	0
Skardu (R)																													
Gilgit (R)																													
Misgar (R)																													
Jammu (R)																													
Jammu (Aerodrome)	25·0	..	29·8	3	13·3	..	7·8	24	25·9	63·2	..	12·7	22	8	..	..	..	..	0	8	0	1	10	0	1	0	0	1	0
Rajasthan (West)																													
Sri Ganganagar	28·4	+0·1	33·2	4	13·4	+2·2	8·8	20	0	19·1	+6·2	12·0	10	2	+0.6	6·9	5·1	−3.6	1	7	0	0	4	0	1	0	0	0	0
Churu	29·9	..	35·3	27	12·9	..	6·2	23	3.0	6·3	..	3·0	6	1	..	12·0	8·6	..	0	4	0	1	6	0	1	0	0	0	0

(R) Registernot received.

* Rainfall not recorded.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more.)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Rajasthan (West) —*contd.*																														
Bikaner	31·6	−0·3	36·2	3	13·0	−1.6	7·0	23	0	1·1	−4·7	0·6	22	0	−0·6	8·0	6·4	−0·4	0	2	0	0	2	0	0	0	0	0	0
Jaisalmer	30·9	..	35.6	2,3	15.4	..	6.0	23	0	0.2	..	0.2	27	0	..	14·0	11.9	..	1	0	0	0	0	0	0	0	0	0	0
Phalodi	31·0	..	35 9	3	16·1	..	10·3	24	0	0	−3·6	0	..	0	−0·4	14·8	10·7	..	0	0	0	0	2	0	0	0	0	0	0
Nagaur	31·0	..	36.1	27	14·9	..	9·4	23	0	1.1	..	1.1	10	0	..	11.4	8.4	..	0	1	0	0	1	0	2	0	0	0	0
Jodhpur	31·9	−0·6	36·2	27	16·7	+0·3	10·0	22	0	0	−2·8	0	..	0	−0·2	12·7	9·5	−1.6	0	0	0	0	1	0	0	0	0	0	0
Barmer	32·3	0	36·5	2	17·8	−0·1	13·9	20	3·4	15.8	+9.5	11·8	8	2	+1·4	..	..	..	0	2	0	0	4	0	0	0	0	0	0
Rajasthan (East)																														
Pilani	29·7	..	35·6	27	13·5	..	6·3	23	6·3	35·0	..	15·2	14	5	..	13.4	9.9	..	0	5	0	0	0	0	1	0	0	0	0
Alwar	29·9	..	33·9	4,27, 31	15.3	..	9 3	23	0·4	32.2	..	29·0	6	1	..	7·0	4·4	..	0	4	0	0	2	0	1	0	0	0	0
Sikar	29·6	..	34·2	27	14 1	..	5·3	24	5·0	15·2	..	13·2	11	1	..	10·0	9·5	..	0	3	0	0	2	0	1	0	0	0	0
Jaipur (Sanganer Aerodrome)	30·0	−1·0	34·6	27	15·4	+0·7	8·3	22	1·6	9·5	+0·9	5.6	8	2	..	..	..	..	1	8	0	0	6	0	0	0	0	3	0
Dholpur	31.2	..	35·9	31	15·4	..	9·6	23	0	37·2	..	34·6	11	1	..	8.5	5·5	..	0	2	0	0	7	0	2	0	0	0	0
Tonk	31·9	..	36·7	27	15·0	..	8·8	25	2·8	5·6	..	5·0	11	1	..	9·6	7·5	..	1	2	0	0	3	0	0	0	0	0	0
Ajmer	29·1	−1·8	34·6	27	15 4	−0·3	10·5	24	3·7	9·9	+4·1	4·8	6	2	+1·3	11·0	7·9	+2·8	0	4	0	0	4	0	0	0	0	0	0
Kotah	33·0	−0·7	39·0	27	17·9	−0·5	12·9	24	0	1.2	−3·1	0.6	8	0	−0·5	5·3	3.9	+0·5	2	1	0	0	1	0	0	0	0	0	0
Chambal	32·5	..	37·8	27	15·3	..	10·5	25	1.1	3·1	..	2.3	9	0	..	10·9	6·9	..	0	3	0	0	3	0	0	0	0	0	0
Jhalawar	33·0	0	38·3	27	16·3	+0·4	10·8	22	2·3	10·8	+7.2	10·0	11	1	+0·4	8·0	5·2	+0·4	0	2	0	0	2	0	0	0	0	0	0
Udaipur	30·1	−1·6	34·5	27	14·1	−1·7	9·7	23	0·2	1·2	−1·3	1·0	7	0	−0·3	6·0	3·7	..	1	1	0	0	1	0	0	0	0	0	0
Erinpura (Jawai Dam)	31·4	..	35·8	27	17·0	..	11·3	23	0	0	..	0	..	0	..	7·8	6 3	..	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh West)																														
Gwalior (P.B.O.).	31·7	−1·7	37·4	28	15·7	−0·2	9·8	23, 25	16·2	24·0	+18·7	17·2	11	2	+1·0	6·3	5·9	..	1	3	0	1	7	0	0	0	0	0	0
Sheopur Kalan	32·6	..	37·1	27	14·2	..	9·4	24	3.4	6·4	..	3·4	8	1	..	9·5	7·2	..	0	3	0	0	4	0	1	0	0	0	0
Guna	31·9	−0·5	36·9	31	15·2	+0·9	8·8	25	7.4	12·6	−0·1	12·6	11	1	+0·1	12·1	8·0	..	0	1	0	0	3	1	0	0	0	0	0
Rajgarh	33·1	..	38·5	27	15·9	..	10·0	24	19.2	22.2	..	15·0	8	2	..	8·4	5·7	..	0	2	0	0	2	0	0	0	0	0	0
Neemuch	31·4	−1·2	36·8	27	16·2	0	9·0	22	4·2	6·2	+3·1	4·2	11	1	+0·7	10·0	7·6	−0·6	0	2	0	0	2	0	1	0	0	0	0
Ratlam	32·4	..	37·8	27	16·9	..	12·9	22	0	0	..	0	..	0	..	9·6	7·1	..	0	0	0	0	0	0	0	0	0	0	0
Alirajpur	33·0	..	38·0	27	16.9	..	9.0	23	1·8	1·8	..	1·8	7	0	..	8·0	5·3	..	0	1	0	0	2	0	0	0	0	0	0
Indore	31·8	−2·3	37·1	31	15·3	+0·1	9·2	24	2·3	9·1	+7·1	8.6	11	1	+0·7	14·0	11·0	..	0	2	0	0	2	0	0	0	0	0	0
Ujjain	32·2	..	37·2	27	14.3	..	9·2	23	..	31.1	..	31.1	11	1	..	..	8.0	..	0	1	0	0	4	0	0	0	0	0	0
Bhopal (Bairagarh)	32·0	−1·1	37·6	28,31	16·4	−0·2	11·2	23	2·0	15·3	+6·7	14·8	11	1	+0·2	12·3	10·0	+0·2	0	2	0	0	2	1	0	0	0	1	0
Khandwa	34·9	−1·4	40 0	31	17·6	−0·5	10·2	23	0	11·6	+7·3	11·6	11	1	+0·5	11·0	7·9	+1·3	0	1	0	0	1	1	2	0	0	0	0
Hoshangabad	33·5	−0.7	39·0	31	17·7	−0·5	12·4	4	0	10·2	+4·1	10·2	11	1	+0.4	6·4	4·7	+1·2	0	1	0	0	3	0	0	0	0	0	0
Betul	31·9	..	37·7	31	15·8	..	8·2	23	15·3	17·6	..	11·4	9	3	..	7·3	4·6	..	0	3	0	0	2	0	0	0	0	0	0
Chhindwara	31·4	..	37·2	31	16·3	..	10·5	23	0	6·1	..	2·9	11	2	..	8·8	5·7	..	0	3	0	0	4	0	0	0	0	0	0
Seoni	32·1	−1·2	37·5	31	16·7	−0·4	13·0	25	11·8	31·6	+11·5	17.2	11	3	+1·0	9·6	5·6	+0·9	0	6	0	0	5	0	0	0	0	0	0
Sagar	31·1	−1·6	36·7	28	19·5	+1·4	13·4	23	0	12.0	+3·6	12.0	11	1	+0·1	9·8	7·7	..	0	1	0	0	3	0	4	0	0	0	0
Nowgong	32·5	−0·7	38·6	28	15·3	0	9·6	24	2·6	28·7	+21.1	24·8	11	2	+1·2	7.6	4.5	+1.4	0	4	0	1	6	0	0	0	0	0	0
Madhya Pradesh (East)																														
Sutna	31·7	−0·8	37·6	31	16·2	−0·1	10·7	24	10.6	43·6	+32·2	29.8	11	2	+0·9	8·8	5·5	+0.5	1	2	0	0	5	0	0	0	0	0	0
Sidhi	31·7	..	37·9	30,31	15·2	..	6·1	25	3·0	35.8	..	24.0	11	2	..	8·2	4·3	..	0	2	0	0	3	0	0	0	0	0	0
Umaria	32·0	−0·4	38·9	31	14·9	−0·3	9·5	25	4·1	17·4	−0·4	13·2	11	2	+0·3	3·1	1·5	−3·2	1	2	0	0	3	0	0	0	0	0	0
Jabalpur	33·6	+0·5	39·2	31	16·3	+1·4	9·8	24	1·2	20.4	+6·2	19·0	11	1	−0·4	6·7	4·5	+1·3	0	3	0	0	5	0	0	0	0	0	0
Mandla	32·1	..	37·8	31	14·0	..	8·4	24	6.4	26·8	..	17.2	11	2	..	3·7	1·8	..	0	7	0	0	9	0	0	0	0	0	0
Pendra	29·7	−1·0	35·5	30	16·6	−0·3	11·5	24	8·8	44·0	+16·3	22·6	6	4	+1·7	10·9	7·9	..	1	6	0	1	9	0	0	0	0	0	0
Ambikapur	30·2	..	37·2	31	14·9	..	9·5	24	4.3	30·6	..	16·8	6	3	..	11·0	7·8	..	1	4	0	0	3	0	0	0	0	0	0
Champa	32·9	..	39·4	31	18·8	..	15·4	24	3.8	59·4	..	30·2	6	5	..	6·9	5·9	..	0	6	0	0	6	0	2	0	1	0	0
Raigarh	33·6	..	40·0	31	18·2	..	13·0	7	14·2	39·8	..	15·8	7	5	..	6·9	5·1	..	0	7	0	0	2	0	0	0	0	0	0
Raipur	33·4	−1·7	38·0	30	19·2	−0·8	15·7	24	1.6	58.6	+40·6	23·5	21	4	+2·3	6·7	6·6	−0·2	0	6	0	0	6	0	1	0	0	0	0
Kanker	32·8	−1·4	37·0	30	18·7	+0·1	13·7	24	0.7	64.9	+43·3	26.3	20	5	+2·9	5·7	4·4	−0·7	0	6	0	0	8	0	0	0	0	0	0
Jagdalpur	35·5	−1.1	37·7	31	18·5	+0.2	14·7	3	7·4	22·6	+9.1	12·8	20	2	+0·8	6·9	4·6	..	0	5	0	2	7	0	0	0	0	1	0
Gujarat																														
Deesa	32·7	..	36·6	26	16·1	..	6·5	22	0	0	..	0	..	0	..	10·3	7·3	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	32·8	..	37·4	26	16·3	..	6·3	22	0	0	..	0	..	0	..	8·5	5·7	..	0	0	0	0	0	0	0	0	0	0	0
Idar	32·6	..	36·6	27,31	18·3	..	9·4	22	0	0	..	0	..	0	..	10·3	8·1	..	0	0	0	0	0	0	0	0	0	0	0
Ahmedabad	33·6	−2·5	37·5	26	17·6	−0·4	9·6	22	0	0	−1·3	0	..	0	−0·2	9·3	6·5	−1.1	0	0	0	0	0	0	0	0	0	0	0
Dohad	32·4	−2.2	37·0	27,31	18·1	+0·4	11·0	23	0	0	−1·5	0	..	0	−0·2	13.4	12.5	..	0	0	0	0	2	0	0	0	0	0	0
Baroda	33·7	−1·9	38·7	26	17·7	+2.2	11·2	23	0	0	−0·5	0	..	0	0	5·6	4·1	0·2	0	0	0	0	0	0	0	0	0	0	0
Baroda (Aerodrome).	34.1	..	39·0	26	17·4	..	11·4	22	0	0	..	0	..	0	..	8·5	6·3	..	0	0	0	0	0	0	0	0	0	0	0
Broach	35·2	..	40·0	27	18·5	..	13·4	22	0	0	..	0	..	0	..	8·0	6·5	..	0	0	0	0	0	0	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Gujarat (contd)																														
Surat	33·3	−2·3	38.0	25	19·6	+0·2	14·3	23	0	0	−0·3	0	..	0	−0·7	8·7	8·0	+2·7	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																														
Naliya	29·8	..	35·7	26	15·6	..	8·0	23	0	0	..	0	..	0	..	17·6	11.7	..	0	0	0	0	1	9	0	0	0	0	0
Bhuj (Aerodrome)	32·3	−1·5	37·1	26	16.6	−1·3	9·3	23	0	0	−2·8	0	..	0	−0·2	15·0	11·2	+1·5	0	0	0	0	3	1	0	0	0	0	0
Bhutakia Bhinasar	32·5	..	38·2	26	18·2	..	10·5	22	0	0	..	0	..	0	..	17·5	15·7	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	30·2	..	37·7	26	19·3	..	13·7	22	0	0	..	0	..	0	..	16·6	15·7	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi	..	..	..	..	15·3	..	13·8	23	0	3·0	..	3·0	10	1	..	24·1	19·8	..	0	1	0	0	0	2	0	0	2	0	0
Dwarka	27·6	−0·3	33·9	25	21·1	−0·3	15·6	23	0	10·6	+7·8	10·0	11	1	+0·8	17·4	16·3	+1.2	0	2	0	0	0	0	0	0	0	0	0
Porbandar	29·9	..	36 2	26,27	19·6	..	13·4	23	0	0	..	0	..	0	..	(l) 13·3	(o) 13·2	..	0	0	0	0	0	0	0	0	0	0	0
Porbandar (Aerodrome)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20·0	14·5	..	..	..	0	0	0	0	0	0	0	0	0
Jamnagar	30·7	−2·5	36·6	26	17·7	+0·8	10·1	23	0·3	0·3	−1·7	0·3	11	0	−0·1	..	..	..	0	1	0	0	0	3	0	0	0	0	0
Rajkot (Aerodrome)	32·8	−2.3	38·8	26	16·7	0	9·7	22	3·5	4·0	+2·5	4·0	8	1	+0·9	18·4	15·8	..	0	1	0	0	1	1	0	0	0	0	0
Surendranagar	33·0	..	38·3	26	19·0	..	13·4	22	0	0·2	..	0·2	18	0	..	(h) 12·4	(i) 11·5	..	1	0	0	0	0	2	0	0	0	0	0
Bhavnagar	33·8	−1·6	39·0	26	18·3	−0·4	11·4	22	0	2·4	−0·4	2·4	8	0	−0·2	10.8	8·7	+1·0	0	1	0	0	0	0	0	0	0	0	0
Bhavnagar (Aerodrome)	32·5	..	37·8	26	19.2	..	13·4	23	0	0	..	0	..	0	..	17·9	15·2	..	0	0	0	0	0	0	0	0	0	0	0
Mahuva	32·9	..	35·2	31	18·6	..	14·1	26, 27	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Keshod	33·1	..	36·9	25	17·0	..	11·5	23	0	0	..	0	..	0	..	18.3	15·0	..	0	0	0	0	0	4	0	0	0	0	0
Veraval	29·7	..	35·8	25	17·8	..	13·3	23	0	0	−1·3	0	..	0	−0·1	22·1	18.0	..	0	0	0	0	0	0	0	0	0	0	0
Konkan																														
Dahanu	29·2	−1·6	32·2	13	20·5	+0·4	17·2	23	0	0	0	0	..	0	0	23·1	15·1	+1·9	0	0	0	0	0	0	0	0	0	0	0
Bombay (Colaba)	31·3	+1·2	36·9	25	22·8	+0·6	19·7	23	0	0	−1·3	0	..	0	−0·1	15·3	11·2	−0·4	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz Aerodrome)	31·8	+0·6	37·9	25	21·0	+2·1	16·2	23	0	0	−0·3	0	..	0	0	16·7	11 1	..	0	0	0	0	0	0	0	0	0	0	0
Alibag	30.1	+0·4	34·5	13	21·8	+1·0	17·5	23	..	0	−0·5	0	..	0	−0·1	..	10·1	+0·4	0	0	0	0	0	0	0	0	0	0	0
Harnai	28·2	−0·9	30·3	25	23·8	0	20·8	22	0	0	0	0	..	0	0	26·5	21.0	+4·6	0	0	0	0	0	0	0	0	4	0	0
Ratnagiri	31·0	..	35·3	13	22·9	..	19·9	4	0	0	−0·8	0	..	0	−0·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Devgad	30·8	0	32·3	15	24.0	+0·1	21·6	22	0	0	−2·5	0	..	0	−0·2	2.1	17·7	+2·3	0	0	0	0	0	0	0	0	0	0	0
Vengurla	32·6	..	37·5	14	21·7	.	18·4	23	0	0	..	0	..	0	..	13.2	8·1	..	0	0	0	0	0	0	0	0	0	0	0
Maharashtra (Including Marathwada)																														
Nandurbar	35·1	..	39·8	27	20·7	..	14·2	23	0·5	0·5	..	0·5	8	0	..	9.3	7·8	..	0	1	0	0	0	0	0	0	0	0	0
Jalgaon	36·3	..	41·0	27	18·3	..	8·7	23	0	0	−3·8	0	..	0	−0·5	13.8	11·8	..	0	0	0	0	2	0	0	0	0	0	0
Malegaon	35·5	−0·9	39·6	27	17·2	+0·1	9·0	23	0	0	−2·0	0	..	0	−0·3	9.9	8·2	0	0	0	0	0	0	0	0	0	0	0	0
Deolali	33·9	..	38·4	27	16·6	..	9·3	23	0	0	..	0	..	0	..	10.2	7·9	..	0	0	0	0	0	0	0	0	0	0	0
Aurangabad	34·8	−0·7	39·2	27	20·7	+1·3	15.8	1	1·4	1·4	−3·7	1.4	11	0	−0·5	11·4	10·4	+0·4	0	1	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome).	34·5	..	38·1	27,29	17·5	..	13·3	1	4·3	4·3	..	4.0	11	1	..	12.3	10·2	..	0	2	0	0	1	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	0	0	0	..	0	0	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ahmednagar	35·3	+0·1	38·8	28	17·9	+0·6	12·6	7, 22	0	0	−5·3	0	..	0	−0·3	9·5	7·4	−1·1	0	0	0	0	0	0	0	0	0	0	0
Parbhani	35·9	..	39.4	29	18·9	..	14·4	23, 24	1.8	16·6	+9·7	15.4	10	1	+0·5	9·9	7·6	..	0	2	0	0	3	0	0	0	0	0	0
Nanded	35·6	..	39·5	30	19·7	..	13·9	24	6.7	66.5	..	39·4	10	4	..	7·4	5·5	..	0	5	0	1	5	3	0	0	0	0	0
Poona	35·5	−0·6	39·2	27	17·1	+0·6	11·7	23	0	0	−1·5	0	..	0	−0·2	5·1	3·6	−4.6	0	0	0	0	2	0	0	0	0	0	0
Poona (Lohagaon Aerodrome)	34·8	..	38·9	27	17·5	..	12·4	22	0	0·8	..	0·8	9	0	..	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Baramati	35·7	..	38·7	27	18·0	..	13·0	22	0	0	..	0	..	0	..	12·2	9·8	..	0	0	0	0	0	0	0	0	0	0	0
Jeur	36·3	..	39·3	29	18·0	..	12·2	1	0	0	..	0	..	0	..	10·7	8·3	..	0	0	0	0	0	0	0	0	0	0	0
Sholapur	36·8	−0·5	39·7	29	21·0	+0·3	16·6	1	0	0.3	−5·5	0.2	16	0	−0·5	8·4	6·7	−2·5	2	0	0	0	0	0	0	0	0	0	0
Miraj	35·8	+0·5	38·5	31	18·7	+0·6	12·9	23	0	5·8	+2·0	5.2	16	1	+0·3	..	..	..	0	2	0	0	2	0	1	0	0	0	0
Kolhapur	35·6	−0·3	38·8	31	18·7	−0·2	13·8	3	0	0	−9·7	0	..	0	−0·7	10·7	9·8	−0·8	0	0	0	0	1	2	0	0	0	0	0
Vidarbha																														
Buldhana	32·6	..	37·5	31	20·1	..	15·0	23	0	15·8	..	10·6	10	2	..	9·3	9·1	..	0	2	0	0	0	0	0	0	0	0	0
Akola	35·5	−1·6	40·4	31	19·2	+0·3	10·7	23	0·7	21·2	+12·1	19·0	11	1	+0·3	7·9	6·1	+0·3	0	3	0	2	1	0	0	0	0	0	0
Amravati	34·9	−1·5	40·5	31	19·7	−1·1	15·2	23	6·4	16·6	+7·7	8·4	11	2	+1·2	11·6	10·3	+3·5	1	3	0	0	4	1	0	0	0	0	0
Yeotmal	34·9	..	38·6	30	16·5	..	9.8	23	9 4	47·9	..	18·0	10	3	..	9·7	7·7	..	1	4	0	0	2	0	0	0	0	0	0
Nagpur	33·9	−2·6	39·0	30	17·9	−1·3	12·4	23	20·9	40·6	+25·4	13·4	11	4	+2·5	9·0	6·3	..	0	6	0	0	9	1	0	0	0	6	0
Gondia	33·3	..	38·7	31	18·6	..	14·5	25	1·0	35·5	..	18·4	11	5	..	6·3	3·8	..	0	5	0	0	5	0	0	0	0	0	0

(l) Mean of 19 days. (o) Mean of 16 days. (i) Mean of 22 days. (h) Mean of 23 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Vidarbha																													
Brahmpuri	34·1	..	38·4	31	19·2	..	15·1	1	8·0	78·0	..	42.8	21	7	..	7·4	4·9	..	0	7	0	0	3	0	0	0	0	0	0
Chanda	34·5	−2·6	38·5	30	19·9	+0·5	14.9	1	0.1	80·5	+60.9	29·9	8	6	+4·8	7·6	5·3	+1·4	0	8	0	0	11	0	0	0	0	0	0
Sironcha	36·2	.	39·8	28, 29	22·0	..	17·8	24	0	15.5	..	10.1	8	2	..	7·5	5·5	..	0	4	0	0	5	0	0	0	0	1	0
Coastal Andhra Pradesh																													
Nellore	33.7	−0·9	36·7	2	23·3	+0·6	21·2	30	0	3.4	−0·9	3.4	3	1	+0.7	11·9	9·4	+2.5	0	0	0	0	1	0	0	0	0	0	0
Ongole	32.6	..	36·1	2	24.0	.	22·8	9	47.2	51.4	..	47.2	4	2	..	12·8	9·0	..	0	2	0	0	1	0	0	0	0	0	0
Rentichintala	37.3	−0·1	40·7	31	23·5	−0·7	21·2	11	4.8	4·8	+2.5	4·8	11	1	+0.7	7·7	7·3	−2·0	0	1	0	0	0	0	0	0	0	0	0
Gannavaram	34.4	..	36·8	28	22·5	..	19·7	9	36.2	36.4	..	36.4	9	1	..	15·1	11·2	..	0	1	0	0	2	0	0	0	0	0	0
Masulipatam	31·1	−1·4	33·3	18	22·8	+0·4	21·4	2	0	0	−10·7	0	..	0	−0·5	14·6	10·0	+3·1	0	0	0	0	0	0	0	0	0	0	0
Nidadavolu	33·2	..	35.2	26	20.5	..	17.6	9	75.7	77.3	..	35.7	9	3	..	8.9	5.6	..	0	4	0	0	2	0	0	0	0	0	0
Kakinada	31·9	−1.3	34.5	29	23·1	0	18·4	2	43.2	48.2	+36.0	27.6	2	2	+1.3	12·0	8.7	+1.5	0	3	0	0	2	0	0	0	0	0	0
Visakhapatnam	33·0	−1.3	36.0	28	22·2	−0.5	18·6	2	2·4	5·3	−6·6	3·3	2	1	+0·2	17 9	9.9	+1·7	0	2	0	0	2	0	0	0	0	0	0
Calingapatam	30·9	−1.7	33.4	29	22·3	−0.4	..	..	12.0	42.0	+30.8	26.0	2	3	+2.4	15·5	10·5	+0.4	1	3	0	0	1	0	0	0	0	0	0
Telangana																													
Ramagundam	35·8	..	39·4	31	21·1	.	17 3	24	0	30.6	.	17.0	10	3	..	8.6	6.4	..	0	6	0	0	6	0	3	0	0	0	0
Nizamabad*	34·9	−1.9	3·8	29, 31	20·8	+0.3	17	1,23 24	9·0	44·0	+33.8	25·0	10	4	+3·2		..	..	0	4	0	1	1	0	0	0	0	0	0
Mahbubnagar	35·1	.	37·4	31	21·3	..	19·5	2, 30	0	20.9	..	14.3	16	2	..	9·3	9·2	..	1	3	0	0	3	0	0	0	0	0	0
Hyderabad (Begumpet Aerodrome).	33·4	−1·7	36·5	31	20·7	+1.1	19·2	14	13.7	29.5	+17.8	13.6	9	4	+3.1	12·5	9·8	+1.4	1	6	0	0	7	0	0	0	0	3	0
Hakimpet	32·3	..	35·6	29, 30	20·5	..	16·9	6, 7	8 7	49·4	..	27·9	17	3	..	..	..	..	0	7	0	0	9	0	0	0	0	0	0
Hanamkonda	35·1	−0.5	38·5	29	22·5	+0·7	19·6	13	3·6	45·8	+34.1	13·0	8	5	+4·2	10·6	9·4	+1·0	0	7	0	0	4	0	0	0	0	0	0
Bhadrachallam	35·9	..	39·4	29	23·1	.	20 6	13	19·0	25·3	..	19·0	9	2	..	7.2	8·0	..	0	2	0	0	0	0	0	0	0	0	0
Khammameth	35·9	.	38·4	28	23·4	..	20·7	10	0	25·6	..	13·4	3	2	..	7.5	7·4	..	0	2	0	0	1	0	0	0	0	0	0
Rayalaseema																													
Arogyavaram	33·0	.	35.0	20	18·3	.	15·5	29	0	0	..	0	..	0	..	9·3	8·7	..	0	0	0	0	0	0	0	0	0	0	0
Cuddapah	37·4	−0.9	39.2	1, 29	23·2	−0·7	18 2	31	0	1·0	−3·6	1·0	2	0	−0.3	11·7	8·4	−3.8	0	1	0	0	0	0	0	0	0	0	0
Anantapur	36.9	..	38·5	30	23.2	.	18·0	2	0	0	−3.8	0	..	0	−0.3	10·8	10·8	..	0	0	0	0	1	0	0	0	0	0	0
Kurnool	37·3	−0·5	39·4	31	23 6	+1.4	21·2	30, 31	0	13·8	+8·5	12·9	22	1	+0.6	11·7	7·9	+1.6	0	2	0	0	3	0	1	0	0	0	0
Madras State																													
Palayamcottai	34·9	..	37·2	30	23 9	..	21·6	16	21·0	61·8	+35·4	40·8	11	2	0	9.0	7.1	..	0	3	0	0	2	0	0	0	0	0	0
Tuticorin	30·0	..	34·0	1	26·3	..	24·5	4	0	43 0	..	20·0	10	4	..	17.5	14.1	..	0	4	0	0	0	0	0	0	0	0	0
Pamban	31·1	−0·3	32·4	11	24 5	−0·9	23·2	6	0	0	−18·3	0	..	0	−1·4	9·6	9·6	+0·7	0	0	0	0	0	0	0	0	0	0	0
Pondi	30·1	..	30·6	5 days	25 1	..	22·1	29	0	0	..	0	..	0	..	16·6	16·5	..	0	0	0	0	1	0	0	0	0	0	0
Mathurai	35·0	−0·2	36·4	29	23.8	+1 3	22·1	30	0	5·6	−12·2	2·0	3	0	−1·0	6·5	5·4	−0·1	0	3	0	0	0	0	0	0	0	0	0
Mathurai (Aerodrome)	35.0	..	36.1	27, 29	23.1	.	21.4	5	0.2	3·4	..	3.2	9	1	..	..	..	..	1	1	0	0	6	0	0	0	0	0	0
Nagapattinam	32·3	+1·1	33·5	21	24·8	+0.2	21·8	6	0	0	−20.1	0	..	0	−1·0	14.6	15·0	+4·9	0	0	0	0	0	0	0	0	0	0	0
Tiruchirapalli	34·0	−0.9	36 2	2	23·4	+1·1	21·8	16, 29	8·8	8·8	−0.3	8·8	8	1	+0.3	10·1	10·3	+2.7	0	1	0	0	2	0	0	0	0	0	0
Coimbatore	35·6	+0.4	36·7	1	22·6	+1.4	21·4	5,6 31	1·5	8·7	−4·0	6·6	11	1	+0.1	7·8	6·2	+2·2	0	3	0	0	3	0	0	0	0	0	0
Coimbatore (Peelamedu Aerodrome)	34·8	..	36·1	20	21 8	.	18·9	30	0	4·6	..	4·0	11	1	..	11·7	11·7	..	0	2	0	0	2	0	0	0	0	0	0
Salem	36·5	−0·2	37·5	20	23·0	+1·1	20·1	30	0	0	12.5	0	..	0	−0·9	10·6	11·8	+4·6	0	0	0	0	4	0	0	0	0	0	0
Kallakurichi	35·5	..	36·5	5 days	..	..	..	..	0	0	..	0	..	0	..	7·6	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Cuddalore	31·3	0	31.9	6 days	22·2	−0.4	19·7	29, 30	0	0	−17·5	0	..	0	−0·6	12·2	8.5	+1·9	0	0	0	0	0	0	0	0	0	0	0
Tirupattur	35.3	..	37·2	1, 4	22·1		18·5	26	1 5	50·0	..	47 0	8	2	..	2.4	2.4	..	0	2	0	0	1	0	0	0	0	0	0
Vellore	34·8	+0.2	36·7	31	21·4	+0·4	17·7	30	0	1.2	−5·7	1·2	10	0	−0·5	11·7	8.4	+3.4	0	1	0	0	2	0	0	0	0	0	0
Tambaram (Aerodrome)	..	..	..	..	22·5	..	20·8	30	0	0	0	0	..	0	..	..	..	..	0	0	0	0	1	0	0	0	0	0	0
Madras	32·0	−0 4	34·0	1	23·2	+0·8	21 4	30	0	0	−0·3	0	..	0	−0·4	14·7	10·2	−0·4	0	0	0	0	2	0	0	0	0	0	0
Madras (Nungambakkam).	31·5	..	32.7	1	22 8	..	21·0	30	0	0	..	0	..	0	..	..	6·5	..	0	0	0	0	1	0	0	0	0	0	0
Coastal Mysore																													
Karwar	31.3	..	32·8	16	22·3	..	19·4	3	0	0	0·0	0	..	0	..	18·2	11.5	..	0	0	0	0	0	0	0	0	0	0	0
Honava	32·1	−0.1	33·8	15	..	..	..	..	0	0	−20·3	0	..	0	..	7·8	6·7	+1·6	0	0	0	0	7	0	0	0	0	0	0
Mangalore	31·6	−0·4	33·0	15	24.3	0	21·4	16	0	16·4	+11·1	15·6	16	1	+0·7	12·6	9·9	+2·0	0	2	0	0	2	0	0	0	0	0	0
Mangalore (Bajpe Aerodrome).	33·0	..	34·1	17	23·7	..	21·7	8, 9	0	0	..	0	..	0	..	12·4	8·1	..	0	0	0	0	3	0	0	0	0	0	0
Interior Mysore (North)																													
Bidar	33·2	−1·7	36·4	29	20·7	−1.4	16·7	2	14·2	76·0	+65.3	44.2	18	5	+3.8	12.2 (d)	11·[illegible] (d)	+1·5	0	11	0	0	9	0	0	0	0	0	0
Gulbarga	35.8	−1·5	38·4	27, 29	21.3	−0·1	15.0	23	0	78·4	−69·0	76.0	10	1	+0·2	10·[illegible]	10·4	+1·2	0	2	0	0	0	0	0	0	0	0	0
Bijapur	36·4	+0·3	39.3	29	21·4	+0.2	17·3	1	2.2	7.6	+2·3	2.4	16	0	−0·6	7·3	6·1	−0·3	0	4	0	0	2	0	0	0	0	0	0
Belgaum	34·3	−1·0	37·2	31	18.0	−0.1	14.4	2	5.2	43.4	+33.0	38.2	15	2	+1.1	10·6	6.4	−0.3	0	2	0	0	2	0	0	0	0	0	0

*Data collected from weather telegram

(d) Mean o 27 days

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days, (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation, 0.1 and 0.2mm.	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Interior Mysore North—(*Contd.*)																														
Belgaum (Sambre Aerodrome).	33·9	..	36·5	29	19·0	..	..	..	0·4	32·8	..	32·8	15	1	..	..	..	..	0	1	0	0	3	1	0	0	0	0	0
Gadag	36·0	+0·7	38·3	30	21·9	+1·1	18·3	7	0	44·2	+38·6	40·2	16	2	−1·3	8·2	7·5	+0·4	0	2	0	0	7	0	0	0	0	0	0
Raichur	36·4	−0.5	38·4	29	24·5	+1·3	..	..	0	13·6	−10·0	13·0	10	1	+0·6	11·0	10·9	+2.0	0	2	0	0	2	0	0	0	0	0	0
Interior Mysore (South)																														
Bellary	36·4	−1·1	38·4	22	23·5	+1·1	21·7	10	0	6·6	+1·3	4·0	17	1	+0·4	8·5	6·7	+1·4	0	1	0	0	1	0	0	0	0	0	0
Chitaldrug	34·3	−0·6	36·5	30	22·2	+0·9	19·6	1	0	10·2	−5·9	10·0	11	1	+0·6	6·5	5·3	−1·0	1	1	0	0	2	0	0	0	0	0	0
Shimoga	34·9	..	36·6	30	19·8	..	16·5	2	3 7	26·[illegible]	..	13·8	15	3	..	5·7	3·5	..	0	4	0	0	3	3	0	0	0	0	0
Balehonnur	31·1	+0·3	33.9	30	17·7	+0·6	15·2	9	..	45·0	+1·5	33·0	18	3	+1·2	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Hassan	32.6	−0·5	33·9	21	19·0	+1·7	16·3	7,8	37·0	39·0	+1·6	37·0	22	1	+0·4	5·4	5·0	−0·1	0	2	0	1	4	4	0	0	0	0	0
Mysore	33·2	−1·1	34·8	20,21, 22	20·5	+0·7	17·4	22	0	64 7	+29·5	34·6	22	2	+1·2	11·7	9·2	+1·8	0	4	0	0	2	1	0	0	0	0	0
Bangalore (Central Observatory)	32·5	+0·1	34·6	29	19·7	+1·6	16·4	30	0	0·6	−9·6	0·6	22	0	−0·8	9·7	9·6	+2·4	0	1	0	0	0	0	0	0	0	0	0
Bangalore (Aerodrome).	33·6	..	35·2	20	19·8	..	17·4	30	0	0·7	..	0·7	22	0	..	..	..	..	0	1	0	0	0	0	0	0	0	1	0
Kerala																														
Kozhikode	32·6	−0·3	33·7	28	24·6	+0·1	21·8	15	5·4	69·6	+52·3	39·6	15	3	+2·2	16·9	12·5	+1.9	0	3	0	0	3	0	0	0	0	0	0
Palghat	36·8	..	38·6	27	24·6	..	22·8	11	9·8	51·8	..	29·8	4	3	..	8·4	7·0		0	3	0	1	5	0	0	0	0	0	0
Fort Cochin	31·7	+0·6	33·5	21	25·6	0	22·1	11	11·4	245·2	+194·1	125·8	11	5	+2·3	14·0	10·0	+1·1	0	7	0	0	9	0	0	0	0	0	0
Cochin (Naval Air Station).	32·2	..	33·3	28,31	25·0	..	22·7	11	0	138·7	..	66·8	21	3	-	12 5	8·4	.	0	6	0	0	14	0	0	0	0	1	0
Alleppey	32·8	..	34·1	28	25.2	..	22·0	11	0	56·2	..	31·0	11	4	..	17·0	12·1	..	0	4	0	0	9	0	0	0	0	0	0
Punalur	36·1	..	37·1	21	22·7	..	21·7	15	10·0	104·8	..	38·8	24	4	..	6·0	3·9	..	0	6	0	0	1	0	0	0	0	0	0
Trivandrum	32.3	−0·1	34.3	26	23.9	−0·3	22.8	5	5·6	21·5	−17·6	11·7	1	5	+2·5	9·0	6·0	−0·1	0	5	0	0	8	0	0	0	0	0	0
Trivandrum (Aerodrome)	32.6	..	33·8	28	23.6	..	22·6	5	..	26·5	..	12·0	5	3	..	..	7·4	..	0	3	0	0	4	0	0	0	0	0	0
Arabian Sea Islands																														
Minicoy*																														
Amini Divi*																														
Hill Stations excluding Kashmir																														
Wafong (R).																														
Kohima	21.0 (e)	.	25·6	29,31	12·6 (e)	..	8·8	4	9·3	30·1	..	7·4	7	6	..	3·0	4.0	..	0	9	0	0	0	0	0	0	0	0	0
Aijal	25·2	..	31·6	28,29	16·0	..	9·4	1	7·6	25·4	..	14·0	1	3	..	8 3	7.3	..	0	3	0	0	0	0	0	0	0	0	0
Shillong	29·3	−1·0	27·8	31	9·1	−1.3	4·0	25	49·6	64·4	+14·4	24·8	7	6	+2·1	0·4	0.3	−6·5	0	11	0	0	0	0	0	0	0	0	0
Cherrapunji	20·0	−0·4	27.3	28	12·0	−0·7	8·6	3 days	41·1	67·9	−116 8	18·1	7	8	+0.9	14·0	9·3	−1·3	0	8	0	0	0	0	0	0	0	0	0
Darjiling (Raj Bhawan)	13·8	0	22 4	28	7 1	0	3·3	3,8	73·0	112·8	+65·1	33·5	12	5	+1·4	3·1	2·0	−0·7	0	6	0	0	2	15	0	0	0	0	0
Kalimpong	20.5	−0·3	26·1	31	11·2	−1·4	5·6	7	30·5	81·3	53 1	35 6	23	3	0	5·7	4·3	−8.1	0	3	0	0	0	0	0	0	0	0	0
Mukteswar (Kumaon).	14.7	−0·5	21·2	31	5·4	−0·5	−1·8	23	29·2	64·6	+16·3	22 0	22	5	+0·9	15·0	14·3	+4·2	1	8	0	2	8	2	0	11	0	0	0
Nainital	14·6	..	19·6	27	6·0	..	−1·7	23	76·5	125 5	..	40 0	23	9	..	10 4	7·6	..	0	9	1	2	0	0	0	0	0	0	0
Joshimath	15·6	..	21·3	31	4·9	..	−3·5	23	86·7	181·5	..	42·4	23	13	..	7·2	7·0	..	0	15	1	0	0	0	0	0	0	0	0
Badrinath	Closed during Winter Months																													
Lokpal	−2·3	..	0 7	2	−5·6	..	−6·0	4 days	..	336·2	..	50 0	22	17	..	..	..	..	0	21	11	0	0	0	0	18	0	0	0
Mussoorie	14.7	−0·7	19·5	31	5·6	−1·5	−2·5	23	36 8	72·6	+15·2	37·4	11	5	+1.3	10·5	8 9	+1·3	2	8	1	2	10	0	0	0	0	0	0
Simla	15·2	−0·7	18·4	26	5·3	−1·1	−2·5	22	29·3	89·0	+29 1	19 7	29	12	+7·3	6·3	5·1	+2·2	0	12	7	1	5	0	..	..	..	..	..
Dharampore	..	..	..	..	..	..	..	..	..	63·5	+15.5	14·0	14	8	+5·1	..	..	..	0	8	..	..		..	..	..	..	..	..
Dalhousie	18·4	..	..	..	5·9	..	..	..	27 0	194·0	+95·7	41·4	22	8	+2·1	..	..	..	0	9	1	0	0	0	0	0	0	0	0
Dharamshala	19·3	..	23·7	31	10·9	..	3·4	22	25·2	84·0	..	22·6	22	10	..	7·5	7.4	..	0	14	0	0	14	0	0	0	0	0	0
Abu	23·6	−1·2	28.1	4	14·4	−1·7	7·2	22	0	2·4	−1.9	2·4	11	0	−0·5	3·4	2 6	5 6	0	1	0	0	0	0	0	0	0	0	0
Pachmarhi	28·0	+0·9	33·6	31	13·8	−1·4	7·4	24	17·6	35·8	+21.6	18·2	11	3	+1·7	7.7	5·2	−0·4	0	3	0	0	4	0	0	0	0	0	0
Mahabaleshwar	28·2	+0·2	30·8	31	16·9	−0·1	9·4	10	0	0	−4·3	0	.	0	−0·4	10·2	10·8	+0·2	0	0	0	0	0	0	0	0	0	0	0
Nandi Hills†																														
Mercara	28·9	−0·1	33·5	14	16·9	+0·5	14·2	8	25·2	28·2	+8·9	14 0	21	4	+2·4	9 8	7.3	+2·3	0	6	0	0	1	0	0	0	0	0	0
Kodaikanal	19·5	+0·5	21.8	21	9·8	−0·3	8·0	10	1·0	51·2	+5·2	32·1	10	3	−0 1	12·3	12·3	−0·9	0	5	0	0	5	0	0	0	0	0	0
Ootacamund	21·6	+0·5	24·5	21	8·5	−0·3	6·7	2	0·4	6·6	−25.9	5 6	24	1	−1·6	1.7	1·0	+4·3	0	3	0	0	3	0	0	0	0	0	0
Coonoor	22·7	0	24·4	21	12.1	0·8	10·1	28		387.5	+305·2	148·4	10	6	+3·2	..	6.8	+1·2	0	7	0	0	5	0	0	0	0	0	0
Nepal																														
Katmandu	22·3	..	29·4	31	7.2	..	2·9	1	9·3	56·8	..	22·5	7	5	..	3·3	1.8	..	2	7	0	1	8	4	0	0	0	0	0

*Observatory closed on 15-3-60 (e) Mean of 26 days *Data given as addenda in December 1960 issue. (R) Register not received

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. and more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Sikkim																													
Lachen	10·4	..	18·9	28	1·3	..	−3·9	8	..	184·5	..	26·0	12	11	..	..	..	..	0	18	2	0	0	0	0	0	0	0	0
Tibet																													
Yatung (Chumbi) (R)																													
Ceylon																													
Colombo	30·8	0·8	32	23, 24, 28	23·0	−0·4	21	29	4·8	61·3	−47·4	37 9	10	3	−3·1	..	..	..	0	5	0	0	3	3	0	0	0	0	0
Trincomalee	30·6	−1·5	31	18	24·8	+0·3	23	5 days	11·9	42·2	−7·6	37·9	31	1	−1·7	..	..	..	0	6	0	0	1	0	0	0	0	0	0
Batticoloa	29·8	..	31	days 1, 2, 25	24·1	..	23	9 days	25 7	87·6	..	31 5	31	5	..	..	..	..	0	6	0	3	0	0	0	0	0	0	0
Hambantota	30·5	0	32	27, 28	25·3	+0·2	22	5 days	5·6	32·7	−57·2	12·9	30	4	−1·0	..	..	..	0	7	0	0	0	0	0	0	0	0	0
Mannar	31·7	..	33	16, 21	24·0	..	20	6	0·5	2·3	..	2.3	31	0	..	..	..	..	0	1	0	4	0	0	0	0	0	0	0
Hydrometeorological Observatories.																													
Damodar Catchment.																													
Bokaro	31·8	..	38·9	31	15·9	..	11·7	26	5·8	33·6	..	17·4	7	3	..	10·5	6·5	..	0	4	0	0	4	0	0	0	0	0	0
Hazaribagh	28·6	..	35·4	31	15·6	..	10·7	7	6·6	21·1	..	6 5	7	4	..	11·3	7·0	..	0	6	0	1	3	0	0	0	0	0	0
Tilaiya	29·7	..	36·4	31	17·4	..	12·8	3	3·0	42·4	..	34·0	7	2	..	12·7	8·4	..	0	5	0	1	4	0	0	0	0	0	0
Ramgarh	32·0	..	39·3	31	16·3	..	12·2	1,26	15·4	15·4	..	8·0	7	2	..	4·5	2·0	..	0	3	0	0	0	0	0	0	0	0	0
Panchet Hills	32·2	..	39·9	31	18·9	..	14·2	3	16·4	31·0	..	12 6	23	4	..	11·7	7·7	..	0	5	0	1	3	0	0	0	0	0	0
Durgapur	32·5	..	39·3	31	18·3	..	13·9	3	35·3	35·3	..	22·0	23	3	..	12·1	9·1	..	0	5	0	0	0	0	0	0	0	0	0
Mahanadi Catchment.																													
Hirakud	32·9	..	38·5	31	19·9	..	16·1	25	4·2	29·7	..	10·6	6	4	..	6·3	4·6	..	1	7	0	0	5	0	0	0	0	0	0
Khijrawan	32·7	..	37·2	30	17·9	..	13·8	24	0	71·9	..	27·0	20	5	..	(a) 9·8	6·2	..	0	6	0	0	1	0	0	0	0	0	0
Sonepur	34·1	..	40·0	31	13·2	..	9·4	25	..	40·6	..	22·0	21	3	..	..	4·0	..	0	5	..	..	..	..	..	..	..	..	..
Ginabahar	32·9	..	38·9	31	15·4	..	10·9	2	..	31·4	..	12·9	6	3	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Bhimkund	32 3	..	38·8	31	17·9	..	14·4	26	17·0	78·7	..	23·3	9	5	..	1·1	0·7	..	1	6	0	0	3	0	0	0	0	0	0
Narbada Catchment.																													
Punasa	33·9	..	38·9	28, 31	15·9	..	11·2	26	3·6	21·4	..	18·1	11	1	..	7·8	4·1	..	0	4	0	0	0	0	0	0	0	0	0
Bagra Tawa	34·0	..	39·4	31	17·2	..	10·8	23	14 6	31·0	..	16·4	11	2	..	6·6	3·9	..	0	2	0	0	2	0	2	0	0	0	0
Thikri	35·3	..	40·9	27	19·3	..	13·4	23	..	4·5	..	3·5	11	1	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Jhadol	31·3	.	34·7	28	9·2	..	5·1	25	0	0		0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	.
Dharoi	32·8	..	37·2	4	16·1	..	7·4	22	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Canga Catchment																													
Mukhim	(o) 16·0	..	18 4	16	6·5	..	−1·6	23	43·7	85·5	..	20·0	22	8	..	..	..	..	3	12	..	..	..	..	..	..	..	..	.
Tehri	25 9	..	30·7	31	10·7	..	5·6	23	20·7	51·0	..	18·4	22	7	..	4·3	3·0	..	0	13	0	1	6	1	1	0	0	1	0
Gandak Catchment																													
Gorkha	22·5	..	29·3	31	11·0	..	8·3	23	0	54·2	..	50·0	7	2	..	..	..	..	0	3	..	..	..	..	..	..	..	..	.
Pokhara	23·7	..	30 9	31	12·3	..	7·5	23	35·3	87·8	..	29·7	12	7	..	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Nawakot	25·0	..	32·4	31	12·8	..	7·7	23	31·6	95·3	..	20·9	3	6	..	..	..	..	1	7	..	..	..	..	..	..	..	..	..
Jomosom	10·8	..	21·3	27	..	..	..	..	27·6	45·5	..	22·6	12	5	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Khundi Bazar	..	..	..	..	..		..	..	..	126·8	..	32·0	12	10	..	..	..	..	..	11	..	..	..	..	..	..	..	..	..
Timure	19 5	..	27·3	31	7·7	..	3·4	23	20·2	74·1	..	19·3	22	7	..	..	..	..	0	7	..	..	..	..	..	..	..	..	.
Gogra Catchment (Trans Himalayan Region).																													
Dailekh*																													
Gogra Catchment																													
Dandeldhura	17·0	.	21·8	31	(c) 8·1	..	1·9	23	25·7	56·2	14·2	..	22	5	..	..	..	..	1	6	0	0	2	0	0	0	2	0	0
Butwal	29·4	.	38·1	31	17·4	..	9·3	24	30·5	58·4	27·9	..	23	3	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Bagmati Catchment																													
Katmandu*																													

*Data included under "Nepal". (R) Register not received. (a) Mean of 30 days. (c) Mean of 28 days. (o) Mean of 16 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—*Contd.*																														
Kosi Catchment																														
Chautara . .	22·4	..	30·3	31	10·4	..	6·1	23	5·9	39·0	..	12·0	23	4	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Chepua .	..	..	..	..	..	..	..	..	0	190·8	..	46·0	17	12	..	..	..	..	0	15	..	..	..	..	..	..	.	..	..
Okhaldunga†																														
Barahkshetra .	28·4 (d)	..	37·1 (d)	31	15·9	..	12·8	23	30·1	60·9	..	24·7	7	6	..	10·7	7·1	..	1	6	0	0	5	0	0	0	0	0	0
Angbung . .	23·1	..	30·1	31	11·0	..	5·7	23	51·0	75·0	..	25·0	23	5	..	..	..	..	0	7	..	..	.		..	..	..	..	..
Taplejung . .	17·9	..	24·7	31	8·4	..	4·6	23	56·7	85·3	..	22·4	23	7	..	..	..	..	0	14	0	0	1	1	0	0	0	0	0
Taplethok . .	22·5	..	27·9	30	10·2	..	6·8	4	39·6	95·0	..	12·6	16	10	..	..	..	..	0	15	..	..	..	..	..	..	..	..	..
Wallungchung Gola	9·0	..	16·4	31	—1·1	..	—6·6	8,23	61·8	112·1	..	30·5	12	6	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Bhojpur . .	19·1	..	27·8	31	..	..	..	..	30·7	62·8	..	22·2	7	5	..	..	..	..	0	7	..	..	..	..	..	..	..	..	.
Chainpur . .	22·4	..	30·4	31	12·2	..	8.4	23	46·2	58·0	..	17·4	12	4	..	..	..	..	0	8	..	..	..	..	..	..	..		.
Tista Catchment																														
Gangtok . .	17·1	..	25·0	28	8·2	..	3·7	23	69·3	198·7	..	41·8	12	11	..	2·2	3·9	..	0	14	0	1	3	6	0	0	0	0	0
Geyzing . .	20·6	..	27·8	31	(a) 9·4	..	4·8	23	53·2	87·3	..	23·3	23	5	..	..	..	..	0	7	..		..	..	..	.	..	..	..

†Data not available. (a) Mean of 30 days. (d) Mean of 27 days.

Division and station.	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Island																											
Maya Bandar	0830	28	1012·5	1009·4	..	26·6	23·4	21·9	28·4	75	..	2·6	..	2·6	0	0	24	2	5	0	0	0	0	0	6	7	11
	1730	„	1009·4	1006·3	..	28·1	23·6	21·5	25·6	67	..	3.3	..	5·4	0	1	30	0	8	1	0	0	0	2	4	0	16
Long Island	0830	25	1012 5	1009·6	..	26·6	24·1	23·0	26·6	81	..	2·5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	„	1010·4	1007·4	..	27·8	24·1	22·3	25·9	72	..	3 9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Port Blair	0530	79	1010·8	1001·7	..	22·2	21·6	21·2	25.5	94	..	2·5	..	1·7	0	0	17	2	1	0	0	0	1	6	7	14	0
	0830	„	1012·6	1003·8	+0·7	29·0	24·1	21·7	25·8	65	—7	2·5	—0 4	6·2	0	0	29	9	12	2	1	0	1	0	3	2	1
	1130	„	1011·1	1002·3	..	30·8	24·9	22·0	26·9	60	..	2 9	..	10.4	0	0	31	5	14	11	1	0	0	0	0	0	0
	1730	„	1009·6	1000·7	..	27·2	23·7	22·2	26·2	73	..	3·7	..	4·2	0	0	22	1	11	5	1	1	1	0	2	9	0
	2330	„	1011·2	1002·2	..	23·8	22·4	21·8	26·0	38	..	1·6	..	3·5	0	0	20	1	5	0	0	1	0	6	7	11	0
Car Nicobar	0830	10	1012·0	1010·8	..	29·1	24·5	22·1	27·0	64	..	3 9	..	6·8	0	0	30	2	16	12	0	0	0	0	0	1	0
	1730	„	1009·1	1 07·9	..	28·0	24·2	22·5	27·0	72	..	4·2	..	1·5	0	0	10	0	6	4	0	0	0	0	0	21	0
Nancowry	0830	26	1012·0	1009·0	..	29·6	25·9	24·1	3 .5	72	..	5·0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	„	1009·2	1006·3	..	28·7	25·4	23·9	29·7	75	..	4·7	.	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Kondul	0830	8	1011·7	1010·7	..	28·6	25·7	24·3	29·8	77	..	4·6	..	3·3	0	0	21	2	16	2	0	0	0	0	1	10	0
	1730	„	1009·0	1008·1	..	28·1	25·4	24·4	29·9	80	..	5·0	..	3·8	0	0	24	2	19	3	0	0	0	0	0	7	0
Assam (Including Manipur and Tripura)																											
Pasighat	0830	157	1013·6	995·5	..	20·6	16·1	12·6	14·7	61	..	4·3	..	20·5	0	17	11	8	0	1	2	0	0	0	17	3	0
	1730	„	1009·0	991·2	..	23·0	17·7	13·9	16·0	58	..	4·5	..	8·6	0	8	8	1	0	0	0	0	2	0	13	15	0
Digboi	*0830	..	..	..	..	21·2	17·5	15·9	17·9	69	..	4·4	..	..	..	..	..	2	9	5	1	2	6	0	5	0	0
	†1730	..	..	..	..	25·3	19·2	15·1	17·2	55	..	2·6	..	..	..	..	..	5	9	6	1	0	3	2	3	0	0
Dibrugarh	0830	106	1013·3	1001·1	0	22·4	18·2	15·0	17·5	64	—12	4·2	0	3·2	0	0	27	6	7	10	0	1	0	1	2	4	0
	1730	„	1008·7	996·8	..	24·0	19·0	15·8	17·9	61	..	4·5	..	1·7	0	0	11	2	4	3	1	0	1	0	0	20	0
Dibrugarh (Mohanbari Aerodrome)	0230	111	1010·7	997·7	..	16·7	15·3	14·2	16 2	86	..	4·6	..	1·3	0	0	6	0	3	1	1	0	0	1	0	25	0
	0530	„	1011·7	998·6	..	15·7	14·7	13·8	15·7	89	..	4·6	..	0·9	0	0	6	0	3	2	1	0	0	0	0	25	0
	0830	„	1013·6	1000·8	..	21·5	17·6	14·9	16·9	67	..	4·2	..	4·1	0	0	20	1	13	4	0	0	1	1	0	11	0
	1130	„	1011·9	999·2	..	25·5	18 7	14·4	16·4	53	..	4·9	..	4·5	0	0	23	2	11	5	0	2	2	1	0	8	0
	1730	„	1008·9	996·3	..	23·7	18·4	14·8	17·0	59	..	5·2	..	2·1	0	0	7	0	6	1	0	0	0	0	0	24	0
	2330	„	1011·2	998·3	..	17·9	16·2	15·5	17·1	84	..	3·9	..	1·2	0	0	6	1	4	0	1	0	0	0	0	25	0
North Lakhimpur	0830	102	1013·4	1001·6	..	21·5	17·9	15·0	17·6	69	..	2·9	..	3·6	0	0	25	3	5	6	3	2	3	1	2	6	0
	1130	„	1012·0	1000·4	..	25·8	19·1	14·5	16·2	51	..	3·4	..	7.2	0	1	29	2	7	8	11	2	0	0	0	1	0
	1730	„	1009·0	997·4	..	23·7	19·3	16·2	18·9	64	..	4·2	..	3·6	0	0	20	4	6	3	1	1	3	0	2	11	0
Sibsagar	0830	97	1014·2	1003·0	+1·1	21·8	18·2	15·7	18·1	69	—12	3·9	—1 1	3·0	0	0	15	3	5	2	0	1	4	0	0	16	0
	1730	„	1009·5	998·5	..	25·0	19·6	16·0	19·1	58	..	4·3	..	4·0	0	0	17	1	8	0	0	0	7	0	1	14	0
Jorhat	0530	90	1011·2	1000·7	..	16·0	15·2	14·8	15·8	93	..	3·4	..	3·0	0	0	15	2	3	3	0	5	0	0	2	16	0
	0830	„	1013·0	1002·6	..	21·9	18·1	15·4	17·5	67	..	3·2	..	6·2	0	0	23	2	9	4	1	2	2	0	3	8	0
	1130	„	1011·3	1001·2	..	25·2	18·7	14·3	16·8	54	..	3·3	..	8 5	0	1	26	8	8	5	2	0	0	0	4	4	0
	1730	„	1008·2	998·0	..	24·7	18·8	14·8	17·1	55	..	3·7	..	6·9	0	0	23	6	10	3	0	2	0	0	2	8	0
	2330	„	1010·8	1000·4	..	19 0	17·1	15·8	17.8	80	..	3·2	..	3·1	0	0	10	1	4	1	2	0	0	0	2	21	0
Golaghat*	0830	..	..	1002·3	..	21·8	17·7	15·7	16·8	69	..	1·1	..	0	0	0	1	0	0	0	1	0	0	0	0	29	0
	1730	..	..	997·4	..	27·2	19·6	14 6	16·7	49	..	4·1	..	0	0	0	3	0	0	0	2	0	0	0	1	27	0
Gohpur*	0830	..	..	1007·9	..	21·7	18·3	15·8	18·4	71	..	1·7	..	3·0	0	0	30	0	0	28	0	2	0	0	0	0	0
	1730	..	..	1000·6	..	24·4	19·4	17·1	18·5	62	..	1·5	..	2·3	0	0	23	3	1	14	0	2	1	2	0	7	0
Tezpur	0830	79	1012·9	1012·8	—0·4	22·0	18·0	15·3	17·2	66	—5	3·0	+0·5	5·2	0	0	31	4	7	14	2	0	1	3	0	0	0
	1730	„	1009·9	1000·8	..	26·5	22·3	14·4	21·2	49	..	4·5	..	4·0	0	0	31	2	5	2	2	2	9	0	9	0	0
Tezpur(P.B.O.)	0230	78	1010·8	1001·6	..	17·8	16·4	15·5	17·5	86	..	2·8	..	0·6	0	0	3	0	2	1	0	0	0	0	0	26	0
	0530	„	1011.7	1002·5	..	17·0	15·6	14·7	16·2	85	..	3.0	..	0·8	0	0	6	1	3	2	0	0	0	0	0	25	0
	0830	„	1013·9	1004·8	..	22·1	17·8	15·0	16·8	65	..	3·0	..	4·6	0	0	26	3	5	13	2	1	0	0	2	5	0
	1130	„	1011·9	1003·0	..	26·5	19·0	13·9	6·1	48	..	3·1	..	4·6	0	0	26	1	4	10	3	3	0	1	4	5	0
	1730	„	1008·7	999·8	..	26·1	19·3	14·6	17·2	61	..	3·2	..	1·7	0	0	9	1	1	2	0	0	1	2	2	22	0
	2330	„	1011·6	1002·2	..	20·0	17·7	15·4	18 0	76	..	2·6	..	2·0	0	0	9	1	2	4	0	0	2	0	0	22	0
Majbat	0830	..	..	1002·8	..	..	..	..	..	..	..	3·4	..	5·6	0	0	25	0	10	12	1	1	0	1	0	6	0
	1730	..	..	995·8	..	..	..	..	..	..	..	3·5	..	3·4	0	0	15	1	2	3	0	1	2	6	0	16	0
Chaparmukh	0830	66	1013·8	1006·3	..	22·8	18·0	14·6	16·3	62	..	2·4	..	7·5	0	0	30	0	4	3	18	0	2	1	2	1	0
	1730	„	1008·8	1001·3	..	25·9	19·2	14·8	16·9	52	..	2·9	..	3·3	0	0	15	1	2	0	2	0	5	1	4	16	0
Tangla	0830	78	1012·8	1003·8	..	21·7	18·0	15·6	17·8	66	..	2·6	..	1·7	0	0	10	1	1	2	4	1	0	1	0	21	0
	1730	„	1008·4	999·4	..	24·7	20·1	17·4	19·5	65	..	2·2	..	1·1	0	0	8	0	1	0	3	0	3	1	0	23	0
Gauhati	0830	55	1013·0	1006·7	+0·6	21 3	17·8	15·1	17·5	70	0	3·0	+0·7	1·5	0	0	17	2	2	0	2	0	1	0	10	14	0
	1730	„	1008·3	1002·1	..	27 0	19·8	15·4	17.2	51	..	3·0	..	1·1	0	0	10	0	1	1	2	0	3	1	2	21	0

*Observations for 30 days. †Observations for 29 days

Division and station	Hour of observation I.S.T.	Station Elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur and Tripura)—*Contd.*																											
Gauhati (Bhorjor Aerodrome).	0230	54	1099·8	1003·5	..	16.7	15·4	14·4	16·4	87	..	1·7	..	1·0	0	0	7	2	2	0	0	2	1	0	0	27	0
	0530	"	1010·9	1004·5	..	16·0	14·9	14·1	16·1	89	..	3·4	..	1·7	0	0	10	1	5	0	1	0	2	1	0	21	0
	0830	"	1012 9	1006·7	..	22·5	17·9	14·7	16·9	64	..	3·0	..	4·8	0	0	16	2	6	2	1	0	3	2	0	15	0
	1130	"	1011·6	1005·4	..	27·2	19·3	13·6	16·1	47	..	3·2	..	10·4	0	2	27	10	10	0	0	0	3	4	2	2	0
	1730	"	1008·2	1002·1	..	26·3	19·1	14·1	16·3	50	..	3·7	..	7·5	0	0	26	5	4	1	2	0	4	8	2	5	0
	2330	"	1010·8	1004·5	..	18·6	16·6	15·2	17·3	81	..	2·6	..	2·8	0	0	15	1	4	0	0	5	4	0	1	16	0
Rangiya	0830	..	..	..	..	22.4	18·0	15·0	17·0	65	..	2·0	..	(c) 6·9	0	0	28	1	9	15	1	1	0	1	0	0	0
	1730	..	..	..	..	26·7	19·7	15·7	17·3	51	..	2·4	..	(c) 2·2	0	0	16	0	3	2	0	0	0	7	4	12	[illegible]
Goalpara	0830	38	1012·1	1007·7	..	21·5	18·3	15·7	18·5	71	..	2·8	..	2·8	0	0	27	4	10	3	3	2	2	2	1	4	0
	1730	"	1008·7	1004·3	..	27·7	19·7	14·1	16·4	48	..	2·5	..	3·3	0	0	28	2	4	2	2	0	6	9	3	3	0
Dhubri	0830	35	1013·3	1009·2	+1·9	21·8	18·4	16·4	18·5	72	+6	2·4	+0·6	4·0	0	0	18	0	12	0	2	0	2	2	0	13	0
	1730	"	1009·2	1005·2	..	26·2	19·3	14·8	16·7	54	..	1·9	..	1·4	0	0	9	0	3	2	1	0	1	0	2	22	0
Dhubri (Rupsi Aerodrome).	0530	36	1009·6	1005·4	..	16·1	14·9	14·0	16·1	87	..	2·8	..	2 2	0	0	10	3	2	2	0	1	0	1	0	21	1
	0830	"	1012·2	1008·0	..	22·2	17·9	14.6	17 1	64	..	2·6	..	5·5	0	1	26	2	7	6	6	1	2	3	0	4	0
	1130	"	1011·0	1006·9	..	26·9	18·7	12·8	14·7	44	..	2·8	..	11.0	0	3	25	0	2	6	5	3	8	4	0	3	1
	1730	"	1007·9	1003·8	..	25·9	18·5	12·6	15·3	49	..	3·0	..	2·9	0	2	12	1	1	2	0	2	0	5	2	18	0
Tura	0830	370	1014·4	972·2	..	21·3	19·9	19·1	22·2	87	..	5·0	..	4·2	0	0	27	1	3	10	4	4	3	1	1	4	0
	1730	"	1010·0	969·8	..	26·0	25·4	24 6	32·1	93	..	3·4	..	5·3	0	0	31	1	3	2	2	11	10	2	0	0	0
Agartala	0230	16	1009·5	1007·6	..	19·2	17·8	16·9	19·2	86	..	1·7	..	4·7	0	1	23	0	2	3	5	8	3	1	2	7	0
	0530	"	1010·4	1008·5	..	18·2	17·1	16·3	18·7	89	..	3·0	..	5·1	0	0	21	1	0	3	5	12	0	0	0	10	0
	0830	"	1012·5	1010·7	..	23·9	19·6	17·1	19·4	66	..	3·1	..	7·3	0	1	24	3	5	2	2	6	3	3	1	6	0
	1130	"	1011·6	1009·8	..	28·8	20.0	14·4	16·2	44	..	3·0	..	10·7	0	5	26	8	1	1	2	2	3	10	4	0	0
	1730	"	1008·5	1006·7	..	27·3	19·7	14·4	16·9	47	..	2·8	..	6·4	0	1	26	5	1	0	1	4	5	1	10	4	0
	2330	,,	1010·4	1008·5	..	21·4	18·5	16·8	19·0	78	..	1·7	..	5·6	0	1	19	1	3	3	3	8	0	1	1	11	0
Kailashar	0530	29	1011·5	1008·1	..	16·6	15·8	15·2	16·6	92	..	3·5	..	1·4	0	0	10	1	0	1	0	7	0	1	0	21	0
	0830	"	1013·6	1010·2	..	23.6	18·9	16·5	18·0	68	..	3·1	..	3·0	0	0	20	2	4	0	0	10	3	1	0	11	0
	1130	"	1012·3	1009·0	..	28·8	19·9	13·7	16·1	43	..	3·3	..	7·0	0	0	28	2	4	1	1	6	2	7	5	3	0
	1730	"	1009·4	1006·1	..	27·3	19 7	14·9	17·8	49	..	3·1	..	2·3	0	0	16	2	2	0	0	1	2	7	2	15	0
Silchar	0830	29	1013·4	1010·0	+0·1	23·4	18 5	15·2	17·0	61	−11	2·4	−0·3	2·7	0	0	25	0	5	8	5	2	2	2	1	6	0
	1730	"	1009 0	1005·7	..	26·8	19·5	14·1	16·9	49	..	2·1	..	1.8	0	0	18	0	0	2	0	0	4	8	4	13	0
Silchar (Kumbhigram Aerodrome).	0530	97	1010 5	998·9	..	17·0	14 6	12·4	14·7	75	..	2·9	..	9·4	0	0	30	0	2	26	1	0	0	0	1	1	0
	0830	,,	1011·9	1000·8	..	22·8	17 5	13·6	16·9	57	..	2·2	..	10 0	0	0	31	0	0	22	5	2	2	0	0	0	0
	1130	"	1010·3	999·4	..	28·3	19·3	12·6	15·2	40	..	2·9	..	12·3	0	1	30	0	0	0	6	3	19	3	0	0	0
	1730	"	1007·8	996·8	..	26·5	18·6	12·6	15·1	46	..	3·0	..	8·0	0	0	31	1	1	2	1	0	6	14	6	0	0
Imphal	0530	801	1014·7	923·6	..	11·5	10 4	9 5	11·8	89	..	3·3	..	1·5	0	0	10	0	0	0	0	0	7	3	0	21	0
	0830	"	1013·9	924·9	..	19·1	14·5	10·8	12·0	51	..	2·8	..	4·0	0	2	21	0	3	2	7	6	4	1	0	8	0
	1130	"	1010·4	923·1	..	24·6	16·5	10·7	12·8	44	..	3·6	..	14·3	0	7	24	[illegible]	1	1	6	5	12	4	1	0	0
	1730	,,	1008·1	920·9	..	22·5	15 2	9·2	12·1	41	..	3·8	..	8·6	0	2	26	0	0	1	1	1	11	14	0	3	0
	2330	"	1013·2	923·2	..	15·5	12 8	10 7	12·7	75	..	2·3	..	2·5	0	0	13	3	0	2	0	2	6	0	0	18	0
Haflong	0830	682	1011·8	935·5	..	19·9	14 7	11·0	12·4	59	..	3·0	..	9·7	0	4	27	1	2	0	0	7	15	0	6	0	0
	1730	"	1007·8	932·6	..	22·6	16 1	10·9	13·2	51	..	3·5	..	11·2	0	3	28	4	0	0	0	11	14	0	2	0	0
Lumding	0830	149	1013·2	995·9	..	20·6	18·3	15·9	19·3	77	+1	3·0	..	1·5	0	0	13	0	2	4	1	1	2	0	3	18	0
	1730	"	1008·3	991·6	..	27·2	22.4	20·4	20·5	68	..	3·7	..	2·8	0	0	20	0	0	3	1	2	5	0	9	11	0
Sub-Himalayan West Bengal.																											
Cooch-Behar	0830	43	1012·7	1007·8	..	21.8	17·5	14·5	1 ·5	64	..	2·6	..	13·5	0	4	27	0	8	14	3	1	2	3	0	0	0
	1130	,,	1011·8	1007·0	..	26·5	18 9	13·6	15·8	46	..	2·9	..	2·6	0	5	26	0	4	9	6	4	3	2	0	0	3
	1730	"	1008·5	1003·7	..	25·9	19·2	14·8	16·8	52	..	2·9	..	4·3	0	0	20	1	1	1	3	0	1	6	4	11	3
Jalpaiguri	0830	83	1012·6	1003 1	+0·8	20·1	17·1	15·1	17·0	73	+3	1·9	+0·4	7·3	0	0	29	6	10	8	1	0	0	1	3	2	0
	1730	"	1008·4	999·0	..	26·3	18·9	13·1	15·4	46	..	1·9	..	7·4	0	0	27	4	2	3	1	1	9	6	1	4	0
Bagdogra	0230	131	1009·6	994·3	..	17·0	15·3	14.0	16·1	83	..	1·6	..	3·8	0	0	26	14	5	1	0	0	1	2	3	5	0
	0530	"	1010·5	994·8	..	15·1	14 4	3·8	16·2	93	..	2·7	..	5·0	0	0	31	14	5	4	1	1	1	4	1	0	0
	0830	"	1012·3	997·3	..	21·8	17 8	14·9	18·2	66	..	3·0	..	6·2	0	0	28	0	4	15	4	1	1	3	0	3	0
	1130	"	1011·4	996·5	..	26·1	19·2	14·6	16·6	51	..	3·5	..	8·9	0	1	30	0	1	9	10	7	3	1	0	0	0
	1730	"	1008·3	993·1	..	25·1	19·2	15·1	17·6	57	..	3·4	..	7·2	0	1	25	0	2	2	5	2	10	5	0	5	0
	2330	"	1010·4	995·2	..	19·4	16·4	14·3	17·3	73	..	1·7	..	5·5	0	1	24	14	1	3	1	0	1	2	3	6	0
Malda	0830	31	1012·8	1009·2	+1·4	24·2	17·9	13·1	15·4	54	+5	2·9	+1·8	9·0	0	0	30	2	5	4	2	1	7	5	4	1	0
	1730	"	1008·7	1005·1	..	28·2	18·8	11·6	14·4	40	..	2·6	..	7·5	0	1	27	2	3	5	2	0	0	6	10	3	0

(b) Mean of 20 days. (c) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in Meter	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km p. h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal																											
Dum Dum	0230	6	10·9 7	1008·9	..	20·6	19 3	18·5	21·3	88	..	1·8	.	4·1	0	0	19	2	0	1	2	5	5	2	1	12	0
	0530	"	1010·5	1009·7	..	19·9	18·8	18·1	20·8	89	..	2·4	..	2·8	0	0	14	2	1	2	1	4	2	0	2	17	0
	0830	"	1012·9	1012·1	..	25·0	20·8	18·1	21·1	67	..	2 4	.	5·3	0	0	31	4	2	0	1	8	3	6	7	0	0
	1130	"	1011·9	1011·2	..	29·9	21·3	15·7	19·7	45	..	2 3	..	6·5	0	0	31	5	2	1	2	6	3	4	8	0	0
	1730	"	1008·7	1008·0	..	29·1	21·4	16·6	19·3	49	..	2·6	..	2·9	0	0	23	3	0	1	1	8	5	2	3	0	0
	2330	"	1010·8	1010·0	..	21·9	19·9	18·7	21·7	83	.	1·6	..	6·3	0	0	23	4	1	2	3	5	8	0	0	8	0
Calcutta	0830	6	1012 6	1011·9	+0·8	25·5	20·6	17 4	20·0	63	−13	2·0	−0·2	7·4	0	1	29	5	2	3	1	3	8	5	3	1	0
	1130	"	1011·6	1010·9	..	30·5	21·4	15·5	18·0	43	..	1·9	..	7·4	0	1	30	5	1	3	1	2	10	3	6	0	0
	1730	"	1008 5	1007·8	..	29·5	20 7	15·0	17·8	44	..	2·5	..	5·7	0	0	25	2	0	2	0	5	5	5	6	6	0
Barrackpore (Aerodrome)	0530	7	1010·8	1009·9	..	20·2	19·0	18·1	21·0	88	..	3·0	..	4·3	0	0	19	1	0	1	1	3	6	4	3	12	0
	0830	"	1013 1	1012·3	..	24·6	20·8	18 1	22·4	69	..	2·5	..	7·5	0	0	27	3	2	4	1	3	5	6	3	4	0
	1130	"	1012 2	1011·5	..	29·0	21·0	15·9	18·4	47	..	2·5	..	11·1	0	2	29	3	0	1	1	3	6	10	7	0	0
	1730	"	1008·7	1007·9	..	28·7	21·3	16·7	19·3	50	..	2·8	..	6·1	0	0	24	1	0	1	2	6	3	8	3	7	0
	2330	"	1011·0	1010·2	..	22 5	20·0	18·3	21·4	79	..	1·8	..	7·1	0	1	18	2	1	1	1	3	7	1	3	12	0
Saugor Island	0830	3	1012 1	1011·8	+0 3	25·7	23·4	22·3	26·8	81	+8	2·9	−0·1	17·2	0	11	19	5	3	0	1	4	10	3	4	1	0
	1730	"	1008·5	1008·2	..	27·0	23·3	21·3	25·5	72	..	2·8	..	18·7	0	11	20	1	1	1	4	14	10	0	0	0	0
Sandheads	0530	10	1010·2	1009·1	..	25·3	22·8	21·6	26·1	79	..	2·9	.	13·8	0	4	26	3	1	1	0	4	13	3	5	1	0
	0830	"	1012·7	1011 6	+0·5	26·3	23·2	21·6	26·0	74	0	3·0	+0 8	11·0	0	2	28	4	3	0	1	2	11	5	4	1	0
	1130	"	1012 6	1011·5	..	27 3	23·3	21·0	25·7	69	..	2·0	..	10·3	0	1	30	3	4	0	0	4	10	6	4	0	0
	1730	"	1009·3	1008 2	..	27·2	23·3	21·4	25·4	71	..	1·9	..	10·1	0	2	24	1	0	1	1	10	10	3	0	5	0
	2330	"	1011·1	1010·0	..	25·8	23·0	21·6	25·9	77	..	0 7	..	13·9	0	5	25	1	2	0	2	8	14	2	1	1	0
Contai	0830	11	1012·9	1011 7	..	26.4	22·4	20·2	23·9	70	..	2 4	..	4·5	0	0	24	6	1	0	0	9	6	0	2	7	0
	1730	"	1008·8	1007 6	..	26·9	23·2	20·7	25·4	69	..	2·5	..	6 7	0	0	28	0	0	0	2	23	2	0	1	3	0
Midnapore	0830	45	1012 8	1007·7	+1·1	26·9	19 8	14·6	17 2	51	−8	1 8	0	3·7	0	0	26	6	6	0	0	2	7	2	3	5	0
	1730	"	1008·3	1003 4	..	30·5	20·3	13·1	15 4	33	..	1·6	..	5 7	0	0	23	2	6	2	1	1	8	1	2	8	0
Purulia	0830	255	1013·1	984 2	..	23·5	17 6	12 8	15 4	55	..	3·0	..	3·6	0	0	24	6	1	1	2	0	4	1	9	7	0
	1730	"	1008·6	980.5	..	29·5	19 1	11 0	13·8	35	..	3·7	..	3 3	0	0	24	8	2	0	2	2	1	0	9	7	0
Burdwan	0830	32	1013·1	1009·3	+1·3	23·0	21·7	20·5	24 3	85	+22	1 5	−0 8	0·8	0	0	6	0	0	0	0	0	3	3	0	25	0
	1730	"	1010·4	1006 8	..	30·6	27·8	26·3	35 1	79	..	0·8	..	1·5	0	0	11	2	1	1	1	3	0	0	3	20	0
Krishnagar	0830	15	1013·1	1011·4	+1·4	25·6	20·2	17·0	19 5	61	−2	1·6	−0·8	2·1	0	0	18	3	2	2	1	3	0	5	2	13	0
	1730	"	1008·6	1007·0	..	30·2	20·1	13·3	16·6	37	..	2 0	..	1·1	0	0	12	0	0	0	0	12	0	0	0	19	0
Asansol	0230	126	1009·8	995·3	..	20·9	17·4	14·9	17·0	70	..	2·1	..	2·6	0	1	10	0	0	2	2	2	0	1	4	20	0
	0530	"	1010·6	996·0	..	19·5	16·9	14·9	17·2	76	..	2·4	..	1·5	0	0	10	1	0	0	0	0	0	5	4	21	0
	0830	"	1012·6	998·2	+1·1	24·6	19·3	15·6	18·1	59	+13	2·8	+1·0	7·9	0	0	26	0	0	5	3	0	3	9	6	5	0
	1130	"	1011·6	997·4	..	29·4	21·0	15·5	18·0	46	..	2·2	.	9·0	0	0	28	2	6	4	4	0	2	3	13	3	0
	1730	"	1008 4	994·1	..	29·4	20·5	14·9	16·9	45	..	2·8	..	6·8	0	1	23	1	1	3	1	1	1	4	12	7	0
	2330	"	1010·6	996·2	..	22·8	18 2	14·9	17·1	63	..	1·7	..	3·4	0	0	12	1	1	3	2	1	0	2	2	19	0
Suri	0830	77	1013·1	1004·3	..	24·8	17·9	12·6	14·9	50	..	3 4	..	9·0	0	0	31	1	2	4	3	2	6	9	4	0	0
	1730	"	1009·2	1000·5	..	29·5	18·5	9·7	12·4	33	..	3 0	..	8·1	0	0	31	0	3	3	1	2	4	9	9	0	0
Berhampore	0830	19	1012·3	1010·1	+0·4	23·1	18·9	15·6	18 4	64	+4	1·8	−0 4	0·2	0	0	1	0	0	1	0	0	0	0	0	30	0
	1730	"	1008·5	1006·4	..	29·1	20·2	14·1	15·4	43	..	1·2	..	0·2	0	0	3	0	0	1	0	0	1	0	1	28	0
Orissa																											
Baripada	0830	54	1013 7	1007·5	..	24·9	19 1	14·9	17 3	57	..	2·8	..	3·0	0	0	22	7	1	0	2	2	2	0	8	9	0
	1730	"	1009 0	1002·9	..	29·7	21·1	15·5	18·0	45	.	2 1	.	4·0	0	0	24	1	0	0	15	3	1	1	3	7	0
Balasore	0830	20	1012·4	1010·1	+0·4	25·6	20 8	17·8	20·7	65	−2	2·7	+0 8	4·3	0	0	18	4	3	0	0	3	6	0	2	13	0
	1730	"	1008·8	1006·5	..	27·0	22 5	19·2	23·6	64	..	3·2	..	6·2	0	0	25	0	1	0	4	18	2	0	0	6	0
Chandbali	0830	6	1013·0	1012·3	+1.1	25·8	22·5	21.1	24 6	74	−2	3.5	+0·9	7·6	0	1	24	3	2	0	5	1	10	3	1	6	0
	1730	"	1009·2	1008·5	..	28·5	22·6	19.6	22·5	59	..	2.0	..	7·7	0	0	29	0	5	0	20	3	0	1	0	2	0
Cuttack	0830	27	1012·4	1009·3	+0·1	25·0	22 1	20·5	24·3	76	+3	2 3	−0·2	2·0	0	1	3	0	1	2	0	0	0	0	1	27	0
	1730	"	1008·3	1005 3	..	30·3	22 2	17·1	20·2	46	..	2·3	..	4 5	0	0	16	0	0	0	3	7	5	0	1	15	0
Bhubaneswar	0230	46	1009 9	1004·6	..	23·0	21·2	20·1	23·7	84	..	1·8	.	7·5	0	2	20	1	1	1	4	3	10	2	0	9	0
	0530	"	1010·5	1005·1	..	22·2	20·9	20·2	23·7	89	..	2·7	..	4·7	0	0	21	2	0	0	3	3	7	6	0	10	0
	0830	"	1012·7	1007·5	..	26·1	22·3	20·4	23·8	72	..	2·7	..	8 3	0	1	27	2	4	4	0	1	11	4	1	3	1
	1130	"	1012.0	1006.8	..	31·0	21·8	16·0	19·9	43	..	2·5	.	10·7	0	3	26	2	5	2	3	2	9	4	1	2	1
	1730	"	1008·9	1003·7	..	29·5	21·6	16·7	19·3	49	..	2·7	..	21·7	0	18	13	3	1	0	6	11	9	0	1	0	0
	2330	"	1011·3	1006·1	..	24·5	22·2	20·8	25·0	80	..	1·7	.	11·6	0	4	23	1	0	1	2	6	15	2	0	4	0
Puri	0830	6	1012·9	1012·2	+0·8	27·2	23·9	22·2	26·9	74	−3	2·8	+0·5	16·7	0	11	20	7	1	0	1	2	16	3	1	0	0
	1730	"	1009·3	1008·6	..	26·9	24·2	22·8	28·0	78	..	5·9	.	23·3	0	20	11	0	1	0	4	7	19	0	0	0	0

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, km per hour	Wind speed (km. p. h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*Contd.*																											
Gopalpur	0530	17	1010·5	1008·6	..	22·7	21·9	20·5	25·7	88	..	1·6	..	5·1	0	1	21	4	1	0	0	1	7	4	5	9	0
	0830	,,	1012·7	1010·8	+0·8	26·8	22·7	20·8	24·6	72	−2	1·5	+0·5	9·7	0	4	26	8	1	0	1	5	10	[illegible]	4	1	0
	1130	,,	1012·1	1010·2	..	29·4	24·3	21·8	26·1	63	..	1·4	..	17·4	0	9	22	1	0	1	7	[illegible]	6	0	[illegible]	0	0
	1730	,,	1009·3	1007·4	..	27·1	23·8	22·2	26·8	75	..	2·7	..	22·0	0	19	11	0	0	0	2	16	12	0	0	1	0
	2330	,,	1011·3	1009·3	..	25·0	22·8	21·7	25·9	82	..	1·1	..	15·7	0	11	16	2	0	0	0	5	17	0	3	4	0
Koraput	0830	913	1544·6	913·8	..	24·0	18·0	14·0	16·4	55	..	0·4	..	3·8	0	0	31	3	3	3	4	3	12	2	1	0	0
	1730	,,	1530·3	910·5	..	25·7	17·2	9·7	13·2	40	..	0·6	..	6·9	0	2	29	5	0	3	5	1	3	1	13	0	0
Titilagarh	0830	211	1011·7	987·8	..	25·8	20·4	16·5	19·7	59	..	0·9	..	3·1	0	0	30	0	17	0	9	0	2	0	2	1	0
	1730	,,	1007·7	964·4	..	33·2	21·8	15·2	16·8	37	..	1·0	..	3·0	0	0	31	2	27	0	1	0	0	0	1	0	0
Bolangir	0830	190	1012·2	990·4	..	24·9	19·7	15·9	19·8	61	..	2·8	..	6·0	0	0	31	6	5	2	4	6	6	1	1	0	0
	1730	,,	1008·9	986·9	..	31·7	21·4	14·8	17·2	37	..	3·1	..	5·0	0	0	31	14	8	0	1	1	1	0	6	0	0
Phulbani	0830	464	1010·9	958·8	..	21·8	18·0	15·2	17·5	68	..	1·5	..	0·6	0	0	3	1	0	2	0	0	0	0	0	28	0
	1730	,,	1006·1	955·4	..	28·5	19·3	12·6	14·9	42	..	1·9	..	3·3	0	1	17	3	2	1	2	0	0	1	9	13	0
Angul	0830	139	1013·2	997·3	+1·0	23·1	19·8	17·6	20·4	73	+13	3·0	+0·7	3·5	0	0	26	7	2	2	2	3	0	0	10	5	0
	1730	,,	1007·8	992·8	..	31·7	20·5	12·5	15·0	34	..	3·5	..	4·1	0	0	30	6	6	4	4	5	0	2	3	1	0
Keonjhar	0830	463	1013·2	959·7	..	23·1	16·8	13·8	14·1	55	..	2·2	..	3·3	0	0	22	2	5	3	4	1	0	2	5	9	0
	1730	,,	1007·9	954·6	..	29·2	18·5	12·1	12·6	37	..	3·1	..	4·0	0	0	30	2	3	3	2	1	3	9	7	1	0
Sambalpur	0830	148	1012·7	995·8	+0·5	25·1	18·6	13·5	15·4	52	+1	2·6	+1·2	1·6	0	0	10	6	4	1	1	1	1	0	0	21	0
	1730	,,	1007·9	991·4	..	31·1	19·4	10·3	13·1	31	..	2·6	..	1·8	0	0	16	2	8	1	1	0	0	1	4	15	0
Jharsuguda	0230	230	1010·1	983·6	..	20·5	17·1	14·5	16·8	70	..	2·1	..	3·9	0	0	19	5	3	0	3	1	1	1	5	12	0
	0530	,,	1010·8	984·3	..	19·1	16·5	14·5	16·7	76	..	2·5	..	4·5	0	0	24	4	11	3	1	0	2	2	1	7	0
	0830	,,	1012·9	986·8	..	23·5	17·9	13·7	16·1	57	..	2·3	..	5·6	0	0	30	7	10	3	5	2	0	1	2	1	0
	1130	,,	1011·7	986·1	..	29·1	19·7	12·3	15·2	41	..	2·6	..	6·6	0	0	29	3	6	6	4	1	3	4	2	2	0
	1730	,,	1007·7	982·2	..	30·2	19·5	11·6	14·0	34	..	3·0	..	5·5	0	0	24	2	1	1	3	3	8	2	4	7	0
	2330	,,	1010·5	984·4	..	23·1	18·0	14·3	16·5	59	..	2·3	..	5·5	0	0	27	4	6	4	7	0	2	3	1	4	0
Bihar Plateau																											
Jamshedpur	0830	129	1012·8	998·1	+1·0	23·3	18·1	14·2	16·5	59	+7	2·1	+0·3	5·2	0	0	22	1	0	0	1	0	3	12	5	9	0
	1730	,,	1007·9	993·5	..	30·8	19·2	10·5	12·9	31	..	2·6	..	6·6	0	0	25	2	1	2	1	1	3	9	6	6	0
Jamshedpur (P.B.C.)	0530	142	1010·8	994·4	..	19·6	16·6	14·4	16·4	74	..	2·7	..	3·6	0	0	19	1	1	2	0	7	1	2	5	12	0
	0830	,,	1013·0	996·2	..	23·0	17·5	13·4	15·6	58	..	2·4	..	5·8	0	0	29	0	3	0	1	3	5	11	6	2	0
	1130	,,	1011·8	996·9	..	29·2	18·8	10·5	13·2	35	..	2·6	..	9·5	0	1	29	2	1	0	3	5	4	7	8	1	0
	1730	,,	1007·9	992·2	..	31·2	19·1	9·3	12·4	29	..	4·0	..	9·7	0	2	29	3	2	0	1	6	4	1	14	0	0
	2330	,,	1010·9	994·7	..	23·1	18·1	14·5	16·6	61	..	1·9	..	5·2	0	1	19	0	3	2	2	2	1	3	7	11	0
Chaibasa	0830	226	1012·8	987·0	+0·9	24·2	18·6	14·8	16·9	58	0	2·4	+0·7	1·6	0	0	17	0	2	0	1	0	13	0	1	14	0
	1730	,,	1007·9	982·9	..	30·0	20·5	13·4	16·3	40	..	3·8	..	2·4	0	0	19	0	7	0	0	0	8	0	4	12	0
Ranchi	0830	655	1011·3	938·1	−0·7	20·9	15·0	10·7	12·9	53	+14	1·9	+0·3	0·9	0	0	6	0	0	2	0	4	0	0	0	25	0
	1730	,,	1009·5	937·3	..	24·3	16·3	10·8	12·9	45	..	3·1	..	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
Ranchi (C.W.O.)*	0530	152	1010·9	937·3	..	17·8	13·7	10·3	5·5	61	..	1·9	..	4·8	0	0	11	0	0	0	0	1	5	0	5	10	0
	0830	,,	1012·3	940·0	..	23·6	15·3	8·3	11·2	39	..	(j) 1·8	..	(j) 5·9	0	0	16	2	0	0	0	2	3	1	8	5	..
	1130	,,	1010·7	939·2	..	26·0	16·1	8·7	11·2	34	..	2·9	..	9·0	0	1	28	1	2	1	0	4	7	2	12	2	..
	1730	,,	1007·5	936·8	..	26·6	16·2	8·2	10·9	34	..	(d) 4·6	..	(d) 8·6	0	0	26	0	0	0	0	1	7	1	17	1	0
Daltonganj	0830	221	1013·0	987·8	+0·	22·8	17·7	13·9	16·2	59	+5	2·6	+4·4	..	..	..	..	..	..	..	..	..	..	..	..	..	0
	1730	,,	1008·0	983·8	..	29·0	20·5	14·3	17·2	45	..	3·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Hazaribagh	0830	611	1012·4	944·3	+1·0	22·3	15·5	9·9	12·6	49	+13	2·2	+0·5	6·2	0	0	24	3	1	1	0	4	2	1	12	7	0
	1730	,,	1006·2	941·1	.	26·0	16·3	8·2	11·6	36	..	2·3	..	8·8	0	0	31	11	1	2	0	2	1	1	13	0	0
Dhanbad	0830	257	1013·1	983·8	.	24·4	18·1	13·3	15·5	53	..	(c) 1·6	..	(c) 3·3	0	0	18	0	0	0	5	5	6	0	2	10	0
	1730	,,	1008·4	979·5	..	28·5	19·0	11·5	13·9	41	..	(a) 2·3	..	(a) 2·9	0	0	12	2	0	1	2	0	2	1	4	18	0
Dumka	0830	149	1011·9	995·4	+0·7	23·8	18·2	14·1	16·3	57	+13	2·0	+0·8	1·9	0	0	11	1	0	1	2	0	3	3	1	20	0
	1730	,,	1008·0	991·6	..	28·1	19·2	12·5	15·1	43	..	2·4	..	2·1	0	0	17	1	2	2	0	0	1	10	1	14	0
Bihar Plains																											
Purnea	0830	38	1012·4	1008·1	+0·9	21·4	17·2	13·8	16·3	63	+3	2·2	+0·8	2·8	0	0	20	0	0	8	0	0	6	7	0	11	0
	1730	,,	1008·7	1004·4	..	25·3	19·8	15·8	18·7	61	..	1·6	..	1·9	0	0	16	0	1	3	0	1	1	10	0	15	0
Forbesganj	0830	61	1012·1	1005·1	..	20·7	17·2	14·7	16·7	70	..	2·5	..	5·6	0	0	26	1	0	13	2	0	1	9	0	5	0
	1730	,,	1007·9	1001·1	..	17·9	16·7	12·5	14·5	40	..	2·5	..	7·2	0	0	30	0	1	4	2	0	0	21	2	1	0
Darbhanga	0830	49	1012·8	1007·1	+1·4	22·9	17·5	13·4	15·7	58	+4	2·7	+1·4	3·6	0	0	30	1	3	6	2	1	5	6	6	1	0
	1730	,,	1008·9	1003·4	..	27·3	19·2	13·4	15·7	46	..	3·0	..	3·5	0	0	29	0	2	5	1	0	2	12	7	2	0
Motihari	1830	66	1011·4	1003·7	+0·4	21·2	17·3	14·9	16·6	69	+15	2·0	+1·0	4·7	0	1	18	1	2	2	2	1	3	3	5	12	0
	1730	,,	1008·9	1001·5	..	26·8	19·1	14·0	15·7	49	..	1·4	..	5·2	0	1	21	3	3	2	0	1	0	8	5	9	0
Chapra	0830	..	..	..	..	22·5	17·9	14·3	17·9	63	..	2·9	..	6·3		0	28	2	0	4	4	0	8	7	2	3	1
	1730	..	..	..	..	28·2	19·8	13·6	16·4	44	..	1·9	..	5·8	0	0	29	1	1	5	3	0	7	10	2	2	0

(a) Mean of 30 days. (c) Mean of 28 days. (d) Mean of 27 days. (j) Mean of 21 days.

* Observation for 21 days.

Division and station	Hour of observation I.S.T.	Stat on elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar plains—*Contd.*																											
Patna	0830	53	1012·2	1006·1	+0·6	22·4	17·1	13·1	15·1	59	+13	3·1	+1·7	7·7	0	0	31	0	5	2	2	3	9	9	1	0	0
	1730	,,	1008·4	1002·3	..	28·5	18·9	14·0	16·2	38	..	2·4	..	7·2	0	0	28	1	5	3	1	0	0	15	3	3	0
Patna (Aerodrome)	0530	60	1019·9	1002·9	..	17·3	15·2	13·3	15·6	79	..	2·5	..	4·2	0	0	15	1	1	3	1	0	2	6	1	16	0
	0830	,,	1011·9	1005·1	..	22·1	17·2	13·3	15·7	60	..	3·1	..	9·9	0	1	27	1	1	4	3	3	5	9	1	3	1
	1130	,,	1011·6	1004·9	..	27·9	18·8	11·9	14·4	42	..	3·0	..	13·7	0	5	23	0	3	3	2	0	3	8	9	3	0
	1730	,,	1007·9	1001·2	..	28·9	18·6	10·4	13·0	35	..	2·4	..	11·0	0	3	23	1	2	2	2	1	0	9	9	5	0
	2330	52	1011·1	1005·2	..	22·6	17·7	14·8	16·2	63	..	1·3	..	2·7	0	0	8	1	1	3	0	0	0	2	1	23	0
Dehri	0830	107	1012·8	1000·0	..	23·2	17·4	12·8	15·2	57	..	2·3	..	3·1	0	0	30	1	1	3	6	3	11	4	1	1	0
	1730	,,	1007·8	995·8	..	29·2	19·3	12·3	14·2	38	..	1·9	..	5·5	0	0	31	0	8	1	2	0	2	1	17	0	0
Gaya	0230	116	1010·3	997·1	..	19·0	15·5	12·6	14·2	69	..	1·7	..	6·5	0	1	26	0	1	4	4	8	6	2	2	4	0
	0530	,,	1010·7	997·1	..	17·7	14·8	12·2	15·6	72	..	2·4	..	5·9	0	2	22	1	0	0	6	7	8	2	0	7	0
	0830	,,	1012·8	999·4	+1·1	23·0	17·3	12·6	15·4	56	+23	2·9	+1·5	10·9	0	4	25	1	1	1	4	3	12	6	1	2	0
	1130	,,	1012·4	999·3	..	28·7	18·4	10·5	12·9	36	..	3·0	..	16·2	0	10	20	2	2	2	3	1	3	4	13	1	0
	1730	,,	1009·7	995·6	..	29·5	18·4	9·1	12·2	32	..	2·6	..	16·6	0	7	24	4	6	3	1	1	1	4	11	0	0
	2330	,,	1011·3	997·9	..	21·0	16·2	12·3	14·6	60	..	2·2	..	6·4	0	1	24	1	0	2	5	6	4	4	3	6	0
Jamui	0830	92	1012·7	1003·3	..	23·2	17·6	13·3	15·6	58	..	2·0	..	1·8	0	0	13	0	0	5	0	0	1	6	1	18	0
	1730	,,	1008·7	999·8	..	28·7	19·6	12·8	15·3	40	..	1·6	..	3·7	0	0	19	0	0	5	1	0	0	9	4	12	0
Bhagalpur	0530	49	1010·4	1004·7	..	19·1	15·5	12·5	14·7	69	..	2·7	..	5·5	0	0	20	1	1	3	3	4	3	5	0	11	0
	0830	,,	1012·6	1007·0	..	23·4	17·6	13·1	17·3	57	..	2·9	..	6·7	0	3	22	0	2	3	4	1	7	7	1	6	0
	1130	,,	1012·1	1006·6	..	28·2	19·0	12·0	14·6	40	..	3·2	..	10·9	0	6	18	0	3	3	1	0	2	11	4	7	0
	1730	,,	1008·7	1003·2	..	27·5	18·7	12·1	14·3	42	..	2·3	..	10·5	0	3	25	1	2	4	2	0	0	18	1	3	0
	2330	,,	1010·9	1005·3	..	21·8	17·1	13·3	15·6	62	..	1·2	..	5·7	0	0	21	0	2	1	4	3	2	9	0	10	0
Sabour	0830	37	1012·4	1008·1	+1·3	22·5	18·0	14·5	17·0	65	+15	2·8	+1·0	7·1	0	0	30	0	2	7	1	2	11	7	0	1	
	1730	,,	1008·4	1004·1	..	28·4	19·8	13·3	16·1	45	..	2·5	..	9·3	0	3	26	1	2	5	2	0	1	8	10	2	0
Uttar Pradesh (East)																											
Gonda	0830	110	1012·4	999·7	..	21·7	17·1	13·6	15·7	62	+14	2·5	+1·1	3·9	0	0	24	2	1	10	1	0	0	4	6	7	0
	1730	,,	1008·7	996·4	..	27·5	19·2	13·4	15·5	44	..	2·5	..	4·2	0	0	19	3	1	3	0	0	0	2	10	12	0
Nautanwa	0830	99	1012·2	1000·6	..	20·3	16·3	13·0	14·5	64	..	2·3	+1·2	4·2	0	0	25	1	2	6	6	2	3	3	2	6	0
	1730	,,	1008·4	997·2	..	27·6	17·7	9·5	11·9	37	..	2·5	..	7·5	0	0	31	1	4	2	4	2	6	9	3	0	0
Gorakhpur	0830	77	1011·9	1002·8	+0·6	22·7	16·8	11·8	13·8	53	+1	2·3	..	3·7	0	0	30	0	1	10	0	0	1	16	2	1	0
	1730	,,	1009·2	1000·2	..	27·6	18·4	11·1	13·2	39	..	3·2	..	3·3	0	0	27	3	2	1	0	0	2	18	1	4	0
Gorakhpur (P.B.O.)	0230	78	1009·6	1000·6	..	20·2	15·7	12·2	14·2	63	..	1·7	..	5·5	0	1	25	4	5	1	0	1	3	5	7	5	0
	0530		1010·0	1000·9	..	19·1	15·2	12·0	14·0	66	..	2·7	..	4·7	0	1	23	4	4	0	0	2	4	6	4	7	0
	1130	,,	1011·9	1003·0	..	27·3	18·4	12·8	14·8	44	..	2·8	..	10·6	0	3	27	1	2	4	3	4	2	7	7	1	0
	2330	,,	1010·7	1001·6	..	21·6	16·5	12·2	14·2	59	..	1·5	..	5·4	0	0	22	1	6	0	1	1	2	6	5	9	0
Azamgarh	0830	78	1012·0	1003·0	..	21·4	17·8	15·2	17·3	71	..	2·0	..	4·0	0	0	31	0	2	9	0	0	0	18	2	0	0
	1730	,,	1008·6	999·8	..	28·2	21·3	17·2	19·6	55	..	2·1	..	2·3	0	0	18	1	2	5	0	1	0	9	0	13	0
Ballia	0830	64	1012·8	1005·4	..	21·5	16·8	13·1	15·1	62	..	2·5	..	3·7	0	0	25	0	1	5	3	0	6	8	2	6	0
	1730	,,	1009·4	1002·2	..	28·7	19·2	12·4	14·4	40	..	2·9	..	4·0	0	0	25	0	0	3	2	0	4	10	6	6	0
Varanasi (Banaras)	0830	76	1012·2	1003·7	+0·8	22·4	17·5	13·7	15·7	61	+13	2·3	+0·9	4·3	0	0	26	1	4	4	1	4	6	5	1	5	0
	1730	,,	1008·7	1000·1	..	29·5	19·4	12·2	14·2	37	..	2·6	..	3·5	0	0	21	2	3	1	1	1	5	4	4	10	0
Varanasi (Banaras) (Babatpur Aerodrome)	0530	85	1011·8	1001·8	..	17·1	14·5	12·2	14·1	75	..	2·3	..	5·8	0	0	21	0	2	4	1	0	4	7	3	10	0
	0830	,,	1013·7	1003·8	..	22·8	17·6	13·6	15·7	60	..	2·5	..	10·7	0	1	27	0	3	4	1	2	10	6	2	3	0
	1130	,,	1013·1	1003·4	..	28·4	19·2	12·0	14·7	40	..	2·2	..	12·1	0	3	27	2	3	4	1	2	5	5	7	1	1
	1730	,,	1009·6	1000·0	..	29·2	19·4	12·1	14·7	38	..	2·7	..	11·3	0	2	28	4	9	1	0	1	2	9	4	1	0
	2330	,,	1012·1	1002·2	..	21·0	16·3	12·6	14·3	60	..	1·3	..	7·8	0	1	25	2	6	6	0	0	2	5	5	5	0
Allahabad (Bamrauli)	0230	98	1010·6	998·6	..	19·2	14·7	10·6	13·2	60	..	1·5	..	2·8	0	0	15	0	4	2	2	1	1	2	3	16	0
	0530	,,	1010·5	999·0	..	17·8	14·3	11·0	13·8	67	..	2·2	..	2·6	0	0	20	3	3	6	0	2	2	3	1	11	0
	0830	,,	1012·6	1001·4	+0·9	23·1	16·4	10·6	12·8	48	+4	2·5	..	6·2	0	0	26	2	1	5	2	3	3	9	1	5	0
	1130	,,	1012·3	1001·3	..	29·5	18·2	8·5	11·5	30	..	2·2	..	8·0	0	1	26	2	0	5	3	4	1	5	7	4	0
	1730	,,	1008·6	997·6	..	29·9	17·8	7·1	10·7	27	..	2·5	..	8·3	0	1	27	4	5	0	0	1	4	5	9	3	0
	2330	,,	1011·0	999·7	..	21·7	15·7	10·4	12·6	51	..	1·6	..	3·4	0	0	17	3	3	2	2	0	0	4	3	14	0
Sultanpur	0830	97	1013·4	1002·3	..	24·2	16·8	10·7	12·9	46	..	2·1	..	3·2	0	0	25	1	1	9	1	0	0	11	2	6	0
	1730	,,	1010·0	999·1	..	27·9	17·8	8·9	11·4	34	..	2·5	..	3·1	0	0	26	0	0	9	0	0	0	17	0	5	0
Farrukhabad	0830	102	1012·2	1000·5	..	21·2	16·3	12·3	14·3	59	..	2·6	..	4·8	0	0	25	0	1	5	5	0	1	9	4	6	0
	1730	,,	1008·3	996·9	..	27·3	18·4	11·5	13·9	40	..	3·0	..	5·2	0	0	26	2	1	2	3	0	1	13	4	5	0
Banda	0830	121	1012·5	998·6	..	23·8	18·1	14·1	15·9	57	..	2·0	..	2·6	0	0	21	0	5	0	9	0	2	2	3	10	0
	1730	,,	1008·2	994·7	..	30·8	21·1	14·6	16·7	39	..	2·6	..	3·2	0	0	27	0	5	1	3	0	5	0	13	4	0
Fatehpur	0830	114	1012·6	999·4	..	22·4	16·6	12·2	13·9	56	+4	2·0	+0·7	6·2	0	0	28	2	1	6	6	1	5	4	3	3	0
	1730	,,	1008·5	995·7	..	29·9	18·6	10·1	13·1	30	..	3·0	..	7·6	0	0	28	4	2	1	4	0	2	3	12	3	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—Contd.																											
Kanpur	0830	126	1012·7	998·1	+1·0	21·3	15·7	10·8	13·2	55	+10	2·5	+1·7	8·2	0	0	20	0	5	8	3	0		10	2	1	0
	1730	,,	1008·8	994·7	..	29·6	17·7	6·7	10·3	28	..	3·1	..	9·3	0	0	21	2	2	4	0	0	1	11	10	0	
Kanpur (Aerodrome)	0530	126	1010·5	995·8	..	17·6	14·0	10·6	12·8	66	..	2·1	..	..	0	2	21	3	4	0	1	1	3	4	2	0	0
	0830	,,	1012·3	997·8	..	21·5	16·0	11·2	13·3	55	..	2·3	..	..	0	3	23	1	2	7	6	2	2	3	2	5	0
	1130	,,	1012·3	998·1	..	28·0	18·4	10·8	12·9	38	..	2·2	.	..	0	6	4	2	1	3	6	5	1	7	5	1	0
	1730	,,	1008·6	994·5	..	29·9	18·1	8·0	10·7	29	..	2·7	..	..	0	0	26	2	3	4	2	2	0	5	13	0	0
	2330		1010·9	996·4	..	21·3	15·5	10·9	13·0	55	..	1·9	..	..	0	1	22	4	3	5	2	1	0	4	5	8	0
Lucknow	0830	111	1012·7	999·8	+1.4	20·0	15·6	12·0	14·1	62	+14	2·5	+1·1	3·1	0	0	31	6	1	1	2	1	4	14	2	0	0
	1730	,,	1009·3	996·8	..	29·0	18·4	10·3	12·8	33	..	2·4	..	3·4	0	0	30	3	1	0	3	2	1	18	2	1	0
Lucknow (Amausi Aerodrome)	0230	123	1010·0	995·[illegible]	..	17.5	14·5	12·0	14·0	71	..	2·4	..	7·2	0	2	18	2	2	6	1	0	0	5	4	11	0
	0530	,,	1010·2	99[illegible]·2	..	16·4	13·8	11·5	13·6	74	..	2·5	..	8·6	0	1	20	4	4	2	1	0	1	6	3	10	0
	0830	,,	1012·2	997·4	+0·6	21·2	16·1	12·0	14·3	59	+20	2·7	+1·3	12·0	0	4	21	1	2	6	3	1	1	2	9	6	0
	1130	,,	1012·9	[illegible]·6	..	27·6	18·4	11·0	13·7	39	..	2·6	..	20·5	0	12	18	1	1	4	5	4	4	6	5	1	0
	1730	,,	1008·7	994·4	..	28·4	18·2	9·9	12·6	35	..	3·4	..	14·4	0	11	15	1	4	1	0	1	1	9	9	5	0
	2330	,,	1010·9	996·1	..	19·7	15·3	11·7	13·7	62	..	2·2		10·6	0	5	20	3	6	4	1	0	0	6	5	6	0
Hardoi	0830	142	1012·3	995·8	..	19·8	15·6	12·2	14·2	64	..	2·8	.	5·7	0	0	25	3	1	7	2	1	1	7	3	6	0
	1730	,,	1008·6	992·6	..	28·4	15·4	9·1	11·6	33	..	2·0		6·6	0	0	29	8	2	2	2	0	1	11	3	2	0
Lakhimpur Kheri	0830	147	1012·0	994·8	..	18·5	16·3	14·8	16·8	81	..	2·8		3·0	0	0	24	2	1	11	0	0	0	9	1	7	0
	1730	,,	1008·5	992·0	..	27·3	22·6	20·0	23·4	66	..	2·9	..	2·7	0	0	19	1	0	5	0	0	0	11	2	12	0
Bahraich	0830	124	1012·5	998·2	+1·6	20·7	16·2	12·7	14·[illegible]	62	+6	3·1	+1·9	6·1	0	0	30	2	0	11	0	0	2	9	6	1	0
	1730	,,	1009·0	995·0	..	26·8	18·2	11·8	13·7	41	..	3·6	..	5·7	0	0	29	2	0	6	1	0	1	16	3	2	0
Uttar Pradesh (West)																											
Orai	0830	141	1014·3	998·1	..	23·2	17·9	14·0	16·0	57	..	2·2	..	3·7	0	0	31	0	5	3	2	2	1	1	17	0	0
	1730	,,	1009·0	993·3	..	29·7	20·2	13·7	15·7	38	..	1·9	.	3·6	0	0	31	6	0	2	2	0	2	2	17	0	0
Jhansi	0830	251	1012·1	983·5	−0·4	22·3	15·5	9·7	12·0	47	+10	1·8	+0·5	1·0	0	0	10	3	0	5	1	1	0	0	0	21	0
	1730	,,	1008·4	980·7	..	30·9	18·8	9·7	12·0	29	..	2·6	.	2·6	0	0	24	14	1	1	2	0	0	2	4	7	0
Agra	0830	169	1012·9	993·4	+0·7	20·5	14·8	10·[illegible]	12·1	52	+9	3·4	+1·7	2·6	0	0	21	2	6	2	4	2	1	0	4	10	0
	1730	,,	1009·0	990·[illegible]	.	28·9	17·6	8·0	10·9	29	..	2·5	.	1·7	0	0	9	1	0	0	1	0	2	0	5	22	0
Agra (Aerodrome)	0530	169	1011·0	990·9	.	15·7	13·1	10·7	12·9	73	..	[illegible]			0	0	13	3	2	5	1	0	0	0	2	18	0
	0830		1012·8	992·[illegible]	.	19·4	15·[illegible]	11·1	13·2	61	..	3·3			0	0	29	5	3	7	0	1	3	4	6	2	0
	1130		1012·8	993·4	.	26·7	17·9	10·3	12·5	38	..	2·9			0	4	26	3	2	4	3	2	3	5	8	1	0
	1730		1008·9	990·7	..	28·6	18·3	9·8	12·1	34	..	3·7			0	1	27	3	2	1	1	2	2	8	9	3	0
	2330	,,	1011·4	991·6	..	19·6	17·[illegible]	11·2	13·3	61	.	2·7			0	1	14	2	4	3	1	0	0	2	3	16	0
Mainpuri	0830	157	1011·9	993·8	+0·2	19·9	15·7	12·1	14·7	63	+15	2·1	+0·5	2·8	0	0	27	1	1	7	4	0	1	7	6	4	0
	1730	,,	1008·4	990·6		29·[illegible]	19·1	11·5	13·7	36		2·2		2·6	0	0	27	0	3	3	4	0	2	5	10	4	0
Aligarh	0830	187	1012·8	991·0	..	18·4	14·4	10·8	13·3	61	+14	3·3	+1·9	3·0	0	0	28	6	0	11	0	1	0	5	5	3	0
	1730	,,	1009·2	988·1		27·8	17·2	8·9	11·1	32	..	4·0	.	3·5	0	0	26	6	0	7	0	4	0	7	2	5	0
Bareilly	0830	173	1012·3	992·3	+1·0	20·3	15·8	12·2	14·1	61	+1	2·9	+1·1	3·6	0	0	24	1	2	5	4	1	1	7	3	7	0
	1730	,,	1008·7	989·2	..	26·6	17·2	9·0	12·3	35	..	3·8		2·7	0	0	20	0	0	4	0	0	1	11	4	11	0
Bareilly (P.B.O.)	0230	172	1010·2	990·2	.	18·6	14·6	11·4	13·5	65	..	2·4		5·4	0	0	25	0	1	7	5	0	0	5	7	6	0
	0530	,,	1010·3	990·2		17·6	13·9	11·1	13·2	69	..	2·8		5·9	0	0	29	1	4	6	5	0	0	6	7	2	0
	1130		1012·2	992·6		25·2	17·0	11·4	13·4	44		2·5 (a)	.	8·5	0	0	31	2	3	7	4	1	1	4	9	0	0
	2330		1011·0	99[illegible]·1	.	20·3	14·9	11·0	13·1	57	.	2·4	..	6·1	0	2	23	1	3	7	0	0	1	9	4	6	0
Meerut	0830	222	1012·9	987·3	[illegible]	20·1	15·2	11·1	13·2	57	0	1·8	0	4·3	0	0	23	0	3	13	0	0	0	4	3	8	0
Najibabad	0830	270	1012·9	981·6	..	17·1	13·8	10·8	13·0	68	..	1·9		2·2	0	0	16	0	7	1	4	0	0	0	4	15	0
	1730	,,	1009·7	979·5	.	26·8	17·1	8·9	11·5	35	..	1·8		4·9	0	0	25	0	5	0	5	0	2	0	13	6	0
Roorkee	0830	274	1013·5	982·7	+1·6	18·1	14·2	10·8	13·0	63	+2	4·0	+2·1	1·5	0	0	15	1	0	0	6	0	2	0	6	16	0
	1730	,,	1010·4	979·6	..	25·9	16·4	8·2	11·2	44	..	4·2	.	1·6	0	0	17	0	0	0	7	0	1	1	8	14	0
Dehra Dun	0530	682	1011·8	933·9	..	13·9	10·7	8·0	11·1	69	..	2·7		2·9	0	0	17	10	4	0	0	0	2	0	1	14	0
	0830	,,	1012·9	935·7	+1·1	17·0	12·6	8·6	11·3	59	+1	3·7	+0·9	5·5	0	0	9	3	2	2	1	0	1	0	0	22	0
	1130	,,	1012·4	936·5	.	21·8	14·5	8·5	11·3	44	..	3·7		5·4	0	0	28	0	2	3	4	6	12	0	1	3	0
	1730		1009·0	933·6	..	22·5	15·1	9·0	11·7	44	..	4·2	..	2·5	0	0	18	1	2	0	1	2	8	4	1	13	0
	2330		1012·2	934·8	..	13·2	12.5	9·4	11·8	65	..	3·0	.	3·1	0	0	22	8	1	1	0	0	0	1	0	9	0
Punjab (India) (Including Delhi)																											
New Delhi	0230	216	1010·9	985·8	..	18·0	13·7	9·8	12·1	61	..	2·7	..	9·5	0	2	25	4	0	6	5	0	2	2	8	4	0
	0530		1011·0	985·7	..	16·4	13·1	9·8	12·3	67	..	2·5	..	3·0	0	1	24	2	2	4	3	2	1	2	9	6	0
	0830		1012·8	987·7	+0·7	18·7	14·3	10.2	12·5	60	+12	3·2	+1·0	11·7	0	2	28	1	2	5	5	1	3	3	10	1	0
	1130		1012·7	988·1	..	25·6	16·9	9.5	12·2	38	..	3.1	.	13·2	0	5	25	2	0	7	6	1	3	5	6	1	0

(a) mean of 30 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH 1960 (PHALGUNA 11, 1881—CHAITRA 11, 1882 SAKA)

Division and station	Hour of observation I.S.T.	Station Elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—*Contd.*																											
New Delhi	1730	216	1009·0	984·7	..	27·0	17·3	9·2	12·0	36	..	3·6	..	12·0	0	3	26	5	3	4	4	0	0	3	10	2	0
	2330	,,	1011·6	986·6	..	19·7	14·9	10·2	12·9	56	..	2·7	..	10·7	0	1	24	5	1	6	3	1	0	1	8	6	0
New Delhi (Palam Aerodrome)	0230	233	1010·7	983·8	..	18·6	14·3	10·5	12·7	61	..	2·3	..	..	0	1	25	4	2	8	3	2	2	3	2	5	0
	0530	,,	1010·8	983·7	..	16·7	13·2	10·1	12·3	67	..	2·3	..	..	0	2	23	1	4	5	5	3	1	3	3	6	0
	0830	,,	1012·8	985·7	..	18·0	14·0	10·3	12·5	63	..	3·4	..	..	0	5	24	2	2	4	6	3	4	3	5	2	0
	1130	,,	1012·7	986·1	..	25·0	17·1	10·7	12·9	43	..	3·2	..	..	0	8	23	4	1	5	5	3	4	3	6	0	0
	1430	,,	1010·1	984·1	..	27·8	17·5	8·5	11·1	32	..	3·8	..	..	0	9	22	2	4	2	4	0	2	8	9	0	0
	1730	,,	1009·0	982·8	..	27·1	17·5	9·4	11·8	36	..	3·7	..	..	0	8	23	5	1	5	3	1	1	4	11	0	0
	2030	,,	1010·5	984·7	..	22·9	16·2	10·5	12·7	49	..	3·0	..	..	0	3	26	3	2	8	6	0	0	2	8	2	0
	2330	,,	1011·5	984·7	..	20·4	15·1	10·4	12·6	55	..	3·1	..	..	0	2	27	6	3	5	6	0	2	3	4	2	0
Hissar	0530	221	1011·1	985·2	..	14·4	12·8	11·2	12·4	83	..	3·0	..	7·6	0	0	31	2	4	5	6	2	2	1	9	0	0
	0830	,,	1013·0	987·3	+0·6	17·0	14·5	12·4	14·4	75	+24	3·2	+1·5	5·5	0	0	27	4	4	4	5	3	2	3	2	4	0
	1130	,,	1012·7	987·7	..	25·7	19·5	15·5	18·1	54	..	2·9	..	8·1	0	1	30	2	4	1	10	3	2	2	7	0	0
	1730	,,	1009·9	984·5	..	27·2	20·8	16·7	19·4	54	..	4·0	..	9·1	0	0	30	3	2	4	2	3	2	9	5	1	0
	2330	,,	1011·8	986·2	..	18·3	15·4	13·2	15·4	73	..	2·9	..	6·9	0	0	30	2	6	2	5	1	3	0	11	1	0
Karnal	0830	249	1013·3	984·4	..	17·7	14·4	11·2	13·7	69	..	1·4	..	..	0	0	2	0	1	0	0	0	0	0	1	29	0
	1730	,,	1009·2	981·0	..	25·2	17·7	11·8	13·8	46	..	1·4	..	..	0	0	2	0	0	0	2	0	0	0	0	29	0
Patiala	0830	251	1012·7	983·7	..	17·9	13·8	9·8	12·4	61	..	3·9	..	6·2	0	0	23	0	0	1	7	1	0	0	14	8	0
	1730	,,	1009·7	981·6	..	24·5	16·0	8·5	11·5	39	..	4·4	..	6·4	0	0	21	0	1	0	7	0	0	0	13	10	0
Ambala	0830	272	1012·4	980·9	+0·7	17·5	14·0	10·8	12·9	66	+10	2·2	−0·1	2·3	0	0	14	0	2	0	6	0	1	0	5	17	0
	1730	,,	1009·3	978·7	..	25·0	16·6	8·8	11·3	38	..	2·3	..	4·4	0	0	27	0	8	0	16	0	1	0	2	4	0
Ambala (P.B.O.)	0230	278	1010·5	978·3	..	17·0	13·8	11·2	13·3	69	..	3·2	..	7·7	0	0	28	6	4	4	3	2	1	2	6	3	0
	0530	,,	1010·6	978·2	..	15·5	12·9	10·9	13·0	75	..	2·4	..	5·6	0	0	24	5	2	1	3	1	3	1	8	7	0
	1130	,,	1012·5	981·0	..	24·0	17·4	12·9	14·9	52	..	3·7	..	12·4	0	4	27	4	1	0	14	3	0	3	6	0	0
	2330	,,	1011·3	979·2	..	18·7	14·7	11·8	13·8	65	..	3·4	..	8·6	0	0	27	4	1	4	3	3	1	1	10	4	0
Ambala (Aerodrome)	0530	274	1011·0	978·8	..	13·5	11·6	9·9	12·2	78	..	2·9	..	..	0	3	10	0	0	4	1	0	0	4	4	18	0
	0830	,,	1012·5	980·5	..	17·3	13·6	10·3	12·5	65	..	3·8	..	..	0	6	19	2	1	7	6	1	0	3	5	6	0
	1130	,,	1012·[illegible]	981·7	..	23·9	15·6	8·5	11·1	41	..	3·9	..	..	0	14	17	1	1	6	10	2	1	4	6	0	0
	1730	,,	1009·0	978·1	..	25·7	15·7	6·8	9·9	34	..	4·3	..	..	0	9	19	0	0	4	6	1	2	7	8	3	0
	2330	,,	1011·7	979·9	..	16·9	13·2	9·7	12·0	67	..	3·1	..	8·9	0	2	19	0	0	4	2	2	1	8	4	10	0
Chandigarh	0830	347	1011·9	972·3	..	19·9	14·4	9·9	11·9	54	..	2·9	.	..	0	0	27	1	5	4	3	0	0	0	14	4	0
	1730	,,	1009·0	970·1	..	25·1	16·6	9·3	12·0	49	..	3·2	..	..	0	0	27	0	1	1	9	0	4	3	9	4	0
Ludhiana	0830	347	1013·0	984·2	+0·9	17·4	14·2	11·0	13·1	66	+5	2·4	+0·2	2·7	0	0	21	1	4	0	7	1	1	0	7	0	0
	1730	,,	1009·6	981·7	..	25·0	18·2	13·3	15·3	49	..	2·9	..	3·4	0	0	31	2	3	0	6	1	5	0	14	0	0
Hiswara (Aerodrome)	0830	242	1013·3	984·8	..	15·7	13·4	11·4	13·6	77	..	3·8	..	7·5	0	2	24	4	2	2	6	0	1	0	11	5	0
	1730	,,	1010·5	983·1	..	23·8	16·5	10·3	12·5	45	..	3·5	..	13·5	0	5	25	3	2	1	9	2	0	3	10	1	0
Bhatinda	0830	211	1013·0	988·3	..	18·4	14·2	10·5	12·8	61	..	(a) 2·2	..	(a) 7·1	0	1	24	5	6	2	6	0	0	0	6	5	0
	1730	,,	1009·8	985·6	..	25·8	15·9	7·4	10·3	32	..	(a) 1·7	..	(a) 8·8	0	3	26	5	1	3	3	0	3	4	10	1	0
Ferozepur	0830	200	1012·0	988·5	..	15·3	13·3	11·4	13·8	79	..	2·6	..	1·2	0	0	16	0	6	0	3	0	2	0	5	15	0
	1730	,,	1009·6	986·9	..	25·1	18·0	12·9	14·9	49	..	2·2	..	2·0	0	0	19	2	3	0	3	2	3	0	6	2	0
Amritsar	0530	234	1011·8	984·1	..	12·5	11·0	9·8	11·9	84	..	2·9	..	7·9	0	1	23	3	2	8	2	0	2	3	4	7	0
	0830	,,	1013·1	985·7	..	15·3	13·1	10·7	13·2	76	..	3·6	..	1·2	0	2	20	3	4	6	3	1	0	0	5	9	0
	1130	,,	1013·2	986·5	..	22·4	15·8	10·1	12·3	48	..	4·4	..	14·6	0	7	23	4	2	6	5	3	1	3	6	1	0
	1730	,,	1010·0	983·3	..	23·4	15·7	8·5	11·4	42	..	3·5	..	15·8	1	7	23	3	2	6	5	1	2	5	7	0	0
Pathankot (Aerodrome)	0830	312	1013·1	997·0	..	16·6	12·7	9·1	9·5	63	..	4·7	..	6·4	0	2	23	3	5	6	4	0	2	2	3	6	0
	1130	,,	1013·2	977·7	..	22·1	14·8	8·0	10·7	43	..	4·7	..	8·9	0	2	28	0	1	4	8	3	6	5	3	1	0
	1730	,,	1009·9	974·7	..	23·3	14·9	6·7	9·8	37	..	5·1	..	10·5	0	2	29	0	3	3	3	3	7	10	2	0	0
Adampur (Aerodrome) (R)	0530	236																									
(R)	0830	,,																									
(R)	1130	,,																									
(R)	1730	,,																									
(R)	2330	,,																									
Himachal Pradesh Bilaspur	0830	493	1014·4	957·2	..	13·8	11·5	9·5	11·8	76	..	4·1	..	1·2	0	0	13	1	2	0	2	2	2	1	3	18	0
	1730	,,	1009·4	954·5	..	23·3	15·4	7·1	10·3	37	..	4·4	..	7·4	0	2	27	2	0	0	0	5	6	8	8	2	0
Mandi	0830	761	1014·7	927·5	..	12·1	10·8	9·2	11·4	83	..	4·1	..	0·4	0	0	3	0	0	0	0	0	0	2	1	28	0
	1730	,,	1008·6	924·5	..	21·1	14·2	8·1	10·7	46	..	4·4	..	1·5	0	0	14	0	0	1	2	0	2	2	7	17	0
Jammu and Kashmir Srinagar	0830	1587	1514·1	842·6	−0·3	4·8	3·8	2·7	7·2	85	0	7·1	+2·2	3·1	0	1	18	0	0	0	7	1	0	4	7	12	0
	1130	,,	1518·3	843·1	..	8·1	5·7	3·1	7·5	72	..	6·5	..	4·6	0	2	16	1	0	0	2	0	2	7	6	13	0
	1730	,,	1497·6	841·1	..	9·2	6·1	2·9	7·5	67	..	6·7	.	5·0	0	0	23	2	0	1	3	0	0	12	5	8	0

(R) Register not received.

(a) Means

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km./h.): 62 or more	Wind speed (km./h.): 20 to 61	Wind speed (km./h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir —*Contd.*																											
Srinagar (Aerodrome)	0530	1666	1498·9	833·4	..	3·3	2·5	1·4	6·8	87	..	5·3	..	..	1	3	10	0	1	1	2	1	0	4	5	17	0
	0830	,,	1509·5	834·5	..	4.5	3·3	1·8	6·9	82	..	6·5	..	..	0	1	24	1	1	1	4	4	1	0	13	6	0
	1130	,,	1514·8	835·2	..	7·8	5·2	2·3	7·2	70	..	6·4	..	..	1	2	26	3	3	1	6		0	2	12	2	0
	1730	,,	1494·3	833·2	..	8·4	5·3	1·4	6·7	67	..	6·7	..	..	1	3	27	2	0	1	3	0	0	6	19	0	0
Gulmarg (R)	0830	2655																									
(R)	1730	,,																									
Leh	0530	3514	3077·9	662·8	..	−4·0	−6·6	−13·5	2 0	52	..	4 0	..	3·8	0	0	19	4	10	0	1	3	0	1	0	12	0
	0830	,,	3082·1	663·8	−1·2	−0·3	−3·6	−9·7	2 6	45	−9	5·3	+0·4	7·4	0	0	20	2	3	1	0	10	3	1	0	11	0
	1730	,,	3044·6	661·0	..	3·0	−0·6	−5·6	3·8	51	..	5·8	..	8·0	0	0	28	0	1	0	1	2	11	8	5	3	0
Skardu (R)	0830																										
(R)	1730	,,																									
Gilgit (R)	0830																										
(R)	1730	,,																									
Misgar (R)	0830																										
(R)	1730	,,																									
Jammu*	0830					Temporarily closed																					
Jammu (Aerodrome)	0530	292	1011·8	977·4	..	14·7	11·3	7·9	10·7	65	..	4·2	..	..	0	5	17	3	15	2	0	1	0	1	0	9	0
	0830	,,	1013·1	978·9	..	16·9	12·8	8·6	11·3	61	..	5·0	..	..	0	2	19	2	14	1	1	1	1	1	0	10	0
	1130	,,	1013·4	979 8	..	21·7	14·7	8·1	10 8	44	..	4·8	..	..	0	2	20	1	5	2	4	1	0	4	5	9	0
	1730	,,	1010·1	976·8	..	23·4	15·1	7·2	10·1	37	..	5·1	..	..	0	5	23	1	2	1	4	3	3	9	5	3	0
Rajasthan (West) Sriganganaga	0530	177	1011·0	990·2	..	14·3	11·6	8·9	11·0	71	..	2·6	..	22·8	0	0	13	0	4	7	1	0	1	0	0	18	0
	0830	,,	1012·3	991·5	..	16·0	12·6	9·2	11·6	66	+8	2·1	−0·3	3·7	0	0	23	4	3	10	4	0	0	1	1	8	0
	1130	,,	1012·8	992·9	..	24·4	15 8	7·9	11·0	38	..	3·1	..	6·5	0	0	28	4	3	5	11	2	1	1	1	3	0
	1730	,,	1009·0	989·1	..	26·7	16·4	7·4	10·3	31	..	2·8	..	3·1	0	0	16	3	3	3	3	0	1	2	1	15	0
	2330	,,	1011·8	991.2	..	17·6	13·7	9·8	12 5	62	..	2·1	..	8·4	0	0	16	2	4	5	1	0	1	1	2	15	0
Churu	0830	291	1012·8	979·1	..	18·0	13·2	8·3	11·2	56	..	3·4	..	6·7	0	0	25	4	2	8	3	4	2	2	0	6	0
	1730	,,	1008·7	976·2	..	28·2	17·0	6·3	10 4	28	..	3·5	..	12·5	0	3	28	13	2	1	1	4	2	6	2	0	0
Bikaner	0830	224	1012·3	986·3	+0·2	18·2	11·5	3·1	8·4	40	−3	1·4	−0·4	5·3	0	0	28	2	2	4	11	2	4	1	2	3	0
	1730	,,	1008.4	983·3	..	28·8	15 7	1·1	7·5	19	..	2 0	..	8·0	0	1	30	1	5	0	5	1	8	4	7	0	0
Bikaner (P.B.O.)	0530	224	1010·7	984·4	..	14·8	11·7	8 5	11·1	67	..	2 0	..	3 1	0	0	13	0	1	1	2	5	1	1	2	18	0
	1130	,,	1012·1	986·9	..	27·1	18·7	12·3	14 3	42	..	2·8	..	7·6	0	1	28	0	8	0	3	7	5	1	5	2	0
	2330	,,	1011·4	985·5	..	19·3	14·2	9·8	12·1	55	..	2·2	..	5·1	0	0	17	3	3	2	2	2	2	1	2	14	0
Jaisalmer	0830	242	1011·5	983·7	..	18·9	13·5	8·2	10·9	52	..	2·7	..	10·2	0	2	26	5	3	2	0	9	9	0	0	3	0
	1730	,,	1007·9	981·1	..	29·4	16·2	2·8	7·5	20	..	2·5	..	15·4	0	5	26	4	3	0	1	9	10	2	2	0	0
Phalodi	0830	234	1012·5	985·4	..	19·5	15·6	12 3	14·3	66	..	2·8	..	10.0	0	2	26	0	2	7	5	3	4	6	1	3	0
	1730	,,	1009·5	983·2	..	29·7	21·0	14 9	16·9	45	..	3 1	..	12·5	0	7	21	2	4	0	0	1	11	7	3	3	0
Nagaur	0830	298	1012·3	978·0	..	20 2	12 8	4·4	8·4	39	..	2·5	..	7·6	0	1	29	2	4	2	8	7	4	3	0	1	0
	1730	,,	1008·2	974·9	..	29·1	15·6	0	6·1	20	..	3·0	..	11·2	0	3	26	4	3	2	2	3	6	5	4	2	0
Jodhpur	0230	224	1010·6	984·8	..	20·4	12·2	1·8	7·5	31	..	1·5	..	8·1	0	0	27	5	6	1	0	0	5	8	2	4	0
	0530	,,	1010·5	984·6	..	18·5	11·3	1·8	7·4	36	..	1·4	..	8·6	0	1	28	5	8	2	0	1	6	6	1	2	0
	0830	,,	1012·5	986·7	+1·5	20·0	12·4	3 0	8·6	36	0	2·8	+0·8	7·6	0	0	25	1	10	2	1	0	6	4	1	6	0
	1130	,,	1012·5	987·2	..	27·5	15·9	3·8	8·6	25	..	2·8	..	10·8	0	3	26	1	5	5	1	3	9	5	0	2	0
	1730	,,	1008·4	983·4	..	30·8	15·9	−0·2	6·1	15	.	2·6	..	11·0	0	5	22	1	3	1	2	4	6	6	4	4	0
	2330	,,	1011·1	985·5	..	23.2	13·3	1·1	7·6	25	..	1·5	..	8·6	0	1	28	4	4	0	0	1	7	9	4	2	0
Barmer	0530	194	1010·0	987·6	..	19·8	13·7	6·4	9·6	46	..	1.4		..	0	0	27	5	0	0	0	2	7	2	11	4	0
	0830	,,	1011·7	989·2	−0·3	20·1	14·0	7·0	10·0	48	−7	3·2	+1·6	..	0	0	31	12	1	0	1	2	4	6	5	0	0
	1130	,,	1012·2	990·3	..	27·6	16·4	4·9	8·7	27	..	2·4	..	..	0	0	31	5	4	2	2	2	2	9	5	0	0
	1730	,,	1008·3	986·6	..	30·8	16·8	2·7	7·4	19	..	3·4	..	..	0	0	31	1	3	2	2	4	6	10	3	0	0
	2330	,,	1010·7	988·5	..	23·8	14·7	5·1	8·8	33	..	1·7	..	..	0	0	30	0	1	0	0	6	7	14	2	1	0
Rajasthan (East) Pilani	0830	301	1013·3	978·7	..	18·7	13·6	8·6	11.2	55	..	2·0	..	8·3	0	0	28	1	2	5	6	3	5	2	4	3	0
	1730	,,	1009·7	976·1	..	27·3	17·0	7·6	10·4	33	..	2·5	..	15·3	0	6	25	4	4	2	3	0	1	9	8	0	0
Alwar	0830	271	1011·9	980·6	..	18·5	15·4	13·0	15·0	71	..	3·5	..	1·0	0	0	9	2	3	0	0	2	1	1	0	22	0
	1730	,,	1008·7	978·4	..	28·3	21·2	16·6	18·9	52	..	(a) 3·7	..	5·9	0	0	28	4	5	3	2	2	4	3	5	3	0
Sikar	0830	433	1011·3	962·0	..	20·6	16·5	13·3	15·3	66	..	3·4	..	3·2	0	0	28	2	4	10	6	0	2	2	1	3	0
	1730	,,	1008·4	960·5	..	27·9	21·2	16·8	19·3	56	..	3·6	..	2.7	0	0	24	1	1	4	2	2	3	10	1	7	0
Jaipur (Sanganer Aerodrome)	0230	390	1010·6	965·7	..	18·1	12·2	5·4	9·0	47	..	2·5	..	..	0	1	22	2	4	8	1	0	0	5	3	8	0
	0530	,,	1010·7	965·7	..	16·7	11·6	5·7	9·2	52	..	2·8	..	..	0	1	24	8	4	7	1	0	1	1	3	6	0

(a) Mean of 30 days. (R) Register not received.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—*Contd.*																											
Jaipur (Sanganer Aerodrome)—*contd.*	0830	390	1012·3	967·8	−0·5	20·7	13·6	5·7	9.2	41	+4	3·1	+1·4	..	0	4	19	2	3	9	3	1	0	2	3	0	0
	1130	„	1011·9	968·2	..	26·1	15·8	6·0	9·4	29	..	3·1	..	..	0	3	24	1	3	1	10	1	2	5	4	4	0
	1730	„	1008·0	964·8	..	28·2	15·9	2·9	7·5	23	..	3·5	..	..	0	3	28	2	1	1	1	2	3	12	9	0	0
	2330	„	1011·2	966·6	..	19·8	13·1	6.0	9·4	43	..	2·7	..	..	0	2	23	3	7	7	2	1	1	3	3	6	0
Dholpur	0830	176	1012·2	991·8	..	20·1	14·9	10.0	12·3	55	..	3·0	..	4.5	0	0	22	2	0	1	5	1	0	8	5	9	0
	1730	„	1008·0	988·2	..	29·6	17·9	8·5	11·1	28	..	3·5	..	6.0	0	1	27	10	4	0	2	1	1	4	6	3	0
Tonk	0830	272	1011·6	980·7	..	20·3	14·8	9·4	11·8	53	..	2·7	..	5·8	0	0	29	4	2	7	3	2	1	2	4	6	0
	1730	„	1007·4	977·1	..	29·6	18·7	9·8	12·1	31	..	3·0	..	4.0	0	1	30	2	0	1	1	2	10	3	12	0	0
Ajmer	0830	486	1012·8	957·6	−0·3	19.4	12.7	5·4	9·0	42	+6	3.0	+1·6	6·9	0	1	22	1	3	1	5	2	2	4	5	8	0
	1730	„	1008·3	954·8	..	27·6	14·9	0·5	6·8	20	..	5·0	..	11·6	0	4	27	0	4	1	0	1	8	11	6	0	0
Kotah	0530	257	1011·2	981·9	..	18·8	13·3	7·9	10·8	51	..	1·6	..	0·6	0	0	4	0	0	0	0	0	0	4	0	27	0
	0830	„	1012.8	983·6	+0·4	23·8	15·1	6·2	9·5	35	+1	1·3	+0·4	1·7	0	1	8	0	0	0	0	0	1	7	1	22	0
	1130	„	1012·3	983·6	..	29·1	17·7	7·7	10·8	27	..	1·7	..	0.6	0	0	5	0	0	1	1	0	0	1	2	26	0
	1730	„	1008.6	980·2	..	30·7	17·9	7·1	10·1	25	..	2·9	..	3·6	0	0	14	0	1	0	0	0	2	1	10	17	0
	2330	„	1011·3	982·0	..	22·9	15·7	9·0	13·8	42	..	1·4	..	2·5	0	1	12	3	0	1	2	2	2	3	0	18	0
Chambal	0830	351	1012·7	972·6	..	20·6	14·3	8·3	10·9	48	.	2.6	..	2·4	0	0	13	1	2	1	1	1	2	1	4	18	0
	1730	„	1008·0	969·3	..	30·5	18·6	8·7	11·0	28	..	2·9	..	9·2	0	1	30	4	0	0	1	2	3	7	14	0	0
Jhalawar	0830	321	1012·7	976·1	+0·1	21·5	13·9	6·1	9·4	37	+1	2·1	+0·9	1·2	0	0	12	0	1	2	1	0	0	3	5	19	0
	1730	„	1007·5	972·3	..	31·5	17·1	2·7	7.3	18	..	2·7	..	3.8	0	0	28	2	1	0	2	0	6	9	8	3	0
Udaipur	0230	582	1011·7	945·4	..	16·7	11·9	7·2	10·1	55	..	2·0	..	0·7	0	0	3	0	0	0	0	0	1	2	0	28	0
	0530	„	1012·0	945·4	..	15·3	11·3	7·4	10·3	61	..	2·3	..	1·2	0	0	7	0	0	0	0	0	1	5	1	24	0
	0830	„	1013·0	947·3	−0·3	19·9	13·3	7·6	10·4	47	0	2·6	+1·3	1·3	0	0	11	3	0	0	1	0	2	2	3	20	0
	1130	„	1011·7	947·7	..	27·2	15·4	4·6	8·5	25	..	2·9	..	5·1	0	0	25	1	5	5	1	2	3	8	0	6	0
	1730	„	1007·8	944·3	..	28·3	15·8	4·6	8·5	24	..	3·4	..	6·1	1	0	21	2	1	0	0	4	7	4	4	9	0
	2330	„	1012·2	946·5	..	19·1	12·8	7·1	10·1	47	..	1·9	..	1·9	0	0	8	1	0	0	2	0	1	4	0	23	0
Erinpura (Jawai Dam)	0830	295	1012·8	978·9	..	20·1	15·0	10·9	13·0	56	..	2·2	..	3·5	0	0	19	0	2	0	0	12	4	1	0	12	0
	1730	„	1008·6	976·0	..	30·0	19·1	10·9	13·1	33	..	2·8	..	5·6	1	0	21	4	1	0	0	2	9	2	4	9	0
Madhya Pradesh (West)																											
Gwalior (P.B.O.)	0230	207	1010·5	986·5	..	18·5	13·3	8·1	11·2	53	..	2·5	..	5·0	0	3	17	2	2	0	5	4	3	1	3	11	0
	0530	„	1010·7	986·6	..	16·9	12·6	7·9	11·1	59	..	2·3	..	3·0	0	0	20	1	1	1	3	4	3	2	5	11	0
	0830	„	1012·6	998·9	+0·5	21·8	14·7	7.6	10·9	43	+8	3·0	+1·7	5·7	0	0	24	2	1	3	5	2	4	1	6	7	0
	1130	„	1012·1	988·9	..	28·3	16·3	4·1	8·5	24	..	2·3	..	9·8	0	1	29	6	2	1	7	3	4	1	6	1	0
	1730	„	1008·3	985·2	..	29·6	16·4	2·7	7·9	21	..	3·2	..	9·3	0	2	28	8	3	0	1	2	1	3	12	1	0
	2330	„	1011·2	987·4	..	20·9	14·4	7·9	11·2	47	..	2·3	..	5·6	0	2	20	3	0	1	1	4	7	2	4	9	0
Sheopur kalan	0830	235	1012.7	985·7	..	21·4	14·3	7·4	10·7	43	..	2·5	..	4·1	0	0	20	1	3	2	2	4	3	3	2	11	0
	1730	„	1007·9	981·9	..	30·4	17·4	5·5	9·3	22	..	3·9	..	9·9	0	2	28	8	2	0	1	2	2	6	7	1	2
Guna	0530	478	1011·1	956·3	..	16·2	10·8	5·0	9·3	50	..	2·3	..	2·8	0	0	20	0	1	3	7	5	1	1	2	11	0
	0830	"	1012·3	958·4	−0·7	21·6	13·6	5·4	9·5	33	+1	2·4	+1.4	4·9	0	0	26	4	3	3	6	6	0	2	2	5	0
	1130	"	1011·1	958·7	..	28·4	15·3	3·5	8·0	21	..	2·7	..	6·2	0	0	29	2	3	3	5	8	0	2	6	2	0
	1730	"	1007·1	954·7	..	29·8	15·5	1·3	7·3	19	..	3·4	..	11·9	0	3	28	1	0	1	1	1	4	10	13	0	0
	2330	„	1011·1	957·0	..	20·5	12·7	5·2	9·1	39	..	2·7	..	4.0	0	0	20	4	2	3	5	0	2	3	1	11	0
Rajgarh	0830	382	1012·4	969·0	..	21·3	14·3	7·1	10·7	43	..	1·7	..	3·0	0	0	23	17	0	0	4	0	0	1	1	8	0
	1730	"	1008·0	965·5	..	30·8	17·9	5·5	10·2	25	..	3·1	..	6·6	0	0	27	16	0	1	0	1	0	5	4	4	0
Neemuch	0830	496	1013·4	967·3	−0·5	20·9	12·3	2·7	8·1	34	−3	2·5	+1·2	5·4	0	0	23	1	10	4	2	2	1	3	0	8	0
	1730	„	1008·3	954·0	..	29·3	15·3	1·3	8·2	18	..	3·5	..	10·1	0	2	27	3	5	0	0	0	8	9	4	2	0
Ratlam	0830	486	1012·6	957·3	..	20·6	15·7	12·8	15·0	61	..	2·4	..	7·2	0	0	24	2	6	5	1	1	3	6	0	7	0
	1730	„	1007·8	954·6	..	30·7	22·0	17·0	20·1	47	..	3·4	..	10·0	0	2	23	0	3	1	0	0	8	9	4	6	0
Alirajpur	0830	293	1013·3	979·9	..	21·7	15·0	8·3	11·7	46	..	2·3	..	3·4	0	0	17	0	0	3	0	0	4	5	1	14	0
	1730	"	1008·0	975.7	..	31·8	17·8	4·5	9·2	20	+1	2·5	+0·8	10·1	0	1	28	0	2	3	0	0	3	17	4	2	0
Indore	0530	567	1011·2	946·8	..	17·1	11·3	5·1	9.3	48	..	2·2	..	7·3	0	0	26	3	3	1	1	5	8	4	1	5	0
	0830	"	1012·6	949·0	−0·1	21·5	13·5	5·8	9·7	39	+7	2·3	+1·2	8·9	0	2	25	2	5	4	0	4	5	3	4	4	0
	1130	"	1011·3	949·2	..	28·3	16·3	6·0	9·8	26	..	2·1	..	13·1	0	8	20	3	5	3	1	4	3	5	3	3	1
	1730	"	1007·0	945·5	..	30·1	16·5	4·6	8·8	23	..	3·0	..	17·3	0	7	23	5	4	1	0	1	7	10	1	1	1
	2330	"	1011·2	947·6	..	21·2	13·1	5·2	9·1	38	..	1·9	..	10·8	0	2	26	3	5	2	0	3	5	5	5	3	0
Ujjain	0830	"	..	..	..	21·3	13·8	7·1	10.3	42	..	1·2	..	5·4	0	0	21	1	3	7	3	0	0	3	4	10	0
Bhopal (Bairagarh)	0230	523	1010·1	951·1	..	19·7	12·4	5·3	8·3	41	..	1·9	..	8·9	0	0	25	6	5	3	2	1	1	2	5	6	0
	0530	„	1010·9	951·5	..	18·1	11·8	5·4	9·4	46	..	1·9	..	7·6	0	1	23	6	7	0	1	5	1	1	3	7	0

Division and station	Hour of observation I.S.T	Station Elevation in metres	Mean pressure in millibars: At mean sea level, or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh East)—*Contd.*																											
Bhopal (Bairagarh)	0830	"	1012·5	953·8	0	22·3	13·6	5·7	9·5	37	+8	2·0	+0·9	9·5	0	1	26	3	6	1	7	4	2	2	2	4	0
	1130	"	1011·2	953·8	..	28·8	16·2	5·4	9·4	25	..	2.1	..	11·9	0	2	27	4	6	3	3	5	4	3	1	2	0
	1730	"	1007·2	950·2	..	30·2	16·2	3·2	8·2	21	..	3·2	..	14·9	0	5	25	5	2	0	2	2	4	8	7	1	0
	2330	"	1011·1	952·3	..	21·4	13·3	5·5	9·5	39	..	2·0	.	8·2	0	2	24	9	3	3	3	1	3	2	2	5	0
Khandwa	0830	318	1012·5	976·5	+0·4	23·6	15·8	8·7	11·7	41	+8	2·9	+2·0	3·6	0	0	29	3	4	1	2	0	11	4	4	2	0
	1730	"	1007·0	972·2	.	32·7	19·5	9·1	12·1	25	..	3·3	.	5·9	0	0	29	4	1	0	0	4	7	1	12	2	0
Hoshangabad	0830	302	1012·4	978·3	0	22·3	15·0	7·8	11·2	42	+8	2·8	+1·6	4·0	0	0	23	1	0	14	0	4	0	4	0	8	0
	1730	"	1007·2	974·1	..	31·6	18·1	5·9	9·9	23	..	4·2		4·1	0	0	23	1	0	4	2	5	3	5	3	8	0
Betul	0830	653	1012.6	939·9	..	22·3	14·4	7·7	10·8	41	..	2·3	..	3·7	0	0	22	2	3	2	5	3	2	3	2	9	0
	1730	"	1006·4	936·1	..	29·5	16·4	4.9	9·1	24	..	3·8	..	7·8	0	0	30	6	3	3	0	2	1	3	7	1	0
Chhindwara	0830	685	1012·3	936·3	..	22·3	15·2	9.2	12·0	47	..	2·5	..	4·1	0	0	22	1	5	4	2	0	3	3	4	9	0
	1730	"	1006·7	932·8	..	29·1	16·9	7·1	10·5	28	..	4·5		8·1	0	1	29	1	5	1	2	4	5	6	6	1	0
Seoni	0830	619	1011·9	943·5	+0·4	23·2	16·0	10·1	13·0	47	+10	3·1	+1·8	2·7	0	0	29	4	3	2	3	2	3	2	0	12	0
	1730	"	1006·7	939·9	..	28·2	17·8	8·7	12·8	32	..	3·2	..	3·5	0	0	27	3	2	1	8	1	8	1	3	4	0
Sagar	0830	551	1012·0	950·3	0	22·4	14·1	6·5	10·0	39	+8	2·1	+0·8	10·4	0	1	29	0	6	11	4	0	3	3	3	1	0
	1730	"	1006·9	946·9	..	29·6	16·2	4·3	8·7	22	..	3.3	.	5·3	0	1	30	0	1	2	0	0	1	18	9	0	0
Nowgong	0830	229	1012·7	986·4	+0·3	20·1	14·9	10·1	12·9	54	+8	2·6	+0·8	4·5	0	0	27	0	3	3	3	1	12	2	3	4	0
	1730	"	1007·9	982·6	..	31·0	18·3	7·1	10·7	25	..	3·0	..	4·6	0	0	29	1	6	0	3	0	5	1	13	2	0
Madhya Pradesh (East)																											
Satna	0530	317	1010·6	974·0	..	17·3	14·1	11·3	13·5	69	..	3·5	..	2·2	0	0	18	0	2	3	2	2	4	4	1	13	0
	0830	"	1012·5	976·3	+0·4	21·4	15·8	11·0	13·5	53	+13	2·6	+1·1	2·3	0	0	22	1	0	3	4	4	2	5	3	9	0
	1130	"	1011·5	975·8	..	28·0	17·3	7·8	11·2	31	..	2·6	..	7·7	0	1	30	2	3	7	5	0	4	5	5	0	0
	1730	"	1008·0	972·8	..	29·1	17·5	7·2	10·6	28	..	3·2	..	5·1	0	0	28	4	0	5	0	0	1	7	11	3	0
	2330	"	1010·8	974·6	..	21·0	15·4	10·6	13·1	54	..	3·0	..	3·0	0	1	20	3	0	5	2	2	5	2	2	10	0
Sidhi	0830	"	..	..	..	21·3	16·3	12·5	14·5	59	..	2·4	.	1.4	0	0	9	2	0	2	1	0	0	4	0	22	0
	1730	"	..	..	..	28·9	18·5	9·9	12·8	34	..	2·5	..	2·5	0	0	24	4	2	1	1	0	1	7	8	7	0
Umaria	0830	459	1012·3	960·6	..	22·5	15·7	10·5	13·0	49	+7	2·8	+1·0	2·8	0	0	16	0	3	4	5	1	2	1	0	15	0
	1730	"	1007·2	956·9	..	29·7	17·9	9·1	12·0	30	..	3·6	..	1·8	0	0	12	1	1	1	1	0	1	1	6	19	0
Jabalpur	0530	393	1010·9	965·7	..	17.0	14·1	11·5	13·7	71	..	2·6	..	4·2	0	0	27	0	3	0	17	5	1	1	0	4	0
	0830	"	1012·3	967·9	+0·3	22·5	16·0	10·3	13·0	49	+6	2·3	+1·1	3·8	0	0	26	1	1	2	13	7	1	1	0	5	0
	1130	"	1011·0	967·7	..	29·8	18·5	9·5	12·1	31	..	1.8	..	5·9	0	0	31	2	3	1	9	6	7	1	2	0	0
	1730	"	1006·9	963·9	..	30·9	18·9	9·0	12·1	28	..	3·2	..	5.4	0	0	27	4	5	0	1	2	5	4	6	4	0
	2330	"	1010·8	966·3	..	21·0	15·9	11·8	14·0	57	.	2·1	..	3·4(a)	0	0	20	1	6	4	4	3	1	0	1	10	0
Mandla	0830	443	1013.1	963·0	..	20·3	15·6	11·7	13·9	60	..	2·4	..	0·1	0	0	1	0	0	0	0	1	0	0	0	30	0
	1730	"	1007·0	958·6	..	29·8	18·0	7·6	11·1	29	..	2·9	..	3·7	0	0	16	6	0	0	1	3	0	1	5	15	0
Pendra	0530	625	1011·2	940·7	..	17·7	12·8	8·2	11·5	57	..	2·3	..	4·3	0	0	23	6	2	0	0	1	5	5	4	8	0
	0830	"	1012·8	943·0	0	21.3	14·8	9·3	12.3	50	+9	2.8	+1·4	5·4	0	2	23	9	2	0	0	4	7	1	2	6	0
	1130		1011·3	942·9	..	26·8	16·7	8·5	11·7	35	..	2.5	..	8.5	0	2	27	7	5	1	1	5	6	1	3	2	0
	1730	"	1007·6	939·5	..	27·6	16·8	7·8	11·2	34	..	4.0	..	6.4	0	0	31	11	3	1	0	5	4	5	2	0	0
	2330	"	1011·3	941·5	..	20.8	14·3	8·7	11.5	49	..	3·0	..	5.7	0	1	25	5	1	1	0	4	7	2	6	5	0
Ambikapur	0830	611	1012·8	944.5	..	21.1	15·2	10.6	13.0	53	..	1·8	..	4·5	0	0	25	6	4	2	1	5	7	0	0	6	0
	1730	"	1007·3	940·8	..	28·2	16·5	6·4	10.3	29	..	2·4	..	6.5	0	0	29	17	1	1	0	4	1	1	4	2	0
Champa	0830	245	1012·9	985·0	..	22·3	16·9	12·2	14.9	55	..	2·2	..	3.6	0	0	27	8	2	7	2	1	1	1	5	4	0
	1730	"	1007·6	980·8	..	31.4	19·4	9·9	12.9	30	..	2·8	..	6.2	0	0	27	11	0	2	1	0	1	6	6	4	0
Raigarh	0830	220	1012·3	987·3	..	23.9	17·5	12.2	14·8	52	..	2.4	..	5·3	0	0	28	0	18	7	3	0	0	0	0	3	0
	1730	"	1007·5	983·1	..	32·3	19·0	8.7	12.6	27	..	3.0	..	2·5	0	0	12	3	3	0	2	0	1	2	1	19	0
Raipur	0530	298	1010·5	976·4	..	20.4	16·0	12·3	14·6	62	..	2·4	..	4·0	0	0	18	4	4	2	2	1	1	1	3	13	0
	0830	"	1012·9	979·1	+0·9	24.0	17·3	11·9	14·4	50	+10	2.5	+1·2	4·8	0	0	25	7	2	3	2	3	2	4	2	6	0
	1130	"	1011·7	978·4	..	30.0	18·7	9·4	12·4	32	..	2·1	..	6.0	0	0	26	4	2	1	2	4	4	5	4	5	0
	1730	"	1007·6	974·8	..	31.7	18.7	7·9	11·0	26	..	3.5	..	6.1	0	0	22	4	2	1	0	2	1	7	5	9	0
	2330	"	1010·6	977·0	..	24.8	17·0	10.6	13·1	44	..	2.4	..	6·7	0	1	24	2	3	2	1	3	6	5	3	6	0
Kanker	0830	402	1012·3	967·4	+0·7	23.0	18.1	14·2	16·7	59	+6	2.4	+0·7	0·8	0	0	3	0	0	0	2	0	0	1	0	28	0
	1730	"	1007·2	963·4	..	31·2	20·2	12.4	14·7	33	..	2.9	..	1.3	0	0	10	2	2	0	0	0	2	0	4	21	0
Jagdalpur	0530	553	1010·8	948·6	..	19·1	16·3	14·4	16·4	75	..	2·4	..	0.6	0	0	5	0	0	3	0	0	1	0	1	26	0
	0830	"	1012·1	950·8	+0·1	24·2	18·4	14·7	17·0	56	—1	2·1	+0·8	2.4	0	0	12	0	4	1	2	4	1	0	0	19	0
	1130	"	1010·0	950·1	..	30·4	19·3	12·0	14·3	34	..	2.7	..	5·6	0	0	30	2	9	1	4	3	6	2	3	1	0
	1730	"	1006·2	946·8	..	30·7	19·1	11.3	13·5	32	..	3·7	..	5·3	0	0	27	2	8	3	1	1	7	1	4	4	0
	2330	"	1010·9	949·3	..	22·6	17·4	13·8	16·2	59	..	1·9	..	2·8	0	0	12	1	1	2	1	2	5	0	0	19	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujrat																											
D[illegible]	0830	1.6	1012.9	997.1	+0.5	20.7	14.8	8.7	11.2	51	..	2.4	..	2.8	0	0	19	3	8	2	1	1	1	2	1	12	0
	1730	,,	1009.0	993.8	..	31.4	17.8	5.1	8.8	22	..	1.9	..	5.0	0	0	29	3	1	1	1	3	4	10	6	2	0
Radhanpur	0830	30	1012.5	1009.1	..	21.5	17.1	14.0	16.0	63	..	1.9	..	4.5	0	0	31	6	0	3	0	1	4	13	4	0	0
	1730	,,	1008.6	1005.3	..	31.4	19.6	10.8	12.9	29	..	2.2	..	4.9	0	0	31	8	0	3	0	1	1	17	1	0	0
Idar	0830	219	1012.4	987.3	..	22.9	15.5	8.4	11.0	44	..	2.7	..	6.1	0	1	20	2	4	7	2	0	0	3	3	10	0
	1730	,,	1008.4	984.1	..	31.0	13.0	6.2	9.5	23	..	2.7	..	6.0	0	0	30	1	1	1	1	2	6	15	3	1	0
Ahmedabad	0230	55	1010.6	1004.2	..	21.5	14.9	8.4	11.6	46	..	1.9	.	10.8	0	0	31	3	2	1	0	0	1	7	17	0	0
	0530	,,	1010.7	1004.2	..	19.3	14.4	9.7	12.5	57	..	1.5	..	10.5	0	1	28	3	3	2	0	0	0	4	17	2	0
	0830	,,	1012.7	1006.3	+0.1	21.5	16.0	10.8	13.7	54	+7	2.1	+1.0	12.0	0	5	24	3	1	3	0	2	0	2	18	2	0
	1130	,,	1013.0	10 6.8	..	28.8	18.0	8.2	11.8	32	..	2.3	..	16.3	0	7	24	6	2	4	2	1	0	4	12	0	0
	1730	,,	1008.9	1 02.8	..	32.5	17.9	4.3	8.8	18	..	2.3	..	16.1	0	7	23	3	1	2	0	0	4	6	14	1	0
	2330	,,	1011.2	1004.9	..	23.5	15.2	7.1	10.5	38	..	1.7	..	9.7	0	1	29	6	1	1	0	1	3	5	13	1	0
Dehad	0830	333	1012.5	974.7	..	22.1	14.6	8.0	10.7	40	−4	1.7	+0.5	9.5	0	0	29	1	3	4	0	4	3	8	6	2	0
	1730	,,	1007.7	971.2	..	31.5	17.5	5.1	8.8	19	..	2.0	..	13.5	0	4	26	2	5	1	1	2	4	12	3	1	0
Baroda	0530	34	1010.7	1006.6	..	19.0	15.0	11.2	12.3	63	..	1.5	..	2.1	0	0	16	0	4	0	1	3	0	4	4	15	0
	0830	,,	1013.1	1009.0	..	21.6	16.3	11.6	13.7	56	+9	1.9	+1.0	2.6	0	0	24	2	7	2	1	5	2	2	3	7	0
	1130	,,	1013.3	1009.3	..	29.9	19.4	10.7	12.9	34	..	2.0	..	4.7	0	0	28	3	8	2	2	1	5	2	5	3	0
	1730	,,	1008.9	1005.0	..	33.3	19.9	9.5	11.9	24	..	2.2	.	4.6	0	0	27	3	3	0	0	0	3	7	11	4	0
	2330	,,	1011.3	1007.2	.	22.9	16.8	11.8	13.8	51	..	1.6	.	3.0	0	0	27	1	4	1	0	1	6	2	7	9	0
Baroda (Aerodrome)	0830	38	1013.0	1008.6		22.3	17.5	13.0	15.0	61	..	1.9	..	7.5	0	0	28	8	2	1	1	4	5	4	3	3	0
	1130	,,	1013.0	1008.8		29.5	20.3	12.3	14.3	41	..	2.1	..	10.0	0	3	26	3	1	3	1	4	7	3	7	2	0
	1730	,,	1008.7	1004.5		32.7	20.8	11.1	13.2	32	..	2.5		8.6	0	2	28	3	2	0	0	0	7	8	10	1	0
Broach	0830	17	1012.4	1010.3	..	20.7	16.5	13.0	15.0	64	..	1.9		5.3	0	0	31	2	5	1	6	2	11	1	3	0	0
	1730	,,	1008.4	1006.5		23.6	19.6	8.2	10.9	23	..	2.2		8.8	0	0	31	2	3	0	4	2	12	3	5	0	0
Surat	0530	12	1010.7	1009.3		20.8	17.1	14.0	16.0	63	..	1.1		7.0	0	0	27	7	4	0	6	3	1	0	6	4	0
	0830		1013.0	1011.6	+0.7	22.3	17.9	14.5	16.5	64	+4	1.5	+0.8	7.1	0	0	28	9	5	2	5	2	1	3	1	3	0
	1130	,,	1013.0	1011.6	.	29.3	19.8	12.9	14.9	39	..	1.8	.	9.0	0	0	27	5	4	2	3	1	0	3	9	4	0
	1730	,,	1009.1	1007.8		30.8	20.5	13.1	15.1	37	..	1.7	.	7.7	0	0	30	4	0	0	0	2	7	3	14	1	0
	2330	,,	1011.5	1010.1		23.9	19.0	16.7	19.0	67	..	1.3	..	7.2	0	1	26	3	3	0	1	9	0	2	9	4	0
Saurashtra and Kutch																											
Naliya	0830	21	.	..		19.4	16.9	15.4	17.5	76	..	3.0	.	5.0	0	0	18	1	4	1	1	2	3	3	3	13	0
	1730	,,	..	..		27.6	19.9	11.8	13.8	42	..	2.6	..	22.0	0	18	13	2	1	0	0	2	8	16	2	0	0
[illegible]uj (Aerodrome)	0230	80	1011.2	1001.9		19.6	16.3	13.4	15.4	70	..	1.5	..	5.6	0	0	18	1	0	0	0	0	5	9	3	13	0
	0530	,,	1011.1	1001.5	..	17.7	15.7	13.2	15.2	77	..	1.6	..	3.7	0	0	15	2	0	0	0	0	4	6	3	16	0
	0830	,,	1013.0	1003.6	+0.5	20.7	17.0	13.7	15.7	68	+14	2.2	+1.0	6.2	0	1	22	5	1	1	1	2	5	4	4	8	0
	1130		1013.3	1004.2	.	28.0	17.6	8.2	10.9	32	..	2.3	..	16.4	0	9	22	9	2	2	2	2	1	4	9	0	0
	1730	,,	1009.6	1000.6		30.2	17.6	4.8	8.6	24	..	2.2	..	18.2	0	11	19	11	4	1	0	3	2	5	4	1	0
	2330	,,	1012.2	1002.9		21.1	16.4	12.3	14.3	60	..	1.4	..	7.2	0	0	22	2	1	0	0	0	6	11	2	9	0
Bhutakia Bhimasar	0830	4	1012.4	1007.0		21.2	18.4	16.4	18.6	76	..	3.2	..	14.5	0	8	23	3	3	1	0	3	2	10	9	0	0
	1730	,,	1009.5	1004.3	.	30.9	21.0	14.3	16.3	38	..	1.7	..	19.2	0	13	18	8	1	1	0	1	1	10	9	0	0
Kandla	0830	14	1013.5	1011.8		21.2	17.7	15.0	17.0	70	..	3.3	..	10.3	0	2	28	2	3	0	1	0	6	9	9	1	0
	1730	,,	1010.3	1008.7		25.9	19.9	13.0	15.0	42	..	2.2	..	21.5	0	12	19	5	1	0	0	4	15	4	2	0	0
Mandvi	0830	9	1013.1	1012.0	.	21.1	18.3	16.3	18.5	76	.	3.3	..	12.5	0	1	30	5	6	0	0	0	0	1	15	0	4
	1730	,,	1010.7	1009.6		25.9	21.8	20.2	23.7	69	..	3.0	.	31.3	0	24	7	0	2	1	1	0	22	2	1	0	2
D[illegible]	0830	11	1012.9	1011.7	0	23.2	19.9	17.7	20.2	72	−4	2.7	+0.9	14.0	0	3	26	6	1	3	1	0	1	7	10	2	0
	1730	,,	1010.8	1009.4		26.0	20.9	18.2	20.9	65	..	2.4	..	19.0	0	6	25	1	2	1	0	0	2	10	15	0	0
Porbander	0830	7	1013.1	1012.3	..	22.2	..	..	..	..	..	(5) 2.0	..	(5) 12.1	0	0	21	5	2	0	0	0	0	0	14	0	0
	1730		1010.7	1009.9	..	27.2	..	..	..	..	..	2.8	.	20.9	0	13	18	1	0	0	0	0	4	17	9	0	0
Porbander (Aerodrome)	0830	7	1013.0	1012.2		23.0	18.5	15.8	17.9	66	..	2.5	.	11.8	0	6	21	7	2	2	5	0	0	1	10	4	0
	1130	,,	1013.6	1012.8	..	28.3	19.7	14.4	16.4	46	..	2.2	..	20.3	0	14	17	8	0	3	0	1	4	8	7	0	0
	1730	,,	1010.2	1009.4		27.5	20.3	16.1	18.3	51	..	2.0	..	26.3	0	26	5	0	1	0	0	0	3	25	2	0	0
Jamnagar	0530	23	1011.0	1008.4		19.0	16.5	14.3	16.3	77	..	2.3	.	11.5	0	2	29	0	1	2	1	7	8	10	2	0	0
	0830	,,	1012.9	1010.3	+0.2	21.7	18.1	15.1	17.1	71	0	3.0	+1.9	12.9	0	5	24	2	1	3	1	3	8	7	4	2	0
	1130		1013.7	1011.1	..	27.6	19.4	13.4	15.4	46	..	2.4	..	22.0	0	16	15	4	2	3	0	0	0	15	7	0	0
	1730	,,	1010.1	1007.6	..	28.1	19.5	12.9	14.9	43	..	2.0	..	27.4	0	23	8	3	3	1	0	0	0	18	6	0	0
	2330		1012.3	1009.7	..	21.8	19.0	17.2	19.6	76	..	1.4	..	16.0	0	7	24	0	2	1	0	3	2	19	4	0	0
Rajkot (Aerodrome)	0830	138	1013.1	997.2	+0.5	21.1	17.1	13.3	15.3	66	+6	2.5	+0.7	10.1	0	4	22	2	1	4	1	0	4	7	7	5	0
	1130	,,	1013.3	997.7	..	27.7	18.0	9.3	11.7	36	..	1.8	..	15.2	0	9	22	7	3	3	0	0	1	6	10	0	1
	1730	,,	1009.1	993.7	..	31.3	17.5	3.7	8.0	20	..	1.7	..	18.2	0	11	20	5	3	0	1	0	1	9	11	0	1

(5) mean or 21 days.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch — *Contd*																											
Surendranagar	0830	74	1012.9	1004.3	..	22.3	18.7	15.3	17 4	69	..	2.0	..	11.3	0	3	20	2	3	0	1	0	0	6	18	1	0
	1730	"	1008.3	1000.6	..	32.3	19.4	9.7	12.0	25	..	2.2	..	(h) 10.5	0	1	22	4	0	2	2	0	1	6	12	1	0
Bhavnagar (h)	0830	17	1013·4	1011·3	+0·6	23·1	17·4	12 8	14 8	54	+7	1.8	+0·6	4·9	0	0	28	0	3	0	0	0	2	5	18	3	0
	1730	"	1009·1	1007·3	..	32.1	20·5	11·9	13 9	31	..	2·4	..	9·5	0	1	29	2	4	9	7	4	1	0	3	1	0
Bhavnagar (Aerodrome)	0830	11	1013·1	1011.9	..	23.0	17·4	13 0	15 0	55	..	1.5	..	13 2	0	2	27	8	3	0	0	0	3	4	11	2	0
	1130	"	1013·5	1012·3	..	28 5	19·1	12.2	14.2	38	..	1.7	..	15·4	0	5	26	8	8	9	0	0	1	2	3	0	0
	1730	"	1009·1	1007.9	..	31 6	19.6	10 4	12·7	29	..	1 8	..	20.3	0	11	20	1	9	9	8	3	0	1	0	0	0
Mahuva	0830	9	1012·7	1011.7	..	22 1	18·1	15·2	17 3	66	..	0·1	..	..	..	..	..	11	5	4	0	1	1	3	6	0	0
	1730	"	1009 6	1008·6	..	29·3	22·4	18·7	21·6	55	..	0·1	..	..	..	..	..	3	2	4	4	10	7	1	0	0	0
Keshod	0830	51	1013·3	1007·3	..	21·0	16·9	13 3	15 3	65	..	1 9	..	8·7	0	2	24	6	6	8	1	1	0	1	2	5	1
	1130	"	1013 7	1007·9	..	28·3	18 4	10 2	12.4	36	..	1·7	..	16 9	0	8	22	9	3	1	0	0	3	4	8	1	2
	1730	"	1009 8	1004·1	..	30·7	19·5	10.4	12.6	32	..	1·5	..	30·1	0	26	5	1	0	1	0	1	4	19	5	0	0
Veraval	0230	8	1010 9	1010·0	..	20.0	18 0	16 6	19 0	81	..	1·3	..	9·6	0	0	27	23	1	0	0	0	0	0	3	4	0
	0530	"	1010 8	1009·9	..	19·3	17 2	15 6	17·9	80	..	1·4	..	10·0	0	0	30	25	3	1	0	0	0	0	1	1	0
	0830	"	1012 9	1012·0	+0·2	21·5	18 6	16 6	19 0	75	+12	2·1	+1.0	9 4	0	3	21	17	6	0	0	0	0	0	1	7	0
	1130	"	1012·6	1012·7	..	28·2	21 6	17·2	20 3	56	..	1 8	..	15 9	0	7	24	8	3	0	0	1	3	8	8	0	0
	1730	"	1010 2	1009·3	..	26 2	23·2	21·7	25 9	77	..	2·0	..	22·2	0	19	12	0	0	0	0	1	3	11	16	0	0
	2330	"	1012·1	1011·2	..	22 3	20·1	18·7	21.7	81	..	1·8	..	9·2	0	2	25	16	0	0	0	0	0	0	11	4	0
Konkan																											
Dahanu	0630	5	1012 5	1012·0	+0·7	24·2	19 9	16 7	19·0	66	−7	3·2	+1.1	9·1	0	2	26	6	4	11	6	0	0	0	1	3	0
	1730		1009·3	1003 8	..	27 5	22 8	20 3	23·8	65	..	2·5	..	21·7	0	12	19	9	1	0	0	0	1	9	11	0	0
Bombay (Colaba)	0830	11	1012·2	1011 0	−0·1	25·3	21·5	19 2	22·6	70	−3	1·6	+0·3	6 0	0	0	28	13	4	3	4	1	0	0	3	3	0
	1130	"	1012·5	1011 3	..	29·8	22 5	18·3	21·2	52	..	1·0	..	7·5	0	1	27	6	0	2	2	0	1	3	14	3	0
	1730	"	1009 0	1007·8	..	28.5	23·2	20·4	24·2	62	..	1·4	..	14·9	0	8	23	3	0	0	0	0	0	2	26	0	0
Bombay (Santacruz Aerodrome)	0230	15	1010 2	1008·5	..	22·6	19·7	17 8	20·4	75	..	1·4	..	3.3	0	0	16	8	5	1	0	0	0	0	2	15	0
	0530	"	1010·2	1018·5	..	22 1	19·1	17·1	19·5	75	..	1·2	..	3·3	0	0	15	6	6	3	0	0	0	0	0	16	0
	0830	"	1012 3	1010.7	0	25 5	20·3	16·8	19·1	61	−9	2.0	+0·7	6·1	0	0	25	11	5	6	0	0	0	0	3	6	0
	1130	"	1012·4	1010·7	..	30·5	21·3	15·1	17·1	42	..	1·4	..	10·8	0	1	28	4	1	1	1	0	0	7	15	2	0
	1730	"	1008 9	1007·3	..	28 7	21·7	17·8	20·4	53	..	2.0	..	16·3	0	9	22	7	0	0	0	0	0	1	23	0	0
	2330	"	1011·4	1009·7	..	23·9	20·0	17·6	20 1	69	..	1 2	..	3·2	0	0	15	9	2	0	0	0	0	0	4	16	0
Alibag	0830	7	1012·9	1012·1	+0·9	24·9	20 7	18·0	20·6	67	+2	2·0	+0 7	4·5	0	0	27	12	10	4	1	0	0	0	0	4	0
Harnai	0830	20	1011·3	1009.0	+0·4	25·4	21·4	18·8	21·7	69	+1	2·1	..	13·3	0	4	22	11	7	3	0	0	0	0	5	5	0
	1730	"	1008·4	1006·1	.	27 5	24·3	23·0	28·1	75	..	2·7	..	38·2	0	27	4	3	0	0	0	0	0	6	22	0	0
Ratnagiri	0830	35	1011·4	1007·4	−0·4	25·1	21·4	19·3	22·4	70	..	2.2	..	..	..	..	..	1	0	26	0	0	0	0	4	.	0
	1730	"	1008·6	1004·6	.	29 2	23 8	21 1	25 0	62	..	1.6	.	..	..	..	..	0	0	0	0	0	0	16	15	0	0
Devgad	0830	36	1011·4	1007 4	0	26·1	22 4	20·4	24·0	72	−5	2.6	+0·4	10·1	0	1	28	6	9	9	1	0	0	0	4	2	0
	1730	"	1008·3	1004 3	..	29 4	24·9	22 6	27·4	67	..	1.2	..	27 8	0	23	8	1	0	0	0	0	2	6	22	0	0
Vengurla	0230	9	1009 5	1008·5	..	23·8	21·7	20.6	24·3	83	..	0·7	..	0·9	0	0	6	3	0	0	0	0	0	0	3	25	0
	0530	"	1009 4	1009 4	..	22·6	21·1	20 3	23·8	87	..	0 8	..	1·9	0	0	13	12	1	0	0	0	0	0	0	18	0
	0830	"	1011·8	1010 8	..	25·3	22·2	20 5	24.[illegible]	75	..	1·6	..	3·5	0	0	23	11	6	2	2	1	1	0	0	8	0
	1130	"	1011.9	1010·9	..	31·3	23·8	19.7	22·[illegible]	52	..	1·4	..	7·1	0	0	30	5	1	1	0	1	16	5	1	1	0
	1730	"	1008·3	1007·3	..	30·1	24·5	21·7	2[illegible]	62	..	1·2	..	11·9	0	1	30	1	0	0	0	0	4	15	11	0	0
	2330	"	1010·9	1009·9	..	25·2	22·4	20 9	24·[illegible]	79	..	0 4	..	4·0	0	0	18	12	1	0	0	0	0	1	4	13	0
Maharashtra (Including Marathwada)																											
Nandurbar	0830	206	1013·1	989·6	..	23·7	17 2	11·7	13·[illegible]	51	..	0·3	..	5·8	0	0	30	1	0	7	0	0	12	10	0	1	0
	1730	"	1008·0	985·4	..	33·8	20 3	10 3	12 5	24	..	0·5	..	5·[illegible]	0	0	30	1	1	3	0	0	1	21	3	1	
Jalgaon	0530	201	1012·6	989·6	..	22·7	15·1	7·[illegible]	10·5	41	..	1·5	..	10·5	0	4	25	0	2	5	2	2	6	11	1	2	0
	1730	"	1007·0	984·9	..	34·9	18·5	3·5	7 9	15	..	1·8	..	17·0	0	11	18	2	2	5	0	2	5	8	5	2	0
Malegaon	0830	437	1012·7	963·4	+0·2	22·4	14·4	6·5	9·7	38	−2	1 9	+0·8	2 9	0	0	23	4	0	1	0	1	0	10	7	8	0
	1730	"	1006·1	958·9	..	33·3	13·1	3·3	7·7	15	..	2·4	..	8·2	0	2	28	9	2	1	1	2	2	7	6	1	0
Deolali	0830	571	1013·3	949·3	..	22·1	16·6	12·7	14 7	57	..	2·1	..	3·8	0	0	18	3	1	1	3	3	4	2	1	13	0
	1730	"	1007·1	945·6	..	32 3	19·5	10·[illegible]	12·9	28	..	2·7	..	13·1	0	4	25	2	0	1	1	0	5	8	12	2	0
Aurangabad	0830	581	1012·3	947·9	0	24 6	15·5	8·2	10 9	36	+4	1·2	+0·1	6·2	0	0	23	4	5	9	0	2	0	3	0	8	0
	1730	"	1006·0	943·7	..	32·8	17·7	6·3	9·5	20	..	2·9	..	6·8	0	0	29	5	1	4	1	0	3	9	6	2	0
Aurangabad Chikalthana (Aerodrome)	0230	530	1009 9	945·2	..	21·3	14·0	7·8	10·6	43	..	1·8	..	6·5	0	1	18	4	2	2	1	0	0	4	6	12	0
	0530		1010·7	945.4	..	19·0	13·0	7 6	10·4	49	..	1·4	..	5·8	0	1	15	1	1	1	2	0	0	7	4	15	0
	0830	"	1011·7	947·5	..	24·6	15·9	9·1	11·5	39	..	1·3	..	6·3	0	0	20	5	2	4	2	0	0	3	4	11	0
	1130	"	1010·4	947·5	..	30·4	18·6	10·4	12 6	30	..	1·4	..	12·3	0	7	23	1	4	3	10	1	1	5	5	1	0

(h) Mean of 23 days

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Varable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Maharashtra (including Marathwada) —*contd*																											
Aurangabad (contd.)	1730	"	1005.5	943.1	..	32.7	18.7	8.6	11.2	24	..	3.1	..	11.9	0	5	22	4	1	3	3	0	3	5	8	4	0
	2330	"	1010.3	946.0	..	24.0	15.0	7.4	10.3	37	..	1.9	..	9.2	0	1	20	10	1	3	0	0	0	4	3	10	0
Ahmednagar	0830	657	1012.3	939.3	0	22.8	14.3	7.4	10.3	41	+11	1.2	+0.4	3.2	0	0	19	4	3	0	1	1	0	0	10	12	0
	1730	"	1005.0	935.1	..	33.6	17.6	4.5	8.4	16	..	2.6	..	4.1	0	0	19	2	4	0	1	0	1	6	5	12	0
Parbhani	0830	423	1012.6	965.1	..	24.2	15.9	7.9	10.7	3	..	1.9	..	8.3	0	0	29	2	5	3	3	0	3	9	4	2	0
	1730	"	1006.0	960.4	..	34.0	19.3	6.2	9.5	2	..	3.1	..	10.5	0	2	29	3	2	5	4	2	2	7	6	9	0
Nanded	0830	358	1012.2	971.8	..	23.9	17.5	12.2	14.8	5	..	1.0	..	3.5	0	0	21	3	2	3	4	2	0	5	2	10	0
	1730	"	1006.7	968.1	..	33.5	20.2	9.7	12.7	27	..	1.4	..	6.2	0	0	29	4	1	3	4	5	2	7	3	2	0
Poona	0530	559	1010.7	947.5	..	18.4	14.6	11.8	13.7	67	..	0.9	..	0.5	0	0	3	0	0	0	0	0	1	1	1	28	0
	0830	"	1012.1	949.6	−0.2	22.5	16.3	11.8	14.1	52	−2	1.0	+0.2	1.1	0	0	7	0	1	0	2	0	1	1	1	24	0
	1130	"	1010.1	949.4	..	30.7	18.0	8.4	11.3	26	..	0.6	..	5.5	0	0	24	6	5	1	2	2	1	4	4	7	0
	1730	"	1005.3	945.3	..	33.2	19.1	9.2	11.7	24	..	2.6	..	9.6	0	0	28	4	1	0	0	1	2	5	15	3	0
	2330	"	1010.7	948.5	..	23.5	17.1	12.6	14.9	52	..	1.3	..	1.2	0	0	5	0	0	0	0	0	1	2	2	26	0
Poona (Lohagaon Aerodrome)	0230	593	1010.8	944.1	..	20.1	14.6	10.0	12.3	55	..	0.8	..	3.0	0	0	14	0	0	0	0	0	0	7	7	17	0
	0530	"	1010.9	944.0	..	18.9	13.9	9.5	11.9	58	..	1.0	..	3.1	0	0	14	0	0	0	0	0	0	6	8	17	0
	0830	"	1012.8	946.1	..	22.6	15.7	10.0	12.3	49	..	1.2	..	5.2	0	0	20	2	0	1	2	1	0	10	4	11	0
	1130	"	1010.3	945.9	..	30.3	17.2	2.4	7.3	24	..	1.0	..	11.3	0	3	25	2	3	7	7	0	1	1	7	3	0
	1730	"	1005.7	941.9	..	32.3	17.3	5.9	4.3	29	..	2.2	..	20.5	0	18	12	0	0	0	1	0	0	11	18	1	0
	2330	"	1011.0	945.0	..	23.1	16.3	10.5	12.7	50	..	0.6	..	8.6	0	6	31	0	0	0	0	0	0	13	18	0	0
Baramati	0830	551	1012.1	950.7	..	22.8	16.0	10.7	12.9	49	..	1.3	..	6.3	0	0	30	6	4	2	1	0	1	5	11	1	0
	1730	"	1004.7	945.9	..	34.4	19.9	10.1	12.3	24	..	2.6	..	11.8	0	3	28	4	1	5	1	5	4	5	6	0	0
Jeur	0830	521	1011.5	953.6	..	24.8	16.0	8.7	11.2	39	..	1.2	..	7.0	0	0	25	6	5	1	3	0	1	2	7	6	0
	1730	"	1004.6	948.8	..	34.7	19.0	7.4	10.3	20	..	3.0	..	9.7	0	1	27	3	1	0	1	3	5	7	8	3	0
Solapur	0536	479	1010.0	956.3	..	22.5	15.8	11.2	13.3	50	..	1.3	..	3.3	0	0	21	5	2	1	8	1	1	1	2	10	0
	0830	"	1011.6	958.5	+0.3	25.9	18.4	12.7	14.7	45	+10	1.3	+0.3	9.2	0	0	30	0	11	0	12	0	2	0	5	1	0
	1130	"	1010.0	958.0	..	32.6	20.3	12.6	14.6	31	..	1.6	..	9.2	0	2	29	3	6	3	10	5	2	1	1	0	0
	1730	"	1004.8	953.5	..	35.5	20.5	10.9	13.0	23	..	3.2	..	3.4	0	0	14	0	2	2	4	0	2	1	3	17	0
	2330	"	1009.1	956.5	..	27.7	17.3	9.6	11.9	33	..	1.5	..	5.7	0	0	27	6	3	4	11	0	1	0	2	4	0
Miraj	0830	554	1011.4	949.8	−0.5	23.3	..	..	..	..	..	1.9	+0.9	..	..	..	..	0	1	4	1	0	0	1	0	24	0
	1730	"	1004.4	945.4	..	34.5	..	..	..	..	..	3.4	..	..	..	..	..	1	3	7	2	0	1	7	2	8	0
Kolhapur	0530	570	1010.0	946.0	..	19.7	16.1	13.5	15.5	70	..	0.8	..	4.6	0	0	26	1	2	4	1	1	6	9	2	5	0
	0830	"	1011.4	948.2	−0.3	24.0	17.4	12.8	14.8	49	−7	1.4	+0.5	5.8	0	1	21	2	6	4	0	1	4	2	3	9	0
	1130	"	1009.5	948.0	..	31.7	18.6	9.3	11.7	26	..	1.6	..	11.2	0	4	27	2	10	9	2	1	1	1	5	0	0
	1730	"	1004.9	944.0	..	33.2	19.9	10.8	12.9	28	..	2.6	..	15.	0	8	21	0	2	0	1	0	3	17	6	2	0
	2330	"	1010.2	947.1	..	23.6	18.4	15.0	17.0	61	..	1.3	..	8.4	0	1	29	0	0	0	0	1	5	21	3	1	0
Vidarbha																											
Buldhana	0830	650	1011.3	937.5	..	23.3	16.6	11.3	14.0	51	..	1.4	..	3.3	0	0	21	0	15	0	3	0	0	0	3	10	0
	1730	"	1006.1	936.1	..	31.6	19.5	11.0	14.0	34	..	2.7	..	3.0	0	0	24	0	16	0	1	0	3	0	4	7	0
Akola	0830	282	1012.4	980.4	+0.4	23.4	16.1	9.8	12.4	45	+13	1.7	+0.4	1.7	0	0	17	0	0	12	0	0	0	4	1	14	0
	1130	"	1011.1	979.8	..	30.7	19.2	9.9	13.0	30	..	1.7	..	3.3	0	0	20	5	3	6	2	2	0	0	2	11	0
	1730	"	1006.1	975.5	..	34.3	19.9	9.2	11.5	23	..	3.1	..	2.7	0	0	22	2	0	2	3	1	0	9	5	9	0
Akola (Aerodrome)	0530	309	1009.6	974.2	..	20.0	13.6	6.9	10.4	46	..	1.7	..	2.7	0	0	17	1	5	2	2	0	0	7	0	14	0
	2330	"	1009.5	974.8	..	25.3	15.9	6.8	10.5	35	..	1.8	..	3.6	0	0	22	1	5	3	6	0	2	3	2	9	0
Amravati	0830	370	1012.3	970.8	+0.6	24.5	17.7	12.0	14.7	50	+18	2.2	+1.0	11.5	0	3	25	3	9	2	4	1	4	4	1	3	0
	1730	"	1006.1	966.1	..	33.2	21.3	13.1	15.6	32	..	3.0	..	11.8	0	1	30	0	8	2	2	1	11	1	6	0	0
Yeotmal	0830	451	1011.6	961.2	..	24.5	17.1	10.3	13.5	46	..	2.9	..	4.1	0	0	24	3	2	5	5	2	1	5	1	7	0
	1730	"	1005.8	956.9	..	32.3	19.0	7.2	11.2	24	..	2.8	..	3.2	0	0	23	6	2	4	1	2	0	3	5	8	0
Nagpur	0230	310	1009.6	974.2	..	20.5	15.7	11.6	14.3	59	..	2.2	..	3.1	0	0	20	5	3	1	0	0	1	1	9	11	0
	0530	"	1010.4	974.8	..	18.9	15.0	11.6	13.9	64	..	1.9	..	2.3	0	0	15	8	2	1	0	0	0	1	3	16	0
	0830	"	1012.5	977.4	+0.6	23.6	17.0	11.5	14.1	50	+12	2.5	+1.1	3.5	0	0	26	3	8	5	4	1	2	1	2	5	0
	1130	"	1011.4	977.1	..	30.4	19.4	10.7	13.8	33	..	2.2	..	6.5	0	2	24	1	2	5	4	5	1	5	3	5	0
	1730	"	1007.1	973.0	..	31.7	19.2	9.0	12.1	28	..	3.4	..	6.8	0	1	21	2	2	2	5	2	1	2	6	9	0
	2330	"	1010.5	975.3	..	22.4	16.6	11.8	14.3	54	..	1.8	..	2.7	0	0	19	4	5	2	2	1	1	1	3	12	0
Gondia	0830	313	1012.6	977.1	..	23.5	17.2	12.5	14.6	53	..	2.4	..	3.1	0	0	26	2	3	1	6	3	3	0	3	5	5
	1730	"	1007.3	973.2	..	31.2	18.8	8.7	11.7	26	..	3.5	..	5.0	0	0	30	2	6	0	0	2	6	1	8	1	5
Brahmapuri	0830	229	1012.8	986.6	..	23.2	17.4	14.5	15.3	59	..	2.2	..	4.8	0	0	23	1	3	5	3	6	1	2	2	8	0
	1730	"	1007.5	982.6	..	32.7	19.6	9.5	12.1	26	..	2.5	..	2.0	0	0	14	3	1	2	2	4	1	1	0	17	0

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—*contd.*																											
Chanda	0830	193	1012·1	990·2	+0·2	24·5	19·2	15·5	18·0	59	+17	3·0	+1·8	5·1	0	0	29	1	0	8	8	6	3	2	1	2	0
	1730	"	1006·9	985·5	..	32·5	20·4	11·6	14·2	30	..	2·4	..	6·1	0	0	27	6	2	6	5	4	0	0	4	4	0
Sironcha	0830	123	1012·8	998·9	..	25·5	20·9	18·2	21·1	65	..	2·4	..	4·4	0	0	27	3	1	5	12	4	0	1	1	4	0
	1730	"	1007·1	993·5	..	34·9	21·5	12·8	14·7	28	..	2·0	..	5·8	0	0	28	5	3	5	5	2	1	3	4	2	0
Coastal Andhra Pradesh																											
Nellore	0530	20	1009·6	1007·3	..	23·7	22·2	21·5	25·6	87	..	1·8	..	2·0	0	0	14	0	0	2	10	2	0	0	0	17	0
	0830	"	1012·3	1010·0	+0·3	27·1	23·4	21·6	25·8	73	−5	2·7	+0·6	4·3	0	0	30	0	1	2	20	7	0	0	0	1	0
	1130	"	1011·7	1009·5	..	31·8	23·9	19·8	23·1	49	..	2·5	..	6·3	0	0	31	0	0	9	18	4	0	0	0	0	0
	1730	"	1008·5	1006·3	..	29·8	24·0	21·1	25·0	60	..	2·5	..	8·9	0	0	31	0	0	10	19	2	0	0	0	0	0
	2330	"	1011·2	1008·9	..	25·3	23·1	22·0	26·4	83	..	1·5	..	1·5	0	0	10	0	0	2	6	2	0	0	0	21	0
Ongole	0830	12	1012·0	1010·7	..	27·1	24·9	23·8	29·5	82	..	5·1	..	3·3	0	0	26	0	2	0	19	0	5	0	0	5	0
	1730	"	1008·3	1007·0	..	29·2	25·7	24·1	30·0	74	..	3·4	..	8·1	0	1	30	0	1	0	30	0	0	0	0	0	0
Rentachintala	0830	106	1012·3	1000·3	..	27·4	22·3	19·7	22·9	64	+2	3·5	+0·4	3·3	0	0	20	0	0	5	3	9	2	1	0	11	0
	1730	"	1007·1	995·4	..	34·7	22·3	14·7	16·7	33	..	3·3	..	5·5	0	0	31	7	0	13	6	3	0	1	1	0	0
Gannavaram	0230	24	1010·3	1007·5	..	23·9	22·4	21·5	25·6	87	..	2·2	..	4·1	0	1	18	0	0	10	8	0	0	1	0	12	0
	0530	"	1010·5	1007·8	..	23·4	22·3	21·7	25·9	90	..	2·9	..	5·2	0	1	20	0	0	11	8	2	0	0	0	10	0
	0830	"	1012·9	1010·1	..	26·6	23·7	20·3	26·9	77	..	4·2	..	8·4	0	2	26	0	0	9	14	3	1	0	1	3	0
	1130	"	1012·3	1009·6	..	31·2	24·2	20·8	24·5	54	..	3·9	..	6·6	0	3	28	0	0	2	18	9	2	0	0	0	0
	1730	"	1008·7	1006·0	..	31·6	24·0	20·1	23·5	52	..	3·0	..	16·6	0	15	15	0	0	1	20	9	0	0	0	1	0
	2330	"	1011·7	1009·0	..	25·0	22·7	21·5	25·6	81	..	1·5	..	5·0	0	1	20	0	2	3	10	4	2	0	0	10	0
Masulipatam	0830	3	1012·7	1012·4	+0·3	27·5	24·2	22·7	27·6	75	−1	3·2	+0·9	4·4	0	0	26	1	0	3	5	15	0	2	0	5	0
	1730	"	1008·9	1008·6	..	28·2	24·1	22·1	26·6	70	..	2·1	..	10·3	0	0	31	0	0	0	7	24	0	0	0	0	0
Nidadavolu	0830	12	1012·7	1011·3	..	26·1	23·6	22·4	27·1	81	..	3·8	..	6·8	0	0	28	5	8	9	2	1	0	1	2	3	0
	1730	"	1008·9	1007·5	..	29·7	23·9	20·9	24·7	60	..	3·4	..	12·7	0	2	29	0	2	2	8	16	3	0	0	0	0
Kakinada	0830	8	1013·4	1012·4	+0·6	28·3	23·9	21·8	26·1	63	−6	2·9	+0·2	10·1	0	0	31	0	6	9	7	0	9	0	0	0	0
	1730	"	1009·6	1008·7	..	28·6	23·8	21·4	25·5	66	..	2·1	..	11·9	0	0	31	1	0	4	25	0	1	0	0	0	0
Visakhapatnam	0230	3	1010·5	1010·1	..	23·8	22·5	21·8	26·1	89	..	1·2	..	2·0	0	0	13	1	0	0	0	1	4	2	3	18	2
	0530	"	1010·9	1010·5	..	22·9	21·8	21·2	25·2	91	..	1·9	..	1·6	0	0	12	0	0	1	0	0	4	3	3	19	1
	0830	"	1013·0	1012·6	+0·5	27·4	23·6	21·8	26·1	72	−1	2·1	−0·2	7·5	0	2	27	0	0	1	2	3	14	3	3	2	3
	1130	"	1012·3	1011·9	..	31·6	24·6	21·2	25·2	55	..	2·0	..	15·0	0	11	20	0	0	5	3	10	12	1	0	0	0
	1730	"	1009·6	1009·2	..	28·1	24·1	22·1	26·6	73	..	3·0	..	14·5	0	7	21	0	0	1	2	9	17	2	0	0	0
	2330	"	1011·9	1011·5	..	24·9	23·0	22·0	26·4	84	..	1·7	..	1·7	0	0	13	1	0	1	0	0	6	1	2	18	2
Calingapatnam	0830	6	1012·9	1012·2	+0·5	25·3	24·0	23·3	28·6	86	+11	1·6	−0·1	3·1	0	0	31	3	1	0	1	0	8	10	8	0	0
	1730	"	1010·8	1009·8	..	27·9	26·1	25·2	32·1	85	..	2·1	..	11·5	0	0	31	1	0	6	5	15	3	1	0	0	0
Telangana																											
Ramagundam	0830	156	1012·0	994·8	..	25·8	20·6	16·7	19·0	60	..	2·7	..	5·7	0	0	29	6	2	2	11	3	3	1	1	2	0
	1730	"	1006·6	989·7	..	34·8	21·0	11·1	13·2	25	..	3·6	..	6·7	0	1	28	10	3	4	4	4	3	0	1	2	0
Nizamabad	0830	381	1011·6	969·2	0	27·4	19·6	14·5	16·5	45	+1	1·8	+0·6	1·2	0	0	10	0	0	4	2	0	1	3	0	21	0
	1730	"	1006·6	965·5	..	33·3	20·4	11·5	13·6	27	..	2·6	..	0·5	0	0	4	0	0	2	0	1	1	0	0	27	0
Mahbubnagar*	0830	505	1011·2	955·4	..	26·5	19·2	14·4	16·4	50	..	2·3	..	7·6	0	0	31	2	3	10	8	2	4	1	1	0	0
	1730	"	1015·6	951·3	..	33·3	19·5	9·9	12·2	25	..	3·0	..	4·8	0	1	27	0	2	12	4	4	1	3	2	3	0
Hyderabad (Begumpet Aerodrome)	0230	545	1009·3	948·7	..	22·7	18·0	14·9	16·9	64	..	2·4	..	7·2	0	0	24	0	2	6	12	3	1	0	0	7	0
	0530	"	1010·1	949·1	..	21·1	17·9	15·8	17·9	73	..	3·1	..	5·3	0	0	21	1	3	5	10	0	0	0	2	10	0
	0830	"	1011·9	951·5	+0·5	24·3	19·1	15·7	17·8	61	+4	2·8	+1·4	8·1	0	1	26	0	0	3	13	5	2	2	2	4	0
	1130	"	1010·5	951·2	..	30·1	19·7	12·9	14·9	37	..	2·3	..	12·0	0	0	31	1	1	2	14	8	3	1	1	0	0
	1730	"	1006·3	947·5	..	31·2	19·4	11·1	13·2	33	..	3·9	..	12·3	0	4	26	3	3	5	14	3	1	0	1	1	0
	2330	"	1010·3	950·1	..	24·8	18·0	13·4	15·4	52	..	2·1	..	9·1	0	2	25	1	5	2	17	2	0	0	0	4	0
Hakimpet	0530	613	1010·1	941·8	..	21·3	18·0	15·9	18·1	74	..	2·9	..	9·4	0	1	29	0	0	8	18	1	0	2	1	1	0
	0830	"	1011·3	943·5	..	23·8	18·8	15·6	17·7	63	..	2·8	..	5·3	0	1	30	3	1	5	15	3	3	0	1	0	0
	1130	"	1010·2	943·7	..	29·3	19·7	13·3	15·3	40	..	2·2	..	11·1	0	4	27	1	4	3	8	10	3	2	0	0	0
	1730	"	1006·9	940·4	..	30·4	18·5	12·1	14·1	35	..	3·5	..	10·5	0	3	28	2	5	9	10	3	1	0	1	0	0
Hanamkonda	0830	269	1012·1	981·8	−0·1	25·1	21·7	19·8	23·1	73	+11	2·3	+0·3	5·3	0	0	27	0	0	0	14	13	0	0	0	4	0
	1730	"	1007·3	978·0	..	33·0	23·0	15·3	17·4	36	..	1·4	..	4·3	0	0	30	6	1	1	6	10	1	3	2	1	0
Bhadrachalam	0830	111	1012·9	1000·3	..	26·5	22·9	21·1	25·0	73	..	3·8	..	4·4	0	0	26	1	2	3	12	4	3	0	1	5	0
	1730	"	1007·3	995·0	..	34·0	22·6	15·8	17·9	36	..	2·7	..	4·2	0	0	31	5	4	2	17	1	0	1	1	0	0
Khammamett	0830	112	1012·6	999·9	..	26·0	23·2	21·8	26·1	78	..	5·0		7·0	0	0	31	0	1	6	16	7	1	0	0	0	0
	1730	"	1007·1	994·8	..	34·1	23·1	16·6	18·9	36	..	4·1	..	6·3	0	2	26	3	0	4	6	8	4	2	1	3	0

* Data collected from weather telegrams.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rayalaseema																											
Arogyavaram	0830	701	1011·8	934·6		23·5	20·3	18·6	21·4	74	..	2·5	..	2·1	0	0	17	0	0	0	7	9	1	0	0	14	0
	1730	,,	1005·4	930·6		31·5	22·7	18·1	20·8	46	..	2·8	..	5·7	0	0	31	2	7	12	5	2	0	0	3	0	0
Cuddapah	0830	130	1012·0	997·4	+0·5	29·4	24·9	22·8	27·7	69	+12	1·1	-0·1	2·5	0	0	9	0	0	9	0	0	0	0	0	22	0
	1730	,,	1006·5	992·2		35·5	27·6	24·6	30·9	55	..	1·3	.	8·6	0	0	26	0	0	25	0	0	0	0	1	5	0
Anantapur	0530	350	1009·1	969·[illegible]		24·1	18·5	14·4	16·4	56	..	2·2	..	3·2	0	0	10	0	0	4	2	0	2	2	0	21	0
	0830	,,	1011·0	972·1		27·3	19·8	14·7	16·7	47	..	1·8	..	5·8	0	0	24	0	1	5	5	6	4	3	0	7	0
	1130	,,	1009·8	971·7		32·9	20·5	11·5	13·6	29	..	1·5	..	8·2	0	0	25	1	1	6	7	3	2	2	3	6	0
	1730	,,	1004·9	967·2		35·5	20·0	7·5	10·4	19	..	3·0	..	8·8	0	1	28	1	2	17	3	0	0	3	4	2	0
	2330	,,	1008·8	970·2		29·2	19·1	11·3	13·7	35	..	2·5	..	14·7	0	3	28	0	1	22	6	0	1	0	1	0	0
Kurnool	0830	281	1011·4	980·0	-0·2	27·8	21·1	17·4	19·9	53	+4	2·4	+1·4	4·3	0	0	24	1	0	7	10	4	0	1	1	7	0
	1730	,,	1005·3	974·9		36·0	22·1	13·1	15·1	26	..	2·6	..	7·1	0	1	28	0	0	15	11	1	0	0	2	2	0
Madras State																											
Palayamcottai	0830	51	1012·0	1006·5		27·3	24·0	22·5	27·3	75	..	4·4	..	5·2	0	0	31	25	1	0	0	0	0	3	2	0	0
	1730	,,	1007·2	1001·5		31·2	24·8	21·9	26·3	58	..	4·3	..	10·1	0	2	29	0	1	16	11	1	0	0	0	0	0
Tuticorin	0830	4	1012·3	011·9		27·8	24·8	23·3	28·6	74	..	3·9	..	9·9	0	0	29	10	13	3	1	0	1	1	0	2	0
	1730	,,	1008·2	1007·8		28·9	25·8	24·3	30·4	77	.	2·7	..	24·9	0	24	7	0	2	16	11	2	0	0	0	0	0
Pamban	0830	11	1011·7	1010·4	0·2	27·9	24·3	22·5	27·3	73	−3	4·2	+1·6	8·5	0	0	31	1	6	8	12	3	0	0	1	0	0
	1730	,,	008·3	1007·6		29·1	24·6	22·5	27·3	69	..	2·5	..	8·7	0	0	31	5	13	5	4	3	0	0	1	0	0
Tondi	0830	5	1012·1	1011·5		27·4	23·9	22·2	26·7	73	..	4·3	..	9·1	0	0	22	6	4	5	4	1	0	0	2	9	0
	1730	,,	008·4	1007·8		28·8	25·0	23·2	28·4	72	..	4·2	..	19·3	0	12	19	0	7	18	5	1	0	0	0	0	0
Mathmai	0830	13	012·1	997·6	-0·2	26·8	23·3	21·5	25·6	73	+4	5·4	+2·0	3·6	0	0	30	1	21	0	3	0	1	0	4	1	0
	1730	,,	006·7	992·6		33·5	23·7	18·0	20·6	41	..	6·2	..	6·8	0	0	30	0	13	0	16	0	1	0	0	1	0
Mathmai (Aerodrome)	0530	131	010·1	997·1		23·5	22·1	21·3	25·3	88	..	3·0	..	0·6	0	0	5	4	1	0	0	0	0	0	0	26	0
	0830	,,	1012·[illegible]	997·3		27·1	23·3	21·6	25·8	72	..	3·1	..	4·9	0	0	24	5	14	3	1	0	0	1	0	7	0
	1130	,,	1011·5	996·9		31·1	23·6	19·6	22·8	51	..	3·7	..	8·4	0	0	31	2	19	6	1	3	0	0	0	0	0
	1730	,,	1006·9	992·4		33·2	22·3	16·7	19·0	39	..	3·6	..	10·8	0	0	30	0	1	26	2	1	0	0	0	1	0
Nagapattinam	0830	9	1012·5	1011·4	0·3	28·1	24·0	22·0	26·4	70	−5	3·5	0	10·9	0	1	29	2	8	7	7	1	0	1	4	1	0
	1730	,,	1009·0	1007·9		29·4	24·3	21·9	26·3	65	..	3·6	..	20·1	0	13	18	0	4	13	4	0	0	0	0	0	0
Tiruchirapalli	0230	88	1009·8	999·8		24·6	22·4	21·3	25·3	82	..	2·4	..	6·7	0	0	23	1	8	13	0	1	0	0	0	8	0
	0530	,,	1010·2	1000·1		23·7	22·1	21·3	25·3	86	..	2·5	..	4·0	0	0	17	2	6	8	1	0	0	0	0	14	0
	0830	,,	1012·3	1002·[illegible]	-0·5	26·8	23·2	21·4	25·5	73	−4	2·8	+0·5	5·1	0	0	23	2	11	7	0	2	0	0	1	8	0
	1130	,,	011·5	1001·7	..	30·9	23·1	19·0	22·0	49	..	3·0	..	7·3	0	0	26	1	11	9	2	2	0	1	0	5	0
	1730	,,	1007·3	997·5	..	32·9	22·9	17·1	19·5	43	..	2·8	..	15·9	0	3	28	0	7	19	3	2	0	0	0	0	0
	2330	,,	1011·4	1001·4	..	25·8	22·7	21·4	25·5	75	..	1·6	..	14·2	0	0	30	0	2	24	3	1	0	0	0	1	0
Coimbatore	0830	409	1012·2	966·6	+0·1	25·4	22·0	20·2	23·7	73	−2	4·3	+1·7	14·7	0	0	31	0	5	11	6	2	4	3	0	0	0
	1730	,,	1005·9	961·7	..	33·1	21·3	13·4	15·4	32	..	3·8	..	13·1	0	0	31	1	3	8	9	4	5	1	0	0	0
Coimbatore (Peelamedu Aerodrome)	0530	398	1010·4	965·5		22·5	20·3	19·0	22·0	81	..	2·9	..	6·0	0	0	24	4	11	5	0	4	0	0	0	7	0
	0830	,,	1012·2	967·3	..	25·0	21·5	19·7	22·9	73	..	3·8	..	10·5	0	0	29	0	21	4	0	3	0	0	0	2	0
	1130	,,	1011·0	967·2	..	29·9	22·0	17·4	19·9	48	..	4·0	..	10·0	0	0	31	1	12	14	4	0	0	0	0	0	0
	1730	,,	1005·9	962·8	..	33·2	20·6	11·5	13·6	28	..	3·7	..	13·0	0	0	31	0	4	21	2	0	3	1	0	0	0
	2330	,,	1010·8	966·3		25·2	21·7	19·7	22·9	73	..	2·2	..	11·6	0	3	28	0	0	5	6	9	9	0	2	0	0
Salem	0530	278	1010·2	978·7	..	23·2	21·4	20·5	24·1	85	..	3·2	..	2·1	0	0	15	0	5	10	0	0	0	0	0	16	0
	0830	,,	1012·7	980·7	−0·3	26·3	22·4	20·4	24·0	70	0	2·8	+1·3	6·3	0	0	25	1	10	13	0	1	0	0	0	6	0
	1130	,,	1010·6	980·0	.	31·7	23·5	19·2	22·9	48	..	3·9	..	3.2	0	0	17	0	4	5	3	2	2	1	0	14	0
	1730	,,	1005·7	975·5	.	34·6	23·8	17·7	20·2	38	..	3·6	..	7·5	0	0	29	0	2	25	1	0	0	0	1	2	0
	2330	,,	1010·7	979·4	..	26·4	22·7	20·9	24·7	72	..	2·2	..	13·5	0	10	19	0	4	22	3	0	0	0	0	2	0
Kallakurichi	0830	127	1012·3	997·9	..	26·5	24·2	23·0	28·1	81	..	2·8	..	1·7	0	0	11	1	1	0	4	2	1	0	2	20	0
	1730	,,	1007·1	993·1	.	33·1	26·9	23·6	29·1	59	..	2·6	..	12·1	0	1	30	0	2	23	4	1	0	1	0	0	0
Cuddalore	0530	12	1009·7	1008·3	..	23·5	22·2	21·7	25·9	90	..	3·9	..	0·8	0	0	6	0	0	2	3	1	0	0	0	25	0
	0830	,,	1012·2	1010·8	−0·3	26·9	23·9	22·4	27·1	76	−4	3·9	+1.4	1·6	0	0	8	0	1	1	3	1	0	0	2	23	
	1130	,,	1012·1	1010·8	..	30·2	24·5	21·7	25·9	61	..	3·0	..	6·7	0	0	29	0	1	10	17	1	0	0	0	2	
	1730	,,	1008·5	1007·2	..	28·8	24·2	22·0	26·4	67	..	3·3	..	7·6	0	0	31	0	0	11	20	0	0	0	0	0	
	2330	,,	1011·4	1010·1	..	26·6	23·5	21·9	26·3	76	..	2·1	..	2·1	0	0	17	0	0	5	12	0	0	0	0	14	
Timpattur	0530	390	1011·9	968·2	..	23·7	20·5	18·6	21·4	75	..	4·1	..	1·0	0	0	10	6	1	0	1	2	0	0	0	21	0
	1730	,,	1006·0	963·7	..	32·3	21·5	15·1	17.1	37	..	4·9	..	4·6	0	0	31	11	2	0	2	16	0	0	0	0	0
Vellore	0530	214	1010·5	986·0	..	22·4	20·8	19·9	23·2	86	..	2·4	..	0·6	0	0	5	0	1	1	1	2	0	0	0	28	0
	0830	,,	1012·3	988·1	+0·3	25·3	21·7	19·7	22·9	71	−5	2·9	+1·1	0·8	0	0	7	0	2	0	0	3	1	1	0	24	0
	1130	,,	1011·1	987·4	..	31·2	22·3	16·9	19·3	43	..	2.7	..	5·9	0	0	31	3	7	5	10	5	0	1	0	0	

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Vellore *Contd.*	1730	"	1006·9	983·4	..	32·6	21·8	14·9	16·9	36	..	2·3	..	6·8	0	0	31	0	9	8	12	2	0	0	0	0	0
	2330	"	1011·4	987·3	..	25·9	21·8	19·5	22·7	69	..	1·5	..	6·9	0	0	31	0	11	3	15	2	0	0	0	0	0
Tambaram (Aerodrome)	0830	29	1012·0	1008·7	..	27·4	24·1	22·6	27·4	75	..	3·1	..	9·3	0	2	29	0	0	1	3	7	5	5	9	0	1
	1730	"	1008·6	1005·4	..	29·7	23·8	20·9	24·7	60	..	2·4	..	22·6	0	19	12	0	0	4	22	5	0	0	0	0	0
Madras	0230	16	1009·9	1008·1	..	24·5	22·5	21·5	25·6	83	..	2.2	..	3·1	0	0	17	0	0	2	5	5	1	2	1	14	1
	0530	"	1010·2	1008·4	..	23·8	22·2	21.4	25·5	86	..	2·2	..	5·2	0	0	25	1	0	1	2	3	6	9	3	6	0
	0830	"	1012·6	1010·8	+0·2	26·9	23·5	21·7	25·9	73	−4	3·3	+1·2	7·1	0	0	29	1	0	1	3	5	4	12	2	2	1
	1130	"	1012.2	1010.5	..	31.4	23.9	20.1	23·5	51	..	3.6	..	12.3	0	3	28	0	0	10	8	8	1	0	0	0	4
	1730	"	1009.0	1007.3	..	29.3	23.6	20.7	24·4	60	..	3.1	..	18.8	0	6	25	0	0	17	10	4	0	0	0	0	0
	2330	"	1011·7	1009·9	..	25·7	23·0	21·6	25·8	78	..	1·9	..	8·2	0	0	27	0	0	7	18	2	0	0	0	4	0
Madras (Nungambakam)	0830	6	1012·7	1012·0	..	27·0	23·7	22·1	26·6	75	..	2·9	..	4·5	0	0	28	0	0	0	6	8	11	3	0	3	0
Coastal Mysore																											
Karwar	0830	4	1012·0	1011·5	0	25·9	22·8	21·1	25·0	75	..	2·7	..	2·8	0	0	27	0	2	22	2	0	0	0	1	4	0
	1730	"	1008·5	1008·0	..	29·5	25·8	23·2	28·4	70	..	2·2	..	20·3	0	14	17	1	0	0	0	0	1	5	24	0	0
Honavar	0830	26	1011·8	1008·8	−0·5	24 5	22·3	21·1	25·0	81	3	4·2	+1.2	2·9	0	0	25	0	4	21	0	0	0	0	0	6	0
	1730	"	1008·2	1005·2	..	30·1	25.0	22·6	27·4	65	..	3·1	..	11·9	0	2	29	0	0	0	0	2	7	11	11	0	0
Mangalore	0830	22	1011·6	1009·1	−0·3	27 8	24·5	22·9	27·9	75	+1	3·0	+1.2	6·5	0	0	31	3	5	16	4	0	1	0	2	0	0
	1730	"	1007·8	1005.3	..	29·9	25·2	23·0	28·1	67	..	3.8	..	9·8	0	0	31	3	0	0	0	0	2	10	12	0	4
Mangalore (Bajpe Aerodrome)	0230	102	1009·4	997·9	..	25·1	23·2	22·2	26·7	84	..	2·0	..	1·9	0	0	13	2	3	7	0	1	0	0	0	18	0
	0530	"	1009·4	997·9	..	24·3	22·8	21.9	26·3	87	..	2·4	..	3·7	0	0	23	0	5	16	2	0	0	0	0	8	0
	0830	"	1011·5	1000·0	..	26·8	23·6	22·1	26·6	75	..	2·6	..	4·9	0	0	27	1	3	20	3	0	0	0	0	4	0
	1130	"	1011·2	999·9	..	31·6	24·3	20·6	24·3	52	..	3·8	..	7·0	0	0	29	1	4	1	4	1	1	8	9	2	0
	1730	102	1007·6	996·3	..	29·9	24·2	21·4	25·5	61	..	3·6	..	14·4	0	4	27	0	0	0	0	0	0	20	11	0	0
	2330	"	1010·7	999·2	..	26·2	23·7	22·4	27·1	80	..	2·4	..	4·4	0	0	21	10	1	1	1	0	1	0	7	10	0
Interior Mysore (North)																											
Bidar	0830	664	1011·5	938·3	..	24·0	17·8	13·4	15·4	55	+13	1·6	−0.2	12·2	0	0	31	3	3	3	7	3	7	1	4	0	0
	1730	"	1005·5	934·2	..	30·7	19·2	11·1	13·2	33	..	4.0	..	12·5	0	2	29	5	12	6	2	1	2	0	3	0	0
Gulbarga	0830	458	1011·4	960·6	+0·2	26 6	18·4	12·6	14·6	45	+4	(c) 2·3	+1·6	(c) 13·5	0	5	20	1	3	8	3	1	2	2	5	3	0
	1730	"	1005·0	955·8	..	34·5	19·3	7·9	10·7	21	..	(d) 4·5	..	(d) 23·9	0	16	7	0	0	1	5	7	2	6	2	4	0
Bijapur	0830	594	1011·4	945·6	−0·1	24·6	17·1	11·9	13·9	47	0	2·3	+1·4	5·2	0	0	28	8	1	0	2	3	1	6	7	3	0
	1730	"	1004·3	941·0	..	34·4	20·2	11·7	13·7	27	..	3·8	..	5·0	0	0	31	8	1	2	3	6	2	5	4	0	0
Belgaum	0830	753	1011.1	928.7	−0·2	24.0	18.0	14.2	16.2	55	−5	1.6	+0·7	2.5	0	0	19	3	7	3	2	1	0	0	3	12	0
	1730	"	1005·1	924·9	..	30·7	20·1	13·4	15·4	37	..	2·5	..	11·5	0	0	30	0	1	3	0	0	3	17	6	1	0
Belgaum (Sambre Aerodrome)	0530	747	1010·1	927·3	..	20·3	16·7	14·2	16·2	70	..	1·9	..	2·7	0	0	12	0	3	3	1	2	0	2	1	19	0
	0830	"	1011·6	929·5	..	23·6	17·4	13·3	15·3	55	..	2·1	..	5·6	0	1	17	1	5	5	4	2	0	1	0	3	0
	1130	"	1009·9	929·5	..	30·0	18·2	9·9	12·2	30	..	1·7	..	11·2	0	4	24	4	6	5	4	3	0	6	0	3	0
	1730	"	1005·3	925·8	..	31·7	19·8	12·1	14·1	32	..	2·8	..	16·9	0	12	12	0	0	0	1	3	2	17	1	7	0
Gadag	0530	650	1009.6	937·7	..	22·2	18·7	16·5	18·8	72	..	1·5	..	5·3	0	0	26	1	2	0	2	3	6	5	7	5	0
	0830	"	1011·0	939·9	+0·1	26·2	19·5	15·4	17·5	54	−3	1·9	+1·0	4·9	0	0	21	0	1	3	3	1	3	5	5	10	0
	1130	"	1009·5	939·7	..	31·9	21·0	14·3	16·3	37	..	2·2	..	7·1	0	0	29	2	7	5	4	2	1	3	5	2	0
	1730	"	1005·2	936·4	..	33·8	21·7	14·9	16·9	34	..	4·7	..	8·0	0	0	28	3	4	2	4	1	5	1	8	3	0
	2330	"	1009·9	938·7	..	25·5	20·1	16·8	19·1	62	..	2·4	..	10·6	0	1	29	0	0	3	2	2	5	16	1	1	1
Raichur	0830	400	1011·1	966·8	+0·1	26·7	20·9	17·2	19·6	57	+10	1.4	+0.4	5·8	0	0	28	0	6	0	18	0	1	0	3	3	0
	1730	"	1005·3	962·4	..	35·0	22·7	14·5	16·5	30	..	1·7	..	5·8	0	0	30	0	10	0	16	0	0	0	4	1	0
Interior Mysore (South)																											
Bellary	0830	449	1010·9	961·1	−0·1	27·0	22·4	19·8	23·1	66	+20	2·9	−2·4	5·2	0	0	30	0	0	1	19	0	6	0	4	1	0
	1730	"	1004·6	956·3	..	34·8	24.9	19·8	23·1	43	..	4·6	..	4·8	0	0	30	0	0	1	20	0	2	0	7	1	0
Chitaldrug	0830	733	1010·7	930·7	−0·3	25·4	19·7	16·4	18·6	59	+9	3·8	+2·5	4·5	0	0	21	0	0	4	7	1	6	3	0	10	0
	1730	"	1004·3	926·6	..	32·7	20·9	13·6	15·6	33	..	4·3	..	2·9	0	0	19	1	2	9	0	0	1	6	0	12	0
Simoga	0830	571	1011·6	948·2	..	23·3	20·3	18·6	21·4	75	..	2·0	..	1·3	0	0	12	0	0	1	2	2	4	3	0	19	0
	1730	"	1004·8	943·5	..	32·2	20·0	11·9	13·9	32	..	3·9	..	5·6	0	0	28	1	4	5	1	2	6	7	2	3	0
Balehonnur	0830	..	..	..	..	19·3	18·6	18·1	20·8	93	+14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1521·7	907.2	..	21·9	19·1	17·6	20·1	78	+13	3·6	+2·1	1·8	0	0	9	0	0	4	0	0	0	4	1	22	0
	1730	"	1500·2	903·4	..	30·0	20·2	14·3	16·3	40	..	4·5	..	4·5	0	0	17	2	0	6	0	1	1	6	1	14	0

(c) Mean of 28 days. (d) Mean of 27 days.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest Standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity, miles per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)—*Contd.*																												
Mysore	0830	767	1011·6	927·4	−0·2	23·5	20·3	18·6	21·4	74	+7	2·6	+0·6	3·9	0	0	25	3	1	4	3	2	9	3	1	6	0
	1730	"	1005·1	923·6	..	31·5	18·7	9·6	11·9	27	..	3·9	..	5·2	0	0	23	1	4	5	3	3	6	1	0	8	0
Bangalore (Central Observatory)	0230	921	1500·2	909·1	..	21·5	17·9	15·6	17·7	70	..	1·5	..	10·9	0	0	30	0	0	10	12	3	3	2	0	1	0
	0830	"	1525·1	911·4	0	23·4	18·5	15·3	17·4	63	−1	2·3	+0·9	9·2	0	0	30	1	0	4	11	5	6	3	0	1	0
	1130	"	1534·7	911·1	..	29·2	18·6	11·0	13·1	35	..	2.7	..	10·7	0	1	29	1	4	6	8	4	2	2	5	1	0
	1730	"	1502·1	907·5	..	30·7	18·0	8·5	11·1	27	..	4·3	..	9·6	0	0	28	1	4	11	8	2	0	1	1	3	0
Bangalore (Aerodrome)	0530	897	1498·5	911·8	..	20·0	18·0	16·8	19·1	82	..	1·8	..	6·1	0	0	20	0	0	5	9	1	2	2	1	11	0
	0830	"	1525·0	914·0	..	23·3	19·3	17·0	19·4	68	..	3·0	..	7·8	0	0	23	0	1	2	7	3	9	1	0	8	0
	1130	"	1536·1	913·7	..	29·9	20·1	14·1	16·1	39	..	2·7	..	9·9	0	2	22	1	0	10	2	4	2	1	4	7	0
	1730	"	1503·2	909·9	..	31·5	19·8	12·2	14·2	32	..	3·5	..	13·4	0	5	22	1	3	17	3	0	0	2	1	4	0
	2330	"	1517·7	912·1	..	23·3	18·9	16·1	18·3	64	..	1·6	..	11·3	0	0	23	0	0	15	10	2	1	0	0	3	0
Kerala																												
Kozhikode	0530	5	1009·7	1009·1	..	25·8	24·1	23·3	28·6	86	..	2·0	..	5·9	0	0	31	1	17	11	1	0	1	0	0	0	0
	0830	"	1011·7	1011·1	−0·1	27·7	24·6	23·1	28·3	76	0	2·9	+0·8	5·2	0	0	30	4	8	16	0	1	0	0	1	1	0
	1130	"	1011·6	1011·0	..	31·;	25·9	23·5	28·9	64	..	2.9	..	10·3	0	0	31	1	0	0	0	1	4	20	5	0	0
	1730	"	1 08·0	1007·4	..	30·5	26·0	24·0	29·8	69	..	4·2	..	15·9	0	2	29	0	0	0	0	0	0	9	22	0	0
	2330	"	1010·9	1010·3	..	23·3	25·2	23·8	29·5	77	..	2·8	..	10·1	0	3	26	6	4	0	0	0	0	5	14	2	0
Palghat	0830	97	1011·8	1000·8	..	28·1	23·8	21·6	25·8	69	..	3·2	..	7·1	0	0	28	0	0	20	3	0	0	5	0	3	0
	1730	"	1006·4	995·7	..	34·1	23·2	16·9	19·3	39	..	4·5	..	10·6	0	1	28	0	1	9	2	0	4	11	2	2	0
Fort Cochin	0830	3	1011·8	1011·5	−0·1	28·4	27·1	26·6	34·8	90	+15	6·2	+4·2	5·0	0	0	27	3	13	8	2	0	0	0	1	4	0
	1730	"	1007·6	1007·3	..	29·8	28·3	27·7	37·1	89	..	6·0	..	8·0	0	0	31	0	0	0	0	0	2	18	11	0	0
Cochin (Naval Air Station)	0230	3	1009·6	1009·3	..	26·4	24·7	23·9	29.7	86	..	4·3	..	3·8	0	0	19	2	4	10	1	2	0	0	0	12	0
	0530	"	1009·4	1009·1	..	25·5	24·2	23·6	29·1	89	..	3·6	..	2·7	0	0	17	0	1	15	1	0	0	0	0	14	0
	0830	"	1011·5	1011·2	..	28·2	24·9	23·5	28·9	75	..	4·0	..	3·6	0	0	23	3	3	14	2	1	0	0	0	8	0
	1130	"	1011·6	1011·3	..	31·1	25·5	23·0	28·1	62	..	4·4	..	8·6	0	0	27	1	0	0	0	1	5	5	14	4	1
	1730	"	1007·7	1007·4	..	30·3	25·7	23·6	29·1	68	..	4·6	..	21·7	0	20	11	0	1	1	0	0	3	15	11	0	0
	2330	"	1011·1	1010·8	..	27·3	24·7	23·6	29·1	80	..	4·8	..	4·1	0	1	19	1	1	5	1	2	1	2	7	11	0
Alleppey	0830	4	1011·1	1010·7	..	28·6	25·8	24·6	30·9	79	..	4·2	..	5·1	0	0	31	1	4	13	12	1	0	0	0	0	0
	1730	"	1007·4	1007·0	..	31·0	27·1	25·6	32·8	73	..	4·4	..	20·7	0	13	18	1	0	0	0	0	2	14	14	0	0
Punalur	0830	34	1011·3	1007·5	..	25·7	23·3	22·1	26·6	81	..	4·4	..	0·3	0	0	2	0	0	1	1	0	0	0	0	29	0
	1730	"	1007·0	1003·3	..	32·4	25·4	22·1	26·6	55	..	6·0	..	6·8	0	0	30	0	1	0	4	7	14	1	3	1	0
Trivandrum	0230	64	1009·5	1002·2	..	25·5	23·8	23·0	28·1	86	..	2·2	..	3·8	0	0	24	7	8	4	2	0	0	0	3	7	0
	0530	"	1009·5	1002·2	..	24·6	23·3	22·7	27·6	89	.	1·2	..	3·5	0	0	27	5	10	9	1	0	0	0	2	4	0
	0830	"	1011·6	1004·3	−0·1	26·9	24·2	22·9	27·9	79	+2	3·0	[illegible]	4·2	0	0	30	4	10	8	5	1	0	0	2	1	0
	1130	"	1011·1	1003·9	..	31·0	24·8	21·8	26·1	59	..	4·7	..	7·5	0	1	30	1	2	0	0	6	10	5	7	0	0
	1730	"	1008·2	1000·9	..	29·4	24·7	22·5	27·3	67	..	4·7	..	5·4	0	0	31	1	0	0	1	8	19	0	2	0	0
	2330	"	1011·1	1003·8	..	26·6	24·2	23·2	28·4	82	..	2·9	..	3·4	0	0	21	3	5	3	2	0	0	0	8	10	0
Trivandrum (Aerodrome)	0830	8	1011·5	1010·6	..	28·4	24·5	22·7	27·6	71	..	3·9	..	5·3	0	0	30	11	11	3	4	0	0	0	0	1	1
Arabian Sea Islands																												
Minicoy*	0530	2																										
	0830	"																										
	1130	"																										
	1730	"																										
	2330	"																										
Amini Devi*	0830	4																										
Hill Stations excluding Kashmir																												
Walong (R)	0830																											
(R)	1730																											
Kohima	0830	1406	1586·1	869·0	..	17·0	12·9	9·8	12·0	60	..	3·0	..	3·4	0	0	31	6	2	3	7	2	3	4	4	0	0
	1730	"	1581·5	866·0	..	17·9	14·1	10·4	13·2	64	..	3·6	..	3·0	0	0	31	16	0	0	1	0	4	2	8	0	0
Aijal	†0830	..	..	..	..	19·7	14·2	10·9	12·0	57	..	2·0	..	2·7	0	0	26	2	0	7	2	3	2	9	1	0	0
	†1730	..	..	..	..	23·1	15·2	9·3	11·7	44	..	2·6	..	3·2	0	0	26	0	0	1	0	1	4	20	0	0	0
Shillong	0830	1500	1505·8	850·6	0	16·9	10·7	4·2	8·3	48	+3	2·9	+1·0	0·5	0	0	4	0	0	2	1	0	2	0	0	27	0
	1730	"	1479·5	848·2	..	16·3	11·7	7·2	7·9	59	..	4·9	..	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
Cherrapunji	0830	1313	1505·4	869·9	0	17·4	12·5	8·2	10·6	56	−2	3·0	0	4·3	0	0	31	3	8	4	3	3	8	2	0	0	0
	1730	"	1486·7	867·5	..	16·9	13·4	10·6	12·3	69	..	3·4	..	4·4	0	0	30	2	1	0	2	1	17	4	3	1	0
Darjiling (Raj Bhavan)	0830	2128	1533·4	792·7	+4·4	10·5	8·2	6·0	9·4	76	+9	5·0	+2·0	0·4	0	0	3	1	0	0	0	0	2	0	0	28	0
	1730	"	1509·6	790·1	..	11·1	8·8	6·5	10·0	74	..	5·8	..	1·8	0	0	19	0	0	0	0	3	10	4	2	12	0

(R) Register not received. *Data given as addenda in December, 1960 Issue. †Observations for 26 days.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—*Contd.*																											
Kalimpong	0830	1209	1464·6	876·1	−4·0	16·5	14·5	13·3	15·0	70	+17	1·6	−0·2	3·0	0	0	31	0	0	0	0	0	0	0	31	0	0
	1730	"	1458·3	875·5	..	16·3	14·9	14·4	15·8	86	..	2·2	..	3·0	0	0	31	0	0	0	27	0	0	0	4	0	0
Mukteswar (Kumaon)	0830	2311	3118·5	772·7	+0·1	8·7	4·5	−1·1	5.8	54	+10	3.3	+0·7	10·6	0	3	22	0	5	5	0	2	2	6	5	6	0
	1730	"	3110·2	771·4	..	10·8	6·9	2·8	7·5	60	..	4·0	..	18·4	0	11	19	1	2	1	0	0	6	13	7	1	0
Nainital	0830	1953	1485·8	804·7	..	10·7	6·4	0·5	6·9	52	..	3·3	..	4·1	0	1	11	0	4	4	2	0	0	1	10	19	0
	1730	..	1474·5	803·3	..	12·0	7·6	3·3	7·5	58	..	3·9	..	6 2	0	0	28	2	0	9	2	2	2	11	0	3	0
Joshimath	0830	..	..	..	..	8·7	4·9	0·2	6·3	59	..	3·9	..	3·3	0	1	29	2	3	12	6	3	2	1	1	1	0
	1730	..	..	..	..	13 1	7·2	1.1	6·5	47	..	5·1	..	4·6	0	0	30	0	2	2	4	3	7	9	3	1	0
Badrinath	0830	..	Closed during winter months																								
Lokpal	0830	..	..	..	..	−5·0	−6·2	−8·3	3·0	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooree	0830	2042	1490·0	796.0	−1·1	9·8	5·8	1·1	6 6	57	+9	4.6	+1.6	2·9	0	0	22	7	3	0	3	4	2	0	3	9	0
	1730	"	1477·3	795.1	..	11·2	7·9	4·8	8·4	67	..	5·0	..	4·6	0	0	31	5	4	1	6	8	5	1	1	0	0
Simla	0830	2202	1494·0	781·3	+0·1	9·2	3·8	−4·6	4·6	43	+7	4·1	+0.9	2·7	0	0	26	1	2	1	7	6	7	1	1	5	0
	1730	"	1485.7	780 6	..	9·8	5·5	0·1	6·2	54	..	4·9	..	3·6	0	0	31	1	1	1	5	12	8	1	2	0	0
Dalhousie	0830	1959	1446·1	799·6	..	8 5	5·4	1·1	6·4	65	..	4·3	..	..	..	.	..	..	..	..	..	..	..	.	..	..	..
	1730	"	1418·3	797·5	..	11·7	8.1	4·2	8·5	63	..	3·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharamshala	0830	1211	..	..	..	15.3	9·9	3·5	7·9	47	..	4·6	..	2·3	0	0	28	4	10	8	2	0	2	2	0	3	0
	1730	"	..	..	..	17·6	11 5	5·6	9·0	48	..	5·4	..	3·7	0	0	31	0	1	4	2	5	14	4	1	0	0
Abu	0830	1195	1504.1	881.5	−0·8	17·5	11·0	3.9	7.5	44	+9	2.1	+0·6	1.0	0	0	4	0	1	0	0	0	1	2	0	27	0
	1730	"	1500 5	880.8	..	21·9	12·8	3·4	7·3	33	..	1·8	..	3.6	0	1	13	0	1	0	2	2	3	3	2	17	1
Pachmarhi	0830	1075	1524·7	895·6	0	21 1	13.8	7·1	10·5	43	+6	1·4	−0.2	3·8	0	0	26	1	7	2	2	5	0	4	5	5	0
	1730	"	1494.3	891 9	..	26·3	15·6	6·6	9·9	30	..	3·4	..	4·3	0	0	27	0	2	0	0	2	0	15	8	4	0
Mahabaleshwar	0830	1382	1522.1	864·4	+0.4	20·1	12.0	3·4	7·8	36	−1	1·4	+0.7	9·9	0	0	31	5	6	14	1	1	0	0	4	0	0
	1730	"	1504·5	862·2	..	24·9	16.2	9·5	11·9	40	..	2·0	..	8.3	0	0	31	6	0	0	0	0	1	5	19	0	0
Nandi Hills*	0830																										
Mercara	0830	1152	1517.7	887.2	+0·2	20·3	17·6	15·8	17·9	76	+7	1·8	−0·8	3·0	0	0	31	6	7	7	0	1	0	5	5	0	0
	1730	"	1497.7	884·3	..	25·4	19·5	15·7	17·8	58	..	4·0	..	4·1	0	0	31	1	6	7	0	0	0	8	8	0	1
Kodaikanal	0830	2343	3162·9	772·4	+0·3	13 9	9·5	4·9	8.7	59	+13	1·8	+0·1	10 7	0	3	28	6	12	6	4	2	0	0	1	0	0
	1130	"	3179.3	772·9	..	18·0	12·0	6·9	9·9	50	..	3·7	..	11.8	0	1	29	5	13	6	3	2	0	0	1	1	0
	1730	"	3152·2	771·0	..	15·5	12·2	9·7	12·0	70	..	4·2	..	4·7	0	0	26	7	8	3	4	2	0	0	2	5	0
Ootacamund	0830	2249	1520·3	780·9	+0·2	13·5	10·6	8·2	10·9	71	+21	1·8	+0.1	1·2	0	0	7	0	1	2	4	0	0	0	0	24	0
	1730	"	1494.0	779·3	..	17·6	12,9	9.4	11·8	60	..	5·2	..	0.9	0	0	6	0	0	1	2	3	0	0	0	25	0
Coonoor	0830	1747	1523·5	828.6	..	19.1	15·2	13·0	15.0	68	+13	3.8	+1.6	8.5	0	0	31	7	4	3	7	5	0	1	4	0	0
Nepal																											
Katmandu	0830	1324	1505·1	868·7	..	12·1	10·4	8·7	11·4	81	..	4·0	..	0·1	0	0	1	1	0	0	0	0	0	0	0	30	0
	1130	"	1502·2	867·9	..	19·7	13·1	7.2	10·2	48	..	3·4	..	1·7	0	0	11	2	0	1	2	1	0	0	5	20	0
	1730	"	1482.0	866.0	..	17·6	12·6	8·1	10·9	57	..	4·2	..	2·5	0	0	11	3	0	0	0	3	0	0	5	20	0
Sikkim																											
Lachen	0830		..	..	..	7·1	2·7	−3.5	4·7	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet																											
Yatung (Chumbi) (R)	0830																										
Ceylon																											
Colombo	0830	7	1011·7	1010·9	+0·1	26·2	23·8	22·5	27·3	81	−6	3·6	−0·1	5·9	0	0	31	2	5	21	3	0	0	0	0	0	0
	1730	"	1008·4	1007·6	..	28·7	24 2	21·9	26 3	68	..	4·6	..	11·0	0	0	30	1	2	1	0	0	5	14	7	1	0
Trincomalee	0830	3	1011·7	1011·4	+0 7	27·3	24·6	23·2	28·4	78	−5	3 7	+0.7	7·9	0	1	26	1	5	3	1	7	9	1	0	4	0
	1730	"	1008·7	1008·4	..	28·7	24·8	22·8	27·7	71	..	3·4	..	10·4	0	0	30	5	12	10	3	0	0	0	0	1	0
Batticola	0830	3	1012·1	1011·8	..	26·8	24·5	23 5	28·9	81	..	4·2	..	7·6	0	0	25	0	2	2	0	2	3	9	7	6	0
	1730	"	1008·9	1008·6	..	28 1	24·4	22·7	27·6	73	..	3·7	..	15·8	0	3	28	0	19	11	1	0	0	0	0	0	0
Hambantota	0830	15	1011·7	1010.0	+0.6	26·5	24·0	22·7	27·6	80	−5	3·5	+0 5	14·5	0	5	26	10	19	0	0	0	0	0	2	0	0
	1730	"	1008·5	1006·8	..	28·5	24·8	23·0	28·1	72	..	4·8	..	23.6	0	16	15	0	6	14	9	2	0	0	0	0	0
Mannar	0830	4	1012·3	11·8	..	26·3	24·2	23 2	28 4	84	..	2·9	..	7·6	0	0	30	1	6	7	6	0	0	0	0	1	0
	1730	"	1008·4	1 0	..	29·6	25 0	22·9	27·9	67	..	3·3	..	12 7	0	1	30	15	6	3	10	0	2	2	3	0	0
Hydrometeorological Observatories Damodar Catchment																											
Bokaro	0830	242	1012·7	985·6	..	22·8	17·1	13·0	14·6	55	..	2·1	..	4·0	0	0	26	2	0	1	4	5	1	7	8	5	0
	1730	"	1007·6	980·6		28·0	19·3	12·9	15·6	44	..	2·3	..	5·1	0	0	30	3	3	0	3	0	1	0	20	1	0
Hazaribagh	0830	615	1011·8	943 2		22 1	15·4	9·8	12·7	50	..	2·3	..	7·2	0	1	26	4	0	0	1	5	2	5	10	4	0
	1730	"	1007·8	940·2	..	25·5	16 1	8·4	11·4	37	..	2·1	.	8·0	0	0	29	4	0	2	0	1	2	2	18	2	0

*Observatory Closed on 15-3-60.

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level, or height in p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed per hour km.	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories Damodar Catchment																											
Tilaiya	0830	..	..	..	..	22·8	16·2	10·4	12·9	50	..	..	..	15·1	0	0	25	0	1	2	4	0	10	7	7	0	0
	1730	..	..	..	..	27·4	17·5	8·6	11·9	36	..	..	..	13·0	0	3	28	1	0	3	1	0	1	7	18	0	0
Ramgarh	0830	..	..	..	..	23·1	17·5	14·0	15·5	58	..	2·1	..	1·5	0	0	12	0	2	5	0	0	1	3	1	19	0
	1730	..	..	..	..	28·0	19·0	12·4	15·7	41	..	2·5	..	1·8	0	0	18	0	1	2	1	0	2	1	11	13	0
Panchet Hills	0830	..	..	..	..	24·0	18·4	14·0	15·2	56	..	4·5	..	9·4	0	4	26	0	3	5	0	0	10	7	5	1	0
	1730	..	..	..	..	28·4	19·0	11·9	14·2	39	..	5·6	..	6·1	0	0	26	7	2	3	1	1	0	1	11	5	0
Durgapur	0830	..	..	..	..	24·3	19·3	16·2	18·5	63	..	..	..	10·2	0	1	30	3	1	3	3	5	1	5	10	0	0
	1730	..	..	..	..	29·4	20·8	15·3	17·6	44	..	..	..	9·0	0	1	30	4	2	3	0	6	2	1	13	0	0
Mahanadi Catchment																											
Hirakud	0830	159	1012·6	994·5	..	25·2	19·0	14·6	17·0	55	..	2·4	..	6·1	0	0	29	1	6	8	10	2	0	0	2	2	0
	1730	,,	1007·7	990·1	..	30·7	20·0	12·0	14·8	33	..	2·8	..	4·5	0	0	24	1	3	1	2	2	0	3	12	7	0
Khijrawan	0830	..	..	..	..	22·5	18·8	15·5	18·7	66	..	1·1	..	2·5	0	0	20	0	1	11	0	1	2	2	0	11	3
	1730	..	..	..	..	30·7	20·6	14.6	16·2	41	..	(a) 0·8	..	5·3	0	0	29	3	1	4	0	0	3	6	12	1	0
Sonepur	0830	..	..	..	..	26·5	19·7	14·7	17·5	49	..	..	..	(a) 4·5	0	0	27	5	5	7	3	3	1	1	2	4	0
Ginabahar	0830	..	..	..	..	23·5	17·6	13·2	15·1	55	..	..	..	..	..	..	.	..	..	..	.	..	..	..	..	..	..
Bhimkund	0830	..	..	..	..	23·0	18·5	15·4	17·7	64	..	3.4	..	1·1	0	0	8	2	1	1	0	0	1	0	2	23	0
	1730	..	..	..	..	28·6	19·2	11·1	14·6	40	..	3·6	..	1·5	0	0	10	2	3	0	0	1	3	0	1	21	0
Narbada Catchment																											
Punasa	0830	..	..	..	..	24·0	17·5	12·6	15·1	50	..	..	..	5·2	0	0	28	5	10	3	0	0	6	2	2	3	0
	1730	..	..	..	..	32·4	22·2	15·6	18·5	39	..	..	..	4·7	0	0	27	7	4	1	0	0	3	6	6	4	0
Bagra Tawa	0830	..	..	..	..	23·0	15·3	8·1	11·1	41	..	1·5	..	5·7	0	0	24	0	7	1	0	2	12	1	1	7	3
	1730		..	..	..	31·3	17·8	6·2	9·4	22	..	2·4	..	5·4	0	0	24	1	4	0	2	3	5	4	5	7	0
Thikri	0830	..	..	..	..	24·4	16·8	10·9	12·9	45	.	1·9	..	..	..	..		..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Jhadol	0830	-	..	..	..	17·5	15·8	14·6	16·6	84	..	..	..	..	.	..		..	..	..	..	..	..	..	..	..	..
Dharoi	0830		..	..	..	21·3	14·7	9·0	11·5	43	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..
	1730		.	..	..	31·1	17·6	6·3	9.5	21	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	
Ganga Catchment																											
Mukhim	0830	..	..	..	..	10·1	6·5	2·9	7·4	60	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·5	7·7	2·9	7·4	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	13·5	11·2	8·9	11·7	73	..	4·0	..	1·4	0	0	11	5	1	1	1	1	2	0	0	20	0
	1130	..	..	..	..	20·2	13·4	6·9	10·5	45	..	4·1	..	1·8	0	0	16	2	3	3	1	3	2	2	0	15	0
	1730	.	..	..	..	23.6	14·2	5·7	9·3	33	..	4·6	..	3·7	0	0	20	2	1	2	3	6	1	2	3	11	0
Gandak Catchment																											
Gorkha*	0830	..	..	..	..	16·9	13·7	11·2	13·4	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
	1730	..	..	..	..	18·9	16·0	14·2	16·1	73	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	17·6	14·0	11·3	13·3	66	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..
	1730	..	.	..	..	21.1	15·6	11·7	13·6	55	..	..	..		..	..		..	..	..	..	..	..	..	..	..	..
Nawakot	0820	..	..	..	..	17·2	14·1	11·6	13·9	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	.	..	..	..	20·1	14.7	10·6	12·8	54	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..
Jomosom	0830	..	..	..	..	7·1	2·8	−2·3	5·1	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·3	4·2	−0·6	5·9	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	.	..	..	..	15·8	12·6	10·5	12·3	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·1	14·8	11·7	13·0	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	9·8	6·4	3·1	7·5	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·1	9·7	4·9	8·6	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																											
Dalchh † *	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
*	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

† Data not available. *Observation for 30 days. (a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Gogra Catchment																											
Dandeldhura	0830	..	..	..	..	11·4	8·0	4·7	8.5	66	..	3·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·4	9·6	5·9	9·3	63	..	4·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	22·7	16·8	12·6	14.5	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	27·3	19·1	13·4	15·5	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu*	0830																										
	1130																										
	1730																										
Kosi Catchment																											
Chautara	0830	..	..	..	..	13·8	10·3	7·4	10.3	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·3	11·6	6·1	9·3	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	11·9	8·1	5·7	8·6	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·6	8·5	6·5	9·4	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga†	0830																										
	1130																										
	1730																										
Barahkshetra	0830	146	1012·9	996·0	..	20·5	16·1	12·5	14·6	63	..	2·2	..	6·1	0	0	28	0	5	1	2	0	11	5	4	3	0
	1130	"	1011·7	995·2	..	25·9	18·4	13·0	15·2	47	..	3·2	..	9·6	0	0	31	0	4	0	0	0	15	10	2	0	0
	1730	"	1008.1	991·9	..	25·8	18·1	12·3	14·5	46	..	3·6	..	5·0	0	0	28	1	5	4	5	1	8	1	3	3	0
Angbung	0830	..	..	..	..	15 2	11·9	9·1	11·5	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·1	13·3	8·5	11·1	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	13·5	9·5	5·8	9.2	62	..	2·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	16·2	11·2	7.0	10·0	57	..	(a) 3·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·3	10·0	6·5	9·7	63	..	4·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	14·1	9·9	5·7	9.1	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·1	11·4	7·1	10·1	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	5·9	1·3	−5·1	4·2	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	3·8	2·6	−0·2	6 0	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	14·8	11·2	8·0	10·7	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·4	10·9	7·7	10·6	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpu	0830	..	..	..	..	16·2	12·3	9 0	11.5	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17.1	12·8	9.1	11·7	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment																											
Gangtok	0830	1812	1503·6	819·6	..	11·3	8·4	5·6	9·2	71	..	3·5	..	0·4	0	0	1	1	0	0	0	0	0	0	0	30	0
	1130	"	1495·5	819·3	..	15·4	11·4	8·3	11·0	65	..	4·5	..	2·1	0	0	20	1	0	0	2	7	9	0	1	11	0
	1730	"	1479·0	817·3	..	12·3	10·0	8·2	10·8	78	..	6·3	..	1·2	0	0	9	0	2	0	1	5	1	0	0	22	0
Geyzing	0830	..	..	..	..	13·9	11·1	8·9	11 4	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·5	12·0	10·1	12·5	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(a) Mean of 30 days *Data included under "Nepal". †Data not available.

MONTHLY MEANS OF UPPER WINDS

March 1960 (Phalguna 11 1881—Chaitra 11, 1882 Saka)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 43 stations all the observations were taken by means of pilot balloons and at 11 stations some observations were made by means of pilot balloons and the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second* irrespective of direction;

v—represents the resultant mean velocity in metres per second*;

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km.a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2. 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a.m.s.l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

*Values obtained by converting the original data in knots.

5—19 D.D.G. Obs. P/6

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

No.	Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)			
1.	Agartala	23°53′	91°15′	17	28th Nov. 1951	0530	1130	1730	2330
2.	Ahmedabad	23°04′	72°38′	61	19th May 1928	0530	1730	2330	
3.	Amausi	26°45′	80°53′	133	20th Nov. 1950	0530	1730	2330	
4.	Ambala	30°23′	76°46′	179	1st Apr. 1941	0530	1730	2330	
5.	Anantapur	14°41′	77°37′	365	12th Feb. 1946	0530	1730	2330	
6.	Asansol	23°41′	86°59′	135	29th May 1942	0530	1130	1730	2330
7.	Baghdogra	26°38′	88°19′	140	7th Jun. 1953	0530	1130	1730	2330
8.	Bairagarh	23°17	77°21′	532	26th Feb. 1943	0530	1730	2330	
9.	Bajpe	12°55′	74°53′	104	25th May 1959	0530	1730	2330	
10.	Bamrauli	25°27′	81°44′	103	28th Feb. 1930	0530*	1130	1730*	2330
11.	Bangalore	12°58′	77°35′	936	19th May 1915	0530	1730	2330	
12.	Bareilly	28°22′	79°24′	181	12th Jan. 1943	0530	1730		
13.	Begumpet	17°27′	78°28′	543	1st Sep. 1929	0530	1730	2330	
14.	Bhagalpur	25°14′	86°57′	61	19th May 1950	0530	1130	1730	
15.	Bhubaneshwar	20°15′	85°50′	54	5th Dec. 1942	0530	1130	1730	2330
16.	Bhuj	23°15′	69°48′	90	14th Sep. 1937	0530	1730	2330	
17.	Bikaner	28°00′	73°18′	229	18th Oct. 1946	0530	1730	2330	
18.	Chikalthana	19°51′	75°24′	583	7th Oct. 1951	0530	1730	2330	
19.	Cochin†	09°56′	76°14′	13	16th Mar. 1942	0530	1730	2330	
20.	Darjeeling	27°03	88°16′	2115	21st May 1956	0530	1730		
21.	Dehra Dun	30°19	78°03′	692	1st Oct. 1958	0530	1730		
22.	Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
23.	Gadag	15°25′	75°38′	650	3rd May 1943	0530	1730	2330	
24.	Gannavaram	16°32′	80°48′	32	8th Apr. 1942	0530	1730	2330	
25.	Gauhati	26°05′	91°43′	55	12th Mar. 1955	0530*	1130	1730*	2330
26.	Gaya	24°45	84°57′	119	19th Mar. 1937	0530	1130	1730	2330
27.	Gopalpur	19°16′	84°53	24	15th Feb. 1946	0530	1730	2330	
28.	Gorakhpur	26°45′	83°22′	83	5th Jan. 1943	0530	1730		
29.	Gwalior	26°14′	78°15′	208	7th May 1938	0530	1730	2330	
30.	Imphal	24°51′	93°58′	805	8th Mar. 1952	0530	1130	1730	2330
31.	Jabalpur	23°10′	79°57′	402	30th Jul. 1928	0530	1730	2330	
32.	Jagdalpur	19°05′	82°02′	562	25th Mar. 1948	0530	1730	2330	
33.	Jaipur	26°49′	75°48′	403	6th Jun. 1953	0530	1730	2330	
34.	Jamshedpur	22°49′	86°11′	144	23rd Jul. 1942	0530	1130	1730	
35.	Jharsuguda	21°55′	84°05′	240	1st May 1944	0530	1730	2330	
36.	Jodhpur	26°18′	73°01′	229	15th Oct. 1934	0530*	1130	1730*	2330
37.	Madras	13°00′	80°11′	29	8th Apr. 1926	0530*	1130	1730*	2330
38.	Minicoy	08°18′	73°00′	15	14th Apr. 1941	0530	1730	2330	
39.	Mohanbari	27°29′	95°01	112	1st Jun. 1948	0530	1130	1730	2330
40.	Nagpur	21°06′	79°03′	316	23rd Apr. 1943	0530*	1130	1730*	2330
41.	Nanpara	27°50′	81°30′	142	23rd Apr. 1957	0530	1730		
42.	New Delhi	28°35′	77°12′	227	20th Oct. 1936	0530*	1130	1730*	2330
43.	Poona	18°32′	73°51′	593	5th Jan. 1925	0530	1730	2330	
44.	Port Blair	11°40′	92°43′	93	29th Oct. 1945	0530*	1130	1730*	2330
45.	Raipur	21°14′	81°39′	308	15th Jul. 1944	0530	1730	2330	
46.	Raxaul	26°59′	84°51′	83	28th Oct. 1957	0530	1130	1730	
47.	Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
48.	Tezpur	26°37′	92°47′	79	12th Aug. 1932	0530	1130	1730	2330
49.	Tiruchirapalli	10°46′	78°43′	96	22nd Jun. 1936	0530	1730	2330	
50.	Trivandrum	08°29′	76°57′	73	8th Dec. 1928	0530*	1130	1730*	2330
51.	Udaipur	24°35′	73°42′	587	24th Jun. 1947	0530	1730	2330	
52.	Vengurla	15°52′	73°38′	8	22nd Nov. 1941	0530	1730	2330	
53.	Veraval	20°54′	70°22′	17	13th Oct. 1941	0530*	1130	1730*	2330
54.	Visakhapatnam	17°43′	83°14′	10	24th Sep. 1928	0530	1730	2330	

*Radiowind ascents.
†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Station	AGARTALA																AHMEDABAD							
Time in I. S. T.	0530				1130				1730				2230				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	0·9	157	31	2·2	0·9	284	31	1·9	0·7	258	31	1·6	0·6	152	31	2·9	2·4	330	31	4·3	3·0	300
0·15 a. g.	30	4·7	1·2	148	31	3·4	1·4	291	31	4·1	1·8	280	31	5·2	1·7	210	31	8·7	6·6	330	31	4·7	3·4	290
0·3 a. m. s. l.	30	4·9	1·0	277	31	3·4	1·1	286	31	4·4	2·1	269	31	5·3	2·6	238	31	9·5	7·5	328	31	4·8	3·5	290
0·6 ,,	30	4·5	1·9	289	31	3·6	1·3	265	31	4·4	2·4	260	31	4·7	3·4	251	31	8·0	5·9	331	31	4·4	3·2	287
0·9 ,,	30	4·3	2·8	286	31	4·0	2·3	258	31	4·4	3·2	256	31	4·6	3·7	260	31	6·1	4·1	309	31	4·4	3·2	283
1·5 ,,	30	5·8	4·6	275	27	5·7	4·2	261	30	5·6	5·0	257	31	5·7	4·5	279	31	5·7	3·9	265	31	4·9	3·7	275
2·1 ,,	30	7·7	6·7	274	25	7·8	6·1	272	30	7·6	6·3	271	31	7·4	6·3	280	30	7·6	5·8	249	31	6·9	5·9	265
3·0 ,,	27	10·1	8·8	287	16	10·5	9·4	268	29	10·5	9·1	230	28	9·9	8·9	285	28	9·6	7·9	240	29	11·0	9·8	252
3·6 ,,	20	11·0	9·2	287					26	11·9	10·8	279	6	10·3	9·4	270	6	9·9	9·3	245	27	12·7	11·4	255
4·5 ,,	15	13·4	11·8	285					24	15·0	13·5	278					1	9·3	9·3	275	24	15·1	13·9	263
5·4 ,,	6	13·8	10·3	289					15	14·1	12·9	283					1	19·0	19·0	280	22	18·7	18·0	258
6·0 ,,	3	17·0	13·8	328					10	14·9	14·2	290									22	21·4	20·7	258
7·2 ,,	1	21·6	21·6	340					5	20·5	19·1	293									18	26·3	25·4	258
9·0 ,,									1	23·2	23·2	290									6	31·9	27·9	274

Station	AHMEDABAD				AMAUSI												AMBALA							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·7	1·7	305	31	2·5	0·8	279	31	3·8	2·4	290	31	3·0	1·2	334	31	2·1	0·4	010	31	2·6	0·5	271
0·15 a. g.	31	6·8	5·0	312	31	8·5	3·4	297	31	5·3	2·8	308	30	7·8	3·4	002	31	7·4	1·9	052	31	5·3	1·0	274
0·3 a. m. s. l.	31	7·0	5·3	102	31	8·6	3·1	030	31	5·4	2·9	305	30	7·8	3·0	357	31	3·2	0·8	071	31	3·3	0·6	266
0·6 ,,	31	5·9	4·4	307	30	6·7	2·9	285	31	5·6	3·8	299	30	7·2	3·2	326	31	6·7	1·1	013	31	5·7	1·5	289
0·9 ,,	31	4·8	3·3	297	29	6·0	3·5	313	31	5·5	4·0	295	29	5·8	4·0	320	31	6·1	0·9	360	31	6·0	1·6	274
1·5 ,,	31	5·3	3·1	251	27	6·8	5·3	302	29	6·1	5·3	290	27	7·5	6·4	290	31	5·6	1·3	270	31	6·0	1·5	267
2·1 ,,	30	7·3	5·2	253	26	8·7	7·1	285	29	7·9	7·4	290	26	8·9	7·9	292	30	6·3	3·6	273	28	6·4	2·7	273
3·0 ,,	29	9·9	7·7	249	16	11·2	10·0	277	24	11·4	10·9	283	13	12·0	10·9	290	27	7·6	4·5	260	26	6·7	3·4	272
3·6 ,,	2	7·5	7·4	258	9	14·2	12·1	286	21	13·9	11·8	282	6	11·7	10·9	270	25	7·8	5·7	260	24	7·9	5·5	277
4·5 ,,					4	12·9	11·9	274	18	14·7	13.5	288	2	10·0	8·4	268	18	11·8	8·6	266	19	10·5	8·3	283
5·4 ,,					1	14·4	14·4	310	10	16·6	16·0	291	1	5·7	5·7	330	11	14·9	12·3	255	16	13·2	11·6	274
6·0 ,,					1	13·4	13·4	305	9	18·3	17·7	282	1	4·6	4·6	330	10	17·0	15·2	251	14	14·3	13·3	264
7·2 ,,					1	16·5	16·5	350	8	20·6	19·7	278					4	25·9	25·6	251	4	24·0	21·9	250
9·0 ,,					1	18·5	18·5	325	3	23·0	15·8	282												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. abvoe mean sea level

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Station	AMBALA				ANANTAPUR												ASANSOL							
Time in I. S. T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·6	0·8	335	31	1·9	0·9	160	31	2·9	2·3	076	31	4·7	4·4	097	31	0·6	0·4	307	31	1·9	0·7	290
0·15 a. g.	30	8·3	3·0	328	31	4 6	2·7	152	31	4·2	3·2	074	31	8·2	7·5	107	31	3·9	2·1	295	31	4·2	2·5	241
0·3 a. m. s. l.	30	3·6	1·1	331													31	4·1	2·3	291	31	4·2	2·5	297
0·6 ,,	30	7·9	2·6	326	31	4·9	3·2	166	31	4·4	3·1	075	31	8·6	8·1	107	31	5·4	3·2	293	31	4·4	2·3	291
0·9 ,,	30	7·2	2·3	324	31	5·8	3·1	166	31	4·6	3·2	073	31	8·4	7·5	112	31	6·5	4·5	294	31	4·6	2·8	282
1·5 ,,	29	5·6	1·1	310	31	6·4	2·4	117	31	4·4	2·9	076	31	4·5	2·8	098	30	8·0	6·5	292	31	6·8	5·6	282
2·1 ,,	27	6·2	2·3	269	31	5·1	2·0	056	31	4·4	2·3	076	31	3·9	1·2	021	30	9·6	8·6	284	26	9·7	5·7	285
3·0 ,,	25	7·3	4·0	271	31	4·5	2·3	357	31	4·2	1·2	025	29	4·9	2·0	310	24	10·9	9·5	287	15	10·7	9·5	295
3·6 ,,	13	7·7	5·5	268	29	4·8	1·8	355	30	4·1	1·3	329	26	5·5	1·2	313	18	11·9	10·8	290				
4·5 ,,	1	21·6	21·6	240	27	6·4	1·3	274	30	5·1	2·4	297	20	5·5	4·7	304	9	9·9	9·6	277				
5·4 ,,					27	7·4	2·6	288	28	6·8	2·9	307	12	6·9	3·4	315	6	11·5	11·0	278				
6·0 ,,					24	8·5	2·2	278	28	7·8	3·7	299	8	8·2	5·3	296	3	12·4	11·9	279				
7·2 ,,					13	8·9	3·3	283	23	10·8	6·3	290					2	13·9	12·6	277				
9·0 ,,					5	12·7	10·7	276	14	14·6	13·1	291												

Station	ASANSOL								BAGHDOGRA															
Time in I. S. T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	1·5	322	31	0·9	0·1	125	31	1·5	0·7	059	31	2·8	2·0	118	31	3·1	0·8	216	31	2·0	1·2	020
0·15 a. g.	31	4·8	3·3	323	31	6·0	2·0	331	30	3·6	2·3	070	29	3 6	2·6	122	31	4·3	1·1	213	30	3·8	2·2	060
0·3 a. m. s. l.	31	4·9	3·2	326	31	6·2	2·2	330	30	3·6	2·3	080	29	3·5	2·5	120	31	4·2	1·2	228	30	3·8	2·1	065
0·6 ,,	31	4·9	3·7	321	31	7·2	3·4	314	30	4·3	2·9	085	29	3·2	1·9	116	31	4·5	1·6	240	30	3·7	0·9	071
0·9 ,,	31	5·4	3·8	308	31	6·8	3·7	294	30	3·8	2·5	082	29	3·7	1·8	095	30	4·2	2·4	240	30	3·1	0·1	329
1·5 ,,	31	6·1	5·3	291	31	7.6	6·5	275	29	3·0	0·5	031	29	3·6	0·2	300	27	4·7	3·3	267	29	3·8	1·2	275
2·1 ,,	31	8·5	7·4	290	30	10.2	8·8	280	27	5·9	3·3	287	21	4·5	2·3	287	25	5·5	4·3	266	28	5·8	4·6	279
3·0 ,,	28	11 8	10·8	289	28	11.6	10·1	285	20	10·1	8·2	283	15	5·1	3·1	288	18	7·4	5·7	283	18	7·1	5·9	275
3·6 ,,	25	12·4	12·3	298	18	12·7	12·0	288	15	11·7	9·7	280	4	5·8	4·8	290	14	9·0	8·4	273	5	6·2	1·7	253
4 5 ,,	12	15·0	14·5	293	7	10·8	9·9	275	8	8·1	7·1	292					8	12·9	12·1	280	2	6·2	4·8	295
5·4 ,,	8	15·6	13·9	292	3	14·4	14·3	263	7	10·6	10·2	290					4	9·5	9·3	280	1	4·6	4·6	290
6·0 ,,	6	15·0	13·4	301					6	10·9	10·6	278					3	16·6	14·9	297				
7·2 ,,	3	17·9	17·8	267					4	11·7	11·0	310					2	15·4	14·1	288				
9·0 ,,	1	24·2	24·2	310													1	24·2	24·2	315				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Station	BAIRAGARH												BAJPE											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·6	0·7	021	31	2·4	1·3	266	31	2·6	0·9	342	31	1·5	1·3	074	31	5·1	4·5	297	31	1·8	1·3	340
0·15 a. g. .	31	6·4	2·8	045	31	3·7	2·1	270	31	5·9	2·4	345	31	2·9	2·2	024	31	5·7	5·3	290	31	4·7	4·4	330
0·3 a. m. s. l.													31	2·8	2·2	004	31	5·9	5·5	289	31	5·0	4·7	328
0·6 ,, .	31	6·1	2·6	049	31	3·6	2·3	270	31	5·9	2·3	347	31	2·8	2·0	337	31	4·7	3·9	302	31	5·6	5·3	325
0·9 ,, .	30	6·3	2·3	015	31	4·3	2·8	270	31	5·3	2·7	322	31	3·7	2·0	340	31	3·7	2·8	327	31	4·8	3·8	325
1·5 ,, .	30	4·5	3·0	290	31	4·7	3·3	264	30	4·4	2·7	276	31	5·1	2·4	351	31	3·3	1·6	039	31	3·7	2·3	331
2·1 ,, .	30	5 8	5·2	264	30	5·5	4·4	263	30	4·6	3·8	255	29	5·0	1·5	082	30	5·7	4·0	070	28	5·2	3·1	073
3·0 ,, .	29	9·6	8·9	257	30	8·9	7·8	263	29	7·4	6·1	255	26	4·7	3·7	082	28	6·4	4·8	093	24	7·3	6·3	088
3·6 ,, .	12	9·1	8·0	260	28	11·3	10·3	267	15	9·3	8·1	251	20	4·6	1·3	071	23	4·4	1·5	117	20	5·0	3·5	113
4·5 ,, .	2	14·2	13 3	258	22	13·7	12·6	263	3	7·2	7·1	293	6	5·7	2·1	240	18	4·9	2·7	310	11	5·6	1·2	245
5·4 ,, .	1	16·0	16·0	295	19	16·9	15·8	273					2	7·2	5·1	347	18	6·6	4·0	300	5	5·0	3·1	300
6·0 ,, .	1	17·0	17·0	300	18	18·9	17·6	722									18	7·8	4·0	300	2	4·6	3·3	332
7·2 ,, .					12	24·2	21·3	268									12	7·8	3·7	293				
9·0 ,, .					2	25·0	24·5	240									6	11·7	8·5	270				

Station	BAMRAULI																BANGALORE							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·0	0·4	060	31	2·2	0·7	311	31	3·6	2·3	296	31	1·4	0·5	025	31	3·4	2·1	153	31	3·5	2·6	092
0·15 a. g. .	31	4·8	1·4	049	31	3·3	1·1	265	30	6·3	3·8	301	31	7·3	3·3	099	28	5·7	3·7	158	31	4·7	3·3	083
0·3 a. m. s. l.	31	4·8	1·4	049	31	3·4	1·3	263	30	6·2	3·8	301	31	7·5	3·4	005								
0·6 ,, .	31	4·8	1·5	347	31	3·8	1·9	268	30	5·3	3·3	276	31	6·7	3·1	353								
0·9 ,, .	31	5·6	2·2	332	31	4·6	2·4	271	30	5·2	3·5	290	31	5·9	3·1	325								
1·5 ,, .	31	6·7	4·9	282	30	7·2	5·1	281	30	6·6	4·9	272	30	7·3	5·0	280	28	6·0	2·1	129	31	4·7	3·5	076
2·1 ,, .	31	8·9	7·3	283	30	9·3	7·4	279	30	8·5	6·9	281	28	9·4	8·1	283	26	5·5	4·0	050	31	4·9	3·9	073
3·0 ,, .	31	11·0	9·8	282	29	11·5	10·0	282	30	11·0	9·6	277	19	11·5	10·2	284	24	5·8	5·0	035	30	4·1	3·0	053
3·6 ,, .	31	12·5	10·7	284	25	12·9	11·4	279	30	12·5	11·7	275	7	10·1	8·6	278	20	5·4	2·8	072	23	4·5	2·5	045
4·5 ,, .	31	14·6	13·4	277	21	14·8	13·7	282	30	14·4	13·4	273	2	12·6	12·6	266	15	7·0	0·8	088	22	5·8	1·0	007
5·4 ,, .	31	18·2	16·7	272	20	16·0	15·3	275	30	16·9	15·4	268					8	7·2	1·3	089	22	7·2	1·1	019
6·0 ,, .	31	19·1	18·3	271	17	15·7	14·8	274	30	18·8	16·6	268					5	6·3	2·9	304	21	8·1	1·3	335
7·2 ,, .	31	22·5	20·6	267	13	20·3	19·0	270	30	22·2	20·8	270					1	6·2	6·2	250	17	8·5	3·4	332
9·0 ,, .	27	28·4	27·8	269	5	24·7	24·0	275	25	27·8	25.5	273									11	8·5	7·2	288

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9·0 km. above mean sea level

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Station	BANGALORE				BAREILLY								BEGUMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·3	4·1	117	31	1·9	0·5	038	31	1·8	1·0	299	31	1·5	1·0	110	31	3·2	2·4	112	31	3·0	2·4	100
0·15 a. g.	31	9·0	8·5	120	30	6·2	1·2	031	31	4·4	2·6	298	31	4·8	3·3	128	31	4·0	3·0	103	31	7·2	5·8	108
0·3 a. m. s. l.					30	5·9	1·3	028	31	4·2	2·4	299												
0·6 ,,					29	6·8	2·0	296	31	5·3	3·3	301	31	3·4	2·4	126	31	3·9	2·8	108	31	4·8	3·9	107
0·9 ,,					29	6·4	2·9	291	31	5·5	3·5	301	31	6·6	4·4	143	31	4·9	3·0	104	31	8·0	6·7	114
1·5 ,,	31	9·0	7·6	111	29	6·4	4·7	289	31	6·2	4·5	296	30	6·2	3·0	132	31	4·2	1·7	121	31	5·9	3·4	109
2·1 ,,	31	4·8	2·0	068	28	7·2	6·0	298	31	7·6	5·9	286	30	5·3	1·2	310	31	4·5	0·6	181	31	4·5	1·1	307
3·0 ,,	26	4·3	2·8	355	26	10·2	9·0	288	31	9·7	7·7	286	29	6·4	4·4	305	29	6·5	3·9	268	28	6·3	4·3	292
3·6 ,,	23	5·3	2·2	028	21	11·6	10·2	284	30	11·8	10·2	286	28	6·1	3·7	289	29	5·8	5·0	269	25	6·9	4·8	294
4·5 ,,	15	6·2	3·4	077	15	14·7	12·6	277	29	14·2	12·5	281	28	7·3	5·3	274	23	7·9	6·1	280	15	6·4	4·5	280
5·4 ,,	9	4·7	2·9	104	9	15·2	13·9	264	24	15·7	13·9	282	25	9·1	7·3	282	22	8·5	7·3	268	10	6·9	5·7	254
6·0 ,,	7	6·5	1·7	097	4	13·9	12·8	275	23	16·3	14·5	274	24	10·0	7·1	277	18	11·3	10·3	266	5	7·8	4·8	262
7·2 ,,	2	6·4	5·6	315	1	16·0	16·0	295	19	21·2	20·0	270	16	11·4	8·4	273	14	12·3	10·4	266	3	12·9	9·4	282
9·0 ,,									7	23·0	21·5	265	6	12·5	7·2	299	12	14·8	13·8	271				

Station	BHAGALPUR												BHUBANESHWAR											
Time in I. S. T.	0530				1130				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·7	0·9	215	31	0·9	1·5	282	31	3·4	2·3	279	31	1·8	0·9	241	31	3·0	1·2	247	31	4·5	3·0	173
0·15 a. g.	29	6·1	1·7	245	31	4·8	2·3	289	31	5·8	3·7	288	29	5·3	3·4	227	31	4·8	1·4	227	31	6·2	4·2	173
0·3 a. m. s. l.	29	6·7	2·2	277	31	5·1	2·5	286	31	6·7	3·8	288	29	5·8	4·7	225	31	4·5	1·2	243	31	6·9	4·6	184
0·6 ,,	29	7·4	4·3	299	31	5·7	3·5	289	31	7·9	5·4	287	29	5·8	4·8	228	31	4·2	1·5	244	31	5·6	3·4	190
0·9 ,,	29	7·2	5·1	294	31	6·7	4·6	284	30	7·1	5·7	285	28	5·0	3·4	242	31	4·5	2·0	261	31	4·5	1·5	225
1·5 ,,	28	8·6	7·1	285	26	6·4	4·5	281	28	7·9	6·9	277	26	5·1	3·0	306	27	4·5	2·1	304	30	4·5	3·0	318
2·1 ,,	27	11·1	10·2	282	22	8.3	6·2	276	25	9·5	8·4	285	26	6·7	4·4	312	23	5·7	3·3	316	29	6·3	5·3	320
3·0 ,,	18	11·2	10·3	292	10	11·7	9·8	284	23	11·7	10·8	287	25	9·3	5·9	312	14	7·6	4·9	313	26	9·0	7·6	309
3·6 ,,	12	11·4	10·3	290					20	11·3	10·6	283	22	7·7	6·7	303					25	9·7	8·1	299
4·5 ,,	10	9·8	9·1	283					18	13·8	13·0	280	18	9·2	8·2	286					22	11·0	10·3	301
5·4 ,,	7	11·1	10·5	280					14	13·9	13·0	281	14	12·0	10·9	285					18	11·8	10·9	291
6·0 ,,	5	12·7	11·0	282					12	15·4	14·2	284	5	13·1	12·4	286					16	14·3	13·2	293
7·2 ,,	3	16·1	13·5	263					9	36·5	17·4	286									2	12·9	12·1	310
9·0 ,,									6	24·2	23·2	267												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Station	BHUBANESHWAR				BHUJ												BIKANER							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·4	2.9	207	31	0·9	0·7	304	31	3·8	2·3	310	31	2·4	1·9	267	31	1·1	0·5	207	31	1·3	0·5	252
0·15 a.g.	30	7·7	6·9	204	31	5·9	3·6	291	31	4·7	2·1	289	31	5·9	4·0	276	31	8·1	1·4	261	31	3·7	1·2	265
0·3 a. m. s. l	30	8·1	7·4	206	31	7·1	4·4	300	31	4·8	2·2	290	31	6·4	4·4	281	31	5·9	1·8	138	31	3·2	1·0	268
0·6 ,,	30	7·4	6·4	210	31	7·9	4·9	305	31	5·1	2·9	288	31	6·1	4·0	293	31	7·3	1·6	264	31	4·0	1·6	264
0·9 ,,	30	5·6	3·8	224	31	6·9	3·4	300	31	5·8	3·3	278	31	5·8	2·9	283	30	6·1	1·3	269	29	3·8	1·4	273
1·5 ,,	29	4·9	3·3	320	30	6·0	3·5	269	31	6·1	4·2	254	31	6·7	3·7	250	30	6·2	3·1	278	29	4·1	2·3	260
2·1 ,,	28	6·4	4·8	320	30	8·5	5·3	255	30	7·7	5·5	252	31	8·0	4·7	254	29	6·9	4·5	252	28	5·2	3·7	242
3·0 ,,	28	8·1	6·2	323	25	9·3	6·2	258	29	11·0	8·9	251	29	8·6	7·2	265	29	9·1	6·4	252	27	9·0	7·7	244
3·6 ,,	11	8·5	6·3	312	8	9·5	7·4	261	26	11·3	5·6	257	14	9·5	7·1	270	24	10·8	7·6	267	27	12·3	11·0	252
4·5 ,,					3	10·3	10·1	304	26	14·1	12·9	263	7	10·6	9·6	273	12	13·0	10·6	266	20	13·5	12·3	259
5·4 ,,									25	18·1	16·4	263					12	16·4	14·7	263	18	17·5	16·4	260
6·0 ,,									22	19·0	17·1	260					8	17·8	16·3	257	17	19·1	17·9	265
7·2 ,,									14	22·3	21·3	258					2	16·0	14·9	297	7	25·3	23·5	257
9·0 ,,									3	31·2	29·9	244									2	25·0	20·3	270

Station	BIKANER				CHIKALTHANA												COCHIN							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	0·4	040	31	1·6	0·7	299	31	2·4	1·5	303	31	3·1	1·7	358	31	1·0	0·8	089	31	4·2	3·7	282
0·15 a. g.	31	6·9	2·1	018	31	5·3	2·0	014	31	3·9	2·5	302	31	7·4	4·9	012	31	3·2	1·9	052	31	5·5	5·3	298
0·3 a. m. s. l	31	5·3	1·7	047													31	3·2	1·6	030	31	6·1	5·8	276
0·6 ,,	31	6·2	1·0	017													31	3·2	1·9	340	31	4·8	4·1	279
0·9 ,,	31	5·3	1·2	266	31	6·1	2·3	031	31	4·2	2·6	293	30	7·8	5·3	009	31	2·8	1·3	350	30	3·4	1·9	312
1·5 ,,	29	5·2	3·8	236	31	4·8	1·0	086	31	3·9	2·4	285	31	5·0	2·1	190	31	3·3	1·7	042	30	4·4	3·3	049
2·1 ,,	26	6·8	5·3	240	31	4·8	2·2	219	31	3·9	2·5	258	31	4·4	2·0	242	28	4·3	3·7	054	28	6·6	5·8	055
3·0 ,,	15	8·1	7·1	250	31	6·7	5·3	240	31	5·3	3·7	251	31	7·2	5·3	216	22	6·2	5·5	060	22	7·5	6·4	067
3·6 ,,	20	9·4	8·3	268	22	7·4	6·8	245	29	6·5	5·1	255	22	8·7	6·3	227	13	5·0	3·0	047	20	6·8	4·8	070
4·5 ,,	6	11·1	9·1	273	2	11·6	9·5	284	24	8·8	7·6	268	9	9.5	8·4	248	5	4·0	0·6	100	13	7·0	4·3	070
5·4 ,,	2	15·7	11·7	285					20	12·2	10·7	272	1	12·4	12·4	280					11	6·9	3·2	009
6·0 ,,									19	15·1	13·5	268									7	8·3	4·8	003
7·2 ,,									12	18·2	16·3	262									3	11·2	9·9	073
9·0 ,,									1	20·6	20·6	235												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Station	COCHIN				DARJEELING								DEHRA DUN								DUM DUM			
Time in I.S.T.	2330				0530				1730				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·5	0·7	325	31	0·1	0·1	157	31	1·7	1·5	258	31	0·9	0·7	029	31	1·5	0·9	250	31	0·8	0·6	215
0·15 a. g. .	20	2·7	1·3	317	11	2·4	0·7	124	4	4·4	4·4	236	28	2·2	1·4	058	31	3·6	1·9	232	31	4·1	2·7	246
0.3 a. m. s. l.	20	2·8	1·6	309																	31	4·2	3·1	248
0·6 ,, .	20	2·8	1·9	303																	31	4·3	2·7	264
0·9 ,, .	20	2·5	0·6	334									28	2·2	1·3	071	31	4·6	2·2	229	31	4·6	3·5	258
1·5 ,, .	19	3·7	2.2	073									28	2·9	0·5	180	31	3·3	1·4	225	31	4·9	3·7	289
2·1 ,, .	15	5·9	2·8	066									28	4·6	1·0	251	29	4·4	0·6	244	31	6·9	5·9	287
3·0 ,, .	11	6·6	5·6	061	11	5·3	2·9	291	4	7·1	6·9	287	27	7·1	3·4	265	29	6·5	2·2	265	31	8·9	7·9	293
3·6 ,, .	10	6·1	5·0	077	11	9·5	7·5	277	3	7·5	7·5	293	27	8·5	6·0	270	25	7·1	2·4	279	31	9·4	8·5	290
4·5 ,, .	5	3·5	2·9	156	8	8·9	8·4	274	2	17·8	17·8	277	16	10·5	8·4	272	19	9·3	6·9	279	31	10·8	10·0	280
5·4 ,, .	1	1·5	1·5	155	4	11·3	11·1	294					7	14·2	13·2	261	15	15·4	13·4	260	31	12·6	11·6	278
6·0 ,, .	1	1·0	1·0	130	4	11·5	11·4	286					4	13·6	13·3	245	12	19·7	17·9	266	31	13·5	13·2	296
7·2 ,, .					2	15·4	15·1	306					2	25·2	25·0	255	4	28·6	21·9	263	31	17·9	16·3	267
9·0 ,, .																	2	49·0	48·9	255	25	21·5	18·9	264

Station	DUM DUM												GADAG											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·9	1·0	274	31	1·4	1·0	197	31	1·9	1·1	192	31	2·3	0·4	227	31	2·7	0·3	175	31	4·4	2·7	259
0·15 a. g. .	31	3·5	2·0	285	31	4·1	1·7	234	31	5·9	2·7	211	31	5·1	1·5	357	31	3·8	0·4	120	31	7·9	3·0	271
0·3 a. m. s. l.	31	3·2	1·8	278	31	4·4	2·1	242	31	6·0	3·2	225												
0·6 ,, .	31	3·9	2·6	279	31	4·4	2·7	270	31	5·0	3·0	249												
0·9 ,, .	31	5·0	3·5	280	31	4·1	2·9	269	31	4·9	3·7	274	31	5·9	2·1	026	31	3·7	0·4	125	31	8·0	2·7	288
1·5 ,, .	28	6·4	5·1	287	31	5·0	4·2	291	29	6·8	6·0	300	31	5·6	1·0	069	31	3·5	0·1	144	31	6·2	0·7	036
2·1 ,, .	28	9·2	7·7	290	31	6·8	5·9	299	29	10·0	8·9	305	31	4·3	1·3	157	31	3·5	0·3	169	31	4·9	2·6	079
3·0 ,, .	25	10·9	9·3	295	31	8·8	7·8	297	28	11·4	10·2	303	30	4·2	1·3	203	26	3·7	1·2	263	31	3·7	2·4	085
3·6 ,, .	23	12·2	10·7	300	31	9·5	8·3	295	9	10·6	9·4	301	29	4·5	0·9	272	25	4·1	1·8	286	28	4·1	1·2	095
4·5 ,, .	21	13·7	13·1	293	31	11·7	10·5	288	2	8·5	7·4	301	19	6·6	4·0	290	22	4·6	1·9	270	19	5·3	1·1	252
5·4 ,, .	19	16·2	15·1	289	31	14·2	12·9	280					8	6·9	2·4	304	17	7·6	1·5	262	11	6·6	4·7	260
6·0 ,, .	17	17·1	16·3	287	30	15·2	14·3	282					2	1·8	1·7	332	16	9·2	3·3	274	8	8·2	7·0	259
7·2 ,, .	7	24·8	24·5	276	29	18·9	17·2	273									15	11·6	5·6	271	2	7·2	1·4	242
9·0 ,, .	1	28·3	28·3	260	25	22·9	18·6	271									8	10·6	7·2	296				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

March 1960 (Phalguna 11 1881—Chaitra 11, 1882 Saka)

Station	GANNAVARAM												GAUHATI											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·9	1·7	089	31	3·7	3·2	139	31	2·6	1·9	143	31	0·9	0·3	090	31	2·3	1·5	340	31	1·7	0·8	288
0·15 a. g.	31	4·1	3·0	136	31	4·7	4·0	142	31	5·7	4·9	153	31	3·0	1·0	108	31	3·2	1·8	343	31	4·4	2·2	292
0·3 a. m. s. l.	31	4·7	3·9	158	31	5·0	4·4	142	31	5·9	5·3	153	31	3·0	0·5	135	31	3·2	1·6	336	31	4·5	2·3	290
0·6 „	30	5·2	4·6	166	31	4·7	4·0	143	31	5·5	5·0	143	31	3·7	0·5	230	31	3·1	1·1	313	31	4·8	3·1	267
0·9 „	30	5·1	4·3	151	31	4·0	3·0	141	31	4·8	3·7	127	31	4·5	1·2	231	31	3·8	1·8	262	31	5·3	3·5	262
1·5 „	29	5·1	2·5	098	31	4·3	1·4	080	31	5·0	1·7	052	31	6·0	3·6	250	29	7·2	5·3	246	31	6·8	5·1	242
2·1 „	29	5·7	2·8	020	31	6·0	3·0	017	31	5·8	3·2	018	31	6·8	5·6	265	29	9·3	7·6	251	31	8·2	6·9	240
3·0 „	27	6·5	4·0	327	31	6·6	4·0	342	29	6·3	2·9	330	31	10·8	9·9	270	26	11·6	9·6	258	31	10·7	9·5	255
3·6 „	26	6·5	4·3	304	26	6·2	3·5	317	25	6·4	4·6	287	31	13·1	11·9	271	23	13·7	12·4	269	31	12·9	11·6	263
4·5 „	23	7·1	4·1	298	26	6·7	3·6	305	15	6·3	2·9	286	31	15·0	14·[illegible]	274	20	17·5	16·4	271	31	16·0	14·6	273
5·4 „	20	8·2	4·6	275	25	9·6	6·3	289	9	6·0	4·9	272	31	17·9	16·7	276	17	16·4	15·0	275	31	17·7	16·3	273
6·0 „	13	8·4	5·5	274	24	10·0	6·3	284	7	6·6	4·2	281	31	19·0	17·8	278	14	16·4	15·0	276	31	19·2	17·5	274
7·2 „	8	9·5	5·9	287	23	13·0	9·1	288					31	24·2	22·4	279	10	17·2	15·5	277	31	23·5	21·3	276
9·0 „	5	13·3	11·6	273	19	16·9	14·8	291					26	32·4	29·7	270	7	20·1	17·2	293	24	26·7	24·0	273

Station	GAUHATI				GAYA																GOPALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·1	0·6	177	31	2·2	1·2	206	31	4·0	2·3	299	31	4·3	2·1	316	31	2·0	0·4	161	31	1·3	0·8	264
0·15 a. g.	31	3·2	1·3	194	30	6·1	2·9	240	31	4·5	2·2	302	31	5·3	2·5	314	29	6·7	1·5	341	31	5·5	4·1	230
0·3 a. m. s. l.	31	3·7	1·2	232	30	6·3	2·6	255	31	4·4	1·9	303	31	5·5	2·6	312	29	6·6	1·7	336	31	5·1	4·2	225
0·6 „	31	4·3	2·1	244	30	6·7	2·9	292	29	4·2	1·9	287	31	6·0	3·5	301	29	6·4	3·3	306	31	4·6	3·9	227
0·9 „	31	5·0	3·4	254	30	7·3	4·3	299	29	4·7	2·5	283	31	6·2	4·0	291	29	6·6	4·5	290	31	4·3	2·8	232
1·5 „	28	6·0	5·5	257	28	8·0	5·2	294	26	7·1	4·8	293	31	8·2	6·0	276	27	7·8	6·5	289	31	4·2	1·9	320
2·1 „	22	7·0	5·7	262	25	8·6	7·1	289	21	10·1	8·7	288	30	9·9	8·9	283	20	10·1	8·0	296	31	6·6	3·1	315
3·0 „	9	7·1	5·8	278	12	10·0	9·4	297	8	9·8	8·1	286	29	12·4	11·2	284	7	9·6	8·3	309	30	8·6	5·7	318
3·6 „	2	7·2	7·2	305	8	10·4	9·8	288					24	12·7	11·8	285	2	7·2	7·2	278	28	8·2	6·2	303
4·5 „	1	13·4	13·4	310	6	12·8	11·5	292					18	13·7	12·9	285					27	9·2	6·2	272
5·4 „					1	14·4	14·4	315					15	13·8	13·1	285					20	10·2	8·7	288
6·0 „													11	14·9	14·1	286					16	9·7	8·6	282
7·2 „													5	17·8	15·1	285					4	12·6	11·5	304
9·0 „													1	13·9	13·9	315					2	11·6	11·3	277

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

March 1960 (Phalguna 11 1881—Chaitra 11, 1882 Saka)

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	6·4	6·1	195	31	5·0	4·5	205	31	2·2	0·6	275	31	2·6	1·6	285	31	1·1	0·2	275	31	2·5	1·3	326
0·15 a. g.	31	7·5	7·0	185	31	7·8	7·4	208	30	7·6	2·8	306	29	5·1	3·7	284	31	5·3	1·1	078	30	4·1	2·1	337
0·3 a. m.s.l.	31	7·8	7·1	180	31	7·6	7·3	209	30	8·0	2·8	306	29	6·2	4·3	281	31	4·2	0·4	087	30	3·9	1·9	237
0.6 ,,	31	5·3	4·3	171	31	6·5	5·6	200	29	8·6	4·2	300	29	7·2	5·6	279	30	5·9	1·1	081	30	3·8	1·9	321
0·9 ,,	31	4·1	1·3	160	31	4·9	3·4	190	28	8·5	5·1	298	29	7·6	6·2	278	30	5·3	0·3	350	30	4·2	2·2	302
1·5 ,,	31	4·5	2·3	335	31	4·2	0·9	332	28	9·3	7·8	292	28	8·7	7·8	283	30	5·8	2·9	278	30	5·0	3·5	279
2·1 ,,	31	6·4	4·7	322	30	5·3	3·3	327	27	10·5	9·4	292	28	11·7	10·9	288	30	7·8	6·1	277	29	6·3	4·9	268
3·0 ,,	29	8·6	7·1	315	28	7·4	6·3	308	18	13·6	13·1	288	26	14·0	13·4	295	28	10·6	9·4	271	29	9·9	6·5	262
3·6 ,,	25	8·7	7·4	305	23	7·6	4·9	324	15	12·5	12·0	288	26	14·8	14·4	294	26	12·6	11·1	267	27	11·8	10·5	267
4·5 ,,	25	10·0	9·3	307	6	9·0	8·3	308	7	11·9	11·3	270	25	15·4	14·8	292	24	14·4	12·6	270	22	15·5	14·5	272
5·4 ,,	23	12·0	10·3	280	1	11·8	11·8	280	5	14·3	13·7	267	20	15·9	15·5	289	22	16·2	14·8	270	20	17·4	16·6	273
6·0 ,,	22	13·7	11·7	277	1	17·5	17·5	270	3	18·3	18·3	258	18	18·0	17·5	284	19	17·2	16·2	271	19	18·7	17·7	275
7.2 ,,	17	16·1	12·9	272									14	19·5	18·2	282	13	20·0	17·4	274	17	23·8	22·3	268
9·0 ,,	6	16·7	14·2	280									2	20·6	20·5	283	5	21·3	20·1	287	2	25·5	25·4	287

Station	GWALIOR				IMPHAL																JABALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	0·3	289	31	0·4	0·2	271	31	3·7	2·9	229	31	2·8	2·2	259	31	0·6	0·4	231	31	1·0	0·8	231
0·15 a. g.	31	6·0	2·4	039	27	1·3	0·4	144	31	4·7	3·6	219	30	4·8	4·4	250	29	2·2	1·1	252	31	5·5	2·9	122
0·3 a. m. s.l.	31	4·9	1·8	039																				
0·6 ,,	31	6·1	1·7	009																	31	6·2	2·9	123
0·9 ,,	31	6·2	1·6	294	27	1·2	0·3	173	31	5·0	4·2	224	30	4·5	4·1	248	29	2·0	0·8	241	31	5·8	7·7	110
1·5 ,,	30	6·6	4·1	266	27	3·6	2·3	281	31	4·9	4·0	239	30	6·4	6·0	259	29	4·6	4·2	277	30	5·5	2·5	289
2·1 ,,	29	7·4	5·8	256	25	6·5	5·1	269	26	5·9	4·1	273	30	6·4	5·8	261	28	7·8	6·8	265	30	7·1	5·5	283
3·0 ,,	29	9·7	8·1	257	18	7·9	6·3	271	12	7·9	6·8	283	23	7·6	6·9	271	21	9·4	7·8	269	30	9·4	7·8	283
3·6 ,,	15	11·8	10·4	261	12	9·8	8·7	275	3	7·6	3·7	327	17	11·3	10·5	274	3	8·2	4·9	357	27	11·6	10·5	274
4.5 ,,					10	11·4	9·0	272					13	14·4	13·6	271					22	14·5	12·6	279
5·4 ,,					7	14·5	11·3	282					7	16·6	15·1	278					11	14·9	13·4	281
6·0 ,,					2	18·3	17·8	274					4	16·6	13·4	281					6	16·0	14·1	287
7·2 ,,					1	19·0	19·0	305					2	34·4	34·4	274					3	21·0	13·1	275
9·0 ,,					1	31·8	31·8	275					1	25·7	25·7	270					1	22·1	22·1	255

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Station	JABALPUR								JAGDALPUR												JAIPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·7	0·9	285	30	1·2	0·3	129	31	0·6	0·1	195	31	2·3	0·3	014	31	1·1	0·6	205	31	1·8	0·8	035
0·15 a. g.	31	3·4	1·9	288	30	6·6	1·7	090	31	4·5	1·7	183	31	4·4	4·1	062	31	0·6	0·6	173	31	5·6	2·0	037
0·3 a. m. s. l.																								
0·6 ,,	31	3·6	1·9	289	30	6·7	1·7	077	31	2·4	0·9	180	31	3·2	0·3	127	31	4·5	0·5	168	31	5·2	1·1	045
0·9 ,,	31	4·4	2·5	286	29	6·4	1·1	308	31	5·1	1·6	201	31	4·6	0·6	355	31	5·9	0·5	315	31	6·2	1·3	256
1·5 ,,	30	4·4	2·6	297	29	4·9	2·1	294	31	4·5	0·6	270	31	3·5	1·2	322	31	4·3	1·3	315	31	6·4	4·3	256
2·1 ,,	29	5·3	4·0	288	29	5·7	4·0	278	30	6·5	2·7	315	31	3·9	1·9	315	30	4·2	1·6	322	30	6·6	4·9	260
3·0 ,,	29	9·0	7·8	280	29	7·6	6·5	273	27	8·5	5·3	319	27	5·7	3·2	311	28	6·3	4·8	301	30	8·7	7·3	259
3·6 ,,	27	11·5	10·5	273	22	10·8	9·9	273	26	8·9	6·7	303	22	7·4	5·5	307	16	7·1	5·6	302	25	10·9	9·2	255
4·5 ,,	26	13·9	13·0	274	8	13·9	12·9	265	23	9·8	8·2	287	22	9·1	8·1	296					9	11·4	9·9	262
5·4 ,,	23	17·5	16·3	279					12	9·7	7·6	274	19	11·9	10·7	279					1	24·2	24·2	260
6·0 ,,	22	19·1	18·1	277					8	9·5	7·1	303	17	13·5	11·9	276								
7·2 ,,	14	22·4	20·5	267					1	7·7	7·7	290	11	16·2	14·1	290								
9·0 ,,	4	24·5	23·5	310									2	19·8	18·6	280								

Station	JAIPUR								JAMSHEDPUR												JHARSUGUDA			
Time in I.S.T.	1730				2330				0530				1130				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·8	1·5	270	31	1·6	0·5	008	31	1·0	0·6	296	31	2·2	1·3	273	31	2·5	1·2	291	31	1·6	0·7	032
0·15 a. g.	30	5·0	2·5	266	29	5·7	1·7	328	31	3·0	2·2	269	31	3·1	1·8	268	31	3·7	2·0	298	28	4·6	2·3	055
0·3 a. m. s. l.									31	3·1	2·2	264	31	3·1	1·3	268	31	3·6	1·9	300	28	4·0	1·1	009
0·6 ,,	30	5·1	2·8	266	29	6·5	1·7	340	31	4·5	2·9	275	31	3·4	1·6	264	31	4·0	2·4	295	28	4·6	1·1	050
0·9 ,,	30	4·9	2·9	256	29	5·5	1·9	293	31	5·8	3·4	279	31	3·9	2·2	267	31	4·2	2·9	294	27	4·7	1·0	359
1·5 ,,	30	5·0	3·2	259	29	4·9	3·4	260	30	7·5	5·3	289	30	6·5	4·8	279	30	5·1	4·3	285	27	4·9	2·4	307
2·1 ,,	30	6·2	4·2	254	29	6·4	5·1	250	29	7·9	6·7	282	27	7·7	6·2	288	30	7·0	6·1	290	27	6·3	5·1	299
3·0 ,,	27	10·0	8·2	256	27	9·5	8·1	252	23	10·5	9·6	300	18	10·6	9·4	304	27	9·7	9·0	293	27	8·9	6·6	296
3·6 ,,	24	12·5	10·6	253	23	11·5	10·1	259	19	12·8	12·0	293					21	11·1	10·5	295	19	10·4	8·5	306
4·5 ,,	19	16·2	14·7	254	11	13·9	13·0	267	8	12·6	12·4	290					16	14·2	13·9	290				
5·4 ,,	16	18·8	17·2	261	3	18·7	18·5	272	4	11·1	10·8	282					12	15·2	14·8	283				
6·0 ,,	13	20·9	19·9	259	2	17·0	16·9	276	2	10·8	10·3	282					10	16·2	15·5	282				
7·2 ,,	9	23·0	16·5	275													7	17·3	16·9	284				
9·0 ,,	2	54·3	53·0	259													2	20·1	20·0	293				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Station	JHARSUGUDA								JODHPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·9	0·8	234	31	1·9	0·7	096	31	2·4	0·8	358	31	3·1	0·1	218	31	2·9	1·6	246	31	3·1	1·3	299
0·15 a. g.	31	3·3	1·3	249	30	4·5	1·0	188	31	7·8	2·8	010	31	4·6	1·4	227	31	5·9	2·9	296	31	7·7	3·0	276
0·3 a. m. s. l.	31	3·5	1·3	247	30	4·1	1·1	122	31	7·1	2·8	022	31	3·8	0·8	240	31	5·7	2·8	292	31	6·6	2·3	284
0·6 ,,	31	3·4	1·6	269	30	4·7	0·8	251	31	7·1	1·7	327	31	4·9	1·2	219	31	4·8	2·7	265	31	6·9	2·9	275
0·9 ,,	31	3·2	1·7	285	29	4·7	1·4	280	31	6·3	2·6	278	31	5·3	2·5	236	31	4·8	3·1	249	31	5·5	2·9	258
1·5 ,,	31	3·9	3·2	294	29	4·5	2·2	297	31	6·1	3·9	256	30	6·1	3·6	243	31	4·8	3·1	240	30	5·0	3·2	240
2·1 ,,	31	6·2	4·6	293	27	6·0	4·2	300	31	7·8	5·8	249	30	8·0	5·8	247	31	5·6	4·2	263	29	6·1	4·9	235
3·0 ,,	29	9·6	8·3	300	25	7·0	5·8	307	31	10·6	8·9	252	28	12·1	9·8	245	31	10·0	8·3	250	20	8·0	6·3	243
3·6 ,,	28	9·6	8·3	294	23	8·9	8·0	301	31	11·9	10·1	252	24	13·1	10·2	243	31	11·9	10·6	250	8	11·5	10·5	254
4·5 ,,	20	10·2	9·8	295					30	15·1	13·1	255	23	15·6	13·8	255	31	14·6	13·2	259	2	13·1	13·0	243
5·4 ,,	5	14·6	13·4	303					30	17·0	13·5	259	19	15·4	14·4	258	30	18·9	17·6	259				
6·0 ,,									30	19·6	17·4	260	18	18·5	17·3	265	29	20·9	19·0	262				
7·2 ,,									29	26·2	23·6	266	11	25·2	24·2	264	27	28·1	23·7	265				
9·0 ,,									26	35·6	32·9	265	3	35·5	35·0	278	25	31·9	28·8	266				

Station	MADRAS																MINICOY							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·6	1·3	182	31	3·3	2·7	119	31	5·1	4·5	112	31	2·8	2·7	127	31	2·4	2·0	352	31	2·4	1·8	354
0·15 a. g.	30	5.5	4·7	193	31	3·2	2·8	133	31	8·5	7·9	116	31	5·2	5·0	130	31	4·0	3·3	357	31	4·0	3·2	002
0·3 a. m. s. l.	30	5·3	4·3	193	31	3·5	3·1	143	31	7·4	6·9	121	31	5·6	5·3	128	31	3·8	3·1	001	31	4.1	3.4	003
0·6 ,,	30	5·3	4·8	193	31	3·3	2·5	213	31	5·5	4·8	123	31	5·0	4·4	119	31	3·7	2·8	006	31	4·0	3·3	008
0·9 ,,	30	5·2	4·8	109	30	3·4	2·1	140	31	4·4	2·9	107	30	4·1	2.8	099	31	3·7	2·2	034	30	3·8	2·8	035
1·5 ,,	30	5·3	3·9	137	27	5·7	4·2	068	30	4·8	3·6	060	30	4·6	3·4	059	30	5·3	4·8	079	30	5·1	4·3	067
2·1 ,,	30	5·4	4·5	091	23	7·7	6·8	051	30	6·3	5·0	050	29	5·8	4·4	040	26	6·4	6·0	084	29	6.3	5.7	072
3·0 ,,	30	7·1	5·8	075	22	6·2	5·3	050	29	7·1	5·9	033	29	5·3	3·7	028	23	5·5	4·6	082	28	5·8	4·7	072
3·6 ,,	30	7·0	5·5	070	21	5·9	3·8	058	30	6·0	4·0	025	20	4·5	2·0	355	19	5·6	4·4	088	20	5·4	3·0	086
4·5 ,,	30	5·4	4·5	076	19	5·8	2·7	080	28	6·0	1·3	343	9	6·6	1·9	262	17	6·1	4·8	095	14	5·6	3·7	065
5·4 ,,	29	5·1	3·9	295	18	8·0	3·1	068	27	7·3	0·6	306	3	8·9	8·2	289	14	7·7	5·9	092	13	4·9	3·4	066
6·0 ,,	29	5·5	3·5	105	18	7·6	2·2	069	26	7·9	1·9	348	1	5·7	5·7	310	9	8·5	4·7	071	13	6·1	4·5	077
7·2 ,,	29	6·7	3·1	158	18	7·5	0·8	064	29	9·2	2·4	345					1	7·2	7·2	230	9	10·0	5·3	068
9·0 ,,	27	6·2	3·6	230	12	9·6	6·3	305	26	11·1	7·1	305									4	8·2	1·7	015

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Station	MINICOY				MOHANBARI																NAGPUR			
Time in I. S. T.	2330				0530				1130				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	1·6	346	31	5·0	0·5	057	31	0·7	0·7	015	31	1·2	0·9	041	31	0·5	0·5	040	31	0·5	0·4	334
0·15 a. g.	30	3·5	2·7	352	28	4·5	3·6	019	29	2·1	1·2	015	31	3·2	1·8	035	30	4·0	2·6	036	31	5·6	1·8	087
0·3 a. m. s. l.	30	3·3	2·6	357	28	4·5	3·7	047	29	2·2	1·2	017	31	3·3	1·9	039	30	3·9	1·6	040				
0·6 ,,	30	3·2	2·3	008	28	4·5	2·2	052	29	2·3	1·3	063	31	2·7	1·1	052	30	3·3	1·6	070	31	5·7	1·3	097
0·9 ,,	30	3·4	2·0	041	28	2·7	0·5	128	29	2·0	0·5	121	31	2·5	0·2	012	30	2·7	1·2	127	31	5·9	1·0	111
1·5 ,,	30	5·1	4·4	073	28	3·3	1·8	235	28	3·9	2·8	229	28	3·6	2·1	221	29	2·6	1·9	204	31	5·6	0·8	213
2·1 ,,	30	7·5	6·9	076	26	4·5	3·1	227	25	5·3	3·9	229	25	5·3	4·3	221	28	5·0	4·3	232	31	5·6	3·4	262
3·0 ,,	26	6·2	5·6	080	22	6·9	5·9	242	15	5·2	4·0	221	23	7·5	6·2	231	21	7·7	6·4	238	31	8·5	6·9	273
3·6 ,,	18	4·9	4·4	083	13	6·8	5·4	259					21	7·9	5·8	234	9	6·2	6·2	243	31	10·3	8·7	269
4·5 ,,	6	5·9	5·5	100	10	9·8	6·8	276					11	10·0	7·1	251	3	9·3	9·0	240	31	12·6	11·7	269
5·4 ,,					7	12·1	9·3	269					7	9·4	5·3	306	2	5·4	4·8	269	31	15·8	15·2	272
6·0 ,,					6	9·9	7·0	284					7	10·4	6·7	296					31	17·8	16·5	271
7·2 ,,					1	16·6	16·5	295					4	10·8	7·7	300					31	22·3	20·5	271
9·0 ,,					1	23·2	23·2	295					2	19·6	19·4	276					27	29·3	27·3	272

Station	NAGPUR												NANPARA								NEW DELHI			
Time in I. S. T.	1130				1730*				2330				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	0·4	327	31	2·2	0·3	354	31	1·2	0·2	065	31	1·8	0·8	297	31	2·2	1·4	291	31	1·9	0·7	312
0·15 a. g.	31	3·1	1·2	220	31	4·3	0·9	008	30	6·0	3·1	116	30	7·2	1·7	337	31	5·5	3·4	305	31	6·5	2·1	335
0·3 a. m. s. l.													30	7·2	1·9	336	31	5·6	3·5	304	31	5·8	1·4	248
0·6 ,,	31	3·3	1·0	192	31	3·9	0·7	355	30	5·9	2·6	123	30	7·6	2·9	322	31	6·2	4·5	297	31	6·1	1·5	325
0·9 ,,	30	3·8	1·4	185	31	3·5	0·5	285	30	5·0	1·2	130	30	7·5	4·1	311	31	6·6	5·2	292	31	6·0	2·6	304
1·5 ,,	30	4·7	1·9	215	31	3·9	1·2	259	30	3·6	1·3	275	29	7·2	6·2	307	30	7·8	7·1	294	30	6·7	4·8	282
2·1 ,,	30	6·1	3·0	260	31	5·3	2·8	263	30	4·7	3·8	290	29	9·6	9·0	301	28	8·7	8·2	294	30	7·7	6·0	284
3·0 ,,	29	7·6	5·2	270	31	8·0	6·7	270	28	7·4	6·4	278	25	11·6	10·7	290	28	10·6	9·9	295	30	8·6	7·2	281
3·6 ,,	27	9·1	8·1	271	31	9·3	8·3	271	12	9·3	8·9	280	18	11·9	10·7	292	28	12·1	11·5	295	30	10·8	9·2	278
4·5 ,,	26	12·6	11·1	272	31	11·3	10·0	265	5	7·9	7·4	278	13	10·6	9·6	291	24	14·4	13·4	291	30	13·6	11·3	268
5·4 ,,	26	13·9	11·1	271	31	14·5	13·6	268	2	11·8	11·1	255	6	13·2	11·8	292	22	16·2	15·5	284	30	16·0	13·9	271
6·0 ,,	24	15·7	14·5	272	31	16·2	15·1	263					4	14·4	12·8	295	20	17·9	17·5	283	30	17·7	15·4	270
7·2 ,,	19	20·4	18·2	274	31	20·2	18·1	271					3	17·3	12·2	266	14	21·8	20·9	281	29	21·8	19·9	269
9·0 ,,	9	27·1	24·8	274	30	29·7	27·1	273					1	15·4	15·4	255	4	23·7	23·4	283	27	25·9	24·1	270

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level.

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Station	NEW DELHI												POONA											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	3·3	0·3	337	30	1·9	0·3	290	31	3·5	1·7	343	31	0·6	0·5	247	31	2·1	1·7	298	31	0·8	0·7	274
0·15 a. g.	30	4·1	0·6	042	30	5·4	2·6	325	29	5·9	2·6	020	31	3·1	1·6	305	31	4·7	3·6	287	31	4·5	4·2	293
0·3 a. m. s. l.	30	3·9	0·6	016	30	5·2	2·4	326	29	5·3	2·3	080												
0·6 ,,	30	4·4	0·8	236	30	4·4	2·0	318	29	5·3	2·0	330	31	1·7	1·2	244	31	3·3	2·5	296	31	2·0	1·7	272
0·9 ,,	30	5·2	1·6	256	30	4·1	2·2	286	29	5·1	2·5	285	31	4·1	2·2	338	31	4·7	3·9	290	31	5·1	4·8	303
1·5 ,,	30	6·5	3·8	266	30	5·1	2·9	274	29	5·3	4·0	269	31	5·5	2·0	003	31	5·0	4·1	284	31	5·5	3·9	293
2·1 ,,	30	7·3	4·7	267	30	6·2	4·4	277	27	6·1	4·8	264	30	4·8	1·4	228	31	4·2	2·9	288	31	4·5	0·9	245
3·0 ,,	29	9·0	6·8	263	30	9·6	7·3	276	22	8·1	6·4	269	30	6·5	4·3	232	30	5·8	3·2	253	31	6·8	3·2	178
3·6 ,,	28	10·8	8·8	261	30	11·7	9·9	317	3	5·1	3·7	300	22	7·4	5·5	234	29	6·6	3·3	251	28	6·2	3·3	213
4·5 ,,	27	14·5	12·4	265	30	13·8	12·1	275					11	7·2	4·7	276	28	8·2	6·2	263	16	8·2	5·9	253
5·4 ,,	23	16·2	7·2	276	30	16·6	14·8	271					4	6·4	4·0	283	25	11·4	9·4	269	10	9·7	8·3	242
6·0 ,,	22	18·6	16·6	266	30	18·1	16·9	268					1	5·7	5·7	190	24	14·1	12·0	267	4	8·6	6·3	233
7·2 ,,	15	24·2	22·4	260	30	22·0	20·7	267					1	5·1	5·1	180	20	20·0	16·7	273	3	7·9	4·6	217
9·0 ,,	2	26·2	25·7	275	29	31·8	28·1	267									5	19·4	16·3	261				

Station	PORT BLAIR																RAIPUR							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	0·7	0·5	310	31	2·4	2·2	054	31	1·4	0·9	066	31	1·6	1·0	354	31	1·4	0·6	012	31	1·9	0·9	294
0·15 a. g.	31	4·1	2·7	006	31	3·0	2·8	048	31	3·9	2·9	061	31	2·8	2·3	020	29	4·4	1·6	026	31	3·3	1·6	305
0·3 a. m. s. l.	31	3·9	1·6	018	31	3·0	2·6	039	31	3·8	2·8	058	31	3·0	2·6	031								
0·6 ,,	31	3·2	1·9	028	31	2·8	1·6	006	31	3·2	1·9	015	31	3·2	2·7	039	29	4·9	1·0	032	31	3·4	2·1	303
0·9 ,,	31	3·0	0·9	038	30	2·7	1·3	001	31	8·0	2·0	350	31	3·0	1·7	047	29	4·4	0·6	015	31	3·3	2·0	292
1·5 ,,	31	3·1	0·5	157	30	3·2	1·2	103	31	3·5	0·6	045	31	3·0	0·3	157	29	4·7	2·2	281	31	3·7	2·3	284
2·1 ,,	31	3·4	0·5	122	30	3·7	1·8	129	31	4·0	1·0	130	28	3·3	0·8	169	29	6·0	4·3	282	31	6·0	3·5	276
3·0 ,,	31	3·8	0·8	122	30	3·8	1·0	140	31	4·7	0·9	196	26	3·5	1·5	112	27	7·3	6·0	300	29	7·3	5·6	289
3·6 ,,	30	4·5	0·7	088	28	4·3	0·6	148	31	4·5	0·6	232	20	3·9	1·1	113	19	8·8	7·7	293	27	8·9	7·1	288
4·5 ,,	29	3·6	0·5	357	28	5·1	0·5	077	31	5·3	1·2	037	11	3·7	1·1	031	3	8·1	6·7	283	22	9·7	9·0	289
5·4 ,,	29	4·5	0·5	339	28	6·9	1·0	017	31	7·3	1·8	010	3	5·7	5·0	306	1	13·4	13·4	250	22	11·7	11·0	278
6·0 ,,	29	7·5	1·1	340	26	7·6	1·0	329	31	8·0	1·1	321	1	1·5	1·5	295	1	14·4	14·4	260	18	14·9	14·1	277
7·2 ,,	28	7·9	1·4	331	15	8·9	2·6	280	29	9·7	2·5	296									9	17·0	15·1	265
9·0 ,,	26	10·1	5·1	258	6	14·3	11·8	278	25	11·6	6·6	258									1	12·4	12·4	230

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Station	RAIPUR				RAXAUL												SANTA CRUZ							
Time in I.S.T.	2330				0530				1130				1730				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	0·4	300	31	0·6	0·3	035	31	2·2	0·4	107	31	2·1	0·4	245	30	0·7	0·3	059	31	2·6	1·3	338
0·15 a. g.	29	4·9	0·9	337	31	5·3	0·7	344	31	4·8	0·9	236	31	6·0	2·9	252	30	5·0	2·9	005	31	3·7	2·7	329
0·3 a. m. s. l.					31	6·0	1·0	316	31	5·1	0·7	216	31	6·4	3·2	263	30	5·1	3·1	007	31	3·2	2·2	353
0·6 „	29	4·6	0·8	336	31	7·3	2·6	284	31	5·5	0·9	239	31	7·8	4·2	207	30	6·1	4·4	007	31	3·4	2·2	020
0·9 „	29	3·7	1·1	316	31	7·6	3·5	280	30	6·3	3·3	280	31	7·9	4·6	274	30	7·3	6·4	013	31	3·9	2·4	031
1·5 „	29	3·6	1·2	309	29	6·6	4·0	282	26	6·4	4·3	276	28	7·4	5·3	274	30	7·1	6·3	001	30	4·7	0·9	325
2·1 „	28	4·5	2·3	295	29	6·4	5·3	290	21	7·2	5·5	285	25	7·5	5·9	285	29	5·6	3·0	347	30	5·7	2·6	240
3·0 „	27	6·9	4·9	296	18	9·2	9·1	291	16	10·5	9·3	290	22	10·1	8·4	272	29	6·1	3·2	184	29	7·7	5·7	219
3·6 „	18	8·0	6·5	304	13	8·3	7·6	286					20	12·0	11·4	284	29	7·5	6·7	209	28	7·8	6·4	232
4·5 „	3	9·3	9·0	269	9	9·8	7·8	285					16	13·0	12·1	283	29	6·0	3·0	186	27	8·7	7·2	257
5·4 „	1	10·8	10·8	255	5	13·5	12·1	290					10	11·7	11·1	285	29	7·9	4·4	246	24	12·6	11·1	263
6·0 „					2	11·6	11·5	257					7	13·0	11·8	294	29	9·0	6·4	221	22	14·9	13·2	264
7·2 „					2	14·4	14·4	255					5	18·3	16·1	300	27	12·8	7·1	271	18	18·3	15·1	267
9·0 „													2	26·7	26·1	304	25	19·9	16·5	257	9	22·6	20·6	260

Station	SANTA CRUZ								TEZPUR															
Time in I. S.T.	1730*				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·3	5·1	319	31	2·1	1·8	339	31	0·6	0·5	051	31	1·3	0·7	091	31	0·7	0·2	296	31	0·8	0·2	077
0·15 a. g.	31	8·0	7·5	324	31	5·8	5·6	338	30	4·3	3·6	071	31	3·0	1·9	083	31	3·5	1·6	274	29	5·1	1·9	110
0·3 a. m. s. l.	31	7·7	7·4	326	31	6·5	6·1	339	30	4·7	3·7	085	31	3·4	2·4	081	31	3·5	1·7	272	29	4·8	2·0	129
0·6 „	31	6·9	6·4	326	31	6·4	5·9	312	30	4·3	2·2	095	31	3·0	2·2	096	31	4·0	2·1	274	29	3·9	1·4	225
0·9 „	31	4·8	3·2	326	31	4·9	4·3	338	30	3·9	0·9	139	31	3·2	1·9	136	31	4·5	2·8	259	29	4·8	4·0	253
1·5 „	31	5·0	1·9	307	31	4·8	2·2	310	30	4·1	2·6	241	29	4·2	2·6	234	31	6·5	5·3	244	29	6·6	5·9	252
2·1 „	31	5·5	2·7	253	31	4·1	2·6	257	30	5·7	4·6	252	25	5·7	4·3	241	29	8·8	7·6	238	25	7·4	6·4	250
3·0 „	31	7·5	4·1	230	30	7·7	4·0	204	27	8·9	8·0	264	18	7·1	4·4	263	25	10·4	9·1	242	15	7·1	5·3	258
3·6 „	31	7·7	5·7	230	24	8·1	4·8	224	21	10·5	9·9	268					22	9·8	8·1	253	9	6·7	4·8	266
4·5 „	31	8·7	7·2	257	15	8·3	6·7	263	15	12·1	11·1	272					16	9·6	8·3	269	3	4·9	4·9	285
5·4 „	30	12·4	11·0	266	6	11·2	8·3	270	9	12·4	10·9	264					11	12·5	10·7	267	3	8·0	7·8	309
6·0 „	30	16·3	14·9	269	3	12·5	10·5	305	7	12·4	10·5	276					10	13·7	11·6	278	3	7·5	6·6	329
7·2 „	30	20·1	14·9	271					3	19·4	16·7	302					5	11·6	10·2	311	2	8·7	7·3	322
9·0 „	26	26·8	24·5	273					3	25·6	25·0	306					4	21·5	20·6	307				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Station	TIRUCHIRAPALLI												TRIVANDRUM											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	1·1	048	31	3·4	3·1	087	31	3·8	0·3	095	31	1·0	0·6	033	31	2·1	1·4	269	31	3·4	2·6	230
0·15 a. g.	31	3·0	2·2	078	31	4·9	4·4	093	31	5·9	5·3	107	31	2·8	2·0	357	30	2·8	1·9	262	31	4·1	3·2	240
0·3 a. m. s. l.	31	3·2	2·4	089	31	5·0	4·6	024	31	6·1	5·6	106	31	2·7	1·8	367	30	2·8	1·9	256	31	4·2	3·2	240
0·6 ,,	31	3·9	2·9	107	31	5·3	4·7	099	31	6·6	6·0	107	31	2·6	1·5	346	30	1·9	0·7	267	31	4·1	2·4	235
0·9 ,,	31	3·7	2·3	112	31	5·2	4·6	095	31	5·6	4·6	095	31	2·6	1·2	026	25	2·5	1·3	048	31	2·8	0·1	319
1·5 ,,	31	4·3	2·4	076	31	4·6	3·3	065	31	5·4	4·4	059	31	3·7	3·0	067	17	4·7	4·0	056	31	4·6	4·1	052
2·1 ,,	29	5·6	4·4	048	31	5·8	5·0	039	30	6·2	5·3	049	31	6·6	6·2	054	15	6·2	5·5	053	31	7·7	7·5	053
3·0 ,,	28	6·6	5·9	044	31	6·9	5·3	031	30	6·5	5·5	039	31	5·3	4·7	058	11	7·3	6·9	053	31	6·7	5·9	065
3·6 ,,	25	5·8	4·0	051	30	5·8	3·7	035	25	4·5	3·0	037	31	4·6	3·4	080	10	4·7	3·3	066	31	4·7	3·7	078
4·5 ,,	23	5·8	2·1	086	29	4·7	1·8	059	13	4·5	1·0	105	31	5·0	3·3	084	9	4·9	1·8	094	31	4·9	3·6	083
5·4 ,,	17	5·6	1·2	014	27	5·7	2·7	075	3	5·0	2·6	206	31	5·2	3·4	083	5	5·9	3·6	093	31	5·7	3·4	076
6·0 ,,	13	5·4	1·7	002	27	6·7	2·8	034					31	6·0	3·4	070	4	6·0	4·3	089	31	6·5	3·6	067
7·2 ,,	4	6·9	3·3	031	27	9·4	6·1	055					31	8·1	3·0	038	2	10·6	8·7	032	31	8·4	3·8	045
9·0 ,,	2	8·2	5·8	292	16	8·4	4·9	335					30	8·3	3·0	011	2	10·3	3·7	350	31	8·0	2·0	007

Station	TRIVANDRUM				UDAIPUR												VENGURLA							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·3	0·9	002	31	0·3	0·2	266	31	2·0	1·2	267	31	0·5	0·4	266	31	0·8	0·6	003	31	3·4	2·9	287
0·15 a. g.	31	3·7	0·3	233	31	2·8	2·0	318	31	4·2	2·7	258	31	3·1	1·9	270	31	5·1	4·5	006	31	4·9	4·4	288
0·3 a. m. s. l.	31	3·3	0·6	280													31	6·5	6·0	360	31	5·7	5·0	295
0·6 ,,	31	3·2	1·3	306													31	7·5	6·9	354	31	5·5	4·1	300
0·9 ,,	30	2·8	1·7	356	31	4·4	2·3	316	31	4·9	3·4	263	31	4·5	2·7	277	31	7·9	6·5	347	31	4·6	2·4	307
1·5 ,,	27	5·3	4·8	054	31	6·0	4·1	274	31	5·7	4·5	252	31	5·3	3·7	258	31	6·4	3·5	327	31	3·6	1·4	325
2·1 ,,	24	8·2	7·8	058	31	7·5	6·1	255	31	6·0	5·2	251	31	6·0	4·4	243	31	5·1	6·6	215	31	4·4	0·2	355
3·0 ,,	21	6·9	6·6	062	29	10·8	9·3	249	31	9·9	8·9	254	29	7·9	6·4	245	31	6·0	2·8	158	31	5·9	1·7	097
3·6 ,,	14	4·1	3·2	080	16	10·2	8·2	276	29	12·2	11·2	256	23	9·3	7·9	239	14	5·2	1·6	141	31	5·8	0·9	059
4·5 ,,	6	3·0	1·8	060	6	10·0	7·2	285	23	14·4	13·2	258	9	11·9	10·1	254					30	5·7	2·9	272
5·4 ,,	1	5·7	5·7	115					22	18·7	17·5	261	5	14·7	13·5	270					28	7·7	5·0	282
6·0 ,,	1	8·2	8·2	070					21	21·4	19·4	263	1	15·4	15·4	270					27	9·6	6·6	273
7·2 ,,	[illegible]				[illegible]				13	26·0	22·7	263	[illegible]				[illegible]				20	13.8	10·1	274
9·0 ,,	[illegible]				[illegible]				1	36·9	36·9	265	[illegible]				[illegible]				2	12·6	8·7	228

TABLE IV— MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Station	VENGURLA				VERAVAL																VISAKHAPATNAM			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·1	1·0	334	31	3·5	3·2	360	31	4·3	2·8	342	30	7·2	6·4	295	31	3·1	2·9	339	31	0·3	0·2	222
0·15 a.g.	31	5·3	5·3	345	31	8·4	7·3	339	31	4·6	2·9	327	30	8·9	8·6	290	31	7·4	7·0	318	31	2·9	2·1	240
0·3 a.m.s.l.	31	7·2	7·0	343	31	8·9	7·5	340	31	4·9	3·2	337	30	8·2	7·9	291	31	8·0	6·9	321	31	3·7	3·1	234
0·6 ,,	31	7·1	6·9	340	31	7·8	5·7	329	31	5·2	3·7	348	30	6·0	5·9	300	31	6·8	5·3	326	31	3·7	3·0	228
0·9 ,,	31	5·8	5·3	336	31	6·4	4·6	309	31	5·3	3·1	337	30	5·0	4·3	318	31	5·3	2·9	324	31	3·3	2·3	215
1·5 ,,	31	4·5	2·7	295	31	6·8	4·2	280	31	6·5	2·7	296	30	5·0	4·0	347	31	5·5	2·0	292	31	4·2	0·6	345
2·1 ,,	31	4·8	1·0	157	31	8·4	5·1	257	31	7·9	4·5	265	30	5·3	2·5	323	31	7·7	4·3	247	30	5·5	2·1	346
3·0 ,,	31	6·8	3·7	105	31	10·4	8·2	244	31	10·1	7·7	251	30	6·3	3·7	241	31	9·3	7·1	254	29	7·1	4·6	321
3·6 ,,	11	6·0	3·7	070	31	11·7	9·6	251	30	10·7	8·5	249	30	8·1	5·6	228	23	10·1	8·9	246	29	7·3	5·0	300
4·5 ,,	1	12·9	12·9	275	31	15·4	12·8	261	29	12·0	10·5	257	30	8·9	5·9	241	12	12·9	12·3	245	26	7·6	5·8	296
5·4 ,,					31	17·9	15·7	261	25	14·8	13·4	264	30	9·8	7·4	255	3	10·5	10·0	238	23	7·8	6·1	288
6·0 ,,					31	21·6	19·8	222	25	17·7	16·1	266	30	11·3	8·7	265	2	13·9	13·8	224	20	9·9	7·5	276
7·2 ,,					31	28·7	25·6	269	19	19·7	17·9	267	30	17·0	14·4	263					12	11·9	9·6	288
9·0 ,,					25	37·7	31·5	273	8	24·5	22·3	268	29	25·5	21·3	263					2	12·6	12·1	264

Station	VISAKHAPATNAM							
Time in I. S. T.	1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D
Surface	31	4·9	4·0	200	31	0·7	0·5	225
0·15 a.g.	30	4·2	3·8	193	31	3·5	2·9	223
0·3 a.m.s.l.	30	4·1	3·6	186	31	4·0	3·3	223
0·6 ,,	30	4·2	2·9	176	31	4·4	3·1	219
0·9 ,,	30	3·9	2·2	172	31	4·1	2·3	202
1·5 ,,	30	4·5	0·7	006	31	3·9	0·8	241
2·1 ,,	28	6·4	3·9	355	28	5·6	3·9	359
3·0 ,,	28	7·4	4·9	324	27	6·1	4·1	333
3·6 ,,	29	7·4	5·5	315	21	6·3	3·9	315
4·5 ,,	29	7·9	5·8	290	15	7·5	6·1	275
5·4 ,,	26	9·8	7·9	275	6	6·7	5·1	275
6·0 ,,	25	11·9	9·5	272	3	7·2	6·2	267
7·2 ,,	22	15·6	13·1	278				
9·0 ,,	13	16·5	14·4	269				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 km. above mean sea level

March 1960 (Phalgun 11, 1881—Chaitra 11, 1882 Saka)

Ht. in Km.	n	V	v	D
	AHMEDABAD			
	1730 hrs.			
10·5	1	47·6	47·6	285
12·0	1	56.0	56·0	270
	AMAUSI			
	1730 hrs.			
10·5	1	28·3	28·3	270
	ANANTAPUR			
	0530 hrs.			
10·5	3	11·3	10·4	248
12·0	1	8·2	8·2	240
	1730 hrs.			
10·5	9	20·7	19·6	300
12·0	2	15·4	15·1	283
14·1	1	8·2	8·2	205
	ASANSOL			
	1730 hrs.			
10·5	1	30·3	30·3	275
	BAIRARAGH			
	1730 hrs.			
10·5	1	26·2	26·2	265
	BAJPE			
	1730 hrs.			
10·5	4	16·7	13·0	274
12·0	1	23·7	23·7	280
	BAMRAULI			
	0530 hrs.*			
10·5	16	37·9	36·0	259
12·0	5	45·5	42·8	264
14·1	2	39·5	38·2	284
	1130 hrs.			
10·5	1	37·4	37·4	290
	1730 hrs.*			
10·5	18	31·1	28·4	275
12·0	8	38·0	36·7	278
14·1	1	40·0	40·0	260

Ht. in Km.	n	V	v	D
	BANGALORE			
	1730 hrs.			
10·5	9	11·0	9·5	265
12·0	6	9·1	6·7	256
14·1	5	13·1	10·4	192
16·2	5	6·0	3·9	228
18·0	3	6·5	6·5	252
	BAREILLY			
	1730 hrs.			
10·5	2	23·7	23·6	267
	BEGUMPET			
	0530 hrs.			
10·5	3	10·5	8·0	252
12·0	3	13·5	10·8	258
14·1	2	18·0	6·3	280
16·2	1	12·4	12·4	195
18·0	1	1·5	1·5	240
	1730 hrs.			
10·5	11	18·9	17·8	266
12·0	12	19·2	18·8	260
14·1	8	18·7	17·8	238
16·2	7	15·0	13·6	248
18·0	6	11·4	8·3	243
21·0	4	7·5	2·7	262
24·0	2	6·4	2·9	315
	BHAGALPUR			
	1730 hrs.			
10·5	3	28·2	24·2	282
	DEHRA DUN			
	1730 hrs.			
10·5	1	6·2	6·2	255
	DUM DUN			
	0530 hrs.*			
10·5	17	27·9	26·5	262
12·0	12	25·8	24·1	261
14·1	7	22·9	22·0	250
16·2	4	17·1	16·3	260
18·0	1	13·9	13·9	235
	1730 hrs.*			
10·5	19	25·8	25·3	270
12·0	15	26·5	25·4	273
14·1	11	29·4	29·2	270
16·2	7	17·5	15·2	261

Ht. in Km.	n	V	v	D
	DUM DUM			
	1730 hrs.*			
18·0	3	11·0	10·6	275
21·0	1	13·4	13.4	250
24·0	1	17·0	17·0	270
	GADAG			
	1730 hrs.			
10·5	5	16·1	9·8	297
12·0	4	17·1	10·1	282
14·1	4	11·1	8·0	254
16·2	4	5·0	2·9	225
18·0	2	9·0	9·0	217
	GANNAVARAM			
	0530 hrs.			
10·5	3	13·4	8·9	266
12·0	1	14·9	14·9	225
	1730 hrs.			
10·5	11	19·4	17·3	284
12·0	7	18·9	17·0	268
14·1	2	13·9	13·8	250
16·2	1	6·7	6·7	240
	GAUHATI			
	0530 hrs.*			
10.5	19	35·9	32·7	268
12·0	15	42·5	38·8	269
14·1	4	33·0	32·9	250
16·2	1	42·5	42·5	250
	1130 hrs.			
10·5	6	21·8	19·1	288
12·0	1	63·7	63·7	275
	1730 hrs.*			
10·5	15	32·5	29·1	267
12·0	8	35·5	32·1	275
14·1	4	51·4	51·4	273
16.2	1	35·4	35·4	260
	GAYA			
	1730 hrs.			
10·5	1	14·9	14·9	305
	GOPALPUR			
	0530 hrs.			
10·5	1	12·4	12·4	275
	1730 hrs.			
10.5	3	22·0	20·6	250

Ht. in Km.	n	V	v	D
	GORAKHPUR			
	1730 hrs.			
10·5	2	27·5	27·5	273
12·0	1	32·9	32·9	260
	GWALIOR			
	0530 hrs.			
10·5	4	28·7	26·8	293
12·0	1	31·8	31·8	290
	JABALPUR			
	1730 hrs.			
10·5	1	30·8	30·8	295
	JAGDALPUR			
	1730 hrs.			
10·5	1	29·3	29·3	245
	JAIPUR			
	1730 hrs.			
10·5	1	73·9	73·9	300
	JAMSHEDPUR			
	1730 hrs.			
10·5	1	35·4	35·4	270
	JODHPUR			
	0530 hrs.*			
10·5	24	47·4	43·7	268
12·0	17	48·7	45·8	270
14·1	9	48·3	44·7	271
16·2	3	23·8	22·2	270
	1730 hrs.*			
10·5	19	41·1	34·6	267
12·0	15	43·6	37·0	273
14·1	9	48·2	45·0	277
	MADRAS			
	0530 hrs.*			
10·5	22	7·4	5·7	233
12·0	12	8·1	6·8	220
14·1	7	7·7	4·9	212
16·2	2	8·0	5·5	149
	1130 hrs.			
10·5	7	8·1	4·5	242
12·0	5	7·5	2·5	167
14·1	5	9·3	8·6	138
16·2	3	10·5	7·3	148
18·0	1	4·1	4·1	095
21·0	1	9·3	9·3	020
24·0	1	10·8	10·8	055

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 km. above mean sea level

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Ht. in Km.	n	V	v	D
	MADRAS			
	1730 hrs.*			
10·5	26	13·1	8·7	288
12·0	22	12·3	8·4	265
14·1	12	13·8	7·7	270
16·2	8	12·4	6·6	183
18·0	5	6·9	0·8	080
21·0	2	6·9	2·4	166
	MINICOY			
	1730 hrs.			
10·5	1	5·1	5·1	060
	MOHANBARI			
	1730 hrs.			
10·5	2	32·9	32·6	274
	NAGPUR			
	0530*			
10·5	25	34·5	31·9	281
12·0	21	30·6	28·4	266
14·1	16	29·8	26·8	259
16·2	8	18·2	15·0	265
18·0	4	20·3	19·7	260
21·0	1	47·1	47·1	270
	1130 hrs.			
10·5	3	32·3	31·7	266
12·0	2	26·7	25·5	268
	1730 hrs.*			
10·5	26	33·4	31·3	274
12·0	22	35·0	33·0	271
14·1	17	27·0	25·0	264
16·2	9	17·3	14·9	279
18·0	2	38·3	38·0	281
21·0	1	66·7	66·7	280
	NEW DELHI			
	0530 hrs.*			
10·5	20	31·0	28·7	274
12·0	13	40·6	37·0	288
14·1	6	35·5	33·0	296
16·2	3	31·8	32·3	289
18·0	2	17·5	17·1	269
	1130 hrs.			
10·5	1	34·2	34·2	280
12·0	1	58·0	58·0	290
14·1	1	79·7	79·7	280

Ht. in Km.	n	V	v	D
	NEW DEDHI			
	1730 hrs.*			
10·5	23	83·0	33·9	275
12.0	14	39·2	37·4	270
14·1	7	43·2	39·5	270
16·2	3	39·9	37·2	270
	POONA			
	1730 hrs.			
10 5	2	24·2	22·7	283
	PORT BLAIR			
	0530 hrs.*			
10.5	21	11·9	6·1	231
12·0	14	11·6	5·6	208
14·1	10	12·0	5·9	198
16·2	2	7·5	4·5	166
	1130 hrs.			
10·5	3	15.8	15·7	264
12·0	5	23·7	23·7	255
	1730 hrs.*			
10·5	21	14·6	10·3	247
12·0	13	14·8	11·2	247
14·1	7	11·8	7·2	254
16·2	2	4·4	2·0	174
	RAXAUL			
	2330 hrs.			
10·5	1	35.9	35·9	270
	SANTA CRUZ			
	0530 hrs.*			
10·5	20	25·4	22·9	249
12·0	13	31·1	29·3	240
14·1	5	39·9	35·7	248
16·2	4	23·2	18·9	262
	1130 hrs			
10·5	6	21·0	19·9	266
12·0	4	29·1	26·4	268
14·1	2	22·4	21·7	267
	1730 hrs.*			
10·5	20	28·9	26·7	270
12·0	14	34·0	31·7	273
14·1	8	27·9	25·9	248
16·2	3	23·0	22·8	241
18·0	1	18·5	18·5	230
	TEZPUR			
	0530 hrs.			
10·5	2	30·8	30·4	307
12·0	1	45·1	45·1	300

Ht. in Km.	n	V	v	D
	TEZPUR			
	1730 hrs.			
10·5	4	28·9	25·4	294
12·0	3	42·4	39·6	295
14·1	1	83·3	83·8	270
16·2	1	83·8	83·8	275
	TIRUCHIRAPALLI			
	0530 hrs.			
10·5	1	17·0	17·0	345
	1730 hrs.			
10·5	11	8·9	4·6	287
12·0	2	3·3	2·8	349
	TRIVANDRUM			
	0530 hrs.*			
10·5	30	8·1	0·5	331
12·0	28	8·5	0·7	190
14·1	21	9·6	3·2	135
16·2	13	10·6	5·2	095
18·0	4	9·5	4·0	261
21·0	1	10·3	10·3	010
	1730 hrs.*			
10·5	30	8·2	0·4	276
12·0	26	8·8	1·4	230
14·1	18	11·1	1·6	068
16·2	12	10·1	0·4	142
18·0	8	11·2	6·9	325
21·0	3	14·4	7·1	278
	VERAVAL			
	0530 hrs.*			
10·5	15	43·2	36·7	278
12·0	5	46·9	42·2	290
14·1	1	35·4	35·4	285
	1130 hrs.			
10·5	3	33·8	33·0	289
12·0	2	30·6	29·8	292
	1730 hrs.*			
10·5	22	29·9	26·4	259
12·0	17	35·5	31·8	256
14·1	8	31·8	28·5	265
	VISAKHAPATNAM			
	17·30 hrs.			
10·5	4	14·9	13·5	260

RADIOSONDE DATA

March 1959 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type	1st October 1914	00 and 12	
2	Amritsar	Clock type	21st June 1957	00 and 12	
3	Bombay	Clock type	7th September 1954	00 and 12	
4	Calcutta	Clock type	13th December 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
5	Gauhati	Clock type	22nd July 1955	00 and 12	
6	Jodhpur	Clock type	17th April 1946	00 and 12	
7	Madras	Fan type	29th June 1946	00 and 12	
8	Nagpur	Fan type	1st October 1946	00 and 12	
9	New Delhi	Clock type	3rd December 1943	00 and 12	
10	Port Blair	Fan type	4th December 1949	00 and 12	
11	Trivandrum	Fan type	1st July 1947	00 and 12	
12	Veraval	Fan type	3rd October 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 0000 Hours G. M. T.

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (999 mb.)						AMRITSAR (985 mb.)						BOMBAY (1008 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	98	290·7	295	285	284·6	14	230	285·6	292	282	281·8	31	013	295·1	299	291	290·3
1000	31	90	..	..	..	..	14	101	..	..	..	..	31	087	..	..	..	..
900	31	1000	293·2	300	287	273·9	14	991	287·3	293	280	270·1	31	1006	294·6	300	289	279·2
850	31	1489	289·7	297	284	272·2	14	1471	283·8	290	277	266·4	31	1500	292·0	297	288	275·1
800	31	2001	285·9	292	280	269·2	14	1972	280·4	288	273	264·1	31	2018	288·5	295	285	273·2
700	31	3107	278·6	284	275	261·0	14	3061	273·4	281	268	255·0	31	3136	280·9	289	277	268·8
600	31	4349	270·3	276	265	..	14	4272	264·3	270	256	..	31	4391	273·1	281	267	254·6
500	31	5770	261·4	268	257	..	14	5659	255·4	265	248	..	31	5830	264·8	272	261	..
400	31	7445	250·1	257	245	..	14	7291	243·4	251	239	..	31	7529	254·6	265	250	..
300	30	9495	236·9	248	229	..	10	9318	230·1	238	224	..	27	9628	241·1	249	235	..
250	29	10738	228·8	239	221	..	9	10589	222·9	231	215	..	24	10883	231·9	238	226	..
200	24	12203	222·5	227	211	..	8	11953	218·1	223	209	..	16	12347	222·1	232	217	..
175	24	13064	217·7	225	199	..	7	12769	215·7	219	208	..	14	13197	216·3	220	211	..
150	23	14048	214·3	224	200	..	7	13733	213·6	217	207	..	11	14143	212·1	223	207	..
125	22	15185	210·2	222	197	..							9	15272	204·6	209	193	..
100	16	16559	206·6	216	193	..							6	16547	199·0	206	186	..
80	12	17938	205·5	217	197	..												

	CALCUTTA (1010 mb.)						GAUHATI (1006 mb.)						JODHPUR (985 mb.)					
Surface	31	006	293·0	299	288	291·2	31	049	291·0	296	286	287·7	31	218	291·7	296	285	278·4
1000	31	090	..	..	..	..	31	097	..	..	..	..	31	91	..	..	..	..
900	31	1002	292·2	300	284	280·6	31	1000	289·7	297	284	280·8	31	998	291·7	297	284	274·1
850	31	1490	288·9	297	283	277·5	31	1484	286.6	294	281	277·3	31	1486	288·3	294	280	271·3
800	31	2002	285·6	294	282	273·9	31	1913	233·5	290	279	273·4	31	1996	284·4	291	277	270·2
700	31	3107	278·1	285	273	264·8	31	3091	276·7	283	273	265·3	31	3096	276·9	282	273	262·6
600	31	4349	270·8	278	263	256·4	31	4328	270·1	276	263	246·2	30	4331	268·6	275	264	245·5
500	31	5775	261·9	268	254	..	31	5749	261·7	269	255	..	30	5744	259·8	268	254	..
400	31	7455	251·4	257	242	..	31	7425	250·5	257	244	..	30	7409	248·6	256	240	..
300	22	9527	237·9	246	231	..	29	9485	237·7	246	229	..	28	9454	235·3	242	229	..
250	19	10778	229·8	235	224	..	24	10720	229·5	238	220	..	27	10696	228·3	236	223	..
200	14	12247	220·9	226	217	..	20	12202	222·5	229	215	..	24	12170	221·5	227	216	..
175	13	13124	215·8	222	211	..	15	12986	218·2	225	211	..	22	13035	217·3	223	212	..
150	12	14082	209·7	216	202	..	10	14004	215·3	219	207	..	19	14005	212·2	218	205	..
125	9	15224	204·6	211	196	..	7	15170	211·7	215	204	..	16	15141	206·3	213	198	—
100	9	16540	200·2	208	195	..	6	16555	208·7	213	202	..	14	16403	202·1	205	196	..
80	6	17880	197·2	201	194	..							10	17713	202·9	207	200	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 0000 Hours G. M. T.

March 1960 (Phalguna 11, 1881—Chita 11, 1882 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1008 mb.)						NAGPUR (975 mb.)						NEW DELHI (987 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	15	297·5	300	296	294·6	31	311	292·0	296	287	284·6	31	210	288·8	294	283	283·6
1000	30	087	..	..	..	..	31	91	..	..	..	..	31	95	..	..	..	..
900	30	1004	293·6	297	289	282·7	31	1007	295·9	303	291	278·1	31	997	291·4	298	281	274·6
850	30	1496	292·4	295	287	286·2	31	1501	292·7	300	288	275·4	31	1484	288·6	295	277	270·3
800	30	2016	289·9	293	286	273·2	31	2020	289·1	294	283	273·8	31	1994	284·6	289	273	267·0
700	30	3139	282·7	288	277	266·8	31	3139	281·3	293	277	266·5	31	3096	276·6	281	266	262·3
600	30	4400	275·6	280	269	253·0	31	4389	272·1	279	266	246·4	31	4327	268·2	273	258	..
500	30	5853	267·2	273	262	..	31	5821	263·6	270	257	..	31	5735	258·8	264	249	..
400	30	7564	256·0	263	243	..	31	7511	251·8	259	245	..	29	7395	247·6	252	239	..
300	28	9665	240·7	247	230	..	31	9586	239·1	247	233	..	26	9422	233·6	239	223	..
250	27	10931	231·4	241	218	..	28	10854	231·1	238	224	..	23	10639	225·6	234	220	..
200	24	12415	220·6	230	206	..	28	12332	220·6	229	213	..	20	12099	221·6	228	214	..
175	22	13270	214·5	225	196	..	27	13187	214·7	225	209	..	19	12966	218·7	227	209	..
150	20	14227	208·7	220	196	..	26	14194	208·7	222	203	..	17	13947	215·3	228	205	..
125	15	15331	203·7	213	192	..	22	15269	203·9	211	196	..	15	15082	210·0	215	205	..
100	10	16784	201·3	207	196	..	20	16584	198·5	205	193	..	14	16443	206·8	213	199	..
80	5	18159	199·6	203	197	..	19	17891	199·8	203	193	..	9	17840	207·9	213	201	..

	PORT BLAIR (1001 mb.)						TRIVANDRUM (1002 mb.)						VERAVAL (1010 mb.)					
Surface	31	079	295·3	299	293	294·2	31	064	298·6	300	298	295·6	31	08	293·7	297	288	288·9
1000	31	090	..	..	..	..	31	079	..	..	..	..	31	094	..	..	..	..
900	31	1008	293·2	297	290	286·4	31	1004	294·0	296	292	288·3	31	1011	294·0	300	291	279·3
850	31	1500	291·3	294	288	280·1	31	1497	291·0	293	287	284·1	31	1503	291·2	294	286	275·1
800	31	2017	288·3	291	285	277·0	31	2014	288·1	291	285	278·4	31	2023	288·3	293	284	271·9
700	31	3135	282·1	287	278	269·5	31	3135	282·3	286	278	265·7	31	3137	281·2	289	277	264·4
600	31	4395	275·0	278	272	263·9	31	4396	275·2	281	271	256·7	31	4393	273·3	281	268	257·5
500	31	5841	266·0	269	261	..	31	5845	267·3	271	264	..	31	5829	264·1	271	258	..
400	31	7542	254·1	259	251	..	31	7557	256·8	263	250	..	31	7521	252·3	262	245	..
300	31	9630	239·3	246	234	..	31	9659	241·3	248	229	..	26	9609	239·3	245	234	..
250	29	10887	230·7	236	223	..	31	10924	231·8	239	217	..	21	10867	231·1	238	224	..
200	27	12361	220·4	227	212	..	30	12408	220·4	227	207	..	9	12348	222·7	229	216	..
175	22	13228	215·5	223	204	..	28	13284	214·9	222	201	..						
150	20	14199	209·9	216	196	..	27	14220	209·0	218	195	..						
125	12	15326	205·5	213	197	..	27	15302	203·4	212	194	..						
100	9	16649	201·4	207	197	..	21	16668	199·9	207	193	..						
80							14	17922	200·0	208	193	..						

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 0000 Hours G. M. T.

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1005 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	296·8	299	295	294·0
1000	31	94	..	..	..	..
900	31	1017	294·9	301	289	283·2
850	31	1512	292·5	298	288	278·9
800	31	2033	289·7	296	284	276·4
700	31	3157	282·5	289	276	268·4
600	31	4419	275·4	284	266	258·5
500	31	5871	267·2	277	259	258·0
400	31	7585	256·3	264	249	..
300	30	9689	241·9	253	234	..
250	30	10959	232·8	247	227	..
200	29	12451	223·0	240	215	..
175	27	13306	218·0	236	209	..
150	27	14291	212·0	231	201	..
125	26	15388	207·0	226	196	..
100	26	16713	202·8	219	193	..
80	24	18115	202·6	217	191	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 1200 Hours G. M. T.

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (997 mb.)						AMRITSAR (984 mb.)						BOMBAY (1007 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	98	303·5	310	298	282·4	15	230	296·8	300	290	282·0	31	13	302·0	307	296	292·0
1000	30	74	..	..	..	..	15	90	..	..	..	..	31	79	..	..	..	..
900	30	1003	296·4	302	291	272·9	15	1003	292·5	296	286	273·5	31	1009	298·1	303	293	279·4
850	30	1497	292·2	298	285	270·6	15	1491	288·7	292	284	269·1	31	1508	294·9	301	289	275·8
800	30	2013	288·1	295	283	266·9	15	2001	284·7	288	281	266·6	31	2031	291·6	297	287	273·4
700	30	3126	280·0	285	275	259·8	15	3100	276·2	281	272	249·9	31	3161	283·8	291	279	268·3
600	30	4374	271·7	276	264	250·7	15	4331	268·3	274	264	..	31	4428	276·4	284	271	258·2
500	30	5803	262·9	269	257	..	15	5742	259.4	264	255	..	30	5885	267·5	273	261	..
400	30	7485	251·7	259	245	..	15	7399	247·6	255	243	..	30	7602	256·8	263	249	..
300	27	9554	238·2	247	231	..	12	9450	234·5	240	229	..	25	9711	243·8	253	233	..
250	27	10809	231·3	240	225	..	10	10683	227·0	232	220	..	21	10975	235·1	242	226	..
200	25	12292	224·3	230	218	..	7	12152	220·9	228	212	..	17	12488	226·4	236	220	..
175	24	13172	220·4	226	215	..	6	13004	218·7	226	206	..	13	13357	222·0	231	215	..
150	22	14152	215·5	221	211	..	5	13982	215·8	221	203	..	11	14334	215·4	224	211	..
125	20	15302	210·6	216	205	..							8	15426	208·4	210	206	..
100	18	16679	206·2	212	199	..							6	16801	202·7	207	200	..
80	10	18056	205·1	208	195	..												

Standard Pressure Surface mbs.	CALCUTTA (1008 mb.)						GAUHATI (1003 mb.)						JODHPUR (984 mb.)					
Surface	31	6	302·3	311	295	290·7	31	49	299·7	307	292	287·7	30	218	303·5	307	298	279·7
1000	31	76	..	..	..	..	31	72	..	..	..	..	30	73	..	..	..	..
900	31	1005	296·0	306	290	282·6	31	992	294·1	305	287	280·7	30	1003	296·1	302	291	273·9
850	31	1499	291·9	301	286	279·3	31	1483	290·2	300	284	277·6	30	1497	291·3	297	285	269·4
800	31	2016	288·1	297	283	274·6	31	1997	286·1	295	281	275·1	30	2012	286·5	293	279	268·6
700	31	3132	280·7	288	275	264·5	31	3105	279·1	289	274	266·3	30	3120	278·5	283	273	263·6
600	31	4384	273·3	282	264	248·1	31	4350	271·6	279	265	245·4	30	4361	270·4	274	265	254·0
500	29	5823	264·4	272	254	..	31	5780	262·8	272	256	..	29	5784	261·2	264	257	..
400	29	7518	253·4	261	243	..	31	7463	251·4	260	244	..	29	7457	249·8	256	243	..
300	24	9601	239·7	247	233	..	25	9522	238·0	245	231	..	29	9511	237·0	243	229	..
250	21	10860	231·3	239	226	..	19	10781	231·6	239	225	..	28	10765	230·1	237	222	..
200	20	12347	223·3	230	216	..	16	12283	224.7	229	218	..	25	12247	222·8	228	217	..
175	16	13223	218·9	226	213	..	14	13152	220·4	226	217	..	23	13110	219·0	227	213	..
150	15	14223	213·5	221	206	..	6	14160	215·8	218	214	..	21	14143	213·9	221	209	..
125	12	15370	207·5	215	198	..							12	15210	209·0	217	203	..
100	12	16711	201·7	212	189	..							9	16513	204·8	209	199	..
80													5	17852	204·4	208	201	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 1200 Hours G. M. T.

March 1960 (Phalguna 11, 1881—Chaitra 11, 1882 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1007 mb.)						NAGPUR (973 mb.)						NEW DELHI (985 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	15	302·7	305	300	294·9	31	311	304·8	310	294	283·6	31	210	300·0	305	294	284·4
1000	31	80	..	..	..	..	31	67	..	..	..	..	31	81	..	..	..	..
900	31	1007	295·8	299	291	282·4	31	1005	299·4	306	295	278·8	31	1003	294·5	300	285	278·1
850	31	1502	293·5	298	288	277·8	31	1504	295·0	300	291	276·3	31	1494	290·2	296	280	275·2
800	31	2023	290·8	295	285	274·8	31	2026	289·9	297	285	274·6	31	2007	285·9	291	277	272·3
700	31	3151	284·3	288	280	267·3	31	3148	281·5	287	277	268·2	31	3114	277·8	282	273	264·1
600	31	4420	276·6	281	272	260·1	31	4401	272·9	280	268	255·7	31	4351	269·8	275	265	253·4
500	31	5875	267·6	273	264	..	31	5837	263·6	270	258	..	31	5767	260·0	266	252	..
400	31	7591	257·2	262	252	..	31	7527	252·4	260	246	..	31	7432	248·5	255	242	..
300	31	9697	241·7	251	232	..	30	9597	238·0	244	230	..	29	9480	235·4	243	226	..
250	30	10967	232·9	241	219	..	29	10849	230·3	238	223	..	28	10717	227·5	237	217	..
200	27	12461	221·3	229	206	..	24	12337	221·7	235	217	..	25	12195	221·6	228	216	..
175	24	13322	215·1	224	201	..	22	13188	216·4	230	210	..	23	13049	219·1	225	213	..
150	19	14293	209·3	217	201	..	22	14159	210·6	226	203	..	20	14041	215·6	224	210	..
125	15	15410	204·0	213	195	..	20	15263	205·3	220	197	..	20	15182	211·1	220	206	..
100	10	16771	200·7	211	193	..	18	16602	202·3	213	191	..	18	16539	207·1	212	202	..
80	7	18192	202·9	215	198	..	13	17937	203·4	212	193	..	12	17903	206·5	212	197	..

	PORT BLAIR (1000 mb.)						TRIVANDRUM (1001 mb.)						VERAVAL (1009 mb.)					
Surface	31	79	301·2	302	299	295·6	31	64	303·4	305	301	296·0	31	8	299·7	302	297	295·1
1000	31	81	..	..	..	..	31	69	..	..	..	..	31	91	..	..	..	..
900	31	1005	293·3	298	289	291·3	31	1001	295·6	299	293	289·6	31	1015	294·8	300	290	280·4
850	31	1497	291·2	295	285	283·9	31	1497	292·5	295	289	287·5	31	1508	291·5	298	285	275·8
800	31	2015	288·7	292	284	277·9	31	2017	289·1	292	285	283·2	31	2026	288·0	292	282	272·6
700	31	3136	282·5	285	278	271·7	31	3142	283·6	288	279	269·5	31	3144	281·2	287	277	265·5
600	31	4398	274·4	278	270	266·6	31	4410	276·5	283	271	257·0	31	4400	273·8	279	269	258·6
500	31	5844	266·1	271	262	..	31	5869	268·6	275	263	..	31	5842	265·2	271	260	..
400	31	7549	255·2	262	243	..	31	7591	257·6	266	252	..	31	7540	253·8	260	248	..
300	28	9631	238·9	246	221	..	31	9712	242·8	251	232	..	27	9632	240·8	247	233	..
250	25	10898	229·9	238	224	..	31	10976	233·2	244	225	..	20	10894	230·9	237	224	..
200	19	12358	218·2	228	209	..	30	12451	220·8	233	207	..	10	12364	220·1	227	214	..
175	14	13194	211·9	225	204	..	30	13291	214·4	226	201	..						
150	12	14135	204·8	213	197	..	27	14266	207·3	220	193	..						
125	9	15221	200·6	210	194	..	24	15357	203·2	216	197	..						
100	5	16538	199·0	205	194	..	21	16739	200·7	212	194	..						
80							16	18056	202·0	210	197	..						

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 1200 Hours G. M. T.

March 1960 (Phalguna 11 1881—Chaitra 11, 1882 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1004 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	301·3	303	298	295·5
1000	31	84	..	..	..	..
900	31	1011	296·2	300	291	263·0
850	31	1509	293·4	297	289	280·0
800	31	2030	290·2	294	287	278·0
700	31	3156	282·8	287	278	272·1
600	31	4420	275·5	282	270	262·2
500	31	5872	267·1	273	261	..
400	31	7585	255·9	265	249	..
300	30	9685	241·2	249	231	..
250	30	10952	232·4	241	222	..
200	29	12445	223·1	233	213	..
175	28	13299	217·5	229	209	..
150	28	14275	211·3	225	204	..
125	27	15369	204·6	219	197	..
100	25	16732	199·4	213	189	..
80	20	18068	199·6	211	181	..

NOTE.—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

Means are not worked out for less than five observations at standard pressure surfaces.

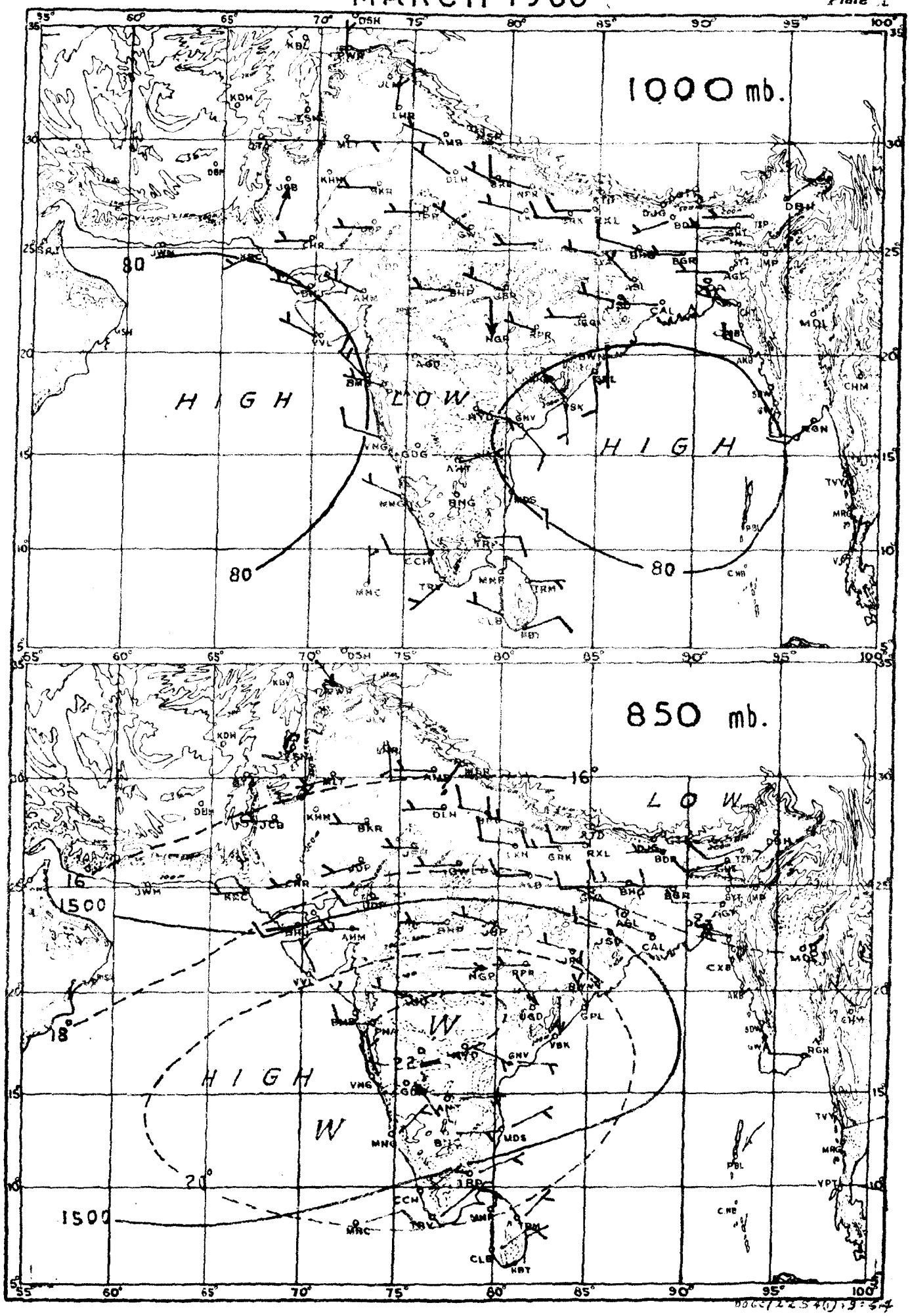
GIPN—S4—19 D. D. G. Obs. Poona/64—23-3-65—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

MARCH 1960

Plate I



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

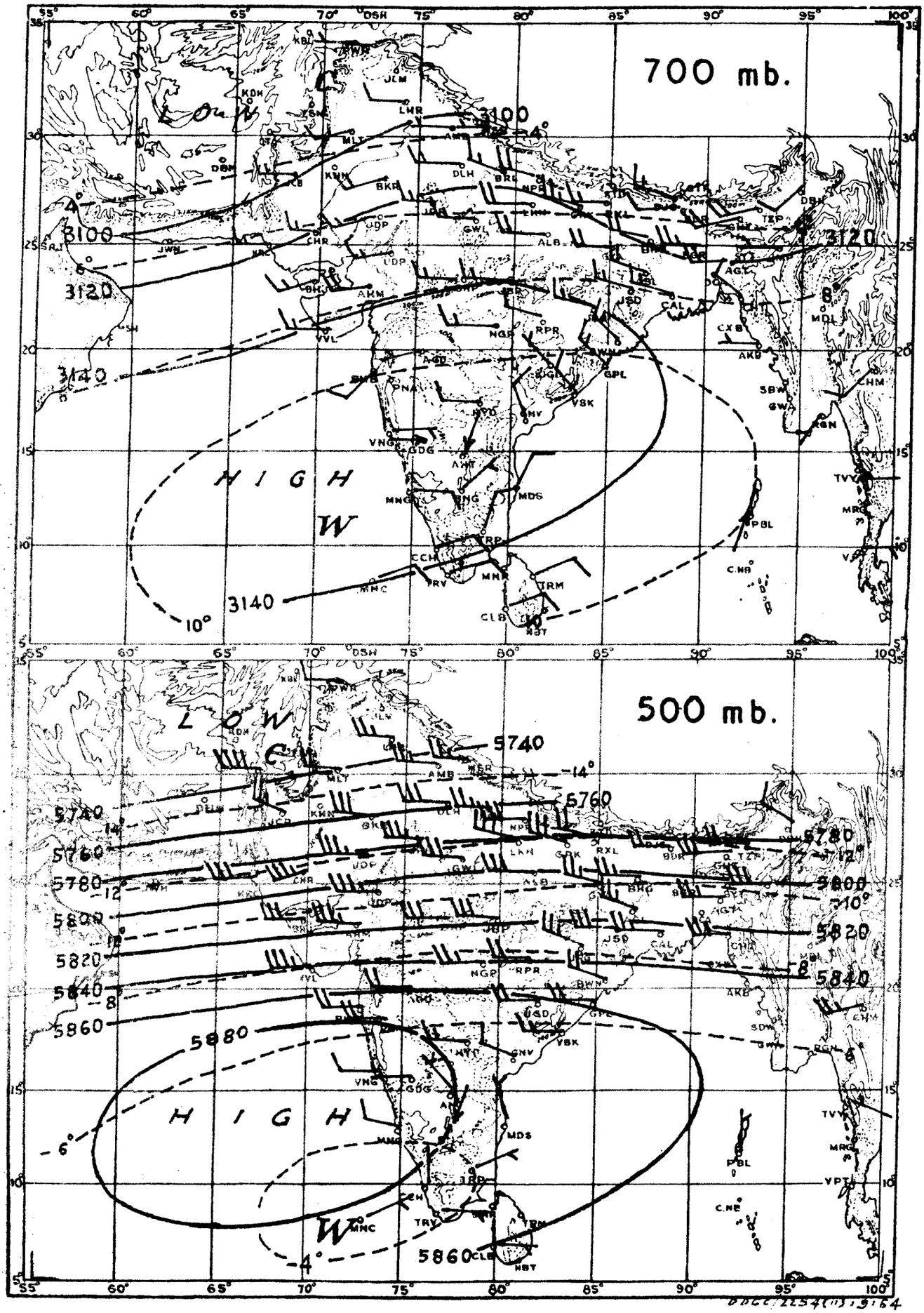
-------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

G.P.Z. P. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

MARCH 1960

I.Met.D. *Plate II*



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

-------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

G.P.E.P. POONA, 1963

Registered No. B-309

INDIA WEATHER REVIEW, 1960

Monthly Weather Report

April

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Chief features :

(i) Deficient rainfall in northeast India, and

(ii) Heat wave in Assam.

Five western disturbances moved across north India during the month. Their course and activity are shown in the Table below.

STATEMENT SHOWING THE MOVEMENT AND ACTIVITY OF WESTERN DISTURBANCES DURING APRIL 1960

S. No.	Period	Course	Region affected	Nature of Precipitation	Period	Remarks
1	3rd - 5th	South Afghanistan — N.W.F.P. - Jammu and Kashmir	Jammu & Kashmir	Scattered showers	5th	
1-a	5th - 7th	East Rajasthan—South Utter Pradesh—Bihar—West Bengal—Assam.	Madhya Pradesh Utter Pradesh—Bihar—Orissa. West Bengal—Assam	Scattered thundershowers Scattered thundershowers Local or scattered thundershowers	5th & 6th 6th 7th	Induced by western disturbance No. 1.
2	7th - 10th	South Baluchistan—Upper Sind—Northwest Rajasthan - Punjab (I)	Jammu and Kashmir, Himachal Pradesh West Utter Pradesh	Fairly widespread showers Scattered thundershowers	9th 7th & 8th	
2-a	9th - 13th	North Madhya Pradesh-Bihar—West Bengal—Assam.	Utter Pradesh East Madhya Pradesh Orissa West Bengal Assam	Scattered thundershowers Scattered thundershowers Scattered thundershowers Isolated light thunder showers Local or scattered thundershowers	9th & 10th 9th 10th 11th & 12th 11th—13th	Induced by western disturbance No. 2.
3	13th - 15th	Baluchistan—Upper Sind—Punjab(P)—Punjab(I)	Jammu and Kashmir	Isolated very light showers	15th	
4	15th - 20th	Baluchistan—Punjab(I) Jammu and Kashmir.	Punjab (I) Himachal Pradesh Jammu and Kashmir	Local or scattered thundershowers Widespread thundershowers Local or scattered thundershowers	18th—20th 19th 17th—20th	
4-a	19th - 22nd	North Madhya Pradesh-Bihar—West Bengal—Assam.	Madhya Pradesh Bihar and West Bengal Assam	Scattered thundershowers Scattered thundershowers Scattered thundershowers	19th & 20th 21st 20th—22nd	Induced by western disturbance No. 4.
5	21st - 26th	North Baluchistan—Punjab(P)—Punjab(I)—Jammu and Kashmir.	Himachal Pradesh Punjab hills Jammu and Kashmir Kumaon hills	Local thundershowers Scattered thundershowers Local of scattered thundershowers Scattered thundershowers	23rd 23rd & 25th 23rd—26th 23rd	

The western disturbances were generally feeble excepting the fourth one which was fairly active. In association with the low induced by this western disturbance, Cherrapunji recorded 14 cm of rain and Pasighat 7 cm on 20th.

An upper air trough developed and persisted over the south Peninsula during the first ten days of the month and was responsible for good thunderstorm activity in the Madras State, Kerala and south Interior Mysore. Kodaikanal recorded 8 cm of rain on 3rd. An upper air cyclonic circulation developed over the extreme south Peninsula and adjoining Ceylon on 14th. It moved slowly westwards across the Comorin-Maldive area and became unimportant by 18th. Under its influence, widespread thundershowers occurred in Kerala on 16th. Thundershowers also occurred in the rest of the south Peninsula between 15th and 17th. There was thunderstorm activity over the south Peninsula, particularly over Kerala during the rest of the month also.

In spite of the number of western disturbances, the rainfall in northeast India was deficient in all the four weeks of the month. This lack of normal thunderstorm activity contributed towards a tendency of the day temperatures becoming above normal in that area. The temperatures were appreciably to markedly above normal in Assam on most days and in West Bengal and Bihar on a few days during this month. They were 8° to 10° C above normal in upper Assam after 25th.

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1—20 D.D.G.Obs. Poona/64.

Rainfall for the month was in large excess in Kerala and the Arabian Sea Islands, in slight excess in the Madras State and coastal Mysore and normal in Vidarbha. It was in moderate defect in the Bay Islands, the Punjab(I), east Rajasthan, Madhya Pradesh, Rayalaseema and Interior Mysore State and in large defect in northeast India, Uttar Pradesh, Jammu and Kashmir, the Konkan, Maharashtra (including Marathwada)and Telangana. There was no rain in west Rajasthan, Gujarat, Saurashtra and Kutch and coastal Andhra Pradesh.

The mean maximum temperature was below normal in the Jammu and Kashmir, above normal in the Bay Islands, Assam, West Bengal, Bihar State and the Arabian Sea Islands and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in Assam, below normal in east Rajasthan and the Arabian sea Islands and nearly normal over the rest of the country outside Himachal Pradesh.

The mean morning relative humidity was above normal in the Punjab (I), Rayalaseema, south Interior Mysore, and the Arabian Sea Islands, below normal in Assam, West Bengal, Bihar State, Jammu and Kashmir, west Rajasthan, west Madhya pradesh and Gujarat and normal over the rest of the country outside Himachal Pradesh.

The mean morning cloud amount was above normal in the Bay Islands, east Rajasthan, the Konkan, the Madras State, Mysore State, Kerala and the Arabian Sea Islands, below normal in northeast India, Saurashtra and Kutch and coastal Andhra Pradesh and normal over the rest of the country, outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, relative humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column; similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5;
The 27th July, 1960.

C. RAMASWAMY,

for *Director General of Observatories.*

Errata to M.W.R. April 1960 (Chaitra 12 - Vaisakha 10, 1882 Saka)

Page No.	Station	Hour	Column	For	Read
Table I - Sub-Division					
173	2 Assam (Including Manipur, Tripura)		6	+15	-15
173	4 Gangetic West Bengal		6	15	-15
173	12 Jammu and Kashmir		6	+0.4	-0.4
173	26 Coastal Mysore		9	4.1	5.3
173	27 Mysore (North)		9	3.1	4.1
Table II					
174	Berhampore		2	40.8	40.0
175	Nautanwa		20(a)	1	0
175	Nautanwa		20(b)	2	1
175	Lakhimpur Kheri		25	(Blank)	1
175	Mainpuri		10	(Blank)	4
176	Aligarh		2	36.3	36.6
176	Roorkee		17	1.8	9.8
176	New Delhi		18	13.S	13.3
176	Bilaspur		17,18	8.9(c),5.8(b)	8.9(b),5.8(c)
176	Sikar		28	1	0
176	Jaipur (Sanganer Aerodrome)		28	0	1
176	Ajmer		16	+0.4	-0.4
176	Kotah		20(a)	0	2
176	Chambal		20(a)	2	0
176	Udaipur		20(a)	0	1
177	Umaria		9	9	3
177	Raipur		12	-2.9	-2.0
177	Ahmedabad		19	-11.0	-1.0
177	Alibag		9	9	2,9
177	(Foot Note)		-	Mean of 28 days	(c) Mean of 28 days
178	Vengurla		23,24	0,2	2,0
178	Jeur		25	1	0
178	Sholapur		25	0	1
178	Palayamcottai		12	+31.2	+74.6
179	Belgaum		20(a)	(Blank)	3
179	Bellary		5	3.0	30
179	Mukteswar (Kumaon)		11	(Blank)	28.2
179	Lokpal		20(a)	(Blank)	1
180	Mercara		12	(Not clear)	+90.5
180	Tilaiya		2	37.4	37.3
180	Durgapur		6	25.3	23.5
180	Ginabahar		2	39.8	38.9
180	Tehri		4	31.2	37.2
Table III					
182	Port Blair	2330	5	1009.8	1000.8
182	Dibrugarh	0830	18	20	29
182	Dibrugarh (Mohanbari Aerodrome)	0230	17	0	1
182	Dibrugarh (Mohanbari Aerodrome)	0530	5	994.0	994.9
182	Dibrugarh (Mohanbari Aerodrome)	2330	27	7	17
182	Sibsagar	0830	4	1010.1	1010.4

Continued on page 2.

Page No.	Station	Hour	Column	For	Read
182	Sibsagar	0830	18	23	24
182	Sibsagar	1730	22	2	0
182	Jorhat	0530	22	0	2
182	Jorhat	0830	7	25.7	25.8
182	Jorhat	1130	7,18	50.3, 24	30.3, 23
182	Gauhati	0830	26,27	0,3	9,8
182	Gauhati (Bhorjor Aerodrome)	0230	26,27	1,14	0,10
182	Gauhati (Bhorjor Aerodrome)	0530	10	0	18.9
183	Gauhati (Bhorjor Aerodrome)	2330	13	2.7	1.7
183	Gopalpur	1730	14	-3.0	..
183	Dhubri	0830	14	..	-3.0
183	Dum Dum	1130	15	6.3	6.8
184	Puri	0830	14	+0.1	-0.1
185	Angul	0830	14	..	-1.0
185	Sambalpur	0830	14	-1.0	0
185	Sambalpur	1730	26	1	3
185	Jharsuguda	1130	17	1	0
185	Purnea	0830	21	7	9
185	Patna	0830	6	..	0
186	Gorakhpur	1730	8	(Not clear)	19.0
187	Agra (Aerodrome)	0530	3	60	169
188	Bhatinda	0830	21	(Blank)	0
188	Bhatinda	1730	22	(Blank)	4
188	Amritsar	0530	19	(Blank)	7
189	Srinagar (Aerodrome)	2330	17	7	2
189	Jammu (Aerodrome)	0530	18	7	17
189	Jammu (Aerodrome)	1130	18	7	17
189	Sri Ganganagar	0830	18	2	22
189	Sri Ganganagar	1730	15	7	2.7
189	Jodhpur	0530	2	5030	0530
189	Pilani	0830	28	0	1
189	Alwar	1730	28	(Blank)	3
190	Ujjain	2330	4	1007.6	1007.8
190	Bhopal (Bairagarh)	0830	9	0.6	2.6
191	Sagar	0830	17	0	1
191	Sagar	1730	17	1	0
191	Sidhi	0830	10	12.3	12.7
191	Pendra	2330	25	5	7
191	Champa	0830	27	15	12
191	Raipur	0530	21	0	2
191	Raipur	0830	7	30.5	30.4
191	Raipur	0830	22	0	1
191	Raipur	1730	24	2	0
191	Jagdalpur	1130	10	13.5	13.6
192	Deesa	0830	6	-0.8	+0.8
192	Ahmedabad	0230	1	Amhedabad	Ahmedabad
192	Dohad	1730	8	19.4	19.8
192	Baroda	0530	10	14.7	14.6
192	Surat	0830	14	+0.2	-0.2
192	Surat	2330	16	(Blank)	0

Continued on page 3.

Page No.	Station	Hour	Column	For	Read
192	Mandvi	1730	4	100.3	1008.3
192	Jamnagar	0830	22	1	0
193	Mahuva	0830	24	5	1
193	Bombay (Santa Cruz Aero-drome)	0530	10	24.2	24.6
193	Harnai	1730	7	29.5	29.1
193	Ratnagiri	1730	13	2.6	2.5
193	Jalgaon	1730	9	0.5	-0.9
193	Deolali	0830	23	4	7
194	Akola	0830	6	(Not clear)	+0.3
195	Chanda	1730	7	38.3	38.0
195	Hakimpet	1730	13	3	3.5
197	Bijapur	0830	11	0	50
197	Bellary	1730	8	25.0	25.3
198	Bangalore (Aerodrome)	1730	4	1493.0	1493.5
198	Bangalore (Aerodrome)	2330	4	1522.0	1512.0
198	Kozhikode	1130	19	0	2
198	Kohima	0830	4	1582.5	1582.9
198	Kohima	0830	7	22.1	22.2
199	Trincomalee	1730	9	23.0	23.9

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Page	Station	Time in I.S.T	Height in Km.	Entry under column	Existing entry	Correct entry
204	Ambala	1730	3.6	v	6.4	6.2
205	Anantapur	1730	Surface	D	078	079
205	Baghdogra	1730	6.0	V	10.6	19.6
206	Bamrauli	0530	Time in I.S.T.		0530	0530*
206	Bamrauli	1730	Time in I.S.T.		1730	1730*
208	Chikalthana	0530	2.1	n	33	30
209	Cochin	2330	4.5	D	3 5	345
215	New Delhi	1730	5.4	n	20	29
216	Santa Cruz	1730	5.4	D	2 8	248
217	Tiruchirapalli	1730	0.15 a.g	D	188	118
217	Tiruchirapalli	1730	0.3	D	188	118
217	Trivandrum	1130	5.4	v	1.7	2.6
218	Veraval	0530	0.15 a.g	V	9.2	9.0
218	Veraval	1730	0.3	D	921	219
219	Gannavaram	1730	14.1	V	6.4	13.0
219	Gauhati	1730	12.0	V	48.3	43.8
219	Madras	1130	14.1	V	5.9	5.8
220	Udaipur	1730	16.2	D	3 5	305
			RADIOSONDE DATA			
223	Trivandrum	00 GMT	700 mb.	Mean	283.3	283.2
223	Veraval	00 GMT	900 mb.	Dew Point	278.3	278.2

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SG.15-5

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	52·4	26	34·7	21·1	63	54	2·1	2·8
	−149·1		+4·4	+1·5	−15		−2·4	
2. West Bengal	1·6	3	38·1	24·1	49	32	1·1	1·1
	−51·3		+1·9	+0·7	−15		−1·7	
3. Orissa	10·4	40	36·9	24·7	68	55	1·9	3·2
	−15·6		+0·7	0	0		−0·7	
4. Bihar	2·1	13	38·7	22·5	31	20	1·1	1·4
	−12·8		+1·1	+0·4	−11		−0·4	
5. Uttar Pradesh	2·8	35	37·2	20·3	32	19	1·1	1·7
	−5·1		−0·2	−0·3	−4		−0·2	
6. Punjab (India) (Including Delhi)*	6·7	66	35·3	18·8	46	32	1·4	3·1
	−3·5		−0·9	−0·9	+7		+0·2	
7. Jammu and Kashmir.	49·5	42	14·3	2·7	61	44	4·4	5·6
	−67·4		−1·8	−0·4	−7		+0·3	
8. Rajasthan	1·1	24	36·5	20·3	28	13	1·6	2·2
	−3·5		−0·5	−0·8	−6		+0·2	
Sub-Division								
1. Bay Islands	37·8	63	33·0	24·5	70	76	4·7	4·5
	−22·1		+1·3	+0·8	−3		+1·0	
2. Assam (Including Manipur, Tripura).	52·4	26	34·7	21·1	63	54	2·1	2·8
	−149·1		+4·4	+1·5	+15		+2·4	
3. Sub-Himalayan West Bengal.	3·2	4	36·4	21·3	43	25	1·1	0·7
	−86·9		+2.3	+0·3	−17		−1·1	
4. Gangetic West Bengal	1·4	4	38·6	24·9	51	34	1·1	1·3
	−38·0		+1·8	+0·8	15		−1·8	
5. Orissa	10·4	40	36·9	24·7	68	55	1·9	3·2
	−15·6		+0·7	0	0		−0·7	
6. Bihar Plateau	2·7	14	39·1	23·1	29	18	1·3	1·9
	−16·4		+1·1	+0·5	−14		−0·4	
7. Bihar Plains	1·7	14	38·3	21·8	33	23	1·0	0·9
	−10·2		+1·2	+0·3	−9		−0·4	
8. Uttar Pradesh (East).	2·1	30	38·2	21·3	31	18	0·9	1·3
	−4·8		+0·1	0	−5		−0·2	
9. Uttar Pradesh (West).	3·5	39	36·0	19·2	34	19	1·4	2·5
	−5·4		−0·5	−0·7	−3		−0·1	
10. Punjab (India) (Including Delhi).	6·7	66	35·3	18·8	46	22	1·4	3·1
	−3·5		−0·9	−0·9	+7		+0·2	
11. Himachal Pradesh	19·8	...	30·7	13·5	57	31	2·4	3·7
	..		..	..	..		..	
12. Jammu and Kashmir.	49·5	42	14·3	2·7	61	44	4·4	5·6
	−67·4		−1·8	+0·4	−7		+0·3	
13. Rajasthan (West)	0	0	36·9	20·4	30	13	1·3	2·1
	−4·7		−0·2	−0·4	−9		−0·1	
14. Rajasthan (East)	2·5	57	36·1	20·1	26	13	2·0	2·4
	−1·9		−0·9	−1·2	−3		+0·7	
15. Madhya Pradesh (West).	3·9	70	38·1	21·5	23	13	1·5	2·1
	−1·7		−0·2	−0·3	−6		+0·2	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
9. Madhya Pradesh	7·5	65	38·0	21·8	27	15	1·7	2·5
	−4·1		+0·1	−0·1	−5		+0·2	
10. Bombay	2·3	27	36·8	23·0	52	35	1·5	2·0
	−6·3		+0·4	+0·1	−3		−0·2	
11. Andhra Pradesh	3·6	18	37·5	25·0	62	48	2·3	2·6
	−16·8		+0·2	−0·3	0		−0·6	
12. Madras State	52·7	125	34·9	25·2	73	57	4·7	4·9
	+10·7		−0·7	−0·1	0		+1·5	
13. Mysore	38·7	69	35·5	22·8	67	39	−3·4	4·4
	−17·0		−0·4	+0·2	+4		+1·2	
14. Kerala	176·6	160	32·2	24·6	80	77	4·9	6·2
	+65·9		0	−0·7	+3		+1·0	
Sub-Division—*Contd.*								
16. Madhya Pradesh (East).	12·7	62	37·9	22·2	32	19	2·0	3·1
	−7·7		+0·6	+0·2	−4		+0·2	
17. Gujarat	0	0	39·2	22·6	42	16	1·1	0·8
	−0·7		+0·2	+0·2	−7		+0·1	
18. Saurashtra and Kutch.	0	0	35·9	21·6	66	48	1·0	0·8
	−0·9		+0·2	−0·7	−2		−0·7	
19. Konkan	0·1	1	32·2	24·7	71	67	2·0	1·0
	−7·0		+0·7	+0·3	−2		−0·7	
20. Maharashtra (Including Marathwada)	2·1	14	38·0	22·1	41	23	1·6	3·2
	−13·1		+0·7	+0·5	−4		+0·1	
21. Vidarbha	11·9	98	40·3	23·9	35	21	2·0	3·7
	−0·3		−0·3	−0·2	+4		+0·3	
22. Coastal Andhra Pradesh.	0	0	36·2	25·5	70	64	2·6	2·4
	−18·9		+0·3	−0·1	0		−0·9	
23. Telangana	1·6	6	38·6	23·9	46	24	1·8	2·9
	−23·2		+0·2	−0·2	−5		−0·4	
24. Rayalaseema	12·7	67	39·9	25·5	61	36	2·3	3·0
	−6·2		−0·2	−0·6	+8		+0·3	
25. Madras State	52·7	125	34·9	25·2	73	57	4·7	4·9
	+10·7		−0·7	−0·1	0		+1·5	
26. Coastal Mysore	25·7	112	32·6	25·5	77	69	5·5	4·1
	+2·7		−0·1	−0·3	+3		+1·7	
27. Mysore (North)	18·7	67	37·8	23·5	56	33	2·6	3·1
	−9·3		−0·1	+0·1	+1		+0·9	
28. Mysore (South)	65·3	65	34·0	21·7	75	40	4·1	5·3
	−34·5		−0·7	+0·3	+7		+1·5	
29. Kerala	176·6	160	32·2	24·6	80	77	4·9	6·2
	+65·9		0	−0·7	+3		+1·0	
30. Arabian Sea Islands	85·3	195	33·2	25·5	84	72	4·9	5·6
	+41·5		+5·3	−1·1	+13		+1·5	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with													
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Totalfall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29	
Bay Islands																																
Maya Bandar	30·1	...	31.7	18,24	25·0	...	21·6	1,16	7·0	9·2	...	7·0	11	1	...	8·4	5·5	...	0	3	0	0	7	0	0	0	0	0	0	
Long Island	32·4	...	35·0	26	24.4	...	22·1	...	0	36·9	...	24·5	9	3	...	3.0	1·5	...	0	3	0	0	0	0	0	0	0	0	0	
Port Blair	33·0	+1·3	35·2	29	24·5	+0·8	21·5	2	1·3	37·8	− 22·1	19·4	8	4	−1·1	8.3	5.7	−3.8	0	6	0	0	12	2	0	0	0	0	0	
Car Nicobar	31.7	...	32·8	26	23.0	...	19·4	1	33.0	73·8	...	29·4	7	5	...	6·7	3·2	...	0	7	0	0	8	0	0	0	0	0	0	
Nancowry	32·3	...	34.2	15,16,17	25·5	...	23·2	8	114·7	125.9	...	37.5	21	8	...	0	0	...	0	10	0	0	6	0	0	0	0	0	0	
Kondul	30·5	...	33.2	28	23.8	...	20·7	1	159·8	198·1	...	55·4	17	11	...	4·5	2·9	...	0	14	0	0	1	0	0	0	0	0	0	
Assam (Including Manipur, Tripura)																																
Pasighat	28·8	...	34·2	29	20·3	...	16·7	11	15·8	137·1	...	65·5	20	7	...	11·3	16·3	...	0	12	0	1	4	0	0	0	0	0	0	
Digboi*																																
Dibrugarh	30·1	+2·9	35.1	29	19·7	+0·9	17·2	4,8	5·6	130·6	−110·5	42.8	20	12	−1.6	5·0	3·7	+1·1	1	14	0	2	11	0	0	0	0	3	0	
Dibrugarh (Mohanbari Aerodrome).	29.7	...	34.7	30	18·9	...	15.0	8	8·9	161·2	...	56·8	20	11	...	8·0	5·2	...	0	15	0	0	10	0	0	0	0	3	0	
North Lakhimpur	30·7	...	34.9	30	21.1	...	14.6	9	12·9	101·5	...	36·6	19	9	...	...	...	...	0	12	0	0	8	0	0	0	0	0	0	
Sibsagar	31·7	+4.1	37.2	30	19·8	+0·9	17·3	11	11·6	62·3	−194·8	25·3	25	6	−8·1	9·2	6.3	+2.0	0	10	0	0	0	0	0	0	0	0	0	
Jorhat	32.6	...	37.5	22	19·2	...	15·0	8	1·3	15·4	...	4·1	25	4	...	...	...	...	0	6	0	0	9	0	0	0	0	0	0	
Golaghat	33·7	...	38.9	22	20.2	...	15.6	4	2·8	23·8	...	7·4	24	6	...	...	...	...	0	6	0	0	0	0	0	0	0	0	0	
Gohpur (R)																																
Tezpur	35.0	+5.5	38·3	30	21.8	+1·9	17·8	8	1·6	3·9	−148·8	3·0	24	1	−9·7	11·7	10·2	+3·4	2	3	0	0	2	0	0	0	0	0	0	
Tezpur (F.B.O.)	33.9	...	38.2	30	20·9	...	16·8	8	14·3	37·9	...	27·9	24	4	...	8·5	6·1	...	0	5	0	0	9	0	0	0	0	0	0	
Majbat	...	..	...	...	...	...	...	...	4·4	69.0	...	21.4	24	6	...	12·0	9·1	...	0	9	0	0	7	0	0	0	0	0	0	
Chaparmukh	36.4	...	41.1	21	20·6	...	16.4	5	1·4	15.8	...	3.0	10	6	...	...	...	...	0	6	0	1	5	0	0	0	0	0	0	
Tangla	34·3	...	37·9	30	19·5	...	13·9	4,8	0	64.1	...	27·3	24	5	...	5·8	3·6	...	0	5	0	0	0	0	0	0	0	0	0	
Gauhati	36·1	+5·2	40.6	30	21.6	+1·7	17·9	4	0·8	15·6	−129.4	12·0	11	2	−8·0	1·3	1·3	−1·9	0	3	0	1	4	0	0	0	0	0	0	
Gauhati (Bhorjor Aerodrome).	36·0	...	39.5	30	20·2	...	14.6	4	1·4	34·1	...	23·6	11	2	...	13·5	8·6	...	1	7	0	1	8	0	0	0	0	0	0	
Rangiya	35·5	...	38·4	30	18.9	...	12.2	5	0	1·4	...	1·0	12	0	...	8·7	8·7	...	0	2	0	0	0	0	0	0	0	0	0	
Goalpara	37·1	...	39.8	21,30	20·6	...	15·1	8	0	15·2	...	8·2	12	2	...	..	...	...	0	2	0	0	0	0	0	0	0	0	0	
Dhubri	36·8	+5.6	40.6	21	22·7	+1·5	18·7	4	4·0	6·2	−131·5	6·2	7	1	−7·1	8·8	8·0	−2·1	0	1	0	0	0	0	0	0	0	0	0	
Dhubri (Rupsi Aerodrome).	37·3	...	41.0	21	20·8	...	14·8	2	2·2	3·0	...	3·0	7	1	...	12·2	7·1	...	0	1	0	0	2	0	0	0	0	0	0	
Tura	34·9	...	38.5	30	22·1	...	18.4	7	0	0	...	0	...	0	...	12·7	11·1	...	0	0	0	0	0	0	0	0	0	0	0	
Agartala	37.3	...	41·5	30	23·4	...	18.9	24	23·8	24·8	...	14·6	21	2	...	15.7	12·4	...	0	5	0	0	5	0	0	0	0	4	0	
Kailashar	37·5	...	42.2	9	21·8	...	18.1	12	24·7	31·9	...	13·4	11	4	...	10·5	6·3	...	1	4	0	0	8	0	0	0	0	5	0	
Silchar	33·2	+2·1	37·4	16	22·0	+1·6	18·7	9	46·2	113·5	−271·8	52·6	21	6	−8·3	5·9	3.3	−0·2	1	6	0	1	10	0	0	0	0	0	0	
Silchar (Kumbhigram Aerodrome)	35·5	...	38·4	18	21·5	...	17·9	24	19·9	82·9	...	35·5	24	6	...	9·9	8·8	...	0	9	0	4	9	0	0	0	0	3	0	
Imphal	(c) 31·9	...	34·4	17	16.3	...	10·4	4	3·8	28·3	...	15·2	24	4	...	19·6	11·6	...	0	5	0	0	4	0	0	0	0	2	0	
Hailong	30·3	...	32·8	30	20·3	...	15·9	24	5·8	54·3	...	17·5	24	5	...	18·3	17·7	...	0	5	0	0	6	0	0	0	0	0	0	
Lumding	37·4	+5·3	41.9	30	20·3	+1·2	13·9	4	31·0	35.0	−56·7	30·0	11	2	−5·2	6·2	3·9	...	0	3	0	1	6	0	0	0	0	0	0	
Sub Himalayan—West Bengal																																
Cooch Behar	35·7	...	38·8	24	19·2	...	14·2	4	0	4·0	−139·5	4·0	7	1	−6·3	10·3	6·4	...	0	1	0	1	2	0	0	0	0	1	0	
Jalpaiguri	33·3	+1·4	36·9	18	20·0	−0.1	16·3	4,8	0	2·4	−91·3	2·4	7	0	−5·5	11·7	8·3	+4·4	0	1	0	0	2	0	0	0	0	0	0	
Bagdogra	33·7	...	37·6	30	18·2	...	12·9	3	3·2	10·0	...	10·0	7	1	...	14·7	10·0	...	0	1	0	1	1	0	0	0	0	0	0	
Malda	39·5	+3·1	43·6	18	22·6	+0·8	16·9	5	0	0	−30·0	0	...	0	2·0	14·7	9·2	+1·2	0	0	0	0	0	0	0	0	0	0	0	
Gangetic West Bengal																																
Dum Dum	38·3	...	41·7	30	24·2	...	20·1	6	0	2·1	...	2.1	11	0	...	8·5	7·4	...	0	1	0	0	1	1	0	0	0	0	0	
Calcutta	38·7	+2·7	42·2	29	25·4	+1·2	21·8	7	0	0	−44·5	0	...	0	−3·0	11·9	7·7	−0·2	0	0	0	0	1	1	0	0	0	1	0	
Barrackpore Arodrome	38.6	...	41·4	17,30	24·0	...	19·7	6	0	2·5	...	2·5	11	1	...	...	...	...	0	1	0	0	1	1	0	0	0	1	0	
Saugor Island	31·4	−0·7	36·1	8	26·9	+0·6	22·8	6	0	0	−29·7	0	...	0	−2·1	27·0	26·6	+4·6	0	0	0	0	0	0	0	0	0	0	0	
Sandheads	30·6	...	35·9	14	27·1	...	26·1	19	0	0	−14·7	0	...	0	−1·1	...	...	...	0	0	0	0	0	0	0	0	0	0	0	
Contai	34·8	...	39·5	30	25.6	...	21·1	6	0	0	...	0	...	0	...	15·0	11·5	...	0	0	0	0	0	0	2	0	0	0	0	
Midnapore	40·5	+2·2	43·9	17,18	25·6	+1·0	22·2	7	11·0	11·0	−32·2	11·0	24	1	−2·1	6·0	5·7	−0·3	0	1	0	0	1	0	0	0	0	0	0	
Purulia	39·1	...	42·8	18	25.1	...	20.8	7	3·0	3·0	...	3·0	21	1	...	7·3	5·3	...	0	1	0	0	0	0	0	0	0	0	0	
Bankura	...	...	...	...	...	...	...	...	...	0	−31·7	0	...	0	−2·7	...	...	...	0	0	0	0	0	0	0	0	0	0	0	
Burdwan	38·3	+0·7	42·1	,19	24·4	+0·5	22·2	3	0	0	−49·3	0	...	0	−3·2	4·1	3·1	−1·7	0	0	0	0	0	0	0	0	0	0	0	
Krishnagar	41·2	+4·0	44·1	17	24·2	+0·8	20·1	7	0	0	−57·9	0	...	0	−3·7	5·8	4·1	−4·1	0	0	0	0	0	0	0	0	0	0	0	
Asansol	39·9	+1·1	43·9	18	24·3	+0·9	10·4	6	0	0	−21·1	0	...	0	−1·8	13·1	8·7	+0·8	0	0	0	0	1	0	0	0	0	1	0	
Suri	40·7	...	44·6	18	24·7	...	21.2	4	0	0	...	0	...	0	...	17·0	10·8	...	0	0	0	0	0	0	1	0	0	0	0	
Berhampore	40.8	−2·8	43·4	18	23·7	+0·4	19·1	5	0	0	−37·6	0	...	0	−2·7	3·0	1.5	−4·1	0	0	0	0	0	0	0	0	0	0	0	
Orissa																																
Baripada	40·3	...	43·7	17	24·6	...	21·1	8	10·8	17·8	...	12·6	22	2	...	4·9	3·7	...	0	2	0	0	5	0	0	0	0	0	0	
Balasore	37·8	+1.7	41·8	18	24·8	+0·4	21·8	12	21·6	28·1	−16·4	28·1	22	1	−2·5	14·2	9·3	+0·6	0	1	0	0	4	0	0	0	0	0	0	
Chandba	38·4	+1·4	41·7	25, 26	24·5	−0·3	21·7	6 ,9	7·0	7·0	−29·6	7·0	7	1	−1·9	14·7	12·0	−2·0	0	1	0	0	3	0	0	0	0	0	0	
Cuttack	40·5	+2.1	43·4	26	25·3	0	22·7	12	4·0	9·4	−17·8	5.4	28	2	+0·3	9·2	7·3	+1·5	0	2	0	0	4	0	0	0	0	0	0	

(R) Register not received. *Data not reliable. (c) Mean of 26 day.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Orissa—*contd.*																													
Bhubaneswar	39·1	...	41·8	12	25·3	...	21·4	7	0.9	0·9	...	0·9	8	0	...	22·9	22·5	...	0	1	0	0	4	0	0	0	0	1	0
Puri	30·8	−0·1	36·5	7	26·5	+0·3	23·4	9	0	7·0	−7·7	7·0	9	1	0	21·4	20·7	+0·6	0	1	0	0	2	0	0	0	0	0	0
Gopalpur	31·3	+0·1	35·9	7	24·9	−0·2	23·1	9,12	0	0	−17·8	0	...	0	−1·4	23·5	22·5	+2·5	0	0	0	0	0	2	0	0	0	0	0
Koraput	35·2	...	36·7	6 days	21·0	...	17·2	9,10	19·8	39·6	...	18·8	22	3	...	...	...	...	0	3	0	0	0	0	0	0	0	0	0
Titilagarh	39·6	...	42·8	28	24·4	...	16·7	22	0	25·0	...	13·0	5	3	...	4·2	2·8	...	0	4	0	0	1	0	0	0	0	0	0
Bolangir	40·1	...	42·7	26	25·6	...	19·2	6	0	17·0	..	10·0	6	2	...	8·0	8·0	...	0	3	0	1	2	0	0	0	0	0	0
Phulbani	38·1	...	40·9	28	19·8	...	13·9	13	0·1	1·3	..	1·0	20	0	...	6·6	3·7	...	2	1	0	0	0	0	0	0	0	0	0
Angul	40.0	+1·1	42·9	26	24·5	+0·4	21·3	13	0	12·7	−13·5	8·0	22	2	−0·2	8.7	7·2	−0·4	0	2	0	0	3	0	0	0	0	0	0
Keonjhar	38·1	...	40.4	17	24·0	...	19·6	8	0	0·5	..	0·5	8	0	...	9·1	6.7	...	0	1	0	0	3	0	0	0	0	0	0
Sambalpur	39·3	−0·1	42·1	27,29	23·2	−0·6	17·9	12	0	8·6	−6·4	4·8	6	2	+0·4	7·0	4·1	−0·6	0	3	0	0	4	1	0	0	0	0	0
Jharsuguda	39·9	...	42·5	26	24·1	...	16·8	12	0	0·9	...	0·9	5	0	...	9·9	7·6	...	0	1	0	0	4	1	0	0	0	0	0
Bihar Plateau																													
Jamshedpur	39·9	+1·0	42·7	17,18	24·0	+0·8	20·1	7	1·1	1·1	−21·8	1·1	7	0	−2·1	8.7	5·8	+0·5	0	1	0	0	1	0	2	0	0	0	0
Jamshedpur (P.B.O.)	39·7	...	42·9	18	23·8	...	19·9	12	2·4	3·0	...	3·0	6	1	...	9·6	5·7	...	0	1	0	0	3	0	0	0	0	1	0
Chaibasa	40·0	+1·1	42·8	16,18	25·0	+1·3	20·5	7	0	1·2	−25.7	1.2	21	0	−2·2	5·2	3·1	−0·9	0	1	0	0	1	0	0	0	0	0	0
Ranchi	37·8	+2·4	40·1	17,18,19	20·5	−1·3	10·4	1	4·4	4·4	−18·2	4·4	21	1	−1·4	3·0	2·5	−5·4	0	1	0	0	0	0	0	0	0	0	0
Ranchi (C.W.O.)	36.3	...	39·6	16	22·7	...	18·1	7	(j) 1·5	2·3	...	1·0	...	0	...	(j) 12·3	9·8	...	0	3	0	0	4	0	0	0	0	0	0
Daltonganj	39·0	+0·4	42·7	17	20·9	−0·2	16·7	3	0	10·4	0	10·4	6	1	+0·2	...	...	...	0	1	0	0	1	0	0	0	0	0	0
Hazaribagh	36·7	+0·5	40·7	18	22·6	+0·5	17·2	8	0	0·8	−13·2	0·8	6	0	−1·5	15·4	11·4	+0·9	0	1	0	0	0	0	0	0	0	0	0
Dhanbad	39·4	...	43.4	20	25·0	...	21·5	8	0	0	...	0	...	0	...	(c) 10·4	(c) 7·6	...	0	0	0	0	0	0	0	0	0	0	0
Dumka	40·1	+2·4	43·9	18	23·2	0	19.3	8	0	0	−21·3	0	...	0	−1·9	7·9	7·0	+2·8	0	0	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Purnea	38·8	+3·1	42·2	18,20	20·3	−0·4	13·3	4	0	0	−32·5	0	...	0	−1·8	11·2	6·3	+0·8	0	0	0	0	0	0	0	0	0	0	0
Forbesganj	38·3	...	42·3	20	18·6	...	13·3	4	0	0	...	0	...	0	...	15·8	10·7	...	0	0	0	0	2	0	0	0	0	0	0
Darbhanga	38·1	+2·0	41·7	18,20	22·2	+1·2	17·1	4	0	0	−17·3	0	...	0	−1·3	10·0	6·6	+0·5	0	0	0	0	1	0	0	0	0	0	0
Motihari	35·7	−0·4	40·2	19	19·1	−0·7	14·3	4	0	0	−20·8	0	...	0	−1·4	10·3	4·6	−1·7	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur	...	...	...	...	...	...	...	...	...	0	−12·2	0	...	0	−0·9	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Chapra	38·6	...	42·4	18	24·0	...	15·4	4	0	0	−8·1	0	...	0	−0·7	12·4	8·3	...	0	0	0	0	0	0	0	0	0	0	0
Arrah	...	...	...	...	...	...	...	...	...	0	−6·3	0	...	0	−0·5	...	...	...	0	0	0	0	0	0	0	0	0	0.	0
Patna	38·9	+1·7	42·8	18	23·9	+0·8	19·8	7	0	0·4	−6·5	0·4	6	0	−0·6	11·2	10·4	+3·5	0	1	0	0	1	0	0	0	0	0	0
Patna (Aerodrome)	38·8	...	42·8	18	21·7	...	17·4	3	0	2·0	...	2·0	6	0	...	17·8	10·3	...	0	1	0	0	1	0	0	0	0	0	0
Dehri	39·0	...	42·8	16,17	24·5	...	18·2	8	0	8·6	+2·8	8.6	6	1	+0·4	11·0	6·7	...	0	1	0	0	1	0	0	0	0	0	0
Gaya	39·6	+0·8	43·3	18	22·1	−0·5	17·2	4,8	0	3·0	−3·1	3·0	6	1	+0·4	15.2	9·3	0	0	1	0	0	2	0	0	0	0	1	0
Jamui	39·8	...	43·8	18	26·6	...	23·4	10	0	0	...	0	...	0	...	14·7	6·9	...	0	0	0	0	0	0	4	0	0	0	0
Bhagalpur	38·6	...	42·1	18	24·1	...	18·2	5	0	0	...	0	...	0	...	20·2	13·3	...	0	0	0	0	0	0	0	0	0	0	0
Sabour	39.1	+1·8	43·3	18	21·5	+0·6	14·5	4	0	0	−18·3	0	...	0	−1·3	19.8	11.4	+1·7	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (East)																													
Gonda	38·0	+0·3	42·5	18	21·0	+0·7	16·1	4	0	0	−8·9	0	...	0	−0·1	11·4	8·5	+0·8	0	0	0	0	0	0	0	0	0	0	0
Nautanwa	35·0	...	39·1	18	18·8	...	12·9	5	0	23·4	...	23·4	6	1	...	13·6	7·9	...	1	2	0	0	0	0	0	0	0	0	0
Gorakhpur	38·4	+1·0	43·3	18	22·9	+1·1	18·4	11	0	0	−9·4	0	...	0	−0·7	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Azamgarh	39·2	...	43·6	17	19·9	...	14·8	4	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Ballia	38·9	...	42·5	17	22.5	...	18·4	4	0	11·4	...	11·4	6	1	...	11·9	6·8	...	0	1	0	0	0	0	0	0	0	0	0
Varanasi (Banaras)	38·7	−0·1	42·6	17	22·5	+0·5	18·3	8	0	4·4	−0·7	4·4	6	1	+0·6	(b) 9·9	(b) 5·9	+0·6	0	1	0	0	1	0	0	0	0	1	0
Varanasi (Banaras) (Babatpur Aerodrome)	38·8	...	42·8	17	21·3	...	17·1	4	0·5	0·5	...	0·5	5	0	...	23·0	14·2	...	0	1	0	0	2	0	0	0	0	1	0
Allahabad (Bamrauli)	39·4	+0·2	44·0	17	21·7	−0·2	17·0	7	2·0	2·1	−2·2	2·0	6	0	−0·4	11·6	6·4	−0·2	1	1	0	0	2	0	0	0	0	0	0
Sultanpur	38·4	...	42·3	4 days	22·2	...	17·3	4	0	0	...	0	...	0	...	8·8	8·2	...	0	0	0	0	0	0	0	0	0	0	0
Faizabad	37.1	...	41·4	17	18·4	...	14·3	2,4	0	0	...	0	...	0	...	10·3	6·5	...	0	0	0	0	1	0	0	0	0	0	0
Banda	38·8	...	42·8	16,17	20·7	...	16·6	11	0	0	...	0	...	0	...	8·8	4·5	...	0	0	0	0	0	0	1	0	0	0	0
Fatehpur	38·7	+0·4	43·4	17	21·5	+0·4	16·7	3,4	0	0	−8·4	0	...	0	−0·6	14·4	7·8	+2·2	0	0	0	0	0	0	0	0	0	0	0
Kanpur	38·2	+0·8	42·7	17	21·6	+0·2	16·4	4,7	0	0	−5·6	0	...	0	−0·6	22·5	15.9	+4·2	0	0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	38·5	...	42·9	17	21·0	...	15·6	4	0	0	...	0	...	0	...	...	...	...	0	0	0	0	1	0	2	0	0	0	0
Lucknow	37·1	−1·5	41·7	17	20·9	−0·7	15·9	4,6	0	0	−6·3	0	...	0	−0·6	11·1	6·8	+2·9	0	0	0	0	0	0	0	0	0	0	0
Lucknow (Amausi Aerodrome).	37·5	−0·8	42·1	17	19·5	−0·8	14·3	4	0	1·8	−4·5	1·8	23	0	−0·6	20·3	12·9	...	0	1	0	0	3	0	2	0	0	3	0
Hardoi	37·2	...	42·3	17	19·7	...	14·4	6	0	1·0	...	0·8	9	0	...	15·7	9·6	...	1	1	0	0	0	0	0	0	0	0	0
Lakhimpur Kheri	37·6	...	42·4	17	20.4	...	15·8	7	0	8·0	...	4·4	6	2	...	10·7	6·8	...	0	3	0	0	2	0		0	0	0	0
Bahraich	38·1	+0·9	42·4	16	19.8	−0·9	14·5	3	0	10·8	+2·7	10·8	6	1	+0·4	13·7	8·4	+2·9	0	1	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Orai	37·6	..	42·2	17	20·4	..	15·0	3	0	0	..	0	...	0	..	14·6	9·6	...	0	0	0	0	0	0	0	0	0	0	0
Jhansi	38·3	−0·9	42·3	16,17	21·6	−0·7	17·2	3	0	4·0	+0·4	4·0	19	1	+0·5	8·3	6·4	+0.6	0	1	0	0	0	0	1	0	0	0	0
Agra	37·0	−0·8	41.3	17	20.4	−0·5	15·3	6	0	0	−5·3	0	...	0	−0·6	7·3	5·6	−0·7	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	37·2	...	41·0	16	19.2	...	14·4	6	0	1·3	...	0·8	9	0	...	...	...	...	0	2	0	0	4	0	3	0	0	1	0
Mainpuri	37·5	−0·9	43.0	17	19·8	−0·9	14·0		0	2·0	−3·8	2·0	19	0	−0·7	6·8	5·8	+2·1	0	1	0	0	1	0	0	0	0	0	0

(b) Mean of 29 days. (j) Mean of 21 days. (c) Mean of 28 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or Sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—*con'd.*																														
Aligarh	36.3	+0.7	40.9	9	18.0	−2.1	13.4	6	6·4	6·6	−5.9	4.6	9	1	0	12.8	9·0	+1.0	1	2	0	0	4	0	3	0	0	0	0
Bareilly	36·8	+0·2	41.7	16	20·5	+0.1	14.5	4	0·2	6.0	−0·9	3.0	6,23	2	+1.4	12·3	6·9	+2·7	0	2	0	0	3	0	0	0	0	0	0
Meerut	35·5	−1.0	40.0	17	19·2	−0.4	12.2	6	...	0	−9.4	0	...	0	−0.8	...	9·0	...	0	0	0	0	0	0	0	0	0	0	0
Najibabad	34.6	...	39.7	16	16·2	...	10·7	1	0	5·8	...	4·6	19	1	...	8·7	5·8	...	0	2	0	0	3	0	0	0	0	0	0
Roorkee	34.7	−0.7	39.4	17	17·9	−0.4	11.9	4	0	1·8	−9.6	1·8	19	0	−1.1	1·8	6·8	+2·3	0	1	0	0	1	0	0	0	0	0	0
Dehra Dun	31.3	−0.9	35.6	16	16·4	−0.5	11.6	6	0	8.0	−8·5	4.4	19	2	+0.3	5.8	4.6	+0.7	0	3	0	0	4	0	1	0	0	0	0
Punjab (India), (Including Delhi)																														
New Delhi	35·0	−2.1	38.9	16	20·1	−1·3	11.9	10	6.1	6.5	−1.9	6·1	6	1	+0.1	17·2	13.S	+2.7	0	2	0	0	4	0	1	0	0	2	0
New Delhi Palam (Aerodrome)	35.8	...	40.5	16	18·0	...	11.7	3	0	2.0	...	1.5	19	0	...	...	...	...	0	2	0	0	5	0	3	0	0	0	0
Hissar	35·9	−0.7	40·8	16	17·6	−1.7	11.3	10	8.5	10.1	+3·5	8.5	18	1	+0.1	9.1	7.6	+0.7	0	2	0	0	3	0	2	0	0	0	0
Karnal	34.6	...	39.4	16	18·0	...	12.8	2	2.0	2.2	...	2.0	22	0	...	...	...	...	1	1	0	0	0	0	0	0	0	0	0
Patiala	34.5	...	39.3	16	18.1	...	13.2	6	0	10.0	+6.9	10.0	19	1	+0.7	13.2	10·0	...	0	1	0	0	3	0	0	0	0	0	0
Ambala	35.2	−0·4	43.4	13	18.4	−0.7	10.8	3	1.8	4.8	−11.5	3.0	19	1	−0.6	(c) 9.8	8·7	+2.9	0	2	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	34.7	...	39.4	30	17.0	...	11.9	1	4.0	6.5	...	4.0	2	2	...	...	...	...	0	2	0	0	4	0	3	0	0	0	0
Chandigarh	33.4	...	38·9	14	18·8	...	13·4	2	0	0.2	...	0.1	2 19,23	0	...	...	...	...	2	0	0	0	0	0	2	0	0	0	0
Ludhiana	35·0	−0.4	39·8	16	19.2	0	10.6	2	2.1	2.1	−14.4	2.1	19	0	—1.3	(c) 8·5	(c) 4·9	+1.7	0	1	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	33·6	...	38·2	16	14·7	...	7·9	2	2.5	2.5	...	2.5	19	1	...	...	...	...	0	1	0	0	2	0	2	0	0	0	0
Bhatinda	34·6	...	34·8	16	15·8	...	10·5	2	5.9	5·9	...	5·9	19	1	...	9.7	7·1	...	0	1	0	1	2	0	1	0	0	0	0
Ferozepur	33·3	...	38·0	15	15·7	...	10·3	10	0	0	...	0	...	0	...	6·6	4·4	...	0	0	0	0	0	0	0	0	0	0	0
Amritsar	32.3	...	36.9	16	14.7	...	6·9	10	0.8	10.4	...	9.6	19	1	...	11.7	8.6	...	0	2	0	0	4	0	1	0	0	1	0
Pathankot (Aerodrome)	32.4	...	37.7	16	17.5	...	10.1	10	0	7.7	...	5.9	19	1	...	12.0	10.2	...	0	2	0	0	4	0	2	0	0	0	0
Adampur Aerodrome (R)																														
Himachal Pradesh																														
Bilaspur	31.9	...	36.~	17	14.4	...	8.8	2	2.4	10·4	...	4.2	9	2	...	(c) 8.9	(b) 5.8	...	0	4	0	1	4	0	1	0	0	2	0
Mandi	29.4	...	34·2	16	12·7	...	9·0	2	4.2	29.2	...	13.6	9	3	...	4·5	2·7	...	0	5	0	0	9	0	0	0	0	0	0
Jammu and Kashmir																														
Srinagar	17.5	−1.8	23.8	30	6.8	—0.2	0.9	9	27.1	117.8	+25·1	39.8	19	9	+1.2	7·7	6.3	+1.2	1	11	0	1	7	0	0	0	0	0	0
Srinagar (Aerodrome)	17.1	...	22.4	30	6.2	..	−0.8	9	23.8	109.2	...	36.1	19	8	...	...	...	...	0	12	0	0	6	0	0	2	0	0	0
Gulmarg									Closed	during	winter	months																	
Sonamarg*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dras (R)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Leh	11·2	—1·8	15·4	16	1·5	−0.6	6·8	10	2.4	10.8	+5.0	8.4	9	1	+0.2	9.3	8.0	+3.7	0	2	1	0	0	0	0	0	0	0	0
Skardu (R)																													
Gilgit (R)																													
Misgar (R)																													
Jammu†																													
Jammu (Aerodome)	31.6	...	36.2	18	17·9	...	11.6	3	3.3	34.8	...	31.5	19	2	...	...	...	...	0	3	0	0	7	0	2	0	0	0	0
Rajasthan (West)																														
Sri Ganganagar	34·9	−0.3	38.9	13	18.3	+1.6	12.3	10	0	0.5	—7·1	0.5	23	0	−0.9	6.4	4.3	−4.6	0	1	0	0	2	0	1	0	0	0	0
Churu	35·6	...	39·3	30	17·7	..	11·7	1	0	2·4	...	2·4	18	0	...	12·4	8·7	...	0	1	0	0	4	0	0	0	0	0	0
Bikaner	36·7	−1·2	40·7	13	18·2	−3.1	11·7	3	0	0	−4.8	0	...	0	−0.5	8·8	6·7	−0·9	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	36·6	...	40·6	29	20·8	..	14·5	19	0	0	..	0	...	0	...	15·8	11·0	...	0	0	0	0	0	0	0	0	0	0	0
Phalodi	36·4	...	40·2	16	20·9	...	14·7	6	0		−3.1	0	...	0	−0.3	9·4	5.9	...	0	0	0	0	1	0	0	0	0	0	0
Nagaur	36·8	...	41·3	30	20·0	...	15·2	3	0	0	..	0	...	0	...	13·3	9·2	...	0	0	0	0	1	0	2	0	0	0	0
Jodhpur	37·6	+0.2	42·3	30	21·8	+0.2	17·7	20	0	0	−3.3	0	...	0	−0.5	12·2	9·6	−1·3	0	0	0	0	1	0	1	0	0	1	0
Barmer	38·3	+0.4	42·2	30	23·4	−0.1	18·4	19	0	0	−4.8	0	...	0	−0·4	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Rajasthan (East)																														
Pilani	36·3	...	39·7	15	17·9	...	11·9	10	3·7	9·5	...	4.6	18	2	...	14·5	9·9	...	0	3	0	1	1	0	1	0	0	0	0
Alwar	36·4	...	40·2	..	20·9	...	14·7	6	0	0	...	0	...	0	...	9·4	5·9	...	0	0	0	0	1	0	0	0	0	0	0
Sikar	35.5	...	39·4	30	17·4	...	11·4	3	0	2·0	...	2·0	18	0	...	8·5	7·7	...	0	1	0	0	0	0	0	0	0	1	0
Jaipur (Sanganer Aerodrome).	35·7	−0·9	39·0	13	20·0	−0.4	15·2	6	0	6·3	+2·0	4.7	18	1	+0·5	...	...	...		3	0	0	4	0	0	0	0	0	0
Dholpur	37·6	...	41.7	16	20·0	...	14·0	6	0	3·4	...	3·4	19	1	...	11.6	7.1	...	0	1	0	0	2	0	2	0	0	0	0
Tonk	37.3	...	40·2	30	18·8	...	13 1	10	0	3.6	...	3.6	18	1	...	11.3	7·4	...	0	1	0	0	0	0	0	0	0	0	0
Ajmer	34·9	−1·4	39·5	30	20·7	−1·2	14.9	11	0	0.8	—3.0	0·8	18	0	+0.4	11·2	8·4	+1·2	0	1	0	0	3	0	0	0	0	0	0
Kotah	38·4	−0·3	41·7	30	22·7	−1·6	17·8	3	0.5	4.9	−0·4	4·4	18	1	+0·5	2·6	1·7	−2·6	0	0	0	0	3	0	0	0	0	0	0
Chambal	37·8	...	40·6	30	20·9	...	15·7	11	0	1.0	...	1·0	18	0	...	11·8	7·6	...	2	1	0	0	3	0	0	0	0	0	0
Jhalawar	38·3	+0·2	41·4	30	21·5	+0·3	15·6	11	0	1.2	−5·7	0	...	0	−0·5	10·1	8·5	+0·9	0	0	0	0	2	0	0	0	0	0	0
Udaipur	35·4	−1·1	38·3	30	18·4	−3·4	14·2	2	0.1	1.7	−1·1	1·0	18	0	−0·2	6·4	4·0	...	0	2	0	0	2	0	0	0	0	0	0
Erinpura (Jawai Dam).	36·7	...	41·1	30	21·6	...	14·9	2	0	0	...	0	...	0	...	7·0	5·8	...	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																														
(P. B. O.) Gwalior	37.8	−1.3	41.5	14	20.4	−2.9	14.6	3	0	1.4	—3.7	1.4	19	0	—0.6	12.9	7.4	...	0	1	0	0	1	0	1	0	0	0	0
Sheopur Kalan	37.7	..	40.9	16	19.1	...	14.1	3	0.1	0.7	...	0.6	18	0	...	11.6	7.9	...	1	1	0	0	3	0	0	0	0	0	0
Guna	37.6	0	41.3	17	19.7	+0.3	13.1	11	0	4.2	−3.2	4.2	19	1	+0.5	14.2	9.3	...	0	1	0	1	3	0	0	0	0	1	0

*Data not reliable. (c) Mean of 28 days. (b) Mean of 29 days. (R) Register not received. †Temporarily Closed.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation 0.1 and (0·2mm)	Precipitation 0·3 mm. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Lin: squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20 (b)	21	22	23	24	25	26	27	28	29
Madhya Pradesh (West) *(contd.)*																														
Rajgarh	38·9	...	42.5	16	20·6	...	14·7	11	0	2·1	...	2·1	19	0	...	9·6	7·2	...	0	1	0	0	0	0	0	0	0	0	0
Neemuch	37·0	−0·3	40·5	30	21 3	−0.3	17·0	7	0	0·8	−2·3	0.8	18	0	−0·3	10·3	7·6	−1·9	0	1	0	0	1	0	0	0	0	0	0
Ratlam	38·1	...	40·5	14	21·6	...	17·1	11	0	0	...	0	..	0	...	9·0	7·0	...	0	0	0	0	1	0	0	0	0	0	0
Alirajpur	39·0	...	41·5	15	21·9	...	16·0	7	0	0	...	0	..	0	...	9·3	6·7	...	0	0	0	0	0	0	0	0	0	0	0
Indore	37·9	−0·4	40·4	16	20·0	0	14·6	7	0	0·8	−2·5	0·8	19	0	−0·3	15·8	13·0	...	0	1	0	0	2	0	0	0	0	0	0
Ujjain	38·0	...	40·8	16	19·0	...	13·0	6	0	0	...	0	...	0	...	...	9·7	...	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	37·9	+0·6	40·9	16	20·6	−1·0	14·2	11	3·0	3·5	−2·1	3·0	5	1	+0·3	14·4	12·3	+1·4	0	2	0	0	3	0	1	0	–	0	0
Khandwa	40·5	+0·3	43·0	16	23·6	−0·1	17·2	11	0	0	−2·8	0	..	0	−0·3	11·6	8·6	+0·2	0	0	0	0	0	0	0	0	0	0	0
Hoshangabad	39·3	+0·5	42·0	16	22·9	−0.2	16·2	11	0	0	−3·3	0	...	0	−0·3	8·1	6.0	+2·0	0	0	0	0	1	0	0	0	0	0	0
Betul	37·5	...	39·7	17	20·6	...	15·3	12	2·2	2·2	...	1·4	6	0	...	7·9	4·7	...	0	2	0	0	5	0	0	0	0	0	0
Chhindwara	37·0	...	39·1	15	21·6	...	15·4	11	0	2·2	...	2·2	5	0	...	8·9	6·2	...	0	1	0	0	4	0	0	0	0	0	0
Seoni	37·5	0	40·0	16	21·9	+0·5	17·2	12	16·6	25·6	−10·4	19·8	6	2	+0·3	8·8	5.6	+0·1	0	3	0	0	4	0	0	0	0	0	0
Sagar	37.0	−0·7	41·2	17	24·9	+2.1	19·7	6	0	1·0	−4·3	1·9	19	0	−0·5	11·7	8·1	...	0	1	0	0	2	0	0	0	0	0	0
Nowgong	38·4	−0·4	42·9	17	19·6	−1·6	14·0	3	0	1·2	−3·1	1·2	19	0	−0·3	9·2	5·1	+1.4	0	1	0	0	2	0	0	0	0	0	0
Madhya Pradesh (East)																														
Satna	38·0	−0·1	42·1	17	21·8	−0.1	16·8	3	0	0	−7·1	0	..	0	−0.7	10·2	6·5	+0·5	0	0	0	0	1	0	0	0	0	0	0
Sidhi	38·3	...	42.4	17	20·1	...	16·3	3,4	0	0	..	0	..	0	...	17·0	5·4	...	0	0	0	0	0	0	0	0	0	0	0
Umaria	37·9	+0·7	42·0	17	19·9	−0.5	15·7	9	0	2·0	−9·7	1·4	5	0	−0·9	3·4	1·7	−3·9	0	2	0	0	4	0	1	0	0	0	0
Jabalpur	38·9	+0 8	42·3	17	20·5	+0·3	12·5	11	0	10·2	+2·1	10·2	5	1	+0.2	7·2	4·7	+0·8	0	1	0	0	3	0	0	0	0	0	0
Mandla	37·9	...	40·3	16	18·7	...	11·9	11	2·2	23·8	...	11·4	5	3	..	3·8	2·0	...	0	4	0	0	6	0	0	0	0	0	0
Pendra	36·3	+1·1	39·2	16	22·2	+0·5	15·7	6	0	10·4	−14·2	7·4	6	2	−0.1	11·7	8·6	...	0	2	0	0	5	0	0	0	0	0	0
Ambikapur	37·0	...	40·7	17	20·3	...	15·0	5	0	2·8	...	2·2	20	0	...	11·9	8·6	...	1	2	0	0	2	0	0	0	0	0	0
Champa	39·8	...	43·2	26	23·8	...	19·0	8,9	4·4	9·8	...	3·0	8	2	...	8·8	6·5	...	0	5	0	0	5	0	1	0	0	0	0
Raigarh	40·3	...	43·0	24,26	24·7	...	19·6	12	1·6	1.6	...	1·6	6	0	...	8·1	5·1	...	0	1	0	0	0	0	0	0	0	0	0
Raipur	39·0	−0·3	42.0	26	24·1	−0·5	18·3	6	0	14·3	−2·9	12·5	6	1	−0.7	8·6	7·5	−0·7	0	2	0	0	5	0	0	0	0	0	0
Kanker	38·0	+0·4	40.6	27	24·1	+1·2	17·3	12	0	6·5	−23·2	6·5	9	1	−1·3	8·6	5.6	0	0	1	0	0	5	0	0	0	1	0	0
Jagdalpur	37·5	+0·4	39·4	28	22·6	+0·5	17.3	12	5·2	45 7	+0·5	24·0	22	3	−0·5	6·8	4·7	...	0	4	0	0	7	0	0	0	0	2	0
Gujarat																														
Deesa	38·7	...	42·4	30	20·9	...	17·9	20	0	0	...	0	...	0	...	10·6	7·5	...	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	38·0	...	40·0	29,30	20·9	...	15·6	6	0	0	...	0	..	0	...	9·9	6·3	...	0	0	0	0	0	0	0	0	0	0	0
Idar	38·5	...	41.8	30	23·3	...	19·3	20	0	0	...	0	...	0	...	10·5	9.3	...	0	0	0	0	2	0	0	0	0	0	0
Ahmedabad	39·5	−1·3	42·0	30	22·1	−0·6	17·5	6	0	0	−1·3	0	...	0	−0·1	10·0	6·9	−11·0	0	0	0	0	3	0	0	0	0	0	0
Dohad	38·8	+0·2	41·0	15,29	23·2	−0.2	17·0	6	0	0	−0·5	0	...	0	0	14·7	13.6	..	0	0	0	0	2	0	0	0	0	0	0
Baroda	40·2	+0.8	42·3	15,18	21·8	+1·4	16·7	6	0	0	0	0	...	0	0	6.6	4·7	−0·6	0	0	0	0	1	0	0	0	0	0	0
Baroda (Aerodrome)	40·0	...	41·7	15	21·5	...	16·7	6	0	0	...	0	...	0	0	9·1	6·8	...	0	0	0	0	1	0	0	0	0	0	0
Broach	40·7	...	43·2	15	22·9	...	19.1	6	0	0·3	...	0·3	16	0	...	8·3	6·7	...	0	1	0	0	0	1	0	0	0	0	0
Surat	38 4	+1·1	41·7	3	23·4	+0·2	19·5	1	0	0	−0·8	0	...	0	−0·1	(c) 8·4	8·5	+1·7	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																														
Naliya	34 7	...	38·7	10	18·5	...	14·4	4,6	0	0	...	0	...	0	...	17·6	11·8	...	0	0	0	0	0	17	0	0	0	0	0
Bhuj (Aerodrome)	37·9	+0·2	40.4	8	20·4	−1·8	15·3	2	0	0	−1·8	0	...	0	−0·1	13·1	10.7	−1·9	0	0	0	0	0	0	0	0	0	0	0
Bhutakia Bhimasar	38.3	..	41·3	30	23·1	...	18·6	19	0	0	...	0	...	0	...	18·0	17·6	...	0	0	0	0	0	0	0	0	0	0	0
Kandla	34·7	...	37·8	10	22·7	...	19·7	19	0	0	...	0	...	0	...	16·1	15·1	...	0	0	0	0	0	0	0	0	0	0	0
Mandvi	32·4	...	36·8	3	21·0	...	18·8	1	0	0	...	0	...	0	...	26·1	21·1	...	0	0	0	0	0	1	0	0	0	0	0
Dwarka	29·7	+0.2	30·6	4 days	23·4	−1·3	21·3	6	0	0	−0·8	0	...	0	0	16·1	15·3	−0·1	0	0	0	0	0	0	0	0	0	0	0
Porbander	32·7	...	37·9	7	22.6	...	20·6	2, 13	0	0	...	0	...	0	...	20·0	16.0	...	0	0	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20·7	17.6	...	...	...	0	0	0	2	0	0	0	0	0
Jamnagar	35·8	+0·5	39·1	8	20·5	−0·2	15·7	2	0	0	−0·5	0	...	0	0	...	...	...	0	0	0	0	0	2	0	0	0	0	0
Rajkot (Aerodrome)	38·2	−0·6	40·4	30	20·4	−0·4	16·7	1	0	0	−0·8	0	...	0	−0·1	19·8	17·7	..	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	39·1	...	40·7	30	23·2	...	20·1	2	0	0	...	0	...	0	...	14·4	13·3	...	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar	39·7	+0·8	41·2	23,24,25	22·2	−0·9	18.4	2, 19	0	0	−2·5	0	...	0	−0·3	11·2	9·0	−0·2	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar (Aerodrome).	38·1	...	40·2	3,16	23·4	...	20·0	2	0	0	...	0	...	0	...	19.5	15·7	...	0	0	0	0	0	0	0	0	1	0	0
Mahuva	36·7	...	41·5	25	23.4	...	18·6	4	0	0	...	0	..	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Keshod	39·0	...	40·5	4,14	20·1	...	15·8	1	0	0	...	0	...	0	...	20·5	16·8	...	0	0	0	0	0	2	0	0	0	0	0
Veraval	33·5	...	40·3	7	20·6	...	16·7	1	0	0	0	0	...	0	0	24·3	19·8	...	0	0	0	0	0	1	0	0	0	0	0
Konkan																														
Dahanu	32·6	+0·8	35·5	12	23·2	−0·7	20·8	1	0	0	−24·4	0	...	0	−1·0	17·4	13·7	−0·1	0	0	0	0	0	0	0	0	0	0	0
Bombay (Colaba)	32·7	+1·0	34·8	14	24·9	+0·4	21.9	1	0	0	−0·8	0	...	0	0	13·8	10·3	−1.1	0	0	0	0	1	0	0	0	0	0	0
Bombay (Santacruz Aerodrome).	33·7	+1·6	37·7	3	23·6	+1·2	20·8	1	0·4	0·5	+0·2	0·5	28	0	0	16·5	9.8	...	0	1	0	0	1	0	0	0	0	0	0
Alibag	31·7	+0·8	36·5	13	24·0	−0·1	21·2	9	...	0	−0·3	0	...	0	0	...	10·9	0	0	0	0	0	0	0	0	0	0	0	0
Harnai	30·2	0	33·3	25	26·1	+0.8	23.0	1	0	0	−12·7	0	...	0	−1·0	17·5	14·2	−0·8	0	0	0	0	0	0	0	0	0	0	0

Mean of 28 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5mm or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation 0·1 and 0.2	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunderheard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Konkan—(*Contd.*)																													
Ratnagiri	32·3	...	33·9	13,27	25·4	...	22·2	2	0	0	−2·5	0	...	0	−0·3	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Devgad	32·1	−0·1	34·2	30	26·5	+0·1	24·1	1	0	0	−8·6	0	...	0	−0·6	17·5	13·5	−2·6	0	0	0	0	0	0	0	0	0	0	0
Vengurla	33·1	...	35·2	27	24·5	...	20·5	1	0	0	...	0	...	0	...	13.2	7·2	...	0	0	0	0	0	2	0	0	0	0	0
Maharashtra (Including Marathwada)																													
Nandurbar	40·7	...	42·6	15	25·9	...	22·0	11	0	0·5	...	0·5	18	0	...	9·5	8.4	...	0	1	0	0	0	0	0	0	0	0	0
Jalgaon	41·9	...	43·6	16	23·5	...	15·6	11	0	0	−1·8	0	...	0	−0·2	14·8	12·9	...	0	0	0	0	0	0	0	0	0	0	0
Malegaon	40·2	+0·6	42·5	15	21·8	+0·2	16·9	12	0	0	−3·1	0	...	0	−0·3	11·0	9·0	−1·1	0	0	0	0	0	0	0	0	0	0	0
Deolali	38·3	...	40·4	15	20·5	...	16·0	11	0	0	...	0	...	0	...	10·1	8·1	...	0	0	0	0	4	0	0	0	0	0	0
Aurangabad	38·8	+0·3	40·2	30	...	...	...	..	0	0	−6.1	0	...	0	−0·6	11·3	10·5	−1·6	0	0	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome)	38.7	...	40·1	27	22·4	..	14·9	12	0	0	...	0	...	0	...	12·7	10·5	...	0	0	0	0	0	0	0	0	0	0	0
Khandala	...	...	...	...	...	...	...	..	0	0	−7·9	0	...	0	−0·7	...	...	...	0	0	...	...	...	...	...	...	...	...	...
Ahmednagar	39·3	+1·4	40·7	26	22·5	+1·5	20·1	3,13	0	0·2	−10.0	0.2	19	0	−1·1	9·7	7·7	−2·1	1	0	0	0	0	0	0	0	0	0	0
Bhir†	..	..	..	..	...																								
Parbhani	40·4	...	42·1	27	24·1	...	19·3	11	0	0	−10.7	0	...	0	−1·2	11·2	8·1	...	0	0	0	0	2	0	1	0	0	0	0
Nanded	40 5	..	42·3	26,28	23·3	..	16·6	12	0	2·2	...	2·2	30	0	...	8.3	6·3	...	0	1	0	0	1	0	0	0	0	0	0
Poona	39·1	+0·8	40·9	24	21·0	+0.8	18·0	9	2·2	2·4	−12.6	2·4	15	0	−1.3	5.0	3.7	−6·6	0	1	0	1	3	0	0	0	0	0	0
Poona (Lohagaon Aerodrome)	38·1	...	39·7	23	21·2	...	16·9	21	0	0	...	0	...	0	...	...	...	...	0	0	0	0	5	0	0	0	0	0	0
Baramati	39·1	...	40.5	24	22·4	...	18·2	9,12	0	0	...	0	...	0	...	10·6	9·7	...	0	0	0	0	3	0	0	0	0	0	0
Jeur	39.6	...	40·5	24,25	22·5	...	14·4	12	0·1	0·1	...	0.1	27	0	..	11·0	9·3	..	1	0	0	0	4	0	1	0	0	0	0
Sholapur	39 6	−0·1	41·7	24.25	24·3	+0·2	19·8	12	0·5	8·1	−5 4	5·9	8	1	−0·2	10·6	9.0	−1·3	0	2	0	0	1	0	0	0	0	0	0
Miraj	38·1	+0·8	40·0	24,25	21·5	+0·4	17·9	12,13	2·8	6·2	−44.3	2·8	29	1	−2.1	...	...	...	0	4	0	0	5	0	0	0	0	0	0
Kolhapur	38·0	+1·2	40·7	24	21·4	+0.1	18·6	9,13	0·4	4·4	−28.9	2·0	7,30	0	−2·8	12·8	11.4	−1.7	0	3	0	0	5	0	0	0	0	0	0
Vidarbha																													
Buldhana	37·8	...	39·5	30	25.1	...	22·0	8,11	0	1.5	...	1.5	19	0	..	11.6	9·1	...	0	1	0	0	0	0	0	0	0	0	0
Akola	40·9	+0·1	42·7	16	24·4	+0·6	17·5	11	0	0	−5.1	0	...	0	−0·5	5.0	3·5	−3.7	0	0	0	0	0	0	0	0	0	0	0
Amravati	40·5	+0·3	42·0	17,,27,30	23.9	−0·8	...	...	0	19·0	+10.4	18·4	6	1	+0·2	13.7	10·2	+2·8	0	2	0	0	3	0	1	0	0	0	0
Yeotmal	40·2	...	43·6	17	...	...	...	...	0	0	..	0	..	0	...	11·7	8·5	...	0	0	0	0	0	0	0	0	0	0	0
Nagpur	39·6	−0·6	41·8	26	22·4	−1·7	18·3	9	1·0	8·1	−7.1	3·0	5	1	−0.3	12.2	9·5	...	0	4	0	0	9	0	0	0	0	4	0
Gondia	39·3	...	41·5	4	23·5	...	18·3	12	15.0	26·6	...	15·0	8	3	...	6·3	4·1	...	0	5	0	0	3	0	0	0	0	0	0
Brahmapuri	39.6	...	43·0	27	23·9	...	17·0	12	0	2·8	..	2·6	20	1	...	8·8	6·1	...	1	1	0	0	0	0	0	0	0	0	0
Chanda	40·0	−0·8	42·6	28	24·3	+0 4	17·9	12	0	20·6	+0·8	20·6	21	1	−0·8	7.8	5·0	+0·3	0	1	0	0	5	0	0	0	0	0	0
Sironcha	40·4	...	42·8	28	26·4	...	20·6	12	0	1·8	...	1·4	22	0	..	7·8	5·8	...	0	2	0	0	5	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Nellore	37.0	−0·4	41·6	23	25.3	+0·1	23.1	1	0	0	−12·2	0	...	0	−0.6	10.7	10.1	+1.1	0	0	0	0	0	0	0	0	0	0	0
Ongole	35·1	..	40·3	29	25·8	...	23·6	7	0	0	...	0	...	0	...	13·6	9·3	...	0	0	0	0	0	0	0	0	0	0	0
Rentachintala	40·5	+1·9	42·7	29	26·2	0	21·9	1	0	0	−30·2	0	...	0	−2·7	7·4	7·6	−3·0	0	0	0	0	0	0	0	0	0	0	0
Gannavaram	37·8	...	41·6	29	25·2	...	21·6	1,2	0	0	...	0	...	0	...	8·1	6·1	...	0	0	0	0	0	0	0	0	0	0	0
Masulipatam	33·7	−0·9	35·8	12	24·9	−0.5	21·4	1	0	0	−17·5	0	...	0	−0·9	15·1	9·7	+0·4	0	0	0	0	0	0	0	0	0	0	0
Nidadavolu	36·2	...	39.3	30	26·3	..	19.1	1	0	0	...	0	...	0	...	9·1	5·5	..	0	0	0	0	0	0	0	0	0	0	0
Kakinada	36·5	+0·9	39·6	26,29	25·5	−0 3	23·4	1	0	0	−16·3	0	...	0	−1·0	10·8	8·0	−0·2	0	0	0	0	0	0	0	0	0	0	0
Visakhapatnam	36.3	+0.4	40.5	29	25.4	+0.1	23.0	3,8	0	0	−18.0	0	...	0	−1.3	22.4	14.4	+0.7	0	0	0	0	1	0	0	0	0	0	0
Calingapatam	33·4	−0.2	36·5	7	25·7	0	21.8	28	0	0	−19.3	0	...	0	−1.5	21.2	15·8	+2.4	0	0	0	0	0	0	0	0	0	0	0
Telangana																													
Ramagundam	40·4	...	43.2	27	25·5	...	19·2	12	1.4	1·7	...	1·4	24	0	...	9.6	7·8	...	0	2	0	0	2	0	3	0	0	0	0
Nizamabad*	39·2	−0·6	42	25	24·0	−0·6	18	12	0	0	−21·6	0	...	0	−2·0	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Mahbubnagar	38·0	...	39·8	25	23·5	...	20·2	13	0	0·7	...	0·4	21	0	...	10·1	8·2	...	0	2	0	0	3	0	0	0	0	0	0
Hyderabad (Begumpet Aerodrome)	37·1	0	38·3	30	23·2	−0·5	17·6	12	0·2	3·5	−26·2	1·8	9	0	−1·9	13·3	9·7	−0.8	1	2	0	0	3	0	0	0	0	2	0
Hakimpet	36·3	...	37·9	27	23·6	...	20·2	6	0	14·2	...	11·9	22	1	2	...	..	...	0	2	0	0	5	0	0	0	0	1	0
Hanamakonda	39·4	+1·2	41·6	25,28	24·6	−0·5	19·4	12	0	1·2	−21.9	1·2	29	0	−1·6	11·0	10·6	+1·1	0	1	0	0	3	0	0	0	0	0	0
Bhadrachallam	39·8	...	42·8	30	25·6	...	22·4	12	0	2·0	...	2·0	24	1	...	7·8	7·6	...	0	1	0	0	2	0	0	0	0	0	0
Khammameth	39·5	...	42·9	28	25·8	...	22·7	1	0	0	...	0	...	0	...	6·2	6·0	...	0	0	0	0	1	0	1	0	0	0	0
Rayalseema																													
Arogyavaram	35·0	...	37·2	30	21·3	...	18·2	3	7·4	32·4	...	28·4	21	2	...	8·2	7·3	...	0	2	0	0	3	0	0	0	0	0	0
Cuddapah	40·3	−0·1	42·8	29,30	21·9	−5·3	19·4	14	0	0	−14·5	0	..	0	−1·1	8·1	6·8	−4·5	0	0	0	0	0	0	0	0	0	0	0
Anantapur	39·0	...	40·9	25	25·5	...	18·6	1	0	1·9	−14·4	1·8	27	0	−1·3	11·0	10·8	...	1	1	0	0	2	0	0	0	0	0	0
Kurnool	39·5	−0.3	41.9	22	25·5	−0·6	20·2	2	0	27·3	+10·3	27·3	22	1	−0·5	11·2	9·3	+1·7	0	1	0	0	5	0	0	0	0	0	0
Madras State																													
Palayamcottai	34·2	...	37·2	23	24·6	...	22·3	3	68·2	137·6	+31·2	36·4	2	7	+3·3	7·6	6·1	...	0	7	0	0	6	0	0	0	0	0	0
Tuticorin	31·5	...	35·0	29	27·4	...	23·2	3	48·0	122·0	...	41·4	14	5	...	...	...	...	0	7	0	0	0	0	0	0	0	0	0
Pamban	32·0	−0·8	33·4	27	26.4	−0·1	22·5	5	61·3	77·9	+31·2	61·3	16	2	−1·2	9·7	9·7	−0.1	1	2	0	0	0	0	0	0	0	0	0
Tondi	31·4	..	33·6	27	26·4	..	23·9	3	34·2	58·2	...	28·6	3	6	...	16·2	14.8	...	0	9	0	0	11	0	0	0	0	0	0
Mathurai	34·9	−1.7	37·6	29	25.2	+0·4	21·9	3	58.2	87·2	+32·3	30·2	3	6	+2.9	5·7	6·9	+2·2	0	8	0	0	0	0	0	0	0	0	0

†Observator started on 24-4-60.

* Data collected from weather telegram.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—APRIL, 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Division and Station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Prec (0.1 and 0.2mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line-squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Madras State—*Contd.*																													
Mathurai (Aerodrome)	34.7	...	36·9	29	24·6	...	21·8	3	132·6	148·2	...	51·4	3	5	...	9·1	7.9	...	0	6	0	0	9	0	0	0	0	0	0
Adirampattina n	33·1	...	38·5	28	25·2	...	22·9	3,16	46·0	50·6	...	21·2	15	3	...	14·9	11·5	...	0	6	0	0	1	0	0	0	0	0	0
Nagapattinam	33·3	0	36·8	27	26·5	0	24.8	3	29·8	30·3	+2·1	14·4	22	3	+1·7	16·3	13·0	+2·9	0	4	0	0	1	0	0	0	0	0	0
Tiruchirapalli	36·1	—1·7	39 3	30	25·7	+0·1	22·6	3	38·7	38·7	—7·0	13·4	2	4	+2·0	10·6	11·0	+2·1	1	5	0	0	6	0	0	0	0	0	0
Coimbatore	35·2	—0·6	36·9	13	23·5	+0.4	21·6	28	44·0	63·4	+23·3	44·2	6	3	—0·2	8·4	6·5	+2·3	0	7	0	0	7	0	0	0	0	0	0
Coimbatore (Peda-medu Aerodrome).	35·3	...	37·3	13	23·2	...	21·5	4 days	21·3	40·2	...	18·3	6	4	...	14·5	13·9	...	0	6	0	0	6	0	1	0	0	0	0
Salem	37·0	—0·9	39·8	28	25·1	+0·4	22·9	21	18·4	36·0	—13·0	14·8	4	3	—0·6	9·6	8·9	+2·6	0	6	0	0	11	0	0	0	0	0	0
Kallakurichi	37·3	...	40·4	27	...	...	..	...	5·8	20·8	...	15·0	21	2	...	8·2	6·7	...	1	1	0	0	3	0	0	0	0	0	0
Cuddalore	33.1	—0 3	36·9	27	24·9	—0.5	22·5	1	1·2	2·8	—22·1	1·6	15	0	—1·1	14·1	9·6	+1·4	0	2	0	0	1	0	0	0	0	0	0
Tirupattur	36·8	...	40·2	30	25·0	...	22·5	2,5	10·0	10·0	...	10·0	5	1	...	3·0	2·5	...	0	1	0	0	4	0	0	0	0	0	0
Vellore	37·4	+0·3	40·3	30	24·3	—0·3	21·7	1	0	0	—25·4	0	...	0	—1·5	12·0	9·2	+3·2	0	0	0	0	2	0	0	0	0	0	0
Tambaram (Aerodrome)	...	...	..	..	25·5	...	23·3	1,2	0	0	...	0	...	0	...	...	..	...	0	0	0	0	0	0	0	0	0	0	0
Madras	35·6	+0·3	39·5	28	25·9	+0.3	23·3	13	0	0	+15·5	0	...	0	—0·9	15·2	10·5	—0.9	0	0	0	0	0	0	0	0	0	0	0
Madras (Nungambakkam)	33·7	...	36·0	27,30	25·6	...	22.7	1	...	0	...	0	...	0	...	...	7·5	...	0	0	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	32·3	...	33·6	14	25·3	...	22·4	1	23·9	23·9	+10.7	23·9	29	1	+0·1	16·1	11·1	...	0	1	0	0	2	0	0	0	0	0	0
Honavar	32·8	+0·1	33.7	14	...	...	..	...	1·0	9·1	—7·7	4·2	28	2	+0,8	10·2	7·9	+2·6	0	4	0	0	9	0	0	0	0	0	0
Mangalore	32·5	—0·4	34·2	14	25·5	—0·3	22·3	17	0	44·1	+5·2	15·8	17	4	+1·7	11.3	8·9	+0·9	0	5	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe Aerodrome)	33.5	...	34·9	10,14	24·7	...	21·9	27	0	46·9	...	22·6	3	3	...	11·4	8·2	...	1	6	0	0	14	0	0	0	0	0	0
Interior Mysore (North).																													
Bidar	36·8	—0·3	38·4	25	2	—0·1	21·0	29	25·6	25·6	—1.6	22·8	9	2	—0·5	13·7	12·3 (p)	+2·0	0	2	0	0	3	0	0	0	0	0	0
Gulbarga	39·1	—0·6	41·0	21	24·2	—0.4	21·4	12	1·4	6·4	—14·7	6·2	22	1	—1·1	..	7·0	—3·3	1	1	0	1	5	0	0	0	0	0	0
Bijapur	38·8	+0·6	41·0	24	24·3	+0·7	20·3	12	0	19·7	—1·9	13·8	7	3	+1·2	8·2	7.4	0	0	3	0	0	3	0	0	0	0	0	0
Belgaum	35·8	—0·5	37·5	23,30	20·2	+0·6	16·5	9	12·0	21·2	—23·3	12·4	7	2	—1.3	12·8	7·7	—0·1	0		0	0	2	0	0	0	0	0	0
Belgaum (Sambra Aerodrome).	35·6	...	37·5	2,23,24	20·2	...	16·6	9	34·5	37·9	..	32·5	19	1	...	...	...	...	0	3	0	0	8	0	0	0	0	0	0
Gadag	37·2	+0·1	39·6	22	22·7	+0·3	19·7	9	34·0	37·8	+10·7	31·0	24	2	—0.8	9.8	9·8	0	1	4	0	0	4	0	0	0	0	0	0
Raichur	39·2	0	40·5	21,26,31	25·3	—0.7	16.3	22	0	1.2	—15·1	0	..	0	—1·4	12·5	11·1	+1·4	0	1	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	38·6	—0·7	40·8	3·0	25·2	0	22·3	27	7.6	12·8	—8·5	6·6	19	1	—0.9	9·8	7·8	+1·5	0	4	0	0	5	0	0	0	0	0	0
Chitaldrug	35·5	—0·8	37·2	22,25,30	23·1	+0·4	20·1	1	1·6	22·8	—1·8	12·2	27	2	0	7·3	6·7	—0·2	1	6	0	0	2	0	0	0	0	0	0
Shimoga	35·6	...	37·4	30	22·1	...	16·4	1	15·0	26.8	...	15·0	9	3	...	6·1	4·8	...	2	6	0	0	8	1	0	0	0	0	0
Balehonnur	30·5	—0·2	33·4	1	19·2	+0·3	17·4	26	...	244·1	+153·9	49·5	26	10	+3·5	...	...	...	0	11	0	0	0	0	0	0	0	0	0
Hassan	32·7	—0·9	35·5	25	20·5	+0·9	16·8	1	1.8	44·4	—11.5	24.4	26	3	—1.2	5·8	5·8	—0·5	0	7	0	0	13	2	0	0	0	0	0
Mysore	33·1	—1·7	34·5	14	20·4	—0·9	17·4	20	8·0	65·5	+7·1	29·6	20	5	+0·4	10·7	8·3	+0·6	1	9	0	0	8	1	0	0	0	0	0
Bangalore (Central Observatory)	33·7	+0·1	35·5	25	21·8	+1·2	18·4	1	2·3	2·3	—38·6	2·3	20	0	—2·6	9.7	9.1	+2·2	0	1	0	0	3	0	0	0	0	2	0
Bangalore (Aerodrome)	35·0	...	38·3	14	21·7	...	18·2	1	0	0·2	...	0.2	16	0	...	...	...	...	1	0	0	0	4	0	0	0	0	3	0
Kerala																													
Kozhikode	32·7	—0·1	33·6	30	24·5	—1·3	22·2	20	21·6	160.2	+69·3	43·6	5	10	+5·8	14.4	10·1	—0·7	0	11	0	0	18	0	0	0	0	0	0
Palghat	35·4	...	39·2	30	24·5	...	21·3	5	32·7	124·3	...	36·0	5	7	...	9·4	7·3	...	0	8	0	0	18	0	0	0	0	0	0
Fort Cochin	31·8	+0·4	34·0	14	25.2	—0·7	23·3	21	36·5	193·2	+67·7	68·8	21	10	+3·3	11·5	8·8	+0·3	0	13	0	0	21	0	0	0	0	0	0
Cochin (Naval Air Station).	32·4	...	33·4	30	24·8	...	22·8	19	45·5	230·4	...	88.6	21	13	...	11·0	9·0	...	0	16	0	0	25	0	0	0	0	3	0
Alleppey	32·7	...	34·3	1	25·1	...	23·3	5	23·2	152·4	...	38·4	2	12	...	13·8	9·7	...	0	16	0	0	19	0	0	0	0	0	0
Punalur	34·5	...	36·5	1	23·2	...	21·8	3	235·6	340·6	...	78·8	26	14	...	5·2	3·3	...	0	16	0	0	1	0	0	0	0	0	0
Trivandrum	32·1	—0·2	35·3	6	24·1	—0·1	22.2	7	131·8	176·3	+60·7	42·4	29	10	+3·1	9·0	6·2	—0·7	2	10	0	0	18	0	0	0	0	0	0
Trivandrum (Aerodrome).	32.7	...	34·0	6	24·2	...	22.4	7	...	169·4	...	50·0	16	8	...	...	7·4	...	..	8	0	0	11	0	0	0	0	0	0
Arabian sea Islands																													
Minicoy*																													
Amini Divi*																													
Hill Stations excluding Kashmir.																													
Walong (R).																													
Kohima	26·8	...	30·1	30	18.4	...	13.2	10,12	20.6	30.0	...	12.2	12	3	...	4·1	5·3	...	0	4	0	0	0	0	0	0	0	0	0
Aijal	29·8	...	32·6	30	19·8	...	14·5	12	0	52·2	...	27·7	21	6	...	1·2	0·9	...	0	6	0	0	0	0	0	0	0	0	0
Shillong	26·9	+3·5	29·8	29	16·0	+2·1	11·0	5	0	1·8	—127·7	1·8	10	0	—9.2	10·3	9·9	+1·5	0	1	0	0	0	0	0	0	0	0	0
Cherrapunji	24·2	+2.4	27·3	19	16·3	+1.4	13·6	3	19.8	316·3	—349·9	141·0	20	10	—6·0	18·4	14.4	+3·8	0	11	0	0	0	0	0	0	0	0	0
Darjilling (Raj Bhawan).	20·0	+2·7	23·3	20,21	11·8	+1·5	5·4	7	0	17·6	—87·6	9·3	18	2	—5·5	4·6	3·5	0	0	2	0	0	0	9	6	0	0	0	0
Kalimpong	25·5	+2·1	29·7	16, 17	16·3	+1·0	12.9	24	0	0	—69·3	0	...	0	—5·8	5·1	3·7	—9·0	0	0	0	0	0	0	0	0	0	0	0
Mukteswar (Kumaon)	20·7	+0·8	25.9	17	10·0	—0·2	3·0	7	4·2		—7·6	10.6	6	4	+0·7	17·3	17·6	+6·8	0	6	0	3	6	0	0	0	0	0	0
Nainital	20·5	...	26·4	17	12.3	...	6·1	6	0	15·5	...	8·0	19	2	...	10.4	8.8	...	0	3	0	0	0	0	0	0	0	0	0
Joshimath	21·8	...	26.2	16	10·1	...	4·3	10	25·4	93.9	...	37.5	10	5	...	8.4	9·7	...	0	8	0	0	2	0	0	0	0	0	0
Badrinath	closed during winter months																												
Lokpal	—0·8	...	1.1	30	—4·3	...	5·1	1	0	78·2	...	29.0	6	8	...	...	...	...		13	5	4	1	0	0	0	0	0	0

(R) Register not received. (p) Mean of 15 days. *Data given as addenda in December 1960 issue.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squal Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—(Contd.)																												
Mussooree	20·9	+0·2	25·9	17	10·5	−1·1	5·4	19	0	17·0	−16·8	6·6	19	3	−0·8	10·9	9·0	+0·6	0	3	0	0	4	0	0	0	0	0
Simla	18·1	−0·7	22·9	13	10·0	−0·3	1·4	9	2·6	19·4	−26·6	8·4	23	3	−1·1	5·7	4·8	+2·0	1	4	0	0	2	0	0	0	0	0
Dalhousie*																												
Dharamshala	25·6	...	30·2	16, 18	15·1	...	7·3	23	4·5	19.9	...	10·1	23	3	...	7·4	6.6	...	0	4	0	1	5	0	0	0	0	0
Abu	29·5	+0·4	33·9	30	18·3	−1·9	13·1	20	0	0·4	−2·4	0·4	17	0	−0.3	5·8	4·6	−4·9	0	1	0	0	1	0	0	0	0	0
Pachmarhi	33·5	+0·2	35.7	16,17	19·3	−1·1	14·1	27	11·4	27·0	+17·6	21·8	5	2	+1·1	7·5	5·7	−1·1	0	2	0	0	5	0	0	0	0	0
Mahabaleshwar	30·9	+1·2	33.6	13,14,24	20·4	+1·5	18·0	19	1·0	1·0	−29·0	1·0	28	0	−1·5	11·2	11·4	+0.1	0	1	0	0	3	0	0	0	0	0
Mercara	28·3	−0·4	31·6	1	18·0	+0·3	16·0	9	78·7	155·5	+ 5	59·5	3	10	+4·9	8·7	7·6	+2·5	0	14	0	0	3	0	0	0	0	0
Kodaikanal	19·4	−0·7	21·3	12	10·9	−0.8	8·3	7	204·7	377·2	+254·8	78·6	3	13	+5·3	13·3	12·9	+0·8	0	18	0	1	20	0	0	0	0	0
Ootacamund	22·0	+0·1	23·4	25,26	10·0	−0·8	7·2	10	19·5	71·5	−5·7	23·6	21	7	+0·5	2·3	1·7	−3·6	0	10	0	0	4	0	0	0	0	0
Coonoor	23·4	−0·3	25·0	30	13·5	−0·1	10·9	2	0	327·4	+178·3	79·4	3	6	−0·9	...	6·2	+1·1	0	8	0	0	5	0	0	0	0	0
Nepal																												
Kathmandu	28·9	...	32·8	19	9·3	...	6·0	2,3	8·2	17·2	...	7·8	10	3	...	3·1	1·6	...	0	4	0	0	2	1	0	0	0	0
Sikkim																												
Lachen	15·9	...	20·0	19	5.4	...	1·1	8	...	46·4	...	18·0	10	4	...	...	...	...	0	8	0	0	0	0	0	0	0	0
Tibet																												
Yatung (Chumbi) (R)																												
Ceylon																												
Colombo	31·1	−0.5	31·8	21	23·7	−0·7	22·1	4,15	35.2	206·4	−33·1	32·0	15	16	+5·1	...	...	...	0	24	0	0	10	0	0	0	0	0
Trincomalee	31·7	−1·5	35.2	25	25.3	0	23·4	4	26.3	83 5	+33·2	23·9	4	8	+4·7	...	...	...	0	10	0	0	10	1	0	0	0	0
Batticoloa	30·8	...	32·8	24	24·9	...	23·3	15	15·6	129·8	...	41·1	2	5	...	...	...	...	0	9	0	0	12	0	0	0	0	0
Hambantota	30·9	−0·1	31·7	7	24·6	+0·1	23·1	15	3.8	87·1	−8·7	27·7	2	4	−2·2	...	...	...	0	5	0	0	5	0	0	0	0	0
Mannar	32·2	...	33.7	30	25·4	...	23·5	15	81·6	95·0	...	29·2	4	8	...	...	...	...	0	14	0	0	15	0	0	0	0	0
Hydrometeorological Observatories																												
Damodar Catchment																												
Bokaro	39·3	...	42·8	17,18	21·6	...	16·1	12	0	0	...	0	...	0	...	8·2	4·7	...	0	0	0	0	0	0	0	0	0	0
Hazaribagh	35·4	...	39·3	18	21·7	...	15·6	7	0	2·4	...	2·4	6	0	...	16·7	10·1	...	0	1	0	0	0	0	0	0	0	0
Tilaiya	37·4	...	40·8	18	23·6	...	17·8	4	0	1·1	...	1·1	6	0	...	18.9	12.7	...	0	1	0	0	0	0	0	0	0	0
Ramgarh	39·2	...	42·7	18	22·8	...	17·1	8	0	3·5	...	3·5	11	1	...	6·8	3·4	...	0	1	0	2	0	0	0	0	0	0
Panchet Hills	40·1	...	43·8	18	24·6	...	19·5	4	0	0	...	0	...	0	...	12·8	8·6	...	0	0	0	0	0	1	0	0	0	0
Durgapur	39·8	..	43·1	18	25·3	...	20·0	7,12,13	0	0	...	0	...	0	...	14.0	9·3	...	0	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																												
Hirakud	39·1	...	41·8	26,27	25·4	...	20.2	12	1·2	18·6	...	11·4	8	3	...	6.0	4·8	...	1	4	0	0	7	0	0	0	0	0
Khijrawan	37·7	..	40·6	27,29	23·1	...	16·3	12	4·0	12·0	...	6·5	9	2	...	10·2	6·0	...	0	4	0	0	1	0	0	0	0	0
Sonepur	39·9	...	42·8	27,28	15·9	...	11·7	6	...	14·8	...	13·4	6	1	...	...	5·0	...	0	2	0	0	0	...	...	...	...	...
Ginabahar	39·8	...	41·7	17,18	20·9	...	17·1	8	...	4·5	...	4·5	5	1	...	...	...	...	0	1	0	0	0	0	0	0	0	0
Bhimkund	39.0	...	41·8	18	21·4	...	15·8	8	7.9	11·2	...	6·0	20	2	...	1·5	0·6	...	0	3	0	0	5	0	0	0	0	0
Narbada Catchment																												
Punasa	40·4	...	42·2	16	22·6	...	17·8	6	0	0	...	0	...	0	...	7·8	5·1	...	0	0	0	0	0	0	0	0	0	0
Bagra Tawa	39·7	...	42·6	17	22·3	...	15·2	11	13·6	14·6	...	14·6	5	1	...	8·6	5·4	...	0	1	0	0	2	0	0	0	0	0
Thikri	41·3	...	43·6	16	23·5	...	18.1	11	...	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																												
Thadol	35·6	...	38·6	30	14·4	...	10·1	2	...	0	...	0	...	0	...	...	...	...	0	0	...	...	...	...	...	...	...	...
Dharoi	39·0	...	42·3	30	20·8	...	14·5	6	0	0	..	0	...	0	...	...	...	...	0	0	...	...	...	...	...	...	...	...
Ganga Catchment																												
Mukhim	...	...	...	...	(b) 11·5	...	6·5	10	20·8	40·3	...	9·0	10	6	...	...	...	...	0	9	0	0	3	0	0	0	0	1
Tehri	32·4	...	31·2	16	14·7	...	11·1	1	0	9·8	...	4·2	10	2	...	5·6	3·6	...	0	3	0	0	4	0	0	0	0	0
Gandak Catchment.																												
Gorkha	30·4	...	35·1	11,29	...	...	...	...	0	31·0	...	31·0	9	1	...	...	...	...	0	1	...	...	...	...	...	...	...	...
Pokhara	30·6	...	34·6	20	17·0	...	10·3	10	17.5	28·9	...	9·9	6	4	...	...	...	...	0	5	...	...	...	...	...	...	...	...
Nawakot	31·9	...	35·7	22	17.6	...	11·4	10	0·7	8·0	...	6·0	9	1	...	...	...	...	0	3	...	...	...	...	...	...	...	...
Jomosom	(b) 17·9	...	23·9	17	...	...	...	...	13·7	53·9	...	18·5	9	5	...	...	..	...	0	5	...	...	...	...	...	...	...	...
Khudi Bazar	...	...	...	...	...	...	...	...	...	56·8	...	16·8	6	5	...	...	...	...	0	5	...	...	...	...	...	...	...	...
Timure	25·4	...	29·8	19	12·7	...	8·3	9	19·8	44.9	...	14·0	6	4	...	...	—	...	0	6	...	...	...	...	...	...	...	...
Gogra Catchment (Trans Himalayan Region)																												
Dailekh (R)																												
Gogra Catchment																												
Dandeldhura	22·9	...	27·1	17	(c) 12·5	...	(c) 6·1	9	6·0	23·0	...	10·1	9	3	...	...	...	...	1	5	0	0	4	0	0	0	0	0
Munsiyari	18·6	...	22·5	16,17	(c) 10·5	...	1·7	9	23·8	79·5	...	30·3	10	5	...	...	...	...	0	7	..	...	...	...	...	...	...	...
Butwal	36.9	...	41·7	20	22·2	...	16.5	3	0	0	...	0	...	0	...	...	...	..	0	0	...	...	...	...	...	...	...	...

*Data not reliable. (b) Mean of 29 days. (c) Mean of 26 days. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—*Concld.*																													
Bagmati Catchment																													
Katmandu*																													
Kosi Catchment																													
Chautara	28·8	...	33·4	19	15·8	...	9·0	10	12·5	15·4	...	8·1	10	2	...	...	...	...	0	4	...	...	...	...	...	...	...	...	...
Chepua	...	...	...	...	...	...	...	...	6·0	152·2	...	44·4	9	7	...	...	...	...	0	8	...	...	...	...	...	...	...	...	...
Okhaldunga (R)																													
Barahkshetra	36·1 (b)	...	40·6 (b)	21	21·3 (c)	...	16·1 (c)	4	0	0	...	0	..	0	...	13·4	5·4	...	0	0	0	0	1	0	0	0	0	0	0
Angbung	29·4	...	32·8	20	15·6	...	8·2	7	0	37·0	...	25·0	7	2	...	...	...	...	0	6	..	...	...	...	...	...	...	...	...
Taplejung	23·6	...	26·9	20	12·6	...	6·2	7	37·0	59·4	...	27·0	18	4	...	...	...	...	0	8	0	0	7	0	0	0	0	0	0
Taplethok	27·8	...	30·5	23	14·9	...	11·1	9	8·4	49·2	...	21·2	8	4	...	...	...	...	0	9	...	...	...	...	...	...	...	...	...
Wallung Chung Gola	13·4	...	18·4	19	3.0	...	2·9	7	17·3	89·4	...	25·4	24	7	...	...	...	...	0	7	...	...	...	...	...	...	...	...	...
Bhojpur (R)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chainpur	29·8	...	33·8	20	17·9	...	9·8	7	1·4	7·4	...	6·0	7	1	...	...	...	...	0	2	...	...	...	...	...	...	..	...	...
Tista Catchment																													
Gangtok	22·5	...	25·2	20	12.8	...	6 1	7	150·4	204·4	...	53·5	18	8	...	7.5	6·2	...	1	12	0	5	12	2	0	0	0	0	0
Geyzing	26·2	...	29·1	20	13.5	...	9·6	7	19·0	78·6	...	30·4	15	6	...	...	...	...	0	6	...	...	...	...	...	...	...	...	...

(R) Register not received. *Data included under "Hill Stations". (b) Mean of 29 days. (c) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed, (km. p.h.): 62 or more	Wind speed, (km. p.h.): 20 to 61	Wind speed, (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands Maya Banda	0830	28	1010.8	1007.7	...	29.6	26.3	24.9	31.5	76	...	3.9	...	3.4	0	0	23	1	3	0	0	0	2	0	0	7	17
	1730	"	1007.7	1004.6	...	29.5	26.5	25.2	31.8	78	...	4.7	...	3.2	0	0	28	0	6	0	0	0	0	0	0	2	22
Long Island	0830	25	1011.2	1008.4	...	29.2	25.9	24.3	30.7	75	...	3.9	...	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	"	1007.9	1005.0	...	29.3	25.7	24.1	30.0	74	...	5.0	...	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Port Blair	0530	79	1009.4	1000.5	...	25.0	24.2	23.7	29.5	93	...	3.7	...	3.1	0	0	16	0	1	2	1	0	0	6	6	14	0
	0830	"	1011.1	1002.3	+0.4	30.5	26.1	24.2	30.3	70	−3	4.7	+1.0	7.1	0	0	28	4	9	7	2	0	0	1	5	2	0
	1130	"	1009.8	1001.1	...	31.7	26.5	24.3	30.4	65	...	4.7	...	9.0	0	0	30	3	7	14	4	0	0	1	1	0	0
	1730	"	1008.1	999.3	...	28.5	25.3	23.8	30.5	76	...	4.5	...	6.2	0	0	25	2	6	3	2	2	2	3	5	5	0
	2330	"	1009.6	1009.8	...	25.9	24.8	24.2	30.5	91	...	2.5	...	3.3	0	0	17	1	1	4	0	0	0	5	6	13	0
Car Nicobar	0830	10	1010.7	1009.5	...	29.7	25.7	23.9	29.7	71	...	5.2	...	5.1	0	0	25	1	9	4	5	0	0	0	1	5	5
	1730	"	1007.9	1006.7	...	28.4	25.4	23.9	29.9	77	...	5.0	...	1.0	0	0	9	0	7	1	0	0	1	0	0	21	0
Nancowry	0830	26	1010.6	1007.7	...	29.1	26.0	25.2	31.2	80	...	5.6	...	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	"	1008.0	1005.1	...	28.5	25.8	24.8	31.0	80	...	5.0		0	0	0	0	0	0	0	0	0	0	0	0	30	0
Kondul	0830	8	1010.8	1009.9	...	28.8	26.0	24.8	31.4	79	...	6.1	...	2.2	0	0	14	2	6	1	1	1	0	0	3	16	0
	1730	"	1007.9	1007.0	...	27.5	26.8	25.0	33.5	86	...	5.9	...	3.0	0	0	11	1	7	1	1	0	0	0	1	19	0
Assam (including Manipur, Tripura) Pasighat	0830	157	1009.7	991.9	...	23.6	17.5	16.0	15.0	63	...	5.3	...	21.2	0	16	12	12	0	1	0	1	0	0	14	2	0
	1730	"	1005.1	987.4	...	25.4	19.8	16.1	18.7	59	...	5.3	...	11.1	0	10	8	4	0	0	0	0	0	0	14	12	0
Digboi†	0830	152	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dibrugarh	0830	106	1009.2	997.1	−1.6	25.1	20.2	17.8	19.5	66	−13	4.9	−0.2	3.4	0	0	26	8	7	12	1	0	0	1	0	1	0
	1730	"	1004.4	992.4	...	25.8	21.4	18.8	21.9	67	...	5.6	...	2.4	0	0	22	6	8	8	0	0	0	0	0	8	0
Dibrugarh (Mohanbari Aerodrome)	0230	111	1006.2	993.4	...	20.0	18.5	17.5	20.1	85	...	5.4	...	2.8	0	0	9	0	9	1	0	0	0	0	0	20	0
	0530	"	1007.7	994.0	...	19.4	18.0	17.1	19.5	86	...	5.0	...	3.1	0	0	16	1	11	3	1	0	0	0	0	14	0
	0830	"	1009.5	996.9	...	24.5	20.1	17.3	19.9	66	...	4.0	...	7.1	0	0	24	0	17	6	1	0	0	0	0	6	0
	1130	"	1008.3	995.8	...	27.9	21.0	16.7	18.5	54	...	4.0	...	7.3	0	0	25	3	17	5	0	0	0	0	0	5	0
	1730	"	1004.9	992.1	...	25.8	20.7	17.6	20.3	63	...	4.3	...	5.0	0	0	18	1	15	2	0	0	0	0	0	12	0
	2330	"	1006.7	994.0	...	21.4	19.2	17.6	20.4	80	...	5.3	...	3.3	0	0	13	0	10	3	0	0	0	0	0	7	0
North Lakhimpur	0830	102	1009.4	997.8	...	24.9	20.7	18.1	21.0	68	...	3.8	...	4.7	0	0	27	3	12	9	2	0	1	0	0	3	0
	1130	"	1008.2	996.7	...	28.7	21.5	17.0	19.8	52	...	3.3	...	7.7	0	0	29	2	7	13	4	1	1	1	0	1	0
	1730	"	1004.8	993.3	...	26.4	21.7	18.7	22.1	65	...	3.6	...	6.6	0	0	29	3	14	5	2	1	3	1	0	1	0
Sibsagar	0830	97	1010.1	999.4	0	25.1	20.6	17.8	20.7	65	−16	3.3	−2.7	4.7	0	0	23	4	14	3	0	0	2	0	1	6	0
	1730	"	1004.8	993.9	...	27.8	21.8	18.2	20.9	57	...	4.3	...	5.1	0	0	25	7	15	2	2	0	0	0	1	5	0
Jorhat	0530	90	1006.8	996.5	...	19.9	18.5	17.8	20.2	87	...	3.0	...	5.6	0	0	20	5	6	4	0	1	2	0	0	10	0
	0830	"	1008.8	998.6	...	25.7	20.6	17.1	19.9	61	...	2.4	...	12.5	0	4	24	1	19	6	0	0	0	0	2	2	0
	1130	"	1007.2	997.2	...	50.3	21.6	16.2	18.9	45	...	2.2	...	15.2	0	7	24	6	17	3	0	0	0	0	1	0	0
	1730	"	1003.6	993.5	...	28.0	20.9	16.5	19.8	52	...	3.5	...	12.8	0	6	23	4	19	3	0	1	0	1	1	1	0
	2330	"	1006.1	995.8	...	22.8	19.4	17.7	19.9	77	...	2.3	...	6.4	0	0	21	2	13	4	0	0	1	0	1	9	0
Golaghat	0830	...	...	...	...	26.5	20.5	16.9	18.9	58	...	2.5	...	0.4	0	0	4	0	0	0	3	0	0	0	1	26	0
	*1730	...	...	...	...	30.7	21.4	14.1	18.5	39	...	3.5	...	0.7	0	0	9	0	0	0	9	0	0	0	0	19	0
Gohpur (R)	0830	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(R)	1730	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tezpur	0830	79	1009.4	1000.3	−1.4	27.0	20.0	17.2	19.1	56	−18	1.6	−2.5	7.5	0	0	30	0	14	11	3	1	1	0	0	0	0
	1730	"	1004.2	995.4	...	30.9	21.5	15.2	17.9	41	...	3.3	...	5.2	0	0	30	1	5	0	6	1	12	3	2	0	0
Tezpur (P. B. O.)	0230	78	1005.0	996.0	...	22.8	19.3	17.0	19.7	71	...	2.4	...	3.1	0	0	17	1	6	8	1	0	1	0	0	13	0
	0530	"	1007.0	997.9	...	21.4	18.6	16.4	19.2	72	...	2.4	...	3.4	0	0	14	0	7	6	0	0	1	0	0	16	0
	0830	"	1009.0	1000.1	...	27.2	20.8	16.6	19.4	54	...	2.0	...	7.5	0	0	28	1	11	14	0	0	2	0	0	2	0
	1130	"	1007.3	998.5	...	31.4	22.0	16.1	18.7	42	...	1.4	..	7.1	0	0	28	0	2	17	3	0	3	3	0	2	0
	1730	"	1003.6	994.8	...	30.3	21.6	16.1	18.9	46	...	2.4	...	4.2	0	0	17	0	1	10	0	0	2	4	0	13	0
	2330	"	1006.1	997.2	...	24.6	19.9	16.9	19.3	64	...	2.0	...	5.5	0	0	18	0	7	7	0	3	0	1	0	12	0
Majbat	0830	...	...	...	...	...	...	...	...	...	...	3.0	...	12.4	0	0	30	0	15	13	1	0	0	1	0	0	0
	1730	...	...	...	...	...	...	...	...	...	..	2.9	...	8.3	0	0	30	1	5	3	0	4	5	4	4	4	0
Chaparmukh	0830	66	1009.0	1001.6	...	28.4	20.9	16.1	17.3	49	...	0.7	...	5.6	0	0	24	1	6	2	7	0	6	0	2	6	0
	1730	"	1003.6	996.4	...	30.9	21.6	15.7	18.2	42	...	2.0	...	6.5	0	0	19	1	9	0	1	0	4	1	3	11	0
Tangla	0830	78	1007.9	999.1	...	26.5	20.6	16.9	19.4	56	...	1.6	...	3.7	0	0	19	1	1	9	6	0	0	2	0	11	0
	1730	"	1003.0	994.4	...	30.5	23.3	19.1	22.8	53	...	2.2	...	0.8	0	0	6	0	2	1	0	0	0	2	1	24	0
Gauhati	0830	55	1008.3	1000.0	−1.5	27.4	21.1	17.2	19.8	54	−19	0.4	−3.4	2.2	0	0	22	1	9	1	0	0	2	0	0	3	0
	1730	"	1002.8	996.7	...	32.9	22.6	15.5	19.1	43	...	1.1	...	1.6	0	0	16	0	5	0	3	0	3	2	3	14	0
Gauhati (Bharjar Aerodrome)	0230	54	1004.6	998.4	...	22.3	18.8	16.3	19.0	72	...	1.1	...	6.8	0	1	19	1	10	1	1	0	6	1	1	14	0
	0530	"	1006.2	999.9	...	20.7	18.2	16.4	9	79	...	1.7	...	3.4	0	1	12	2	7	2	0	0	1	0	1	17	0

†Data rejected. (R) Register not received *Observations for 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (oktas): Mean amount	Cloud amount (oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam including Manipur Tripura—(*Contd.*) Gauhati (Bharjar Aerodrome). *Contd.*	0830	54	1008·1	1001·9	...	28·3	21·1	16·3	19·2	51	...	0·7	...	8·2	0	2	25	8	14	0	0	0	0	4	1	3	0
	1130	,,	1006·4	1000·4	...	33·7	22·0	14·3	16·9	34	...	0·8	...	13.9	0	7	23	6	11	1	1	1	1	4	5	0	0
	1730	,,	1002·6	996·6	...	32·6	21·6	14·1	16·9	36	...	1·9	...	11·9	0	9	18	5	3	0	2	1	4	8	4	3	0
	2330	,,	1005·5	999·3	...	23·8	19·4	16·3	19 0	66	...	2·7	...	8·3	0	3	19	1	7	1	1	3	7	0	2	8	0
Rangiya	0830	...	..	...	...	27·5	21·7	18·2	21·3	59	...	2·8	...	7·9	0	0	30	0	7	16	2	0	0	3	2	0	0
	1730	...	...	...	...	32·4	22·4	16·7	18·9	42	...	1·7	...	4·5	0	0	26	3	4	2	2	1	1	8	5	4	0
Goalpara	0830	38	1007·3	1003·1	...	26·7	21·1	17·1	20·5	53	...	0·4	...	3·6	0	0	28	1	16	4	3	1	1	1	1	2	0
	1730	,,	1002·1	997·7	...	34·6	21·9	12·7	15·9	32	...	0·6	—0·0	4·6	0	0	29	0	8	2	0	0	12	7	0	1	0
Dhubri	0830	35	1008·3	1004·3	—1·1	27·9	21·8	17·9	21·2	57	—14	0·8	...	5·5	0	0	22	0	12	1	0	1	8	0	0	8	0
	1730	,,	1003·2	999·4	...	33·4	22·1	14·8	17·4	35	...	0·6	...	2·3	0	0	11	1	2	1	1	3	1	1	1	19	0
Dhubri (Rupsi Aerodrome).	0530	36	1005·1	1001·0	...	21.4	18·0	15·5	17·9	70	...	1 7	...	2·5	0	0	14	0	2	6	3	0	2	1	0	16	0
	0830	,,	1007·2	1003 2	...	28·4	20·3	14·2	17·3	44	...	1·3	...	8·5	0	1	24	0	6	10	0	2	5	2	0	5	0
	1130	,,	1006·0	1002·0	...	34·3	21·3	11·8	14·6	29	...	0·7	...	12·0	0	6	22	0	0	4	3	3	8	7	1	2	2
	1730	,,	1001·8	997·8	...	34·5	20·3	9·3	12·4	24	...	1·1	...	5·0	0	0	25	2	2	2	0	0	2	11	6	5	0
Tura	0830	370	1009·6	968·6	...	27·6	20·6	17·0	18·6	58	...	1·1	...	6·2	0	0	24	0	1	4	5	8	4	1	1	6	0
	1730	,,	1005·8	966·4	...	33·6	21·8	15·3	16·2	35	...	0·8	...	7·6	0	0	30	1	0	0	2	9	16	1	1	0	0
Agartala	0230	16	1005·6	1003·8	...	24·7	22·9	22·0	26·4	86	...	1·7	...	10·7	0	3	24	0	1	4	3	19	0	0	0	3	0
	0530	,,	1006·9	1005·1	...	24·3	23.0	22·3	28·4	89	...	3·2	...	8.2	0	2	26	1	1	0	8	18	0	0	0	2	0
	0830	,,	1008·8	1007·0	...	30·0	24·9	22·4	27·3	65	...	2·6	...	12·6	0	3	27	0	0	0	3	21	4	2	0	0	0
	1130	,,	1007·7	1005·9	...	35·1	23·8	17·0	20·4	38	...	2·1	...	15·3	0	8	21	0	0	0	1	11	9	6	2	1	0
	1730	,,	1004·1	1002·2	...	31·8	22·9	17·1	20·8	47	...	2·4	...	14·3	0	8	22	1	0	1	3	16	6	1	2	0	0
	2330	,,	1006·1	1004·3	...	25·7	22·7	20·9	25·1	76	...	1·3	...	11·2	0	3	26	1	1	0	6	20	1	0	0	1	0
Kailashar	0530	29	1008·2	1004·9	...	22·6	21.3	20·4	24·2	87	...	2·8	...	1·2	0	0	7	0	0	0	2	3	1	0	1	23	0
	0830	,,	1010·0	1006.8	...	29·0	24·1	21·7	25·6	65	...	3·0	...	7·2	0	0	27	0	0	0	1	21	4	1	0	3	0
	1130	,,	1008·7	1005·5	...	34·5	24·6	19·4	22·5	44	...	3·5	...	8·9	0	0	28	0	1	0	1	13	5	6	2	2	0
	1730	,,	1004·9	1001·7	...	32·5	23·1	17·7	20·5	48	...	2·9	...	4·3	0	0	19	3	0	0	2	6	7	1	0	11	0
Silchar	0830	29	1009·9	1006·6	—0·9	28.3	22·5	17·0	22·5	59	—16	1·9	—2·3	3·3	0	0	29	1	7	6	6	2	4	2	1	1	0
	1730	,,	1004·7	1001·4	...	31·4	23·0	18·4	21·4	48	...	1·9	...	2·6	0	0	23	2	3	0	0	3	2	6	7	7	0
Silchar (Kumbhigram Aerodrome).	0530	97	1006·7	995·7	...	22·1	19.3	17·3	20·0	75	...	3·3	...	7·0	0	0	28	2	5	17	1	0	0	1	2	2	0
	0830	,,	1008·4	997·5	...	27·7	21·5	17·7	20.9	56	...	2·3	...	9·5	0	2	28	0	1	13	6	1	2	3	2	0	2
	1130	,,	1007·0	996·2	...	32·5	22·6	16·7	19·1	41	...	1·8	...	16·0	0	9	21	0	0	0	2	2	16	7	3	0	0
	1730	,,	1003·2	992·8	...	31·2	22 2	16.8	19·6	45	...	2.4	...	7.0	0	2	26	1	0	2	0	2	1	12	10	2	0
Imphal	0530	801	1010·5	921·2	...	17·6	15·2	13·1	15·6	78	...	2·4	...	3·7	0	0	14	1	0	0	0	3	8	2	0	16	0
	0830	,,	1009·5	922·5	...	25·5	18·4	13.7	15·6	49	...	2·1	...	9·6	0	7	16	0	0	0	4	6	11	2	0	7	0
	1130	,,	1006·4	920·9	...	30.1	18·7	10·6	12·5	31	...	1·9	...	27·2	0	21	9	1	0	0	0	3	17	7	2	0	0
	1730	,,	1004·3	918·5	...	28·1	17·9	10·5	13·0	35	...	2·9	...	10·3	0	2	28	1	0	1	0	0	17	9	2	0	0
	2330	,,	1008·3	920·4	...	21·8	15·6	13·1	13·1	67	...	1·7	...	3·7	0	0	15	1	1	0	1	1	6	5	0	15	0
Haflong	0830	682	1008·2	933·4	...	24·9	19.5	15·9	17·9	60	...	1·8	...	17·4	0	8	22	0	0	0	0	14	15	0	1	0	0
	1730	,,	1002·6	929·0	...	28·0	21·5	17·3	20.4	55	...	3·3	...	19·4	0	15	15	0	0	0	1	3	25	0	1	0	0
Lumding	0830	149	1008·3	991·6	...	28·1	25·8	24·7	31·4	82	+11	0·9	...	3·2	0	0	22	1	3	8	1	3	6	0	0	8	0
	1730	,,	1003.3	987·2	...	32·3	30·0	29·3	40·6	84	...	3·1	...	4·2	0	0	23	0	1	3	2	3	14	0	0	7	0
Sub-Himalayan West Bengal Cooch Behar	0830	43	1007·8	1003.0	...	27.9	20·0	14·5	17·0	45	...	1·2	...	15·7	0	10	19	1	5	12	3	4	3	0	0	1	1
	1130	,,	1006·6	1001·9	...	33·1	21·3	13·0	15·8	31	...	1·0	...	13·2	0	7	23	0	1	6	7	5	5	4	0	0	2
	1730	,,	1002·5	997·7	...	32·4	21·6	14·5	17·0	35	...	1·2	...	5.9	0	0	28	5	5	1	0	0	0	6	8	2	3
Jalpaiguri	0830	83	1007·6	998·2	—1·4	25·3	19·3	15·2	17·5	54	—16	1·0	—1.6	10·0	0	5	20	2	9	11	0	1	1	1	0	5	0
	1730	,,	1002·3	993·2	...	33·3	21·2	13·0	15·3	31	...	0·7	...	7·4	0	0	29	7	9	1	0	0	4	3	5	1	0
Bagdogra	0230	131	1003·9	989·0	...	22·2	17·8	14·7	16·8	63	...	0·5	...	3·7	0	0	26	17	3	1	0	0	1	4	0	4	0
	0530	,,	1005·4	990·3	...	19·2	17·4	15·8	18·4	82	...	1·4	...	4·1	0	0	26	13	4	5	2	0	1	1	0	4	0
	0830	,,	1007·4	992·6	...	27·8	20·9	16·5	19·1	52	...	1·4	...	10·3	0	1	27	0	2	18	6	0	0	2	0	2	0
	1130	,,	1006·3	991·4	...	32.1	22·6	17·0	19·6	43	...	1·7	...	13·8	0	2	28	0	0	16	11	0	2	1	0	0	0
	1730	,,	1002·0	987·5	...	31·1	22·3	16·7	19·7	45	...	1·7	...	8·3	0	3	24	2	8	6	0	0	3	8	0	3	0
	2330	,,	1004·8	990·0	...	24·4	18.6	14·6	16·7	55	...	0·6	...	4·1	0	0	23	10	3	5	1	0	0	4	0	7	0
Malda	0830	31	1007·2	1003·7	—0.7	31·4	20·0	11·2	14·1	33	—17	1·2	—0·7	9·8	0	1	29	0	4	2	1	6	6	8	3	0	0
	1730	,,	1002·9	999·5	...	37·0	20·5	7·8	10·7	18	...	0·8	...	9·5	0	2	28	3	2	0	0	0	2	11	12	0	0
Gangetic West Bengal Dum Dum	0230	6	1005·3	1004.6	...	25·9	24.2	23·2	28·7	86	...	0·9	...	5·2	0	0	25	0	0	0	4	8	12	1	0	5	0
	0530	,,	1006·4	1005·6	...	24·9	23·4	22·7	27·6	88	...	1·7	...	3·3	0	0	21	1	0	0	1	11	7	1	0	9	0
	0830	,,	1008·4	1007·7	...	30·3	25.1	22·5	27·0	65	...	1·5	...	6·1	0	0	28	2	0	1	0	7	13	4	1	2	0
	1130	,,	1007·6	1006·9	...	35.7	24·2	17·6	21·2	36	...	0·9	...	6·3	0	0	29	4	1	0	2	5	9	4	4	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal—*Contd.*																											
Dum Dum—*Contd.*	1730	6	1004·0	1003·3	...	34·2	24·7	19·7	22·5	44	...	1·9	...	6·1	0	0	21	0	1	0	1	13	5	0	1	9	0
	2330	,,	1006·2	1005·5	...	27·0	24·7	23·5	29·3	82	...	1·5	...	6·5	0	0	26	0	0	0	0	10	15	1	0	4	0
Calcutta	0830	6	1008·3	1007·6	−0·1	30·5	25·1	22·5	27·8	63	−10	1·2	−1·8	8·2	0	0	28	0	1	0	0	3	20	3	1	2	0
	1130	,,	1007·6	1006·9	...	36·5	24·1	17·0	19·6	34	..	1·0	...	9·2	0	3	26	2	4	0	0	4	12	4	3	1	0
	1730	,,	1004·1	1003·4	...	34·3	24·3	18·6	22·3	42	...	1·6	...	8·9	0	1	22	1	1	0	0	11	7	2	1	7	0
Barrackpore (Aerodrome)	0530	7	1006·5	1005·7	...	25·1	23.0	21·7	26·7	82	...	1.2	...	5·4	0	0	19	0	0	1	1	9	8	0	0	11	0
	0830	,,	1008·6	1007.9	...	30·3	24·6	21·7	26·4	62	...	1.4	...	10·4	0	0	28	1	0	0	0	7	11	8	1	2	0
	1130	,,	1007.9	1007·2	...	36·0	23·9	16·3	19·8	34	...	1·0	...	7·0	0	3	19	1	0	1	1	5	8	3	3	8	0
	1730	,,	1004.1	1003·4	...	34·1	24·0	18·0	23·0	41	...	1·8	...	5.8	0	0	19	0	0	0	4	12	1	2	0	11	0
	2330	,,	1006·4	1005·6	...	27·2	24·6	23·3	28·7	80	...	0·3	...	6·8	0	0	20	0	0	0	0	10	9	0	1	10	0
Saugor Island	0830	3	1008·3	1008·0	−0·3	29·2	26·3	25·1	31·9	79	+5	2·7	−1·7	22·3	0	18	11	0	1	0	0	9	15	3	1	1	0
	1730	,,	1004·8	1004·5	...	29·4	26·3	25·9	33·2	82	...	2·6	...	24·2	0	20	10	1	0	0	3	14	11	1	0	0	0
Sandheads	0530	10	1006·5	1005·4	...	27·5	25·9	25·1	32·6	87	...	2·8	...	17·4	0	5	25	1	0	0	0	1	26	1	1	0	0
	0830	,,	1008·9	1007·8	−0·6	28·5	26·3	25·3	32·4	83	+5	1·4	−1·7	15·8	0	5	25	0	1	0	0	1	25	2	1	0	0
	1130	,,	1008·5	1007·4	...	28·9	26·4	25·3	32·3	81	...	1·1	...	16·8	0	8	22	0	1	0	0	1	27	1	0	0	0
	1730	,,	1005·1	1004·0	...	28·6	26 7	25·9	33·5	85	...	1·9	...	16·5	0	4	26	1	0	0	0	6	22	1	0	0	0
	2330	,,	1006·6	1005.5	...	27·8	26·2	25·5	32·6	87	...	0·4	...	19·1	0	14	16	0	0	0	1	1	28	0	0	0	0
Contai	0830	11	1008·4	1007.2	...	30·9	25·3	22·5	27·8	63	...	1.0	...	6·6	0	0	24	1	0	0	1	8	13	1	0	6	0
	1730	,,	1004·8	1003.6	...	30·3	26·3	24·3	31·0	72	...	1·7	..	10.0	0	1	28	0	0	0	0	21	7	0	1	1	0
Midnapore	0830	45	1008·4	1003·4	+0.3	33·3	22·3	15·2	18·1	38	−26	1·1	−1·0	2·7	0	0	19	4	5	2	0	4	4	0	0	11	0
	1730	,,	1003·8	998.9	...	37·0	22·4	12 0	15·3	26	...	1·5	...	5·0	0	1	20	1	2	0	1	10	6	1	0	9	0
Purulia	0830	255	1008·4	980.6	...	31·4	18 0	6·5	9.8	22	...	1.5	...	4·0	0	0	29	1	1	0	1	2	5	2	17	1	0
	1730	,,	1003·0	975.8	...	36·5	19.7	5·7	9.2	16	...	1·9	...	2·7	0	0	27	6	1	0	1	1	6	0	12	3	0
Burdwan	0830	32	1008·7	1005·1	+0·7	32.0	24.3	20.5	24·2	54	−14	0·4	−2·5	1·1	0	0	9	1	0	0	0	1	5	0	2	21	0
	1730	,,	1004·3	1000·8	...	36·9	22·1	10·7	14·5	24	...	0·8	...	1·7	0	0	11	0	0	0	0	0	6	0	5	19	0
Krishnagar	0830	15	1008.3	1006·7	+0·2	31·6	23·5	19·6	22·3	51	−14	0·7	−2·1	2·8	0	0	25	0	0	3	0	13	0	9	0	5	0
	1730	,,	1003·6	1002·0	...	37·1	21·9	11·6	14·0	23	...	0·7	...	2·9	0	0	27	1	0	0	0	23	1	2	0	3	0
Asansol	0230	126	1004·9	990·7	...	27·5	18·0	10·8	12·9	36	...	0·6	...	1·9	0	0	9	0	0	0	1	0	2	3	3	21	0
	0530	,,	1005·8	991·7	...	25·3	17·7	11·9	14·0	45	...	1·2	...	2·0	0	0	10	1	0	0	0	1	0	4	4	20	0
	0830	,,	1007·9	994·0	+0·4	32·6	19.4	9·2	11·8	25	−25	1·2	−1·0	6·1	0	0	22	0	0	1	0	0	1	10	10	8	0
	1130	,,	1007·1	993·4	...	37·3	20·5	6·7	10·4	17	...	1·3	...	7·9	0	0	26	0	0	0	1	1	3	5	16	4	0
	1730	,,	1003·1	989·4	...	37·4	20·4	6·9	10·2	16	...	1·1	...	7·0	0	1	25	0	0	0	0	0	5	6	15	4	0
	2330	,,	1005·7	991·6	...	29·2	19·0	11·4	15·0	34	...	0·6	...	2·3	0	0	9	1	1	0	0	1	1	0	5	21	0
Suri	0830	77	1008·5	1000·0	...	32·9	18·3	5·6	9·2	20	...	2·7	...	9·7	0	0	25	0	0	0	1	4	11	8	1	5	0
	1730	,,	1003·6	995·3	...	38·3	19·1	3·1	6·5	10	...	1·9	...	8·8	0	0	30	1	0	0	0	3	9	12	5	0	0
Berhampur	0830	19	1007·7	1005·6	−0·5	30·6	22·0	16·3	19·4	45	−19	0·3	−2·9	0·1	0	0	1	0	0	0	0	1	0	0	0	29	0
	1730	,,	1002·7	1000·6	...	38·9	22·0	11·4	12·6	23	...	0·5	...	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Orissa																											
Baripada	0830	54	1009·0	1002·9	...	30·6	22·9	18·0	20.8	48	...	1·5	...	2·7	0	0	26	5	0	0	3	4	4	0	9	4	1
	1730	,,	1004·4	998·5	...	36·5	23·0	15·2	17·1	33	...	2·1	...	3.9	0	0	27	1	0	0	19	6	0	0	0	3	1
Balasore	0830	20	1008·3	1006·1	0	29·2	24.6	22·2	28·7	67	−2	1·5	−1·1	9·7	0	3	23	2	1	0	0	8	15	0	0	4	0
	1730	,,	1004·6	1002·4	...	31·5	25·9	23·2	29·9	64	...	2·3	...	9·3	0	5	24	0	0	0	8	20	1	0	0	1	0
Chandbali	0830	6	1009·4	1008.7	+0·4	29·6	25·4	23·6	29·0	70	−2	1·5	−1·7	5·5	0	0	28	0	1	0	2	6	17	2	0	2	0
	1730	,,	1005·9	1005·2	...	33·0	25·8	21·8	27·2	58	...	2·0	..	12·8	0	1	29	0	0	1	20	5	0	3	1	0	0
Cuttack	0830	27	1008·6	1005·6	−0·4	28·8	25·3	23·4	29·3	74	+4	1·7	−1.4	0·3	0	0	1	0	0	0	0	0	0	0	1	29	0
	1730	,,	1004·3	1001·4	...	35·6	24·9	19·2	22·8	40	...	2·5	...	7·3	0	0	20	0	0	1	0	4	13	1	1	10	0
Bhubaneswar	0230	46	1006·2	1000·9	...	26·5	24·5	23·4	30·6	84	...	1·4	...	19·1	0	13	14	0	0	0	0	4	20	2	1	3	0
	0530	,,	1007·0	1001·7	...	25·7	24·3	23·5	28·9	88	...	3·6	...	15·9	0	8	20	2	0	0	0	4	21	1	0	2	0
	0830	,,	1009·2	1004·0	...	30.2	25·1	22·2	27·6	66	...	1·8	...	15·4	0	8	21	1	0	0	1	2	19	5	1	1	0
	1130	,,	1008·3	1003·3	...	36·3	24·9	18·6	21·7	38	...	0·4	...	13·5	0	5	25	1	0	2	1	3	21	1	1	0	0
	1730	,,	1005·1	1000·0	...	33.4	24·7	20·4	23·9	50	...	2·7	...	26·6	0	22	8	1	0	1	1	13	13	1	0	0	0
	2330	,,	1007·4	1002·2	...	27·7	25·1	23·7	29·7	80	...	1.5	...	18·5	0	13	13	0	0	0	2	6	17	1	0	4	0
Puri	0830	6	1009·4	1008·7	+0·4	28·3	26·8	26·2	34·1	89	+9	3·1	+0·1	20·3	0	15	15	1	0	0	0	0	23	6	0	0	0
	1730	,,	1005·9	1005·2	...	28·5	27·5	26·9	36·0	94	...	6·6	...	19.9	0	10	20	0	1	0	0	6	23	0	0	0	0
Gopalpur	0530	17	1007·2	1005·3	...	25·5	24·7	24·3	30·6	93	...	2·5	...	14·3	0	11	10	0	0	0	0	9	2	1	0	9	0
	0830	,,	1009·3	1007·4	+0 5	27·9	25·5	24·3	30·7	82	+4	1·7	+0·1	16·4	0	12	14	1	0	0	0	12	2	1	0	4	0
	1130	,,	1008·9	1007·0	...	30·3	26·8	25·2	32·5	76	...	0·6	...	20·8	0	18	11	1	0	0	1	15	12	0	0	1	0
	1730	,,	1005·6	1000·7	...	27·9	26·4	25·8	33·2	88	...	3·3	...	26·1	0	23	7	0	0	0	0	13	16	0	1	0	0
	2330	,,	1007·7	1005.8	...	26·4	25·3	24·9	31·3	91	...	1.0	...	22·1	0	7	20	0	0	0	0	10	15	1	1	3	0

Division and station	Hour of observation I.S.T.	station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Koraput	0830	913	1530·8	912·1	...	25·7	18·1	12·8	15·2	46	...	0·4	...	5.8	0	1	29	1	0	1	1	3	20	1	3	0	0
	1730	,,	1509·8	909.0	...	30·4	17·3	6·8	10·3	24	...	2·6	...	11.3	0	2	28	1	2	1	6	3	3	3	7	0	0
Titilagarh	0830	211	1008.3	985·0	...	31·0	23·9	20·1	24·0	53	...	0·3	...	3·0	0	0	30	0	9	0	15	0	5	0	1	0	0
	1730	,,	1004·8	982·0	...	37·1	27·7	23·4	29·0	48	...	0·4	...	3·0	0	0	30	0	15	0	14	0	0	0	1	0	0
Bolangir	0830	190	1009.2	988.1	...	31·2	22·7	17·0	20.7	37	...	2·0	...	5·8	0	0	30	6	3	2	4	7	5	0	3	0	0
	1730	,,	1005·3	984.7	...	37·2	24·2	18·5	19·5	32	...	4·1	...	5.7	0	0	30	10	5	0	1	3	3	1	7	0	0
Phulbani	0830	464	1007·1	956·2	...	27·2	20·1	14·5	18.2	48	...	0·4	...	1·6	0	0	4	1	0	0	0	1	0	0	2	26	0
	1730	,,	1001·8	952·3	...	34·1	21·8	13·7	17·1	29	...	2·3	...	3·5	0	1	15	4	3	1	0	1	1	1	4	14	1
Angul	0830	139	1009·2	993·6	+0.6	28·6	22·4	18·6	22·2	56	—5	1·8	...	2·7	0	0	25	4	4	2	2	0	2	3	8	5	0
	1730	,,	1003.6	988·7	...	38·1	22·1	11·0	13·7	21	...	3·4	...	5·1	0	0	28	4	3	1	5	4	1	2	8	2	0
Keonjhar	0830	463	1008·5	955·2	...	30·4	20·9	15.2	17·7	41	...	1·2	...	4·0	0	0	22	7	2	2	0	1	3	3	4	8	0
	1730	,,	1003·8	951·3	...	35·0	21·3	13·1	15·4	29	...	2·7	...	3·3	0	0	28	2	0	1	4	4	3	7	7	2	0
Sambalpur	0830	148	1008·8	992·3	+0.5	30·8	20·9	14·3	16·0	39	—9	1·9	—1·0	1·3	0	0	10	1	2	0	0	6	1	0	0	20	0
	1730	,,	1003·6	987·5	...	37·4	21·8	10·9	13·4	22	...	2·4	...	1·1	0	0	9	0	1	0	0	1	1	3	1	21	0
Jharsuguda	0230	230	1005.8	980·1	...	26·6	18·8	12·7	15·4	44	...	1·3	...	3·9	0	0	23	6	4	1	1	2	4	0	5	7	0
	0530	,,	1006·9	981·0	...	24·9	18·4	13·3	16.0	51	...	2·4	...	3.9	0	0	24	4	7	2	7	3	0	0	1	6	0
	0830	,,	1008.8	983·4	...	30·7	19·9	11·7	14·4	33	...	2·2	...	5·9	0	0	28	4	8	2	3	0	7	2	2	2	0
	1130	,,	1007·6	982·7	...	36·0	21·4	10·2	12·8	23	...	1·8	...	6·8	0	1	28	0	5	0	3	1	11	2	6	2	0
	1730	,,	1003·1	978·3	...	37·0	21·3	9·3	12·6	21	..	2·6	...	6·9	0	0	26	0	1	0	2	2	13	3	5	4	0
	2330	,,	1006·3	980·8	...	29·1	19·7	13.2	15·2	39	...	1·8	...	6.0	0	0	29	5	2	0	3	3	10	1	5	1	0
Bihar Plateu Jamshedpur	0830	129	1008·4	994·1	+0·3	30·5	19·8	12·2	14·5	35	—11	1·2	—0·6	5·4	0	0	26	0	0	0	0	0	3	18	5	4	0
	1730	,,	1003·0	999·1	...	37·6	20·9	7·8	11·3	18	...	2·1	...	6·0	0	1	24	2	0	0	1	3	3	11	5	5	0
Jamshedpur (F. B. O.)	0530	142	1006·7	990·7	...	24·7	18·0	13·4	15·3	49	...	1·8	...	2.3	0	0	13	0	0	1	1	1	0	5	5	17	0
	0830	,,	1008·4	992·7	...	30·7	19·3	10·8	13·5	31	...	1.4	...	6·6	0	0	28	0	0	0	0	0	10	13	5	2	0
	1130	,,	1007·4	992.0	...	36·7	19·9	5.8	9·7	17	...	2·1	...	9·6	0	0	28	1	0	1	0	2	7	11	6	2	0
	1730	,,	1002·8	987·8	...	37·9	20.3	5·1	10.1	16	...	3·0	...	9·5	0	0	28	2	1	0	3	1	5	8	10	0	0
	2330	,,	1006·2	990·4	...	29·5	19.6	12·6	14·9	38	...	0·8	...	3·0	0	0	17	0	3	2	0	1	3	4	4	13	0
Chaibasa	0830	226	1008·3	983·3	+0·6	32·1	19·5	11·0	12.5	26	—27	1·7	—0·1	1·9	0	0	16	0	3	0	1	1	10	0	1	14	0
	1730	,,	1003·0	978·7	...	37·0	19·9	6.3	9·5	15	...	3·3	...	2.1	0	0	17	1	5	0	3	1	6	1	0	13	0
Ranchi	0830	655	1008·1	93 .·4	+1·4	30.1	22.4	18·5	21.3	50	+14	1·1	—0·7	0.8	0	0	5	2	0	1	0	0	2	0	0	25	0
	1730	,,	1003.6	933.7	...	32.7	23.1	18·6	21.4	45	...	1.6	...	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Ranchi (C. W. O)	0530	652	1007·0	935·1	...	23·6	15·0	8·1	10 8	38	...	1·8	...	4.7	0	0	21	2	0	0	0	1	5	0	13	9	0
	0830	,,	1007·5	937·0	...	29·8	15.7	3·3	7.2	18	...	1·8	...	9·2	0	1	28	5	1	0	0	1	6	3	13	1	0
	1130	,,	1006·6	936·9	—	33·5	16·9	2·4	7·3	15	...	2·0	...	9·3	0	0	29	6	0	0	0	0	8	2	13	1	0
	1730	,,	1003·0	933·6	...	33·4	19·0	9·0	11·5	24	...	(j) 3·8	...	(j) 9·0	0	0	20	3	0	0	0	1	2	0	14	1	0
Daltonganj	0830	221	1008·5	984·0	+0·8	30·1	19·6	11·8	14·3	34	—5	1·9	+0·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	,,	1003·1	979·2	...	36·3	21·3	10·3	13·2	23	...	2·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hazaribagh	0830	611	1007·7	941·5	+0·5	30·0	15.9	2·5	7·9	19	—9	1·1	—0·7	8·9	0	0	29	3	0	0	0	1	5	5	15	1	0
	1730	,,	1002·8	937·9	...	34·1	17·4	2·4	7·8	15	...	1.3	...	9.0	0	0	30	4	0	0	0	1	1	2	22	0	0
Dhanbad	0830	257	1007·9	970·6	...	31·7	17·9	4·9	9.5	21	...	(b) 0·7	...	(b) 2.2	0	0	18	0	0	0	0	1	8	8	1	11	0
	1730	,,	1003·8	975·8	...	35·7	19·7	7·0	9·8	18	...	(c) 0·8	...	(c) 1.5	0	0	13	0	0	0	0	0	5	7	1	15	0
Dumka	0830	149	1007·8	991·3	+0.2	32·8	20·3	11·2	13.7	29	—18	0·4	—1·2	1.8	0	0	14	1	0	1	0	1	4	6	1	16	0
	1730	,,	1003·5	987·6	...	37.0	21·1	9·6	11·4	20	...	0·9	...	2.5	0	0	16	0	0	0	0	1	4	10	1	14	0
Bihar Plains Purnea	0830	38	1007.4	1003·2	—0.6	29·4	19·7	12·0	15·1	39	—21	0·8	—1·4	4·4	0	0	27	0	2	7	2	1	5	7	1	3	0
	1730	,,	1002·8	998·6	..	34·4	20·4	9·9	12·8	24	...	0·4	..	3·6	0	0	19	0	0	0	0	0	3	16	0	11	0
Forbesganj	0830	61	1007·0	1000.1	...	27.5	19.6	14.0	16.5	44	..	1.2	...	8.3	0	1	27	1	3	8	4	0	1	10	1	2	0
	1730	,,	1001.7	995.1	...	35.9	21.2	10.6	13.2	24	...	0.8	..	9.0	0	1	28	0	2	2	0	0	2	20	3	1	0
Darbhanga	0830	49	1007·4	1001·9	—0·2	29.8	19·9	12·2	15·4	38	+18	0·6	—0·8	0·2	0	0	30	0	6	7	0	1	4	6	6	0	0
	1730	,,	1003·2	997·7	...	35·7	20·8	10·9	12·5	24	...	0·8	...	6·5	0	0	30	1	1	1	0	0	0	14	13	0	0
Motihari	0830	66	1007·0	999·5	—0.1	28·0	19·2	13·3	15·0	42	—2	0·2	—0.9	5·2	0	0	20	0	0	2	1	0	1	13	3	10	0
	1730	,,	1003·6	996·3	...	33·8	22·2	14·3	17·2	34	...	0·3	...	5·4	0	0	19	0	0	1	0	0	1	12	5	11	0
Chapra	0830	,,	..	..	...	29·9	17·9	8·0	12·0	28	...	1·1	...	8·5	0	0	28	0	0	3	1	0	13	8	3	2	0
	1730	,,	..	..	...	36·3	19·5	5·1	9·1	15	...	1·0	...	9·5	0	0	30	1	1	1	0	0	4	15	8	0	0
Patna	0830	53	1007·5	1001·5	...	30·6	17·7	7·3	9·9	26	—18	1·2	—0·1	10.4	0	0	29	0	1	1	1	1	7	14	4	1	0
	1730	,,	1003·0	997·4	...	36·4	19·9	5·9	10·0	16	...	1·3	...	10·9	0	0	30	1	1	0	1	0	1	22	4	0	0
Patna (Aerodrome)	1530	60	1005·1	998.3	...	22·7	15·3	8·1	11·3	41	...	1·1	...	6·5	0	0	20	1	0	1	0	1	2	15	0	10	0
	0830	,,	1006.9	1000.2	...	29.9	17.2	6.5	10.2	25	..	1·2	..	12.7	0	0	28	0	1	0	1	1	3	16	6	2	0
	1130	,,	997.2	999.7	...	35.9	19.5	4·8	9.4	15	..	1.4	..	21.7	0	12	18	0	0	1	0	1	2	13	13	0	0

(b) Mean of 29 days. (c) Mean of 28 days. (j) Mean of 21 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plans—(*Contd.*)																											
Patna (Aerodrome)—*contd.*	1730	60	1002·5	995·9	...	37·2	19·3	2·9	7·7	13	...	1·0	...	18·8	0	7	23	0	1	0	0	0	1	11	17	0	0
	2330	52	1005·4	999·6	...	28·8	17·4	9·6	10·6	31	...	0·5	...	2·7	0	0	8	0	0	0	0	1	2	5	0	22	0
Dehri	0830	107	1008·0	996·0	...	31·2	17·9	6·9	12·4	23	...	1·1	...	4·2	0	0	27	0	0	0	2	5	10	2	8	3	0
	1730	,,	1003·1	991·5	...	36·9	20·5	7·9	8·2	16	...	0·7	...	5·4	0	0	29	0	1	0	0	1	3	1	23	1	0
Gaya . . .	0230	116	1005·6	992·4	...	24·7	15·2	5·4	9·6	31	...	0·5	...	7·8	0	2	23	0	0	2	0	8	7	7	1	5	0
	0530	,,	1006·4	993·2	...	23·0	14·4	5·8	9·4	35	...	1·6	...	7·3	0	1	24	0	1	0	1	6	11	6	0	5	0
	0830	,,	1008·3	995·4	+1·1	31·9	18·2	5·8	10·2	22	0	1·6	+0·3	15·7	0	7	23	0	0	1	1	3	8	12	5	0	0
	1130	,,	1007·7	994·7	...	36·8	19·6	4·4	8·8	14	...	1·3	...	24·3	0	18	12	1	0	0	1	0	2	13	13	0	0
	1730	,,	1003·5	990·9	...	37·7	19·5	3·6	7·9	13	...	1·3	...	24·3	0	19	10	1	0	1	0	1	0	9	17	1	0
	2330	,,	1006·5	993·3	...	27·2	16·2	5·7	9·5	28	...	0.6	..	9·2	0	1	25	0	0	2	1	7	3	11	2	4	0
Jamui . . .	0830	82	1007·9	998·7	...	32·9	19·4	8·8	11·5	23	...	1·1	...	4·5	0	0	17	0	0	1	1	0	0	12	3	13	0
	1730	,,	1003·4	994·3	...	37·1	21·0	8·7	11·7	18	...	0·4	...	6·0	0	0	26	0	1	1	0	0	0	17	7	4	0
Bhagalpur . .	0530	49	1005·7	1000·1	...	25·4	16·6	8·3	11·2	38	...	1·5	...	7·0	0	1	22	0	0	1	2	4	8	8	0	7	0
	0830	,,	1007·7	1002·3	...	31·0	18·9	8·8	12·5	27	...	1·1	...	10·6	0	0	25	0	0	3	2	0	7	12	1	5	0
	1130	,,	1006·9	1001·5	...	36·5	20·1	6·1	10·2	17	...	1·3	...	18·2	0	12	15	0	1	0	0	2	2	16	6	3	0
	1730	,,	1003·0	997·6	...	35·7	19·2	4·4	8·9	15	...	0·8	...	15·7	0	0	28	0	1	0	0	0	0	18	9	2	0
	2330	,,	1005·5	1000·0	...	29·1	17·7	7·7	11·1	29	...	0·5	...	9·2	0	0	26	0	0	3	3	1	7	12	0	4	0
Sabour . . .	0830	37	1007·4	1003·2	−0·3	30·9	21·1	14·1	17·0	38	−6	1·3	−0·6	10·0	0	3	27	0	0	3	3	1	2	19	2	0	0
	1730	,,	1002·6	998·4	...	36.7	23·0	13·0	16·9	26	...	0·9	...	14·4	0	7	22	2	0	0	0	0	0	13	14	1	0
Uttar Pradesh (East)																											
Gonda . . .	0830	110	1007·5	995·2	...	29·0	18·9	12·0	14·0	37	+5	0·7	−0·7	3·8	0	0	25	3	0	2	0	0	0	6	14	5	0
	1730	,,	1003·5	991·5	...	35·4	20·8	10·8	12·9	23	...	0·7	...	4·6	0	0	25	0	0	3	0	0	0	4	18	5	0
Nautanwa .	0830	99	1007·0	995·8	...	26·9	17·9	10·8	12·9	38	...	0·9	...	6·1	0	0	29	4	2	5	4	2	1	9	2	1	0
	1730	,,	1002·5	991·6	...	35·0	19·2	4·9	8·7	17	...	1·4	...	12·3	0	0	29	2	1	0	1	1	4	18	2	1	0
Gorakhpur .	0830	77	1007·4	998·5	−0·1	29·1	17·9	8·3	10·9	29	−17	0·7	−0·4	3·8	0	0	30	0	2	4	1	0	1	20	2	0	0
	1730	,,	1002·9	994·4	...	36·1	·0	4·6	8·5	15	...	0·7	...	3·7	0	0	29	0	0	3	1	0	0	24	1	1	0
Gorakhpur (P.B.O.) .	0230	78	1004·4	995·5	...	26·6	16·3	7·9	10·6	34	...	0·6	...	8·4	0	2	24	0	3	0	0	2	1	10	10	4	0
	0530	,,	1004·9	996·0	...	24·3	15.5	8·5	11·9	39	...	0·7	...	6·3	0	1	26	2	1	2	0	1	4	10	7	3	0
	1130	,,	1006·7	998·1	...	34·4	19·2	8·8	11·3	22	...	0·8	...	13.4	0	6	24	1	3	0	1	3	2	14	6	0	0
	2330	,,	1005·5	996·7	...	28·0	17·6	10·4	12·6	36	...	0·6	...	7·1	0	0	27	0	2	0	1	2	5	11	6	3	0
Azamgarh . .	0830	78	1007·0	998·3	...	29·6	23.2	19.2	22·2	58	...	0·5	...	4·2	0	0	30	1	0	2	0	1	0	25	1	0	0
	1730	,,	1003.4	994·8	...	35.7	27·5	21.8	26·4	49	...	0·8	...	3.8	0	0	29	0	0	0	0	0	0	28	1	1	0
Ballia . . .	0830	64	1007·6	1000.4	...	28·4	17·1	7·8	10·6	29	...	1·2	...	3.3	0	0	19	1	1	0	0	0	3	9	5	11	0
	1730	,,	1004·6	998·0	...	36·8	22·6	12·8	14·4	26	...	0·1	...	7·0	0	0	29	0	1	0	0	0	1	13	14	1	0
Varanasi (Banaras) .	0830	76	1008·2	999·6	+0·8	29·8	19·9	12.4	14·4	35	−4	0·9	−0·4	3·1	0	0	22	0	0	1	1	2	8	10	0	8	0
	1730	,,	1004·3	996·0	...	36·7	21·7	10·9	13·0	22	...	1·3	...	5·5	0	0	28	0	1	0	0	0	4	18	5	2	0
Varanasi (Banaras) (Babatpur Aerodrome).	0530	85	1007·4	997·5	...	22·1	15·4	9.5	11·9	46	...	1.2	...	7·2	0	0	29	0	1	1	1	4	13	7	2	1	0
	0830	,,	1009·2	999·6	...	30·5	19·5	11·4	13·5	33	...	0·8	...	13·8	0	0	30	0	0	1	1	1	13	12	2	0	0
	1130	,,	1008·7	999·3	...	36·4	22·0	11·9	13 9	25	...	0·6	...	21·1	0	13	17	0	0	0	1	0	4	14	11	0	0
	1730	,,	1004·7	995·4	...	36·7	20·5	7·4	10·7	18	...	1·5	...	19·5	0	10	20	0	1	1	0	1	0	13	14	0	0
	2330	,,	1007·4	997.7	...	26·8	17·6	10·0	12 3	37	...	0·6	...	10·4	0	0	27	0	2	1	0	3	4	9	8	3	0
Allahabad (Bamrauli) .	0230	98	1005·7	994·6	...	24·8	15·2	6·4	9·2	31	...	0·9	...	3.7	0	0	17	2	0	1	1	0	2	6	5	13	0
	0530	,,	1006.5	995·3	...	22·6	14·4	6·5	10·0	37	...	1·5	...	2·1	0	0	15	0	0	1	2	1	4	5	2	15	0
	0830	,,	1008·4	997·5	+1·0	30·3	17·6	4·4	8·5	21	−11	0·9	−0·5	6.9	0	0	29	0	0	0	1	2	6	13	7	1	0
	1130	,,	1008·0	997·3	...	37·0	19·0	1·4	7·1	12	...	1·5	...	12.3	0	3	26	1	0	0	0	3	3	12	10	1	0
	1730	,,	1004·0	993·3	...	36·9	18·8	1·0	7·1	12	...	1·8	...	12·2	0	1	29	1	1	0	0	1	0	9	18	0	0
	2330	,,	1006·4	995·4	...	27·5	16·1	5·8	8·8	27	...	0·7	...	3.3	0	0	18	0	1	1	0	0	5	2	9	12	0
Sultanpur . . .	0830	97	1008·0	997·2	...	30·9	18·3	7·9	10·7	24	..	0·7	..	3·9	0	0	30	3	0	2	0	0	6	10	9	0	0
	1730	,,	1004·3	993·7	...	35·7	19·2	4·1	9·6	15	...	0·6	...	3·7	0	0	30	1	0	3	0	0	1	20	5	0	0
Faizabad . . .	0830	102	1007·4	996·0	...	27·3	17·6	9·6	11·9	34	...	1·0	...	5·6	0	0	29	1	0	0	1	1	1	22	3	1	0
	1730	,,	1003·4	992.3	...	34·0	19·6	7·7	10·5	21	...	1·6	...	6·9	0	0	29	0	0	1	1	1	0	22	4	1	0
Banda . . .	0830	121	1008·9	995·4	...	30·7	21·3	15·3	17·4	41	...	0·9	...	2·7	0	0	19	0	0	0	3	0	5	9	2	11	0
	1730	,,	1004·6	991.3	...	37·6	25·0	17·9	20·5	33	...	0·8	...	5·2	0	0	29	0	0	0	1	0	15	2	11	1	0
Fatehpur . . .	0830	114	1008·5	995·7	...	28·9	17·9	8·9	11.4	29	−8	0·8	−0·5	6·3	0	0	30	2	1	1	0	2	11	2	11	0	0
	1730	,,	1004·2	991·8	...	36·8	20·7	8·8	11.1	19	...	1·0	...	12·7	0	3	27	1	3	0	0	0	1	5	20	0	0
Kanpur . . .	0830	126	1008·5	994·3	+1·2	28·1	16·6	6·1	9·7	26	−7	0·9	+0·3	10·8	0	1	29	0	1	1	1	1	7	13	6	0	0
	1730	,,	1004·5	991·1	...	36·9	19·1	2·6	7·7	12	...	1·5	...	13·7	0	2	28	0	0	1	0	1	1	18	9	0	0
Kanpur (Aerodrome). . .	0530	126	1006·6	992·0	...	22·1	14·0	6·0	9·3	36	...	1·1	...	4·6	0	0	22	2	1	0	0	0	3	9	7	8	0
	0830	,,	1008·3	994·1		28·9	17·1	6·5	9·7	26	...	0·9	...	11·0	0	4	25	3	0	1	0	2	4	8	11	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in (km.) per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—*Contd.*																											
Kanpur (Aerodrome)—*(contd)*	1130	126	1003·0	994·2	...	35·8	18·9	3·4	7·8	14	...	1·7	...	19·6	0	13	17	1	1	0	0	3	1	9	15	0	0
	1730	,,	1004·2	990·2	...	36·6	19·0	2·5	7·3	12	...	1·9	...	16·8	0	9	21	3	0	1	0	0	2	7	17	0	0
	2330	,,	1006·9	992 5	...	27·3	16·2	5·8	9·2	27	...	0·7	...	8·8	0	2	24	3	2	2	0	0	1	8	10	4	0
Lucknow	0830	111	1008·6	996·1	+1·5	26·9	17·3	10·2	12·4	36	0	0·6	−0·6	3·0	0	0	30	8	0	1	1	5	3	9	3	0	0
	1730	,,	1004·5	992 5	...	35·3	20·7	9·8	12·1	22	...	0·8	...	5·0	0	0	30	0	0	2	0	1	0	27	0	0	0
Lucknow (Amousi Aerodrome).	0230	128	1005·7	991·1	...	23·1	15·4	8·8	11·3	41	...	0·9	...	8·8	0	2	22	3	1	1	0	1	2	8	8	6	0
	0530	,,	1006·0	991·3	...	20 7	14·4	8·7	11·2	49	...	1·3	...	8·6	0	1	24	0	0	1	0	1	5	12	6	5	0
	0830	,,	1007·8	993·8	+1·0	28·5	18·1	10.4	12·6	34	+9	0·9	−0·3	15·9	0	4	26	1	2	0	2	1	4	11	9	0	0
	1130	,,	1007·5	993·5	...	34·5	20·7	10·5	12·7	24	...	1·5	...	25·7	0	20	8	0	0	1	0	0	3	10	14	2	0
	1730	,,	1003·8	989·8	...	35·8	20·7	9·3	11·7	21	...	2·0	...	23·7	0	20	10	1	0	1	1	1	0	16	10	0	0
	2330	,,	1006·5	992·0	...	25.2	16.3	8·9	11·3	36	...	0·7	...	10·2	0	1	25	1	1	2	0	0	2	8	12	4	0
Hardoi	0830	142	1007·9	991·9	...	26·5	17·5	10·5	12·9	37	...	1·0	...	6·9	0	0	29	3	0	2	0	1	2	15	6	1	0
	1730	,,	1004·0	988·5	...	35·3	20·0	8·2	11·0	19	...	1·2	...	9·2	0	0	30	5	0	0	2	0	0	17	6	0	0
Lakhimpur Kheri .	0830	147	1006·7	990·0	...	23·0	18·1	14·4	16·4	60	...	1·0	...	2·4	0	0	19	0	0	0	0	0	1	18	0	11	0
	1730	,,	1003·3	987·2	...	35·1	23·8	16·4	18·6	38	...	1·7	...	5·8	0	0	29	1	0	2	0	0	0	26	0	1	0
Bahraich	0830	124	1007·4	993·5	+0·5	27·4	17·2	8·7	11·2	33	−12	1·5	+0·5	7·2	0	0	30	0	2	2	0	0	0	20	6	0	0
	1730	,,	1004·2	990·6	...	33·9	18·8	5·7	9·1	19	...	1·5	...	6·0	0	0	30	0	0	3	0	0	0	27	0	0	0
Uttar Pradesh (West)																											
Orai	0830	141	1010·9	995·1	...	29·0	19·4	12·5	14·4	37	...	0·8	...	4·7	0	0	30	3	0	0	2	1	7	2	0	0	0
	1730	,,	1005·0	989·7	...	36·8	20·6	7·7	10·5	18	...	1·1	...	5·0	0	0	30	3	0	0	0	1	4	0	22	0	0
Jhansi	0830	251	1009·2	981·2	+1 0	28·6	18·3	10·2	12·7	32	+3	0·9	−0·2	1·5	0	0	14	4	0	5	0	0	0	4	1	16	0
	1730	,,	1004·7	977·4	...	37·0	22·6	12·9	14·9	24	...	1·7	...	2·5	0	0	21	10	3	0	0	1	0	2	5	9	0
Agra	0830	169	1009·3	990·2	+1·5	27·3	17·3	9·0	11·6	32	+4	0·9	−0·4	3·6	0	0	20	0	0	0	0	5	5	1	9	10	0
	1730	,,	1009·2	986·7	...	35·5	19·6	6·6	10·1	18	...	0·8	...	3·8	0	0	21	0	0	0	0	2	4	1	14	9	0
Agra (Aerodrome) .	0530	160	1007·6	987·9	...	19·8	14·5	9·9	12·2	54	...	1·7	...	5·3	0	2	16	0	0	2	1	0	3	5	7	12	0
	0830	,,	1009·1	989·8	...	26·5	17·8	10·9	13·0	39	...	1·6	...	8·0	0	0	26	2	0	1	1	1	4	6	11	4	0
	1130	,,	1008·9	990·0	...	33·6	20·6	11·2	13·3	27	...	2·2	...	13·3	0	7	21	3	0	0	0	1	6	7	11	2	0
	1730	,,	1004·6	986·3	...	34·9	20·5	9·4	11·8	22	...	2·6	...	14·8	0	3	22	2	1	0	1	0	2	10	14	0	0
	2330	,,	1007·8	988 1	...	24·6	17·2	11·3	13·4	45	..	1·5	...	3·2	0	0	10	2	0	2	0	0	0	2	4	20	0
Mainpuri	0830	157	1008·1	990·4	+0·7	27·1	18·1	11·2	13·3	37	+1	0·8	−0·6	3·0	0	0	29	3	0	1	2	0	4	11	8	1	0
	1730	,,	1004·2	987 1	...	35·8	20·9	9·9	12·3	21	..	1·8	..	3·2	0	0	30	0	0	0	1	0	2	13	14	0	0
Aligarh	0830	187	1008·7	987 7	...	26·3	16·0	6.5	9·7	29	0	1·7	+0·7	3·8	0	0	26	6	1	1	1	1	2	8	6	4	0
	1730	,,	1005·1	984·6	...	34·3	18·4	4·0	8·6	16	...	3·0	...	5·8	0	1	26	9	0	1	0	2	0	8	7	3	0
Bareilly	0830	173	1007·5	988.0	+0·5	27·4	17·0	8·1	10·8	31	−13	1·3	−0·3	6.1	0	0	26	1	1	1	2	0	3	12	6	4	0
	1730	,,	1004·1	985·1	...	33 2	18·2	4·8	8·6	19	...	2·3	...	4·1	0	1	17	2	0	1	0	0	0	13	2	12	0
Bareilly (P. B. O.) .	0230	172	1005 6	986 3	...	23·7	14·8	7·5	10·4	40	...	1·8	...	6·5	0	0	27	1	0	5	0	0	0	11	10	3	0
	0530	,,	1006·1	986 4	...	22·1	14·4	8 2	10·9	43	...	2·0	...	4·9	0	0	25	1	0	3	0	0	1	9	11	5	0
	1130	,,	1007·4	988·4	...	32 9	17·5	6·9	9·9	22	...	1·6	..	13 7	0	6	24	0	3	1	1	0	1	8	16	0	0
	2330	,,	1006·5	987·0	...	25·6	15·3	6·8	10·0	31	...	1·5	...	6·5	0	0	26	1	2	3	1	0	0	8	11	4	0
Meerut	0830	222	1008·8	983 9	+1.9	27·7	17·1	8·4	11·0	30	−11	0·5	−1·0	4·1	0	0	23	0	3	4	0	0	0	3	3	7	0
Najibabad . .	0830	270	1008·6	978·1	...	23·8	16·0	9·1	11·5	40	...	0·7	...	2·6	0	0	22	0	5	0	2	0	0	0	15	8	0
	1730	,,	1004·8	975·4	...	33·3	18·4	5·2	8·8	19	...	1·1	...	5·1	0	0	29	0	0	1	2	0	2	0	24	1	0
Roorkee . . .	0830	274	1009·0	978·2	+1·7	24·7	16·4	9·6	11·9	39	−2	2·7	+1·2	1·6	0	0	14	0	0	0	2	0	0	0	12	16	0
	1730	,,	1004 5	974·6	...	33·1	20·0	10·5	12·7	27	...	3·8	...	2·3	0	0	23	0	1	0	1	0	0	0	21	7	0
Dehra Dun . .	0530	682	1008·1	931·5	...	17·5	12·5	8·1	10·8	55	...	1·9	...	1·6	0	0	11	6	3	0	0	0	1	0	1	19	0
	0830	,,	1008·3	933·0	+1·0	23·2	15·4	9·2	11·6	42	−2	2·1	−0·2	1·1	0	0	11	1	1	0	1	0	2	6	0	19	0
	1130	,,	1007·7	933·8	...	28·7	16.6	6·7	9·8	26	..	2·1	...	4·1	0	0	24	0	1	0	3	6	5	6	3	6	0
	1730	,,	1004·1	930·6	...	29·4	16·7	6·2	9·5	25	...	3·9	...	3·1	0	0	18	0	0	0	1	5	4	6	1	12	1
	2330	,,	1008·3	932·5	...	21·1	14·1	8·2	10·9	45	...	2·7	...	2·8	0	0	17	6	7	0	0	1	0	0	3	13	0
Punjab (India) (Including Delhi)																											
New Delhi . .	0230	216	1007·3	982·7	...	23·6	15·7	8·3	9·3	41	...	1·5	...	10·9	1	1	21	9	1	0	1	1	2	1	8	7	0
	0530	,,	1007·5	982·7	...	21·0	14·4	8·5	11·1	46	...	1·5	...	8·5	0	1	22	3	0	1	1	0	1	10	7	7	0
	0830	,,	1009·1	984·6	+1·4	25·5	16·8	9·2	12·3	37	+5	2·1	+0·6	12·2	0	2	25	1	0	2	1	1	3	8	11	3	0
	1130	,,	1008.8	984·9	...	32·0	19·3	8·9	11·8	26	...	2·5	...	19·8	0	11	19	4	1	1	0	1	3	4	16	0	0
	1730	,,	1005·0	981·3	...	33·7	19·5	7·2	·1	21	...	3·7	...	16·7	0	10	18	3	0	1	2	0	1	0	21	2	0
	2330	,,	1007·7	983·3	...	25·5	16·8	8·6	12·3	37	...	2·1	...	11·3	0	6	15	8	3	0	1	0	0	1	8	9	0
New Delhi (Palam Aerodrome).	0230	233	1007·1	980·7	...	23·9	15·3	7·7	10·5	33	...	1·8	...	9·4	0	1	22	5	2	2	1	1	3	1	8	7	0
	0530	,,	1007.4	980·9	...	20·4	14·0	7·8	11·0	45	...	1·7	...	9·1	0	2	25	3	1	1	2	2	12	2	3	3	0
	0830	,,	1009·2	982·8	...	24·9	15·3	6·4	9·6	33	...	2·0	...	12·4	0	6	24	1	1	1	2	2	14	2	7	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km p.h.): 62 or more	Wind speed (km p.h.): 20 to 61	Wind speed (km p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Punjab (India) (Including Delhi)—*Contd.*																										
New Delhi (Palam Aerodrome)—*contd.*	1130	233	1008·9	983·1	...	32·1	18·1	6·0	10·0	20	...	2·2	...	20·6	0	12	18	2	1	0	0	1	6	7	13	0
	1430	,,	1006·6	981·0	...	34·3	18·8	5·9	9·4	18	...	2·6	...	21·8	0	17	13	3	1	0	1	0	3	10	12	0
	1730	,,	1004·9	979·5	...	34·5	18·3	3·7	8·0	16	...	3·5	...	22·2	0	18	12	1	2	0	2	0	0	6	19	0
	2030	,,	1006·6	980·7	...	29·5	17·4	7·1	10·5	25	...	2·4	...	9·8	0	0	28	8	1	3	2	0	1	2	11	2
	2330	,,	1007·7	981·5	...	26·4	16·3	7·5	10·6	32	...	2·1		11·1	0	5	22	5	6	...	2	1	2	1	10	3
Hissar	0530	221	1008·1	982·5	...	18·6	15·0	12·1	14·1	67	...	2·0	...	5·3	0	0	28	4	0	1	6	2	4	5	6	2
	0830	,,	1009·4	984·3	+1·4	24·8	19·0	15·1	17·1	55	+14	1·5	+0·1	4·0	0	0	26	3	1	1	1	3	7	4	6	4
	1130	,,	1009·1	984·8	...	33·3	23·8	18·6	21·9	43	...	1·9	...	6·0	0	0	27	3	2	0	1	3	6	5	7	3
	1730	,,	1005·8	981·7	...	33·7	24·5	19·5	22·7	45	...	3·7	...	8·3	0	2	25	5	0	0	1	0	5	9	7	3
	2330	,,	1008·4	983·3	...	23·7	18·3	14·6	17·0	58	...	2·1	...	5·7	0	0	29	8	6	0	3	0	2	3	7	1
Karnal	0830	249	1009·5	981·2	...	25·2	16·7	9·4	11·8	38	...	0·4	...	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1005·6	978·0	...	32·0	20·2	11·3	14·0	30	...	1·2	...	..	..	..	..	..	..	..	..	..	..	..	..	..
Patiala	0830	251	1008·7	980·5	...	25·4	16·0	7·6	10·4	34	...	2·0	...	5·4	0	0	23	0	0	0	4	0	0	0	19	7
	1730	,,	1006·2	978·6	...	31·7	17·8	4·4	8·4	20	...	3·6	...	8·3	0	0	25	0	0	0	3	0	0	0	22	5
Ambala	0830	272	1008·4	977·8	+1·3	25·4	17·7	11·7	13·7	43	+6	1·0	—0·8	2·8	0	0	18	0	0	0	8	0	5	0	5	12
	1730	,,	1005·0	975·4	...	32·7	20·3	10·9	13·0	29	...	1·5	...	5·3	0	0	26	0	5	0	13	0	1	0	7	4
Ambala (P. B. C.)	0230	278	1006·6	975·1	...	22·8	15·0	9·0	11·4	42	...	2·2	...	8·7	0	2	22	8	3	1	1	0	0	0	11	6
	0530	,,	1006·7	975·1	...	20·9	14·3	9·3	11·7	49	...	2·2	...	6·8	0	0	25	4	4	0	3	1	1	1	11	5
	1130	,,	1008·2	977·5	...	31·4	14·2	9·1	11·5	26	...	2·1	...	13·6	0	6	23	2	1	1	4	1	2	2	16	1
	2330	,,	1007·3	976·1	...	25·1	15·9	9·1	11·5	38	...	2·1	...	9·8	0	2	24	6	2	1	1	0	1	4	11	4
Ambala (Aerodrome)	0530	274	1007·2	975·7	...	18·3	13·0	7·7	10·5	51	...	2·7	...	10·3	0	2	22	1	2	1	2	1	0	8	9	6
	0830	,,	1008·3	977·3	...	25·2	16·0	7·5	10·4	34	...	2·2	...	12·4	0	5	19	2	0	2	3	0	0	8	9	6
	1130	,,	1008·1	977·9	...	31·9	17·8	4·9	8·7		...	2·2	...	22·3	0	17	10	1	1	2	4	0	0	8	11	3
	1730	,,	1004·9	975·0	...	32·1	17·6	3·3	7·7	18	...	3·8	...	25·0	0	16	13	1	0	1	2	1	0	13	11	1
	2330	,,	1007·7	976·5	...	22·3	14·6	7·1	10·1	38	...	2·1	...	9·3	0	4	15	0	1	1	0	0	0	8	9	11
Chandigarh	0830	347	1007·7	969·1	...	27·0	16·9	8·6	11·2	32	...	1·9	...	2·3	0	0	18	0	0	0	2	0	0	0	16	12
	1730	,,	1004·5	966·6	...	31·4	17·7	5·1	8·8	20	...	3·0	...	4·6	0	0	28	0	0	2	6	0	3	1	16	2
Ludhiana	0830	247	1009·2	981·4	+1·9	25·1	17·8	12·7	14·7	48	+2	1·1	—0·7	2·0	0	0	19	2	3	0	4	0	0	0	10	11
	1730	,,	1005·9	978·7	...	32·1	21·0	13·6	15·9	33	...	3·3	...	4·0	0	0	29	1	3	0	1	0	2	3	19	1
Halwara	0830	242	1009·6	982·2	...	24·1	16·4	10·1	12·3	43	...	2·0	...	9·5	0	1	27	6	2	2	5	1	1	1	10	2
	1730	,,	1007·0	980·3	...	31·4	18·2	6·8	9·9	24	...	3·8	...	19·9	0	14	15	1	0	0	2	3	1	2	20	1
Bhatinda	0830	211	1009·1	985·3	...	25·4	16·7	9·5	12·3	37	...	1·3	...	5·7	0	0	28	7	6	[illegible]	1	2	3	0	9	2
	1730	,,	1005·9	982·5	...	32·7	19·0	8·6	11·1	23	...	2·8	...	7·9	0	0	28	1	0	0		1	2	0	20	2
Ferozpur	0830	200	1008·6	985·7	...	22·6	27·5	13·8	15·8	60	...	1·2	...	2·5	0	0	22	4	6	3	3	0	0	0	6	8
	1730	,,	1005·5	983·4	...	31·9	22·6	16·9	19·2	42	...	2·3	...	3·0	0	0	20	3	2	0	0	0	1	1	13	10
Amritsar	0530	234	1008·4	981·2	...	15·9	12·9	10·2	12·4	69	...	1·5	...	7·1	0	1	23		4	1	1	1	2	2	6	6
	0830	,,	1009·4	982·7	...	22·4	15·7	9·9	12·3	46	...	1·5	...	9·7	0	3	22	[illegible]	6	2	2	2	[illegible]	2	7	5
	1130	,,	1009·4	983·3	...	29·4	17·9	8·4	10·9	27	...	2·1	...	12·4	0	2	27	5	2	1	5	2	0	8	6	1
	1730	,,	1006·3	980·4	...	30·8	17·[illegible]	5·9	9·[illegible]	23	...	3·1	...	14·4	0	5	24	2	0	1	1	2	1	8	14	1
Pathankot (Aerodrome)	0830	312	1008·9	973·9	...	24·4	15·1	6·2	9·5	33	...	2·8	...	4·2	0	0	25	1	11	5	1	2	0	3	2	5
	1130	,,	1008·9	974·4	...	30·0	16·8	4·1	8·2	21	...	3·2	...	6·3	0	0	26	1	3	3	3	5	3	5	2	4
	1730	,,	1005·7	971·4	...	31·0	16·[illegible]	0·9	6·5	17	...	4·2	...	10·3	0	0	29	0	1	1	1	2	8	11	4	1
Adampur (Aerodrome) (R)	0530	238																								
(R)	0830	,,																								
(R)	1130	,,																								
(R)	1730	,,																								
(R)	2330	,,																								
Himachal Pradesh																										
Bilaspur	0830	493	1010·5	954·9	...	20·6	14·4	9·2	11·6	49	...	(b) 2·7	...	(b) 1·5	0	0	11	2	1	0	1	2	2	1	2	18
	1730	,,	1005·3	951·5	...	30·3	16·6	5·0	8·7	23	...	3·8	...	4·3	0	1	29	2	1	0	1	2	6	5	13	0
Mandi	0830	761	1011·0	925·7	...	17·4	13·4	10·4	12·6	65	...	2·1	...	0·9	0	0	9	2	4	0	0	0	0	0	3	21
	1730	,,	1004·4	922·4	...	27·6	17·9	10·7	13·2	39	...	3·7	...	1·8	0	0	14	0	0	1	5	0	0	2	6	16
Jammu and Kashmir																										
Srinagar	0830	1587	1517·5	843·1	+1·0	10·2	8·0	5·9	9·1	76	—9	4·7	+0·6	1·6	0	0	14	0	0	1	3	1	0	4	5	16
	1130	,,	1518·5	843·3	...	14·5	10·1	6·3	9·4	59	...	4·4	...	2·9	0	0	14	1	0	0	4	1	0	4	4	16
	1730	,,	1492·2	840·7	...	15·9	9·9	4·3	8·2	50	...	6·1	...	5·5	0	1	23	3	0	0	1	1	0	9	10	6
Srinagar (Aerodrome)	0530	1666	1502·1	839·9	...	6·8	5·4	3·9	8·0	82	...	4·2	...	3·9	0	0	14	0	1	1	1	1	3	3	4	16
	0830	,,	1510·9	834·9	...	10·0	7·5	4·9	8·8	73	...	4·5	...	5·6	0	0	26	1	6	4	1	1	0	2	11	4
	1130	,,	1513·3	835·4	...	13·9	9·5	5·3	8·2	58	...	4·5	...	7·9	0	1	27	6	7	1	1	0	1	2	10	2

(R) Register not received. (b) Mean o 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir— *Contd.*																											
Srinagar (Aerodrom)	1730	1665	1487·9	832 9	...	15·2	9·5	4·0	8·3	50	..	5.9	...	15·2	0	2	22	1	0	1	1	1	2	5	18	1	0
	2330	"	1506·7	834.5	...	9·7	7·3	5·1	8.5	74	...	4·3	...	5·9	0	7	14	0	1	1	0	1	0	3	10	14	0
Gulmarg	08.0	2655																									
	1730	"			Closed	during	winter	months																			
Leh	0530	3514	3100.3	665·2	..	−0.8	−3.8	−9·0	2.8	52	...	4·1	...	3·9 (b)	0	0	18	6	11	0	0	0	1	0	0	11	0
	0830	"	3103·7	666.0	...	4·2	−0·1	−6.1	3.7	46	−4	4·1	−0·1	3.9	0	0	18	0	2	0	0	13	3	0	0	12	0
	1730	"	3069.3	663·9	—	8·7	2·5	−5.8	3.7	38	...	5·1	...	10.0	0	0	27	4	0	0	0	3	9	5	6	3	0
Skardu (R)	0830	"																									
(R)	1730	"																									
Gilgit (R)	0830	"																									
(R)	1730	"																									
Kisgar (R)	0830	2288																									
	1730	"																									
Jammu*	0830	1491																									
Jammu (Aerodrome)	0530	292	1008.3	974.6	..	19.3	13.5	8.0	8·1	50	..	2.6	..	8.8	0	3	7	2	12	1	2	0	0	1	2	10	0
	0830	"	1009.1	976.9	..	23.9	15.5	7.9	10.7	38	..	2 9	..	8.5	0	1	26	3	20	2	1	0	0	0	1	3	0
	1130	"	10 9.3	976.6	..	29.5	17.5	6.9	9.9	26	..	2.9	..	7.0	0	3	7	1	2	2	1	0	0	8	6	10	0
	1730	"	1006.1	973.7	..	30.3	17.4	5.3	8.9	23	..	4.0	..	11.6	0	4	5	0	1	1	1	2	2	16	6	1	0
Rajasthan (East) Sri Ganganagar	0530	177	1008·0	987·5	...	18·9	13 3	7.9	10·7	46	...	1·2	...	3.0	0	0	20	4	5	5	2	2	0	0	2	10	0
	0830	"	1009 2	989.0	...	23·4	15·3	8.2	10·9	39	−3	1·3	−0.2	3.3	0	0	2	3	6	4	3	2	1	2	1	8	0
	1130	"	1009.4	989.8	...	32·1	17·9	4·8	8.6	19	...	2 2	...	5.5	0	0	24	3	3	3	3	3	2	2	5	6	0
	1730	"	1005·4	986·0	...	33·7	18 4	5·7	9·1	17	...	2 7	...	7	0	0	15	3	1	0	0	0	3	4	4	15	0
	2330	"	1008·2	988·2	...	24·0	15·9	8·8	11·3	38	...	0·8	...	2·4	0	0	15	2	6	3	1 9	0	2	0	1	15	0
Churu	0830	291	1009.6	976 7	...	25·0	14·8	4·7	8·5	30	...	1 8	...	5·1	0	0	7	2	1	5		3	3	4	0	3	0
	1730	"	1005.1	973.4	...	34·7	17·5	−1 5	5·4	11	...	3·3	...	16·0	0	7	23	4	0	0	1	1	2	8	14	0	0
Bikaner	0830	224	1009·8	984·3	+2.0	24·2	13·7	1·6	6·4	24	−4	1·6	−0·8	4·4	0	0	23	0	3	1	10	3	5	5	1	2	0
	1730	"	1005.0	980 6	...	35·4	18 0	0	6·4	11	...	0·9	...	7·9	0	0	30	3	3	1	1	0	6	6	10	0	0
Bikaner (P.B.O.)	0530	"	1007.9	982·1	...	20·2	15·4	11·3	13·5	57	...	1·4	...	3.2	0	0	16	3	0	1	2	3	5	1	1	14	0
	1130	"	1009·1	984·5	...	34.1	23·9	17·8	21·5	41	...	1 9	...	7·6	0	1	26	2	3	1	6	5	5	2	2	3	1
	2330	"	1008·1	982 8	...	25·8	18 8	13·6	15·6	48	..	1·2	...	4·7	0	0	19	4	4	1	0	2	3	2	3	11	0
Jaisalmer	0830	242	1008·7	981·5	...	25·5	17 3	10·3	12·5	42	...	1·4	...	9·3	0	0	27	4	3	2	1	9	7	0	1	3	0
	1730	"	1001·5	975 3	...	35·7	20 2	8 9	11 4	21	...	2·0	...	15·2	0	4	26	5	3	0	1	9	9	1	2	0	0
Phalodi	0830	234	1009·5	983·2	...	26 1	20·6	..	..	...	...	1·9	...	11.2	0	3	22	1	0	3	6	6	4	4	1	5	0
	1730	"	1005·8	930·3	...	35·9	25·7	..	..	..	...	2·5	...	12·3	0	6	20	1	0	0	0	1	8	11	5	4	0
Nagaur	0830	298	1009.4	976·0	...	27·0	15 0	4 9	8·7	27	...	1·3	...	9 7	0	1	28	2	3	5	7	5	3	3	1	1	0
	1730	"	1005·3	973 0	...	35·5	18 5	1·8	6·9	13	...	2·6	...	13·2	0	2	28	1	1	0	0	3	8	10	7	0	0
[illegible]	0230	224	1007·6	982.3	...	25·8	14·6	3·0	7·8	24	...	1·2	...	8·9	0	1	26	7	8	0	1	0	1	8	2	3	0
	5030	"	1008·0	982.8	...	23·4	13·9	3·3	8·3	29	...	1·3	...	6·7	0	0	22	3	8	0	1	0	2	7	1	8	0
	0830	"	1009·7	984.3	+2.4	26·3	15.3	3.6	8·1	25	−7	1·6	−0.1	5.9	0	0	21	1	9	2	0	1	5	3	0	9	0
	1130	"	1009·4	984·5	...	34·3	18·3	3.1	8·0	16	...	1·4	...	10·0	0	2	27	4	3	3	5	2	7	4	1	1	0
	1730	"	1005·2	980·1	...	36·7	18·9	1.6	7·4	12	...	2·2	...	11·5	0	3	25	2	0	0	3	1	7	11	4	2	0
	2330	"	1008·0	982 9	...	28·6	16·0	3·2	7·6	20	...	1·2	...	7·7	0	1	22	5	3	0	0	0	3	9	3	7	0
Ajmer	0530	194	1007.4	985·4	...	25·5	15·9	6·3	9 5	32	..	1.5	...	7·4	0	0	28	3	1	0	0	0	4	9	11	2	0
	0830	"	1009·1	987·2	+0.8	26·7	16.5	6·6	9·7	31	−22	1·8	+0·5	5·9	0	0	30	5	5	2	0	3	1	11	3	0	0
	1130	"	1009·3	988 0	...	34·9	19·3	5·2	8.8	18	...	1.9	...	5.5	0	0	30	3	1	5	5	1	3	11	1	0	0
	1730	"	1005·1	984.0	...	37·3	19·9	4·7	8 5	14	...	2·4	...	5·8	0	0	29	2	1	1	0	7	6	11	1	1	0
	2330	"	1007·8	986·2	...	30·2	17·7	6·3	9·5	24	...	1·3	...	5.8	0	0	27	1	0	0	0	2	1	23	0	3	0
Rajasthan (East) Pilani	0830	301	1009 9	976·2	...	25·6	15·3	4·8	8.6	28	..	0.7	..	8.4	0	0	26	3	1	5	3	1	6	5	1	4	0
	1730	"	1005·2	972·8	...	34.0	17.5	−0.5	5.9	13	...	1.8	...	17.9	0	4	26	8	1	3	0	0	2	7	9	0	0
Alwar	0830	271	1008.1	977·8	...	26 9	17·6	9 7	12 0	37	...	1·9	...	1.1	0	0	9	3	1	0	0	1	2	1	1	21	0
	1730	"	1004·9	975·1	...	35·0	20·0	8.7	11·2	21	...	2·6	...	7.9	0	0	30	7	5	1	0	1	5	7	1	0	
Sikar	0830	433	1009.3	961.3	...	27·7	20·9	16·4	19·6	54	...	1·4	...	2·7	0	0	26	0	5	6	7	2	1	5	0	4	
	1730	"	1005.2	958.4	...	33·8	25·4	20·8	25·9	50	...	4·0	...	2·2	0	0	19	0	0	0	2	0	1	13	3	11	
Jaipur (Sanganer Aerodrome)	0230	390	1007·5	963·7	...	22·7	14·3	5.7	9·1	35	...	1·5	...	5·3	0	0	26	10	7	1	1	0	0	1	6	4	
	0530	"	1008 0	963·8	...	21·3	13·7	5·7	9·1	38	...	2·0	...	6·5	0	1	24	6	5	5	0	1	0	2	6	5	
	0830	"	1009·1	965·7	+0.7	27·2	16·8	6·6	9·7	28	−22	1·8	+0.4	6·3	0	0	22	4	3	4	2	1	3	1	4	8	

(R) Register not received. *Temporarily closed. (b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—*Contd.*																											
Jaipur (Sanganer Aerodrom) (*contd.*)—	1130	390	1008.7	966.0	...	32.6	18.4	5.3	8.9	20	...	1.9	...	10.5	0	4	25	3	1	3	3	2	6	7	4	1	0
	1730	"	1004.5	962.3	...	34.5	19.0	5.4	9.0	18	...	2.9	...	11.8	0	2	28	3	1	1	1	0	2	14	8	0	0
	2330	"	1007.9	964.3	...	25.2	15.5	6.4	9.6	30	...	1.7	...	8.0	0	1	25	11	5	2	2	0	0	2	4	4	0
Dholpur	0830	176	1008.7	988.9	...	27.3	17.0	8.1	10.8	31	...	1.4	...	3.9	0	0	22	3	0	0	1	0	0	7	11	8	0
	1730	"	1004.2	985.0	...	35.6	19.7	6.9	9.9	18	...	2.5	...	7.4	0	0	30	8	0	0	1	0	1	6	14	0	0
Tonk	0830	272	1009.0	978.5	...	26.4	16.8	8.8	11.3	34	...	1.7	...	5.6	0	0	26	3	2	2	1	2	4	5	7	4	0
	1730	"	1003.6	974.3	...	35.9	20.0	7.5	10.4	18	...	2.2	...	11.3	0	3	26	1	1	0	0	0	5	6	10	1	6
Ajmer	0830	486	1009.6	955.9	+1.0	26.4	15.3	5.3	8.9	27	−3	2.0	+0.6	5.5	0	0	23	0	7	0	4	2	5	4	1	7	0
	1730	"	1004.6	952.4	...	34.1	16.9	0.7	6.4	12	...	2.7	...	11.5	0	4	25	2	2	0	0	1	6	14	4	1	0
Kotah	0530	257	1008.3	979.1	...	23.5	15.0	7.0	9.9	36	...	0.9	...	0.2	0	0	2	0	0	1	0	0	0	1	0	28	0
	0830	"	1009.8	981.1	+1.5	29.1	17.2	6.5	9.7	25	0	1.0	−0.4	1.3	0	0	8	0	0	0	0	0	2	4	2	22	0
	1130	"	1009.2	981.1	...	34.9	19.1	5.5	9.0	17	...	1.3	...	1.2	0	0	9	0	0	0	1	0	0	7	1	21	0
	1730	"	1005.2	977.4	...	31.5	19.6	5.3	8.9	15	...	2.1	...	1.4	0	0	8	0	0	0	0	0	1	4	3	22	0
	2330	"	1007.6	978.9	...	28.0	16.8	6.6	9.7	27	...	0.4	...	0.5	0	0	5	0	0	1	0	0	2	1	1	25	0
Chambal	0830	351	1009.6	970.6	...	27.7	17.5	8.7	11.2	33	...	1.4	...	4.4	0	0	23	2	3	0	3	3	1	3	8	7	0
	1730	"	1004.5	966.7	...	36.4	21.8	11.7	13.7	24	...	2.4	...	10.7	0	2	27	6	0	1	0	1	3	4	14	1	0
Jhalawar	0830	321	1009.4	973.7	+0.7	27.1	15.5	3.9	8.1	23	−6	2.2	+1.1	2.0	0	0	20	5	3	1	0	0	2	4	5	10	0
	1730	"	1004.2	969.4	...	37.5	19.0	0.1	6.1	10	...	1.6	...	4.5	0	0	29	2	4	1	0	0	8	8	6	1	0
Udaipur	0230	582	1008.7	943.7	...	21.5	14.0	7.6	10.4	41	...	0.6	...	1.2	0	0	8	0	0	0	0	0	1	4	3	22	0
	0530	"	1009.5	944.0	...	19.5	13.1	7.4	10.3	47	...	1.0	...	0.8	0	0	5	1	0	0	0	0	0	1	3	25	0
	0830	"	1009.9	945.9	+1.3	26.5	15.9	7.2	10.1	30	−10	1.6	+0.6	1.6	0	0	13	2	2	0	1	0	0	5	3	17	0
	1130	"	1008.6	946.0	...	33.2	17.5	4.0	8.1	17	...	1.3	...	5.1	0	0	27	1	3	5	1	2	3	9	3	3	0
	1730	"	1004.7	942.5	...	34.0	17.7	4.3	8.3	16	...	2.2	...	4.8	0	0	22	0	1	1	0	3	6	9	2	8	0
	2330	"	1009.2	944.6	...	24.0	14.9	7.4	10.3	35	...	0.8	...	0.8	0	0	8	0	0	0	0	0	1	5	2	22	0
Erinpura (Jawai Dam)	0830	295	1009.5	976.4	...	25.8	19.1	14.6	16.6	51	...	1.3	...	4.9	0	1	22	0	1	0	1	15	3	2	0	8	0
	1730	"	1005.1	973.0	...	35.7	23.8	17.3	19.7	35	...	1.8	...	7.8	0	2	24	2	0	0	0	0	5	16	3	4	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1006.9	983.4	...	23.2	13.5	2.6	7.7	28	...	1.1	...	4.1	0	0	17	2	0	1	5	2	1	2	4	13	0
	0530	"	1007.6	983.9	...	21.7	13.1	3.7	8.1	32	...	1.3	...	4.3	0	0	18	0	0	0	5	3	2	2	5	12	1
	0830	"	1009.1	986.0	+1.5	28.9	16.1	3.0	8.0	20	−6	1.6	+0.4	6.7	0	0	24	5	2	0	0	4	3	4	6	6	0
	1130	"	1008.6	986.0	...	34.7	16.9	−2.2	5.0	11	...	1.5	...	12.3	0	2	27	9	1	1	0	0	7	2	9	1	0
	1730	"	1004.6	982.1	...	36.2	17.5	−3.3	4.9	9	...	2.3	...	12.2	0	2	28	6	0	1	0	1	1	4	17	0	0
	2330	"	1007.8	984.2	...	25.5	14.5	2.7	6.2	24	...	1.4	...	4.9	0	0	17	2	0	0	2	2	5	3	3	13	0
Sh opurkalan	0830	235	1009.4	983.0	...	28.4	16.9	6.5	10.6	26	...	1.7	...	6.2	0	0	24	3	7	2	2	3	4	2	1	6	0
	1730	"	1004.1	978.6	...	36.1	19.7	5.4	9.6	16	...	2.9	...	12.4	0	2	28	7	1	0	0	1	1	5	12	0	3
Guna	0530	478	1007.8	954.3	...	20.9	12.1	2.1	7.7	33	...	1.3	...	3.1	0	0	16	3	4	2	1	3	1	2	0	14	0
	0830	"	1008.1	956.4	+0.6	28.2	15.1	1.3	7.7	19	−7	1.6	+0.8	5.2	0	0	26	7	2	8	1	3	2	2	1	4	0
	1130	"	1008.1	956.5	...	34.2	16.5	−0.7	5.9	11	...	1.5	...	8.4	0	0	28	5	5	2	4	1	3	2	6	2	0
	1730	"	1003.7	953.0	...	35.5	16.7	−2.5	5.0	9	...	2.4	...	12.9	0	4	25	3	1	1	2	1	1	10	10	1	0
	2330	"	1007.9	954.7	...	25.1	13.7	2.4	7.4	23	...	0.7	...	3.2	0	0	18	3	2	3	2	3	1	1	3	12	0
Rajgarh	0830	382	1008.6	966.2	...	27.5	15.2	2.0	7.4	20	...	0.7	...	4.3	0	0	25	4	0	0	0	0	0	3	18	5	0
	1730	"	1003.8	962.7	...	37.1	18.4	−0.8	6.0	10	...	1.7	...	4.6	0	0	22	5	0	0	0	0	0	2	15	8	0
Neemuch	0830	496	1010.1	955.2	+1.1	28.1	14.5	0.3	6.7	18	−16	1.2	+0.1	5.9	0	0	24	2	13	5	0	0	1	1	2	6	0
	1730	"	1004.9	951.8	...	35.8	16.6	−2.9	4.9	9	...	1.9	...	11.5	0	1	28	7	4	0	0	1	3	10	4	1	0
Ratlam	0830	486	1009.3	955.5	...	25.3	18.0	13.3	15.3	49	...	1.6	...	4.7	0	0	17	5	4	2	1	1	1	1	2	13	0
	1730	"	1003.9	952.1	...	36.7	25.1	19.6	23.1	38	...	1.8	...	9.1	0	1	28	3	7	4	1	1	3	7	3	1	0
Alirajpur	0830	293	1010.2	977.5	...	27.6	17.5	8.7	11.8	32	...	1.2	...	7.1	0	0	24	0	0	4	0	0	1	16	3	6	0
	1730	"	1004.4	973.0	...	38.0	19.0	0.3	6.6	10	...	1.2	...	9.9	0	0	29	2	2	0	0	0	0	17	8	1	0
Indore	0530	567	1008.4	945.1	...	21.7	12.0	1.8	7.0	27	...	1.1	...	8.4	0	0	26	4	7	1	0	3	5	2	4	4	0
	0830	"	1009.0	947.0	+0.4	28.2	15.4	3.5	8.2	22	−15	1.3	−0.1	12.9	0	5	21	3	7	7	0	1	1	3	4	4	0
	1130	"	1007.8	947.0	...	34.4	17.4	2.7	7.6	14	...	1.1	...	15.2	0	6	24	4	8	3	0	5	3	3	3	0	1
	1730	"	1003.2	943.1	...	36.2	17.8	1.8	7.1	12	...	1.6	...	18.6	0	12	18	4	3	1	0	1	2	11	8	0	0
	2330	"	1007.6	945.6	...	26.8	14.4	2.3	7.4	21	...	1.2	...	14.1	0	8	19	2	6	0	1	2	0	10	6	3	0
Ujjain	0830	..	...	...	...	28.2	15.9	5.4	9.3	24	...	0.7	...	9.4	0	3	24	2	8	5	1	1	0	4	6	3	0
Bhopal (Bairagarh)	0230	523	1006.9	948.9	...	24.6	13.4	1.9	7.4	24	...	0.8	...	8.7	0	0	26	6	8	2	1	3	0	2	4	4	0
	0530	"	1008.0	949.7	...	22.5	12.8	2.8	7.8	29	...	1.0	...	6.4	0	0	23	5	6	4	3	1	2	1	1	7	0
	0830	"	1008.5	951.7	+0.7	28.8	15.4	0.6	7.9	20	−4	0.8	−0.6	11.8	0	1	26	5	4	7	3	3	2	1	2	3	0
	1130	"	1007.7	951.4	...	34.4	17.3	1.2	7.3	13	...	1.2	...	13.9	0	5	24	3	6	3	5	1	3	0	8	1	0
	1730	"	1003.2	947.5	...	35.9	17.5	0.2	6.7	12	...	1.5	...	14.7	0	5	25	8	3	1	1	1	2	3	11	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West) – *Contd.*																											
Bhopal (Bairagarh)—*contd.*	2330	523	1007·5	949·9	...	26·9	14·3	1·6	7·2	20	...	0·8	...	7·9	0	1	23	7	5	2	3	0	1	3	3	6	0
Khandwa	0830	318	1009·1	973·9	+0·6	30·1	18·1	7·9	11·1	27	−1	1·9	+0.7	3.0	0	0	26	0	5	0	1	2	3	9	6	4	0
	1730	,,	1003·4	969·6	...	38·5	21·3	8·4	11·3	17	..	2·3	...	7·0	0	0	30	4	3	1	0	3	3	3	13	0	0
Hoshangabad	0830	302	1009·1	975·5	+0.4	28·9	16·5	4·6	8·8	22	−6	1·7	+0.4	3·5	0	0	18	1	2	12	0	3	0	0	0	12	0
	1730	,,	1003·4	970·9	...	37·7	19·1	1.1	6·9	11	...	2·4	...	2·8	0	0	18	4	0	3	0	2	7	1	1	12	0
Betul	0830	653	1009.0	937·7	...	27·2	16·0	6.4	9·2	29	...	1·6	...	4·1	0	0	26	1	5	2	10	2	0	3	3	4	0
	1730	,,	1002·9	933·8	..	34·8	17·5	2·7	7·4	14	..	3·0	...	7·5	0	0	29	5	4	1	1	2	5	6	5	1	0
Chhindwara	0830	685	1008.7	934·4	...	28·4	17·6	9·2	12·2	32	...	1·8	...	6 6	0	1	21	4	7	1	1	3	0	1	5	8	0
	1730	,,	1002·9	930·4	..	34·6	19.3	8·2	11·4	21	..	3 4	...	10·5	0	1	29	4	3	2	0	6	3	2	10	0	0
Seoni	0830	619	1008·9	941·7	+1.2	28·5	17·8	10·1	12·5	33	+3	2.5	+1.0	3·2	0	0	21	6	5	1	1	3	1	0	4	9	0
	1730	,,	1002.6	937·2	...	34·3	19·5	9·2	12·3	23	...	3·6	...	3·1	0	0	24	4	5	0	3	2	4	0	6	6	0
Sagar	0830	551	1008.5	948·0	+0·5	28·7	15·3	2.5	7 8	19	−7	1·1	−0.3	8·8	0	0	27	0	8	9	2	0	0	5	4	2	0
	1730	,,	1003 2	944·5	..	35·3	17.3	0·8	6·6	11	...	1·7	...	5·1	0	1	28	0	2	3	0	0	1	12	10	2	0
Nowgong	0830	229	1009·4	983·8	+1·4	27·3	16·7	7·2	11 0	29	−5	1·2	−0.5	4 3	0	0	24	1	2	0	1	1	12	4	3	6	0
	1730	,,	1004.2	979·6	...	37·2	19·6	4·5	8·4	14	...	1·2	...	6·2	0	0	30	0	1	0	1	0	10	1	17	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1007 2	971·3	..	22·1	13.7	5·1	10.0	34	...	2·2	...	2·5	0	0	22	0	0	1	4	3	4	9	1	8	0
	0830	,,	1008·9	973·6	+1·3	28·6	16·2	3·9	8·5	22	−7	1·4	−0.1	3 2	0	1	26	1	1	2	1	5	4	9	3	4	0
	1130	,,	1007·8	973·3	...	34·9	18·0	0·9	6·9	13	...	1·9	...	6·2	0	0	30	0	1	2	3	0	7	2	15	0	0
	1730	,,	1003·8	969·2	..	35·9	18·1	−0 3	6·4	11	..	2·0	...	5 8	0	0	30	2	1	1	1	0	0	7	18	0	0
	2330	,,	1006·9	971·4	...	26·2	15·4	4·8	8·7	26	...	1 9	...	3 0	0	0	21	0	0	4	4	1	5	2	5	9	0
Sidhi	0830	272	1007·8	977·7	...	28·7	18·3	9·9	12·3	31	...	1·0	...	1·3	0	0	11	1	0	0	0	1	1	7	1	19	0
	1730	,,	1003·6	974·2	..	35 8	20·7	9·3	12·2	21	...	1·7	...	3·9	0	0	26	14	0	0	0	0	0	4	8	4	0
Umaria	0830	459	1008.6	958·2	..	29·5	17·3	7·8	10·8	27	−1	1·9	0	2·9	0	0	17	0	2	5	4	0	1	2	3	13	0
	1730	,,	1003·2	954·7	...	35·8	18·8	5·6	9·4	16	...	2·4	...	4·1	0	0	21	3	0	0	0	2	1	5	10	9	0
Jabalpur	0530	393	1007·8	963·4	...	21·3	14·9	9·2	11·8	48	...	2·2	..	2·0	0	0	17	3	0	2	7	2	3	0	0	13	0
	0830	,,	1008.9	965·6	+1.1	28·3	17·3	7·9	10·8	29	−2	1·7	+0.4	3·9	0	0	22	0	5	1	7	5	2	1	1	8	0
	1130	,,	1007.5	965·2	...	35·7	19·4	5 4	9·3	17	...	1·8	...	6 0	0	0	28	2	10	1	9	2	3	0	1	2	0
	1730	,,	1003·2	961·1	...	36·3	19·9	6·2	10·5	17		2·4	...	6 0	0	0	27	9	5	2	0	4	2	2	3	3	0
	2330	,,	1007·3	963·5	...	25·1	16·9	10·2	12·8	41	...	1 2	...	2·5	0	0	17	1	7	2	6	1	0	0	0	13	0
Mandla	0830	443	1009·4	960·2	...	26·0	17·9	11·4	14·1	42	...	1·7	...	0·5	0	0	3	1	0	0	1	1	0	0	0	27	0
	1730	,,	1003 3	955·9	...	35·2	20·8	9·7	12·9	24	...	2·5		3 7	0	0	17	7	0	0	1	2	0	1	6	13	0
Pendra	0530	625	1007·5	938·6	...	23·6	13·9	4·7	8·8	32	...	3 1	...	5·3	0	0	30	9	2	1	0	1	4	4	10	0	0
	0830	,,	1008 7	940·8	+0.8	28·6	16·1	5·3	9·2	25	−6	2·2	+0 2	5·4	0	1	26	8	2	2	1	4	1	3	6	3	0
	1130	,,	1007·5	940·7	...	33·0	17·3	3·5	8·3	17	...	2·3	...	10·2	0	3	27	11	3	1	2	3	1	2	7	0	0
	1730	,,	1003·3	936·9	...	34·0	17·5	3·2	8·0	16	...	3·8	...	9·0	0	3	27	8	4	2	0	2	4	6	4	0	0
	2330	,,	1007 5	939·1	...	26·2	15·2	5·0	9·2	27	...	1·6	...	6·3	0	1	25	8	0	0	0	2	4	5	5	4	0
Ambikapur	0830	611	1008·6	942·3	...	27·9	16·2	6·3	9·9	27	...	2·0	...	4·6	0	0	21	4	6	0	2	2	5	1	1	9	0
	1730	,,	1003·1	938·1	..	35·0	18·4	5·0	9·0	16	...	1·8	..	7·6	0	0	28	13	3	0	0	0	2	1	9	2	0
Champa	0830	245	1009·2	982·0	...	29·6	19·3	11·6	14·0	35	...	2·2	...	2·1	0	0	18	7	2	0	0	0	2	2	5	15	0
	1730	,,	1003·5	977·5	...	37·4	21·4	9·0	12·8	21	...	3·0	...	5·8	0	1	24	6	0	0	0	0	2	12	5	5	0
Raigarh	0830	220	1008·6	984·2	...	30·6	19·8	11·8	14·3	32	...	1·9	...	2·3	0	0	18	0	10	2	0	1	3	2	0	12	0
	1730	,,	1003·0	979·3	...	38·0	21·1	8·3	11·2	18	...	2·3	...	3·3	0	0	20	1	2	0	1	1	3	8	4	10	0
Raipur	0530	298	1007·2	973·9	...	25·8	17·7	11·2	13·8	42	...	3·3	...	5·2	0	0	24	4	3	0	0	4	4	5	2	6	0
	0830	,,	1009·4	976·3	+1·1	30·5	19·5	11·0	13·9	33	−1	2·5	+0·8	5·1	0	0	19	2	2	0	0	2	3	8	1	11	0
	1130	,,	1008·1	975·7	...	35·9	20·7	9·2	10·7	23	...	1·9	...	7·3	0	0	28	4	3	0	0	2	2	9	8	2	0
	1730	,,	1003·5	971·7	...	37·1	20·9	8·3	11·7	19	...	3.4	...	4·7	0	0	23	1	3	0	0	5	2	9	5	7	0
	2330	,,	1007·0	973·7	...	30·2	19·1	10·5	13·0	31	...	1·6	...	9·4	0	2	24	3	0	0	1	7	5	8	2	4	0
Kanker	0830	402	1009·1	965·0	+0·8	29·3	21·1	16·1	17·8	45	+1	2·5	+0·1	1·4	0	0	5	0	0	0	0	0	4	1	0	25	0
	1730	,,	1003·8	960·8	..	35·7	23·1	15·0	18·1	30	...	4·0	...	1·8	0	0	14	1	4	0	0	0	3	2	4	16	0
Jagdalpupr	0530	553	1007·8	946·8	...	23·1	18·4	15·5	18·2	63	...	3·1	...	0·4	0	0	4	0	0	0	3	0	1	0	0	26	0
	0830	,,	1009·2	948·9	+0·3	28·3	20·0	15·1	17·3	46	−10	1.9	+0·1	2·6	0	0	18	0	2	0	3	5	6	1	1	12	0
	1130	,,	1007·4	948·2	...	34·2	20·3	11·0	13.5	26	...	1·6	...	5·5	0	0	26	0	4	0	3	4	6	3	6	4	0
	1730	,,	1003 1	944·5	...	34·7	20·5	10·8	13·8	27	...	3·8	...	3·2	0	0	20	1	1	4	2	1	5	3	3	10	0
	2330	,,	1007·7	947·2	...	27·0	19·3	14 7	16·8	49	...	3·2	...	3·7	0	0	18	0	0	1	2	5	9	1	0	12	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height g. p. m. of nearest isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p. h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	2
Gujarat																											
Deesa	0830	136	1010·2	994·7	−0·8	27·1	17·3	8·2	10.9	34	...	0·9	...	4·0	0	0	26	4	6	4	1	1	0	3	7	4	0
	1730	,,	1005·7	990·9	...	37·3	19·5	3·6	7·9	13	...	1·1	...	4·8	0	0	29	3	0	0	1	0	3	13	9	1	0
Radhanpur	0830	30	1010·1	1006·7	...	26·5	20·8	17·2	19·6	58	...	0·7	...	3·8	0	0	29	8	1	4	0	0	1	12	3	1	0
	1730	,,	1007·0	1003·7	...	37·0	25·5	19·4	22·5	37	...	1·2	...	4·2	0	0	30	11	0	0	0	0	1	17	1	0	0
Idar	0830	219	1009·6	985·1	...	28·6	17·4	7·0	10·5	28	...	1·1	...	7·1	0	2	21	5	7	4	1	0	2	3	1	7	0
	1730	,,	1005·3	981·5	...	36·8	19·3	2.8	7·5	13	...	1·0	...	5·9	0	0	28	0	0	0	0	1	1	22	4	2	0
Ahmedabad	0230	55	1007·6	1001·3	...	26·0	16·6	8·2	11·2	33	...	0·6	...	10·5	0	0	29	5	0	1	0	1	1	5	16	1	0
	0530	,,	1008·0	1001·7	...	23·5	16·4	10·5	12·9	44	...	1·3	...	9·7	0	1	27	4	3	1	1	0	0	2	17	2	0
	0830	,,	1010·0	1003·7	+0·2	26·9	18·6	11·8	14·7	42	−6	1·1	0	14·5	0	7	23	8	2	3	0	0	0	2	15	0	0
	1130	,,	1010·2	1004.0	...	35·1	19·8	7·0	10·8	20	...	1·1	...	15·3	0	7	23	7	1	6	1	1	1	3	10	0	0
	1730	,,	1005·7	999.6	...	38·4	19·6	2·6	7·4	11	...	1.2	...	15·9	0	7	23	3	3	0	1	0	1	9	13	0	0
	2330	,,	1008·3	1002·1	...	28·6	17·5	7.9	11·1	28	...	0·4	...	9·1	0	1	25	4	0	0	0	1	2	4	15	4	0
Dohad	0830	333	1009·3	972·3	...	28·1	17·1	7·4	10·3	28	−11	0·8	−0.5	11·5	0	3	26	2	4	3	2	6	1	9	2	1	0
	1730	,,	1004·2	968·6	...	38·3	19·4	2·6	7·4	12	...	0·9	...	16·1	0	8	20	1	3	0	0	0	2	15	6	2	1
Baroda	0530	34	1008·0	1004·0	...	22·7	17·0	12·6	14·7	54	...	0·7	...	1·9	0	0	13	1	2	1	0	1	2	2	4	17	0
	0830	,,	1010.1	1006·1	...	27·5	19·2	13·1	15·1	43	−4	1·0	+0.3	2·6	0	0	18	2	1	2	0	0	3	2	8	12	0
	1130	,,	1010·1	1006·3	...	36·1	20·9	9·3	11·7	21	...	0·8	...	5·2	0	0	27	3	10	2	3	0	3	1	5	3	0
	1730	,,	1005·6	1001·8	...	39·3	21·3	7·3	10·2	15	...	0·7	...	6·1	0	0	29	2	3	0	1	0	2	10	11	1	0
	2330	,,	1008·2	1004·3	...	27·9	18·9	12·1	14·1	39	...	0·3	...	2·8	0	0	18	2	1	0	0	0	3	5	7	12	0
Baroda (Aerodrome)	0830	38	1009·9	1005·6	...	27·9	18·4	10·7	12·9	37	...	1·2	...	6·2	0	0	29	5	3	1	0	2	3	4	11	1	0
	1130	,,	1009·9	1005·7	...	35.2	19·9	6·7	9.8	19	...	1·0	...	9·4	0	1	28	7	3	3	2	2	1	4	7	1	0
	1730	,,	1005·4	1001·3	...	38·6	19·9	3·2	7·7	12	...	1·0	...	8·9	0	0	29	1	1	0	0	0	1	13	13	1	0
Broach	0830	17	1009·5	1007·5	...	26·4	19·1	13·8	15·8	48	...	1·2	...	5·8	0	0	30	4	0	0	1	3	7	0	15	0	0
	1730	,,	1005·3	1003·4	...	39·3	21·7	8.1	10.8	17	...	0·5	...	10·6	0	0	30	3	0	0	1	0	6	3	17	0	0
Surat	0530	12	1008·0	1006·7	...	24·4	19·9	16·7	19·0	65	...	0·7	...	6·4	0	0	23	3	4	1	6	4	0	0	5	7	0
	0830	,,	1010·3	1008·9	+0·4	27·4	20·7	16·3	18·5	54	−8	1·3	+0·2	6·6	0	0	24	11	2	0	2	4	0	0	5	6	0
	1130	,,	1010·3	1009·0	...	34·1	22·0	14·1	16·1	32	...	0·4	...	9·1	[illegible]	0	29	11	6	0	0	3	1	0	8	1	0
	1730	,,	1006·0	1004·7	...	36·3	21·8	11·6	13·7	25	...	0·5	...	8·1	[illegible]	0	30	1	0	0	0	1	4	5	19	0	0
	2330	,,	1008·6	1007·3	...	27·0	21·9	18·6	21.4	61	...	0.2	...	6·2		0	25	2	0	0	1	8	1	3	10	5	0
Saurashtra and Kutch																											
Naliya	0830	21	..	..	...	24·1	21·1	19·4	22·5	77	...	1·5	...	6·2	0	2	19	4	0	1	0	0	4	7	5	9	0
	1730	,,	..	..	...	31·6	21·8	14·9	16·9	41	...	1·1	...	22.3	0	19	11	1	1	0	0	0	9	15	4	0	0
Bhuj (Aerodrome)	0230	80	1008·8	999.6	...	24.0	20.7	18·7	21·6	73	...	0·4	...	5.0	0	0	17	0	0	0	0	0	1	11	5	13	0
	0530	,,	08·8	999·5	...	21.4	19·2	17·7	20·2	80	...	0·6	...	5·1	0	0	17	2	0	0	0	0	3	7	5	13	0
	0830	,,	1010·4	1001·3	+1·2	26·3	21·4	18·6	21·4	63	+13	0·9	−0·1	6·2	0	0	21	6	0	0	0	1	1	6	7	9	0
	1130	,,	1010·7	1001.7	...	33·7	23·8	18·2	20·9	41	...	1.0	...	12·0	0	3	26	11	3	1	0	0	1	3	10	1	0
	1730	,,	1006.7	997.9	...	36·6	25·4	19·4	22·5	39	...	1·3	...	15·8	0	5	25	5	3	1	0	0	3	11	7	0	0
	2330	,,	1009·7	1000.6	...	26.0	21·9	19·5	22·7	69	...	0·6	...	7·9	0	0	20	0	0	0	0	0	1	17	2	10	0
Bhutakia Bhimasar	0830	47	1010·1	1004.7	...	26·6	21·7	18·5	21·3	62	...	1.1	...	16·6	0	9	21	7	1	1	0	1	5	4	11	0	0
	1730	,,	1006·7	1001·4	...	36·9	24·2	16·0	18.2	33	...	1·2	...	19·5	0	11	19	6	0	0	0	1	1	11	11	0	0
Kandla	0830	14	1011·0	1009·4	...	25·6	20·1	16·4	18·6	59	...	1·0	...	9·9	0	1	29	5	0	1	2	0	9	6	7	0	0
	1730	,,	1007·5	1005·9	...	33·1	22·5	15·3	17·4	39	...	1.4	...	24·1	0	20	10	2	1	0	0	4	19	3	1	0	0
Mandvi	0830	9	1010·9	1009·8	..	24·8	21·3	18·9	21·8	74	..	1·6	..	14.9	0	6	24	4	3	0	0	0	5	0	15	0	3
	1730	,,	100·3	1007·2	...	28·6	24·1	22·1	26·6	68	...	1·3	...	33·6	0	26	4	0	0	0	0	0	18	11	0	0	1
Dwarka	0830	11	1010.9	1009·6	+0·7	25·7	23·2	21·9	26·4	81	−2	1·4	−0·5	12.7	0	2	28	8	1	1	1	2	1	6	10	0	0
	1730	,,	1008·5	1007·2	...	28·2	24·5	22·8	27·8	73	...	0·7	...	17.7	0	2	28	3	0	0	0	0	0	10	17	0	0
Porbander	0830	7	1011·0	1010·2	...	25·0	...	...	...	...	...	0.1	...	11·6	0	0	30	1	0	0	0	0	0	3	26	0	0
	1730	,,	1008·1	1007·3	...	30·0	...	...	...	...	...	1·4	...	20·7	0	15	15	0	0	0	0	0	0	17	13	0	0
Porbander (Aerodrome)	0830	11	1010·6	1009·8	...	27·4	21·5	18·4	21·1	60	...	1·1	...	16·4	0	10	20	9	2	0	1	0	0	2	16	0	0
	1130	,,	1011·1	1010·3	..	32·5	22.0	16·0	18·2	42	...	0·4	..	19·1	0	10	20	7	1	1	1	0	2	9	9	0	0
	1730	,,	1007·7	1006·9	...	31·1	22·1	17·2	19·6	47	...	0·3	...	28·3	0	30	0	2	0	0	0	0	0	22	6	0	0
Jamnagar	0550	23	1008·8	1006·2	...	21·7	19·9	18·8	21·7	85	...	0·4	...	9·7	0	0	30	0	0	1	0	4	10	12	3	0	0
	0830	,,	1010.6	1008.0	+0.5	25:6	22.0	20.0	23·4	72	+6	1.1	−0.2	11.6	0	3	27	1	1	0	1	4	2	18	4	0	0
	1130	,,	1011.1	1008.6	..	32.1	22.0	15.5	17.6	39	..	0.9	...	17.9	0	11	19	4	5	0	0	0	0	16	5	0	0
	1730	,,	1007.6	1005·1	...	32·2	22·0	15·1	17·1	39	...	1·0	...	31·9	0	28	2	2	2	0	0	0	0	20	6	0	0
	2330	,,	1009.9	1007·3	...	25·1	22·5	21·1	25·0	79	...	0·5	...	18·5	0	12	18	0	0	0	0	0	1	26	3	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in p.m. of the mean sea level isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch— *contd.*																											
Rajkot (Aerodrome)	0830	138	1010·7	995·1	+0·9	25·5	20·6	17·1	19·5	63	0	0·7	−1·1	13·7	0	0	29	2	2	2	0	0	2	7	14	1	0
	1130	,,	1010·4	995·2	...	33·8	20·3	9·9	12·2	25	...	0·6	...	19·5	0	12	18	8	3	1	0	0	0	2	16	0	0
	1730	,,	1005·2	991·2	...	37·1	20·2	6·3	9·5	16	...	0·6	..	23·2	0	17	13	1	2	0	0	1	3	11	12	0	0
Surendranagar	0830	74	1010·1	1001·7	...	27·4	20·1	15·0	17·0	49	...	1·0	...	9·8	0	0	30	4	5	0	0	0	0	5	16	0	0
	1730	,,	1005·8	997·7	...	38·2	21·6	9·5	11·9	18	...	1·0	...	9·1	0	3	27	2	2	0	0	1	4	4	17	0	0
Bhavnagar	0830	17	1010·5	1008·6	+0·7	28·1	20·3	14·6	16·6	46	−4	0·7	−0·6	6·1	0	1	28	1	3	0	0	1	0	1	23	1	0
	1730	,,	1006·1	1004·3	...	38·1	25·0	17·6	20·1	31	...	1·1	..	8·0	0	0	28	1	5	9	5	4	0	1	3	2	0
Bhavnagar (Aerodrome)	0330	11	1010·2	1009·0	...	27·9	19·4	13·2	15·2	42	...	0.7	...	15·0	0	2	27	15	0	0	0	0	2	1	11	1	0
	1130	,,	1010·6	1009·4	...	34·0	21·8	13.7	15·7	31	...	0·8	...	17·2	0	8	22	9	11	9	1	0	0	0	0	0	0
	1730	,,	1006·0	1004·8	...	37·0	22.3	12·4	14·4	24	...	0·7	...	17·8	0	8	21	1	9	10	5	3	1	0	0	1	0
Mahuva	0830	9	1010·4	1009·4	...	28·2	20·9	16·2	18·4	50	...	0·9	...	...	...	...	...	13	4	2	1	0	5	0	8	1	0
	1730	,,	1006·5	1005·5	...	32·0	25·0	21·5	25·6	56	...	0·5	...	...	...	...	...	0	0	2	2	13	13	0	0	0	0
Keshod	0830	51	1010·9	1005·1	...	25·4	19.6	14·9	16·9	57	...	0·7	...	11·6	0	1	28	10	6	2	1	0	0	2	6	1	2
	1130	,,	1010·9	1005·2	...	33·9	19·7	7·4	10·3	23	...	0·6	...	20·8	0	16	14	10	4	1	1	0	0	2	12	0	0
	1730	,,	1006·9	1001·2	...	36·0	21.2	9·3	11·7	23	...	0·4	...	32.8	0	26	4	2	0	0	0	0	2	20	5	0	1
Veraval	0230	8	1008·5	1007·6	...	23·0	20·4	18·5	21·8	78	...	0·1	..	10 6	0	1	26	17	0	0	0	0	0	2	8	3	0
	0530	,,	1008·4	1007.5	...	21·7	18·9	16 8	19·6	77	...	0·6	...	13.2	0	3	26	22	0	0	0	0	0	0	7	1	0
	0830	,,	1010·3	1009·4	-0.2	25·4	20·9	17 8	20·4	66	−8	0·8	−0 9	14·7	0	7	21	20	2	0	0	0	0	0	6	2	0
	1130	,,	1010·7	1009·8	...	31·1	24·0	19·2	24 0	59	...	0·8	...	18·3	0	10	20	6	1	0	0	0	3	5	15	0	0
	1730	,,	1007·4	1006·5	...	28·1	25·3	24·1	30·0	79	...	0·6	..	23 2	0	19	11	1	0	0	0	0	1	8	20	0	0
	2330	,,	1009·5	1008·6	...	24·6	22·4	21·2	25·3	82	...	0·2	..	11·8	0	2	27	9	1	0	0	0	0	2	17	1	0
Konkan																											
Dahanu	0830	5	1009 0	1008.5	−0·4	28·0	23·5	21·7	25·9	67	−10	2·0	−0.8	5 7	0	0	26	3	5	8	7	1	0	1	1	4	0
	1730	,,	1006 9	1006 4	...	30·9	25·3	22 8	27·7	62	...	0 4	..	18·8	0	8	22	5	1	0	0	0	1	9	14	0	0
Bombay (Colaba)	0830	11	1010 1	1008.9	-0.3	28·5	24·8	23·1	28·4	73	−2	1·8	−0.5	4·5	0	0	26	5	3	3	5	3	3	2	2	4	0
	1130	,,	1010 2	1009·0	..	31·5	26·1	23·6	29·5	64	...	1·0	..	8·5	0	0	30	1	0	0	0	1	5	7	16	0	0
	1730	,,	1006 6	1005.4	...	30·6	25·8	23 6	29·4	67	...	0·5	...	12·6	0	5	25	1	0	0	0	0	2	7	20	0	0
Bombay (Santacruz Aerodrome).	0230	15	1008 0	1006 3	...	25·3	22·8	21·5	25·6	80	...	0·6	...	3·5	0	0	12	6	3	0	0	0	2	0	1	18	0
	0530	,,	1008·1	1006·5	...	24·3	22·0	20·8	24·2	82	...	1 0	...	2·7	0	0	13	5	2	2	2	0	2	0	0	17	0
	0830	,,	1010·1	1003·4	−0 4	28·5	23·8	21·2	25 2	66	−4	1·7	−0.6	3·8	0	0	18	2	4	2	3	3	0	1	3	12	0
	1130	,,	1010·2	1008.5	...	32·5	24·5	20·3	23·8	51		1 3	...	13·5	0	5	23	1	1	1	1	1	2	11	10	2	0
	1730	,,	1006 5	1004·9	...	31·1	24.4	20·5	24·1	55	.	0 6	...	14·1	0	6	24	2	0	0	0	0	1	5	22	0	0
	2330	,,	1009 0	1007 4	...	26·5	23·3	21·6	25·8	75	.	0·6	...	5·3	0	1	15	3	1	0	0	0	2	1	9	14	0
Alibag	0830	7	1010 4	1009 6	−0 2	28·0	24·0	22·0	26·4	71	+2	1·0	−1.3	3·5	0	0	25	4	3	3	11	0	0	0	4	5	0
Harnai	0830	20	1009 6	1007 3	+0.4	27·9	24·0	21·8	26·1	71	−4	3 0	..	6·6	0	2	20	5	1	4	4	4	0	0	4	8	0
	1730	,,	1006·5	1004·2	...	29·5	26·0	24·6	30 9	77		2 2	...	25 0	0	18	12	1	0	0	0	1	3	8	17	0	0
Ratnagiri	0830	35	1009·9	1005·9	−0.3	27·6	24·4	23·3	28·6	76	...	2 5	...	...	...	...	...	0	2	25	1	0	0	2	0	0	0
	1730	,,	1006 7	1002·8	...	30·6	26 0	23·8	29 5	67		2·6	..	...	...	...	...	0	0	0	0	0	1	29	0	0	0
Devgad	0830	36	1010 1	1006 1	+0.3	28·1	25·3	24·0	29 8	79	+4	3·3	-0.3	7·1	0	0	27	2	4	7	5	2	2	0	5	3	0
	1730	,,	1006 7	1002 7	...	30·8	26·8	25·1	31·9	72	...	2 5	...	21.9	0	18	12	1	0	0	0	0	3	9	17	0	0
Vengurla	0230	9	1008 1	1007 1	...	26.0	24·3	23·6	29·1	86	...	0·8	...	0.5	0	0	2	2	0	0	0	0	0	0	0	28	0
	0530	,,	1008 3	1007 3	...	25·4	24·0	23·4	28·8	89	.	1 5	..	2·0	0	0	14	8	1	1	2	1	1	0	0	16	0
	0830	,,	1010·6	1009·6	...	28·4	25·1	23·6	29·1	75	...	2·5	..	4·2	0	0	22	3	0	12	2	3	0	1	1	8	0
	1130	,,	1010·5	1009·5	...	31·9	26 2	24.0	29·8	62	...	1·7	...	8·0	0	0	30	0	0	0	0	4	16	9	1	0	0
	1730	,,	1006 8	1005 8	...	30·8	26·2	24 2	30 2	68	..	2·8	...	8·4	0	0	30	1	0	0	0	0	11	13	5	0	0
	2330	,,	1009 5	1008·5	...	27·6	25·0	23·9	29·7	81	...	1·4	...	2·4	0	0	16	5	2	0	1	0	1	0	7	14	0
Maharashtra (Including Marathwada)																											
Nandurbar	0830	206	1009·9	986·9	...	29·9	20 0	12·5	14·5	38	...	0·2	...	7·8	0	0	30	1	1	5	0	2	5	16	0	0	0
	1730	,,	1004·4	982·2	...	39.2	22·2	9·8	12·1	18	...	0·1	...	7·5	0	0	30	4	0	0	1	1	2	14	8	0	0
Jalgaon	0830	201	1009·1	986·6	...	29·2	16·7	4·5	8·4	22	...	1·1	...	14·7	0	7	21	1	0	3	2	1	5	12	4	2	0
	1730	,,	1003·2	981·7	...	40·4	19·7	0·5	5·7	8	...	2·0	...	18·3	0	13	17	0	0	1	2	1	2	18	6	0	0
Malegaon	0830	437	1009·3	961·1	+0.1	28·2	16·8	6·0	9·7	26	−12	1.4	+0.3	3·8	0	0	21	4	1	1	0	1	2	5	7	9	0
	1730	,,	1003·3	956·6	...	38·1	20·1	4·5	8·4	13	...	2·3	...	6·6	0	0	25	11	3	0	0	1	0	2	8	5	0
Deolali	0830	571	1010·4	947 7	..	27.2	18·8	13·4	15·4	43	...	1·5	...	5·1	0	0	23	0	0	1	0	4	10	3	2	7	0
	1730	,,	1004 4	943·8	...	36·2	20·4	9 5	11·9	21	...	1·7	...	13·7	0	4	25	3	1	2	0	0	3	6	14	1	0
Aurangabad	0830	581	1009·1	945·9	0	29·5	16.7	6.1	9·4	22	−9	1·8	+0.4	3·8	0	0	18	8	4	2	1	0	2	4	2	12	0
	1730	,,	1003·2	941·8	...	37·2	19·2	5.9	9·3	14	...	3·4	...	4·6	0	0	28	4	1	3	3	3	2	6	6	2	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 & more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Maharashtra (Including Marathwada)—*contd.*																											
Aurangabad (Chikalthana Aerodrome).	0230	579	1006·7	943·1	...	25·9	15·1	5·7	9·1	28	...	0·9	...	7·7	0	0	21	5	0	1	1	0	1	3	10	9	0
	0530	"	1007·7	943·5	...	23·7	14·3	6·0	9·3	33	...	1·5	...	8·0	0	1	19	4	0	1	0	0	3	4	8	10	0
	0830	"	1008·6	945·7	...	29·7	17·4	8·0	10·7	27	...	1·4	...	6·2	0	0	18	3	0	1	0	0	0	7	7	12	0
	1130	"	1007·3	945·5	...	35·3	19·4	7·8	10·6	19	...	1·1	...	12·1	0	3	27	9	3	1	3	0	6	4	4	0	0
	1730	"	1002·7	941·5	...	36·8	19·9	7·9	10·7	18	...	3·1	...	10·2	0	1	27	2	2	0	2	1	4	6	11	2	0
	2330	"	1007·0	944·1	...	28·2	16·3	6·6	9·7	26	...	1·2	...	9·5	0	1	22	5	0	1	0	0	1	4	12	7	0
Ahmednagar	0830	657	1009·2	937·8	+0·2	28·1	16·2	6·4	9.6	26	−5	1·3	+0·1	1·9	0	0	13	1	1	0	1	1	0	1	8	17	0
	1730	"	1002·1	933·5	...	37·4	19·1	4·6	8·5	14	...	3·8	...	2·9	0	0	21	0	3	1	4	0	2	1	10	9	0
Bhir*	0830	513																									
	1730	"																									
Parbhani	0830	423	1009·3	963·0	...	30·3	17·2	4·6	8·5	21	...	1·7	...	11·1	0	26	1	2	1	0	5	3	4	6	6	3	0
	1730	"	1002·9	958·0	...	38·8	19·0	−2·1	5·1	9	...	3·3	...	10·0	0	0	30	5	4	5	7	2	1	4	2	0	0
Nanded	0830	358	1009·3	969·7	...	29·3	19·4	12·9	14·9	36	...	0·5	...	2·9	0	0	19	2	1	4	3	3	3	2	1	11	0
	1730	"	1003·9	965·7	...	38·5	21·2	8·1	10.8	17	...	0.6	...	4·0	0	0	20	4	2	7	2	3	2	0	0	10	0
Poona	0530	559	1008·3	946·0	...	22·1	17·3	14·1	16·4	61	...	1·3	...	0·9	0	0	3	0	0	0	0	1	1	1	0	27	0
	0830	"	1009·5	948·0	−0·2	26·0	19·0	14·3	16·9	47	−3	1·0	−0·4	0·8	0	0	8	1		0	2	2	1	0	2	22	0
	1130	"	1007·4	947·7	...	35·0	20·1	10·0	12·6	23	...	1·1	...	4·5	0	0	20	4	2	3	5	0	0	0	6	10	0
	1730	"	1003·0	943·7	...	36·0	21·7	13·0	15·4	28	...	2·8	...	7·4	0	0	21	4	3	0	0	0	2	8	4	9	0
	2330	"	1008·3	946·9	...	27·0	19·9	15·8	18·0	51	...	1·1	...	2·4	0	0	9	0	0	0	1	0	6	2	0	21	0
Poona (Lohagaon Aerodrome)	0230	593	1007·9	942·3	...	23·7	16·2	10·6	12·8	45	...	0·4	...	4·9	0	2	16	0	0	0	0	0	0	11	7	12	0
	0530	"	1008·5	942·5	...	22·4	16·1	11·3	13·4	51	...	1·1	...	3·9	0	0	17	0	0	1	1	1	0	7	7	13	0
	0830	"	1009·7	944·6	...	26·5	17·4	11·3	13·4	40	...	1·3	...	6·4	0	1	20	0	0	1	1	0	0	12	7	9	0
	1130	"	1007·7	944·3	...	34·7	18·6	6·2	9·5	18	...	1·4	...	11·0	0	3	26	4	4	8	0	2	1	4	6	1	0
	1730	"	1003·0	940·1	...	35·8	19·9	8·1	10·8	21	...	2·9	...	20·5	0	16	12	3	0	1	3	1	0	8	12	2	0
	2330	"	1008·5	943·4	...	26·3	18·3	12·9	14·9	45	...	0·9	...	7·7	0	0	25	0	0	1	0	0	0	13	11	5	0
Baramati	0830	551	1009.3	948·9	...	27·4	18·3	11 9	13·9	40	...	1·2	...	7·4	0	0	30	4	4	0	1	2	1	5	13	0	0
	1730	"	1002·1	944·1	...	37·6	20·6	8·6	11·2	19	...	2·7	...	11·1	0	1	29	5	2	5	5	1	0	6	6	0	0
Jeur	0830	521	1008·8	951·9	...	29·3	18·1	10 1	12·3	32	...	1·2	...	8·0	0	0	26	2	2	1	1	5	2	1	12	4	0
	1730	"	1001·9	946·9	...	37·8	20·1	7·7	10·5	16	...	3·3	...	6·9	0	1	26	5	4	5	5	1	2	0	5	3	0
Sholapur	0530	479	1007.7	954.7	...	25.6	18·0	12·8	14.8	47	...	2·0	...	2·2	0	0	14	3	3	0	4	2	0	0	2	16	0
	0830	"	1009.1	956.7	+0·3	30·0	19.9	13·6	15.6	39	+1	1·8	+0 2	9·3	0	0	29	1	10	0	6	0	8	0	4	1	0
	1130	"	1007·5	956.2	...	36·0	22 1	14·1	16 1	28	...	1·5	...	7·0	0	0	25	6	2	3	2	5	5	1	1	5	0
	1730	"	1002·4	951·8	...	38·1	22·2	12 5	14·5	23	...	3·1	...	10·1	0	1	27	6	6	1	10	0	2	0	3	2	0
	2330	"	1007·1	955·0	...	30·7	19·8	12 6	14·6	35	...	2·3	...	5·9	0	0	24	1	2	3	10	2	4	0	2	6	0
Miraj	0830	554	1009·3	948 4	−0 4	25·8	21·2	18 4	21·1	65	+3	2·1	+0·3	...	...	...	...	2	0	0	0	0	0	2	0	26	0
	1730	"	1002·3	943 7	...	36·7	24·2	18·2	20 9	35	...	3·9	...	...	...	...	...	1	2	9	3	0	1	6	4	4	0
Kolhapur	0530	570	1008·3	944·9	...	22.0	19·0	17·2	19·6	76	...	1·8	...	4·1	0	0	24	0	0	4	1	2	5	11	1	6	0
	0830	"	1009.6	946·9	−0·1	26·1	20·3	16·8	19·1	60	−6	1.7	−0·1	7·3	0	1	25	0	2	4	0	0	3	13	4	4	0
	1130	"	1007·5	946·6	...	34 1	20 2	11·5	13·6	26	...	1 9	..	12.8	0	4	26	3	5	5	4	0	2	9	2	0	0
	1730	"	1003·1	942 6	...	34 6	21 9	13·9	15 9	34	...	3·1	...	21·5	0	20	10	0	2	3	2	0	0	20	3	0	0
	2330	"	1008·6	945·9	...	25·4	21 0	18 6	21 4	67	...	1 4	...	9·0	0	0	29	0	1	0	0	0	2	23	3	1	0
Vidarbha																											
Buldhana	0830	650	1008·2	937·6	...	28·9	16.4	5·9	9·5	24	..	2·1	...	3·4	0	0	26	0	15	0	3	0	2	0	6	4	0
	1730	"	1002·7	933.9	...	36·1	18·6	3·6	8·6	15	...	3·8	...	2·2	0	0	18	0	9	0	1	0	0	0	8	12	0
Akola	0830	282	1008·7	977·5	+	29·9	18 2	8·4	11·5	27	−1	2·1	+0·6	2·2	0	0	17	1	0	1	2	1	0	10	2	13	0
	1130	"	1007·6	977·1	...	36·9	20·7	7·3	11·3	18	...	1·6	...	6·1	0	0	27	3	2	1	3	1	4	6	7	3	0
	1730	"	1002·5	972·5	...	39·8	21·8	8·1	11·4	15	...	3·8	...	2·5	0	0	19	1	3	1	1	0	0	11	2	11	0
Akola (Aerodrome)	0530	309	1006·5	971·8	...	24·9	14·5	3·5	8·1	26	...	1·4	...	3·0	0	0	19	0	1	2	1	0	5	9	1	11	0
	2330	"	1006·2	972·1	...	30·6	17·0	3·8	8·4	19	...	1·4	...	4·4	0	0	24	0	2	1	4	2	4	6	5	6	0
Amravati	0830	370	1008·8	968·1	+0·7	30·6	21·2	14·5	17·5	40	+12	1·8	+0·3	14·0	0	6	23	1	7	1	4	3	10	1	2	1	0
	1730	"	1002·7	963·2	...	38·3	24·2	15·0	18·5	28	...	4·0	...	11·5	0	0	30	0	1	0	8	1	10	0	10	0	0
Yeotmal	0830	451	1007·6	957·9	...	30·2	17·3	4·5	9.4	22	...	1·8	...	7·1	0	1	27	5	2	3	3	7	0	3	3	2	0
	1730	"	1002·4	954·4	...	38·0	20·5	4·2	9·9	11	...	3·5	...	6·5	0	1	25	2	1	6	4	3	0	6	4	4	0
Nagpur	0230	310	1006·0	971·4	...	25·9	17·8	11·0	13·3	40	...	1·9	...	3·2	0	0	19	4	2	2	0	0	3	2	6	11	0
	0530	"	1007·1	972·2	...	24·3	17·0	11·2	13·6	47	...	2·5	...	2·8	0	0	18	3	2	1	0	1	1	1	9	12	0
	0830	"	1009·0	974·6	+0·6	29.6	19·4	11·8	14.5	35	+2	2.1	+0·3	5·7	0	0	26	4	4	7	4	2	2	1	2	4	0

*Observatory started on 24-4-60.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in m.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidharbha—*Contd.*																											
Nagpur—contd.	1130	310	1007·8	974·2	...	36·1	21·4	10 7	19 1	24	...	2·1	...	8·4	0	2	23	3	4	2	4	2	7	1	2	5	0
	1730	,,	1003·0	969·8	...	37·7	21·7	10·3	12·7	20	...	3·6	...	7·1	0	1	25	2	2	1	4	5	4	4	4	4	0
	2330	,,	1007·0	972·6	...	28·0	18·6	10·6	14·1	33	...	2·2	...	4·3	0	1	22	2	5	2	1	0	2	4	7	7	0
Gondia	0830	313	1009·4	974·7	...	29·0	19·3	12 1	14·5	37	...	2·1	...	3·3	0	0	20	1	4	1	4	2	4	0	3	10	1
	1730	,,	1003·6	970·0	...	37·1	20·7	8·6	11·5	19	...	2·8	...	3·7	0	0	24	1	0	0	0	0	12	0	11	6	0
Brahmapuri	0830	229	1010·0	984·6	...	29·4	20·1	14 2	15·8	40	...	1·8	...	4·8	0	0	20	1	1	0	3	8	6	0	1	10	0
	1730	,,	1003·7	979·3	...	36·7	21·4	9 7	11·7	18	...	3·0	...	2·5	0	0	19	3	2	0	1	6	3	1	3	11	0
Chanda	0830	193	1008·9	987·5	+0·4	30·3	20·7	14·3	16.6	39	+2	1 9	+0·2	5 3	0	0	25	2	1	8	7	3	2	1	1	5	0
	1730	,,	1003 4	982·5	...	38·3	21·7	9 8	12·6	20	...	3·3	...	5·0	0	0	22	3	3	5	3	4	1	2	1	8	0
Sironcha	0830	123	1010·1	996 2	...	30·1	22·2	17·5	21·3	48	...	2·1	...	6·7	0	0	27	1	1	1	14	9	0	0	1	3	0
	1730	,,	1003·7	990·4	...	38·3	22·7	11·8	14·3	21	...	3·1	...	5.1	0	0	30	7	2	1	4	5	4	3	4	0	0
Coastal Andhra Pradesh Nellore	0530	20	1007·7	1005·5	...	25·5	24·4	23·9	29·7	91	...	2·7	...	1·4	0	0	13	0	0	1	11	1	0	0	0	17	0
	0830	,,	1009·9	1007·7	+0·5	29·9	25·7	24·0	29·8	70	−1	3·7	+0·7	4·3	0	0	30	0	0	4	18	7	1	0	0	0	0
	1130	,,	1009·1	1006·9	...	35·3	25·8	21 4	25 5	45	..	3·2	...	5·0	0	0	30	0	0	10	13	6	0	1	0	0	0
	1730	,,	1005·8	1003·6	...	31 6	26·3	23·9	29·7	64	...	3·8	...	8·6	0	0	30	0	0	12	16	1	1	0	0	0	0
	2330	,,	1008 8	1006·6	...	27·2	25·5	24·8	31·3	87	...	1·2	...	2.4	0	0	17	0	0	2	12	3	0	0	0	13	0
Ongole	0830	12	1009·6	1008 3	...	29·5	26·5	25·3	32·2	79	...	4.6	...	3·5	0	0	30	0	2	1	21	0	5	0	1	0	0
	1730	,,	1005·8	1004·7	...	31·0	27 8	26·6	34·8	78	...	3 6	...	6·7	0	0	30	0	0	0	29	0	0	0	1	0	0
Rentachintala	0830	106	1009·7	997·9	...	30 5	24·3	21·4	25·5	59	+2	2·8	−1·6	3.7	0	0	23	1	1	1	5	14	1	0	0		0
	1730	,,	1004 0	992·6	...	38·5	23·6	15·2	17·3	25	...	3·4	...	5·3	0	0	27	3	0	9	7	7	0	0	1	3	0
Gannavaram	0230	24	1007·8	1005.1	...	26·2	24·5	23 7	29 3	86	...	2·7	...	3.7	0	0	13	0	0	1	3	6	2	0	1	17	0
	0530	,,	1008·5	1005·8	...	25·6	24·3	23·7	29·3	89	...	3·2	...	2·4	0	0	15	0	0	0	7	5	2	0	1	15	0
	0830	,,	1010·6	1007·8	...	29·5	25·9	24·4	30·6	74	...	4·0	...	8·6	0	1	27	0	0	1	12	9	5	1	0	2	0
	1130	,,	1009·6	1007·0	...	34·5	26·2	22 3	26·9	50	...	2·4	...	11·2	0	1	29	0	0	0	11	12	7	0	0	0	0
	1730	,,	1005.8	1003·2	...	35·1	25·6	20 8	24·6	45	...	2·2	...	16·9	0	7	22	0	0	2	11	15	1	0	0	1	0
	2330	,,	1009·2	1006 5	...	27·6	24·9	23·7	29·3	80	...	1·8	..	5·3	0	0	24	0	1	0	5	15	2	0	1	6	0
Masulipatam	0830	3	1010·4	1010·1	+0·2	29·5	25·9	24·5	30·7	75	−1	3·4	0	4·9	0	0	30	0	0	1	3	21	5	0	0	0	0
	1730	,,	1006·3	1006·0	...	30·0	26·2	24·6	30·9	73	...	1·6	...	9.7	0	0	30	0	0	0	2	28	0	0	0	0	0
Nidadavolu	0830	12	1010 6	1009·2	...	28·4	25·5	24·3	30·4	79	...	5·2	...	7·2	0	0	26	2	6	4	2	1	3	5	3	4	0
	1730	,,	1006·1	1004·7	...	32·9	25 6	22 2	26·7	54	...	3·6	..	10·3	0	0	30	0	0	1	4	21	3	1	0	0	0
Kakinada	0830	8	1010·7	1009·8	+0·6	31·2	25·7	23·3	28·6	63	−10	2·6	−1.5	10·0	0	0	30	0	0	4	3	0	23	0	0	0	0
	1730	,,	1006 2	1005·3	...	32·9	26 4	23·5	23·9	59	...	1·4	...	11·1	0	0	30	0	0	1	26	0	3	0	0	0	0
Visakhapatnam	0230	3	1007 7	1007·3	...	26·8	25·8	25·4	32 4	92	..	1·4	...	3·6	0	0	21	0	0	0	0	0	13	5	3	9	0
	0530	,,	1008·3	1007·9	...	25·9	25·1	24·8	31·3	94	...	2·5	...	2·9	0	0	13	0	0	1	0	0	7	4	1	17	0
	0830	,,	1010·1	1009·7	+0·3	30·2	26·5	24·9	31·5	74	+2	1·6	−1·9	11·1	0	6	23	0	0	0	1	5	20	2	1	1	0
	1130	,,	1009·4	1009 0	...	34·9	27·9	25 0	31·7	57	...	1·0	...	20·0	0	18	12	0	0	0	1	12	15	0	2	0	0
	1730	,,	1006·4	1006·0	...	30·7	27·5	26·2	34·0	77	...	3·3	...	17·9	0	14	16	0	0	0	1	10	19	0	0	0	0
	2330	,,	1003·8	1008·4	...	27·7	26·5	26·0	33·6	90	...	2·0	...	6.0	0	0	23	0	0	1	0	4	17	1	0	7	0
Calingapatam	0830	6	1010·2	1009·5	+0·7	29·2	26·8	25·6	32·8	80	+8	1·3	−1·3	7·8	0	4	26	0	0	0	0	4	15	9	1	0	1
	1730	...	...		...	29·7	27·9	27·2	36·1	86	...	0·9	..	16·1	0	7	22	0	0	2	3	8	15	1	0	1	0
Telangana Ramagundam	0830	156	1009·2	991·8	...	29·9	21·8	16·7	19·0	47	...	2·0	...	4·6	0	0	27	1	1	2	12	9	1	0	1	3	0
	1730	,,	1004·0	987·0	...	38·9	22·1	11·6	13·7	18	...	3·4	...	5·3	0	0	28	3	4	2	11	3	2	2	1	2	0
Nizamabad*	0830	381	1009·0	967.4	+0.7	32·1	20·7	13·2	15·2	31	−11	1·2	−0·7	0·7	0	0	7	0	0	0	1	0	4	2	0	23	0
	1730	,,	1003·4	962·7	...	37·2	22·1	12·3	14·3	22	...	2·8	...	0·2	0	0	2	0	0	1	1	0	0	0	0	28	0
Mahabubnagar	0830	505	1009·0	953·8	...	29·5	20·1	14·0	16·0	42	...	2·4	...	8·4	0	1	29	2	3	4	5	2	9	3	2	0	0
	1730	,,	1003·2	949·5	...	35·9	19·9	8·5	11·1	20	...	3·7	...	5·7	0	0	27	2	1	14	4	3	1	0	2	3	0
Hyderabad (Begumpet Aerodrome).	0230	545	1006·9	947·1	...	25·9	18 4	13·4	15·4	47	...	1·8	...	6·2	0	0	22	3	0	2	9	4	2	1	1	8	0
	0530	,,	1007·8	947·5	...	23·9	18·0	14·1	16·1	57	...	2.9	...	3·8	0	0	19	0	2	0	8	3	2	1	3	11	0
	0830	,,	1009·3	949·8	+1·0	28·2	19·4	13·6	15·6	43	−12	3·1	+1·0	8·8	0	0	30	0	2	2	11	5	5	1	4	0	0
	1130	,,	1007·7	949·4	...	34·3	20·1	10·3	12·5	25	...	2·6	...	12.6	0	0	30	0	2	1	9	7	6	1	3	0	1
	1730	,,	1003.4	945·5	...	35·1	19·6	8·5	11·1	21	...	4·1	...	12·8	0	4	22	2	2	3	10	5	1	1	2	4	0
	2330	,,	1007·9	948·4	...	28·1	19·4	13·9	15·9	43	...	2·6	...	10·6	0	2	25	2	2	0	19	3	0	1	0	3	0
Hakimpet	0530	613	1007·8	940·3	...	24·5	18·7	14.6	16·6	57	...	3·1	...	6·6	0	0	28	1	1	5	8	7	2	1	3	2	0
	0830	,,	1008·7	942.3	...	27·9	20·0	15·0	17·0	49	...	2·5	...	10·4	0	1	29	1	3	2	8	6	3	2	3	0	0
	1130	,,	1007·5	942·2	...	33·3	20·9	12·9	14·9	32	...	2·0	...	11·9	0	2	27	0	2	3	7	7	4	3	2	1	1
	1730	,,	1004·0	938·8	...	34·3	20·6	11·7	13·7	27	...	3·	...	10·6	0	2	26	3	1	4	12	3	1	2	2	2	0
Hanamkonda	0830	269	1009·5	978·6	−0·8	28·2	23·4	20·7	24·4	65	+7	1 2	−1·4	5·7	0	0	28	1	0	1	8	13	2	2	1	2	0
	1730	,,	1004·4	975·5	...	37·0	23·7	15 6	17·7	30	...	1·8	...	5·1	0	1	28	4	1	3	8	8	0	2	3	1	0

*Data collected from weather telegram.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Vacant
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—*Contd.*																											
Bhadrachalam	0830	111	1010·4	997·9	...	29·1	25·1	23·2	28·4	71	...	2·5	...	4·8	0	0	22	0	5	1	9	3	1	2	1	8	0
	1730	,,	1004·3	992·2	...	37·8	24·7	17·1	19·5	31	...	2·2	...	3.6	0	0	30	4	4	3	9	6	1	2	1	0	0
Khammametb	0830	112	1009·9	997·3	...	28·9	25.4	23·9	29.7	75	...	3·7	...	6·8	0	0	29	0	0	4	13	12	0	0	0	1	0
	1730	,,	1004·0	991·9	...	38·2	25·9	19.9	23.2	35	...	3.4	...	4·7	0	0	25	2	0	3	9	9	0	2	0	5	0
Rayalaseema																											
Arogyavaram	0830	701	1009·6	933·3	...	26·4	21·6	19·2	22.2	66	...	2·9	...	2.4	0	0	19	1	0	1	9	5	1	0	2	11	0
	1730	,,	1003·3	929.0	...	33·2	21·7	14·8	16·8	36	...	4·4	...	6·6	0	0	29	0	8	11	7	2	1	0	0	1	0
Cuddapah	0830	130	1009·8	995·3	+0·6	31·5	27·3	25·5	32·6	71	+16	2·2	0	0·6	0	0	3	0	0	3	0	0	0	0	0	27	0
	1730	,,	1003·8	989·7	...	38.2	29·0	25·4	32·4	49	...	2·8	...	9·1	0	0	27	0	2	25	0	0	0	0	0	3	0
Anantapur	0530	350	1007·5	968.5	...	25.9	19.1	14·1	16·1	49	...	3·2	...	4·2	0	0	17	1	0	3	2	3	6	2	0	13	0
	0830	,,	1009·1	970·6	...	29·3	21·2	15·9	18·9	45	...	3·4	...	7·9	0	0	25	1	0	2	3	5	7	6	1	5	0
	1130	,,	1008·3	970·3	...	34·9	21·9	13·4	15·4	28	...	2·2	...	10·0	0	2	28	5	1	5	9	4	2	4	0	0	0
	1730	,,	1003·1	965·7	...	37·8	20·9	7·6	10·4	17	...	4·1	...	11·7	0	2	25	6	4	14	1	0	0	1	1	3	0
	2330	,,	1007·2	968·9	...	31·4	20·1	12·1	14·1	32	...	2·4	...	12·9	0	3	24	2	2	14	4	3	1	1	0	3	0
Kurnool	0830	281	1009·2	978·2	+0·6	30·5	23·1	18·9	21 8	51	0	2·4	+0·5	4·1	0	0	26	0	0	3	2	15	1	4	1	4	0
	1730	,,	1002·9	972·9	...	38 3	23·0	13·4	15·4	23	...	3·2	...	6·8	0	0	27	0	0	13	10	4	0	0	0	3	0
Madras State																											
Palayamcottai	0830	51	1010·1	1004·4	...	28·3	25·2	23·8	29·5	77	...	5·4	...	3 9	0	0	29	14	0	0	1	3	0	8	3	1	0
	1730	,,	1006 5	1000·8	...	30·5	25·5	23·1	28·3	66	...	5·5	...	8·3	0	0	30	3	2	8	9	6	0	1	1	0	0
Tuticorin	0830	4	1010·3	1009·9	...	29·1	25·8	24·4	30·5	76	...	4·7	...	7·6	0	1	26	5	4	2	4	0	4	3	5	3	0
	1730	,,	1006·9	1006·5	...	30·1	26·2	24·5	30·5	72	...	4·6	...	13·7	0	3	27	1	1	7	12	6	2	0	1	0	0
Pamban	0830	,,	1009·8	1008·5	0	29·2	25·9	24 4	30·5	76	0	4·4	+1·6	7 2	0	0	28	0	2	7	4	9	5	0	1	2	0
	1730	,,	1006·9	1005·6	...	30·2	26·0	24·2	30·2	70	...	4 0	...	5·2	0	0	21	1	5	2	0	7	6	0	0	9	0
Tondi	0830	5	1010·3	1009·7	...	29·0	25·7	24·3	30·4	76	...	4.6	...	6 9	0	2	12	1	0	3	2	5	2	1	0	16	0
	1730	,,	1006·7	1006·1	...	30 0	26·3	24 8	31·3	74	...	5·4	...	19·8	0	14	14	0	2	6	10	10	0	0	0	2	0
Mathurai	0830	133	1010.1	995·1	0	28·5	25·2	23 7	29·3	75	+7	6·7	+2·6	2·5	0	0	23	1	11	1	1	0	1	0	8	7	0
	1730	,,	1005·6	990·9	...	32·3	24·9	21 3	25·3	54	...	6·9	...	6·3	0	0	27	0	7	0	15	0	5	0	0	3	0
Mathurai (Aerodrome)	0530	131	1008·2	993·3	...	25·1	24·1	23·7	29·3	93	...	4·0	...	1·3	0	0	13	4	4	1	0	2	1	1	0	17	0
	0830	,,	1010·1	995·4	...	28·5	25·1	23 5	28·9	74	...	4·2	...	4·3	0	0	26	6	9	4	1	0	2	1	3	4	0
	1130	,,	1009·7	994·8	...	32·3	25·3	22·1	26·6	57	...	4·2	...	5 8	0	0	28	2	11	7	4	0	2	1	1	2	0
	1730	,,	1005·8	991·3	...	32·0	24·5	20·7	24·4	54	...	5·1	..	11·3	0	5	21	0	2	9	6	7	1	1	0	4	0
Adirampattinam	0830	,,	...	...	...	29·8	26·2	24·6	30·9	74	...	4·0	...	6 9	0	0	24	1	6	0	5	2	7	2	1	6	0
	1730	,,	...	...	...	30·8	26·3	24·3	30·4	69	...	4·5	...	16·4	0	8	20	0	0	1	13	12	2	0	0	2	0
Nagapattinam	0330	9	1010·5	1009·4	+0·4	29·9	26·3	24·7	31·1	74	+1	4·6	+0·8	10·1	0	2	27	1	1	6	8	2	7	2	2	1	0
	1730	,,	1006·7	1005·6	...	30·4	26·6	25·0	31·7	73	...	4·1	...	18 6	●	12	18	0	2	5	19	1	3	0	0	0	0
Tiruchirapalli	0230	88	1007 8	997·9	...	26·8	24·6	23 5	28·9	83	...	3·4	...	5 3	0	●	19	0	1	2	5	5	2	3	1	11	0
	0530	,,	1008·2	998·2	...	26·0	24 3	23·6	29·1	87	...	3.8	...	4·0	0	0	14	0	3	2	2	1	2	1	3	16	0
	0830	,,	1010·1	1000·3	−0·1	28·8	25·0	23·3	28·6	73	0	3·8	+0·8	7·4	0	1	23	0	6	2	1	4	2	8	1	6	0
	1130	,,	1009·4	999·7	...	32·5	25·4	22·0	26·4	55	...	4·3	..	9·0	0	0	30	1	6	6	3	4	3	2	4	0	1
	1730	,,	1005·4	995·7	...	33·5	25·3	21·4	25·5	52	...	5·3	...	14·7	0	3	27	0	2	7	16	2	1	1	1	0	0
	2330	,,	1009·5	999.6	...	28·0	24·9	23·5	28·9	77	...	3·3	...	13·3	0	3	24	0	0	7	8	8	2	0	2	3	0
Coimbatore	0830	409	1010·3	964·9	+0·4	26 5	23·5	22.0	26·4	76	−1	5·5	+2·4	14·6	0	0	30	0	4	9	4	5	8	0	0	0	0
	1730	,,	1005·0	960·6	...	31·6	23·7	19·3	22·4	51	...	5·5	...	15·7	0	4	26	0	2	8	5	7	8	0	0	0	0
Coimbatore (Peelamedu Aerodrome).	0530	400	1008·7	964·0	...	23·7	22·4	21·7	25·9	88	...	4·7	...	6·0	0	0	26	2	7	2	0	4	7	1	3	4	0
	0830	,,	1010·2	966·0	...	26 9	23·5	21·8	26·1	74	...	4·4	...	9·1	0	0	27	2	11	2	0	4	5	1	2	3	0
	1130	,,	1009·1	965·6	...	31·5	24·0	20·1	23·5	51	...	4·7	...	10·7	0	0	30	0	9	8	4	2	3	1	1	0	2
	1730	,,	1005·1	961·7	...	31·6	23·1	18·2	20·9	49	...	5·2	...	20·9	0	14	16	0	5	9	1	3	11	1	0	0	0
	2330	,,	1009·6	965·2	...	25·7	23·2	22·0	26·4	81	...	5·2	...	18·0	0	13	14	1	0	2	2	9	11	1	1	3	0
Salem	0530	278	1008·3	977·2	...	25·4	22.9	21·6	25·8	80	...	4·1	...	0·9	0	0	7	0	1	5	0	0	1	0	0	23	0
	0830	,,	1009·8	979·0	+0·1	27·0	23·8	21·6	25.8	67	−4	4·1	+1·4	2·4	0	0	18	0	5	8	1	3	0	1	0	12	0
	1130	,,	1008.7	978·3	...	33.1	24.4	22·0	26·4	47	...	5·1	...	3·4	0	0	24	0	3	7	2	4	5	3	0	6	0
	1730	,,	1004·2	974·0	...	34.1	23·3	16·8	19·1	40	...	5·6	...	5·7	0	0	28	0	0	19	4	4	1	0	0	2	0
	2330	,,	1009·1	978·1	..	28.3	23.5	21·4	25·5	67	...	3.6	...	7·8	0	3	19	0	2	17	2	1	0	0	0	8	0
Kallakurichi	0830	127	1010·0	995·8	...	29.0	26.6	25.5	82·6	82	...	2·9	...	2·0	0	0	14	1	0	2	4	7	0	0	0	16	0
	1730	,,	1004·9	991.0	...	34·8	27·9	24.4	30.5	59	...	3.9	...	11.2	0	0	29	0	1	12	11	3	0	0	2	1	0
Cuddalore	0530	12	1007·9	1006.5	...	26·0	24·9	24·4	30.5	91	...	5·9	...	0.0	0	0	0	0	0	0	0	0	0	0	0	30	0
	0830	,,	1010·0	1008·7	−0·1	29·4	26.0	24.5	30.7	75	0	5.4	+2·0	4·2	0	0	21	0	1	1	5	11	2	0	1	9	0
	1130	,,	1009.9	1008·6	...	31·9	26·7	24·4	30·5	65	...	4.5	...	4·8	0	0	29	0	1	9	16	3	0	0	0	1	0
	1730	,,	1006·3	1005·0	...	30.2	26·7	25.3	32·2	75	...	5·2	...	9·2	0	0	30	0	0	9	19	2	0	0	0	0	0
	2330	,,	1009·5	1008·2	...	28·4	26·0	25·0	31·7	82	...	4·6	...	2·8	0	0	18	0	0	6	9	3	0	0	0	12	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Tirupatur	0830	390	1009·8	966·5	.	26.8	22·7	20.6	24.3	70	..	3·7	..	1.2	0	0	12	6	1	0	1	8	1	0	0	18	0
	1730	,,	1004·3	962·2	..	33.7	22.3	15·3	17·4	37	..	5.3	..	4.8	0	0	28	11	5	3	3	5	0	1	0	2	0
Vellore	0530	214	1 08·5	984·3	..	25.2	23.2	22.2	26.7	83	..	2·8	..	1.2	0	0	11	0	0	1	4	6	0	0	0	19	0
	0830	,,	1009·9	986·0	+0.3	28·6	23·9	21.6	25·8	67	−3	3·3	+1·1	1·0	0	0	8	0	1	0	1	8	3	0	0	22	0
	1130	,,	1008·8	985·3	..	34.3	24·0	18·3	21.0	40	..	3.5	..	6.2	0	0	28	4	4	3	10	5	1	1	0	2	0
	1730	,,	1004·5	981.2	..	34.7	22·8	15·6	17.7	34	..	3.7	..	6.4	0	0	30	0	1	3	21	5	0	0	0	0	0
	2330	,,	1009·1	985·3	..	28.9	23·3	20.6	24·3	62	..	2.7	..	7·0	0	0	30	0	1	1	24	4	0	0	0	0	0
Tambaram (Aerodrome)	0830	29	1009.8	1006·6	..	30.0	25·9	24.0	29·8	74	..	4·2	..	10·9	0	1	28	1	1	0	3	11	10	2	1	1	0
	1730	,,	1006,0	1002·8	..	31.9	25.9	23·2	28.3	61	..	2·8	..	23·2	0	18	12	0	0	0	24	6	0	0	0	0	0
Madras	0230	16	1007.9	1006.2	..	27.2	25.5	24·7	31·1	86	..	2·7	..	5·4	0	0	24	0	0	0	5	15	2	1	1	6	0
	0530	,,	1008·3	1006·5	..	26.5	25·1	24·4	30·5	88	..	3·9	..	4.9	0	0	21	1	0	0	0	13	4	1	2	9	0
	0830	,,	1010·4	1008·7	+0·6	29·7	25·7	23·9	29 7	71	0	4·6	+1·2	11·7	0	2	28	1	0	2	3	12	8	2	2	0	0
	1130	,,	1009.7	1008.0	..	34·1	25 9	22·1	26·6	50	..	4·0	..	13·8	0	3	27	0	0	5	10	9	6	0	0	0	0
	1730	,,	1006.4	1004·7	..	31·5	26·2	23·9	29·7	64	..	3·8	..	18 3	0	8	22	0	0	5	18	5	1	1	0	0	0
	2330	,,	1009·5	1007·8	..	28.1	25·8	24·8	31·3	82	..	2·7	..	9·8	0	1	27	0	0	1	15	12	0	0	0	2	0
Madras (Nungambakkam)	0830	6	1010.3	1009·6	..	29·5	25·7	24 1	30 0	73	..	3·7	..	6·8	0	0	26	0	0	0	0	4	21	1	0	4	0
Coastal Mysore																											
Karwar	0830	4	1010·7	1010·2	+0.5	28·7	25·6	24·3	30·4	77	..	4·9	..	3·6	0	0	27	3	2	17	1	0	0	3	1	3	0
	1730	,,	1007·0	1006·5	..	30·3	26·5	25 0	31·7	73	..	4·7	..	15·7	0	6	24	0	0	0	0	0	0	14	16	0	0
Honavar	0830	26	1010·3	1007·4	−0.8	27·5	24.8	23.6	29·1	79	+3	6·4	+2.2	3·4	0	0	28	2	1	21	2	0	0	1	1	2	0
	1730	,,	1006.8	1003·9	..	30·9	26·2	24·3	30·4	68	..	5·5	..	11·4	0	0	30	0	0	0	0	0	5	16	9	0	0
Mangalore	0830	22	1010·2	1007·7	−0·2	28.9	25·4	23 9	29·7	74	+3	4·6	+1·1	6·6	0	0	30	2	10	13	4	1	0	0	0	0	0
	1730	,,	1006·5	1004·1	..	30·8	26·5	24·7	31·1	71	..	5·2	..	8 5	0	0	30	3	0	0	0	0	3	9	14	0	1
Mangalore (Bajpe Aerodrome)	0230	102	1008·2	996·7	..	26·1	24·2	23·3	28·6	85	..	5·1	..	2·7	0	0	13	2	2	3	4	0	0	1	1	17	0
	0530	,,	1008·3	996.8	..	25·5	23·9	23·1	28·3	87	..	4·4	..	4·4	0	0	20	2	2	13	2	0	1	0	0	10	0
	0830	,,	1010·1	998.7	..	28·0	24·8	23·3	28·6	76	..	4·4	..	5·4	0	0	29	3	5	11	9	0	0	0	1	1	0
	1130	,,	1009·8	998·6	..	32·2	25·5	22·4	27·1	57	..	4·9	..	7.6	0	0	30	2	1	0	1	4	1	9	11	0	1
	1730	,,	1006·4	995·1	..	30·6	25·4	23·1	28·3	65	..	5·4	..	12·0	0	1	29	1	0	0	0	0	1	12	16	0	0
	2330	,,	1009·8	998·3	..	27·4	24·8	23·7	29·3	80	..	5 2	..	6·0	0	0	24	3	1	4	1	1	0	7	7	6	0
Interior Mysore (North)																											
Bidar	0830	664	1008,7	936·7	..	28·0	22·5	19·5	22·7	63	+18	2·3	+0·5	13·1	0	1	29	0	4	1	1	3	16	3	2	0	0
	1730	,,	1002,7	932·5	..	34·2	25·3	20.9	24.7	48	..	4·4	..	12.9	0	5	25	1	6	10	7	2	1	1	2	0	0
Gulbarga	0830	458	1008·9	958·9	+0·7	30·8	20·2	13·4	15.4	37	−8	2.4	+1·0	(c) 10 4	0	1	25	1	4	2	10	4	4	2	1	2	0
	1730	,,	1002.7	953·9	..	36·9	20·3	8.5	11.1	20	..	4 6	..	(f) 21·6	0	14	8	4	1	8	6	3	1	2	1	3	0
Bijapur	0830	594	1009·2	944·3	+0·3	27·6	20·1	15.6	17·7	0	−1	2·5	+0·9	7·1	0	0	29	4	3	1	3	4	4	6	4	1	0
	1730	,,	1002·1	939·5	..	36·7	22·7	15·1	17·1	29	..	4·0	..	4·6	0	0	30	7	6	2	5	3	0	3	4	0	0
Belgaum	0830	753	1009·7	927·8	+0·2	25·5	19·7	15·7	17·8	58	−9	1.9	+0·1	3·6	0	0	22	2	2	1	5	2	3	3	4	8	0
	1730	,,	1003·5	923·7	..	31·7	20·9	14·1	16·1	37	..	3·5	..	13·4	0	0	30	1	0	3	1	0	2	14	8	0	1
Belgaum (Sambre Aerodrome)	0530	747	1009·3	926.6	..	20·6	18·6	17·4	19·9	83	..	3·0	..	4·8	0	1	15	0	0	3	2	1	4	6	0	14	0
	0830	,,	1010·1	928·5	..	24·7	19·7	16.7	19·0	63	..	2·5	..	5·8	0	0	20	0	2	1	1	6	1	9	0	10	0
	1130	,,	1007·9	928.2	..	31·6	19·6	11·4	13·5	32	..	2·3	..	12·9	0	5	22	0	3	7	3	5	3	4	2	8	0
	1730	,,	1003·5	924·4	..	32·7	21·2	13·5	15·5	36	..	3·7	..	18·6	0	16	11	1	3	4	2	0	0	15	2	3	0
Gadag	0530	650	1008·4	936·8	..	23·2	20·9	19·5	22·7	81	..	3·1	..	8·2	0	0	27	0	0	0	3	5	12	6	1	3	0
	0830	,,	1009·7	938·8	+0·2	26·9	21·6	18·5	21·3	63	−7	3·5	+1·7	8·5	0	1	22	0	0	1	2	1	16	1	2	7	0
	1130	,,	1007·7	938·3	..	32·9	22·2	16.0	18·2	40	..	3·2	..	9·4	0	2	26	2	3	4	5	2	1	6	4	2	1
	1730	,,	1002·5	934·1	..	34·7	21·5	13·2	15·2	31	..	4·9	..	8·2	0	0	29	0	12	1	3	0	4	4	5	2	0
	2330	,,	1001.6	937.7	..	26·5	21·9	19·3	22·4	67	..	3·7	..	12 5	0	2	18	2	0	2	2	2	9	13	0	0	0
Raichur	0830	400	1008.8	964·8	+0·1	30·3	25·2	20·6	24·3	63	+12	3·1	+1·4	7·4	0	0	29	0	8	0	14	0	6	0	1	1	0
	1730	,,	1003·4	960·7	..	37.3	25·2	18.4	21.1	35	..	3.4	..	7·7	0	1	27	0	11	0	14	0	3	0	0	2	0
Interior Mysore (South)																											
Bellary	0830	449	1008·9	959·6	+0·2	29·0	24·0	21.5	25.6	64	+14	2 7	+0·6	3·4	0	0	27	2	1	0	17	0	0	0	7	3	0
	1730	,,	1002.5	955·0	..	36 5	25·0	19·5	22·7	39	..	4·2	..	6·2	0	0	29	0	0	6	17	0	1	0	5	1	0
Chitaldrug	0830	733	1009·4	929·7	+0·2	25·9	21·5	19·2	22·2	68	+6	6 0	+3·6	6·2	0	0	26	0	0	2	2	0	14	8	0	4	0
	1730	,,	1002·7	925·2	..	33·3	21·6	14·8	16 8	35	..	5·2	..	5·4	0	1	20	2	2	11	1	0	1	4	0	9	
Shimoga	0830	571	1009·6	946·7	..	25·1	22·1	20 7	24·4	77	..	1·3	..	1·4	0	0	13	1	0	0	1	5	6	0	0	17	0
	1730	,,	1003·3	942·2	..	32·5	21·3	14·3	16·3	38	..	2·4	..	4 2	0	0	27	2	4	2	3	4	5	7	0	3	0
Balehonnur	0830	...	..	..	..	20·8	20·1	19·7	22·9	93	+7	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1515·9	906·3	..	23·4	20·9	19·7	22·9	80	+9	4·2	+1 5	2·8	0	0	13	1	0	0	0	0	1	10	1	17	0
	1730	,,	1489·9	902·5	..	29·3	21·7	17·5	20·0	51	..	6·0	..	7·5	0	0	25	1	1	5	2	1	1	13	1	5	0

(c) Mean of 28 days. (f) Mean ... 25 days.

Division and station	Hour of observation I.S.T	station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)—*Contd.*)—Mysore	0830	767	1010.3	926·5	+0·1	24·4	21·4	19·9	23·2	76	+4	4·1	+0·7	4·7	0	0	21	0	4	4	1	0	9	1	2	9	0
	1730	,,	1004·6	922·7	..	30·5	21·3	16·4	18·6	47	..	5·6	..	4·8	0	0	19	0	6	2	1	0	3	7	0	11	
Bangalore (Central Observatory—	0230	921	1493·1	908·1	..	23·1	19·5	17·3	22·7	71	..	2·1	..	9·1	0	0	30	0	1	4	8	5	3	7	2	0	0
	0830	,,	1518·9	910·4	+0·4	25·2	20·7	18·3	21·0	66	−3	3·5	+0·9	8·1	0	0	29	1	1	3	5	4	6	5	4	1	0
	1130	,,	1525·4	910·0	..	30·5	19·9	13·9	15·9	38	..	4·1	..	8·7	0	0	28	0	0	11	6	4	3	1	3	2	0
	1730	,,	1490·4	906·3	..	31·3	19·2	11·0	13·1	30	..	5·4	..	11·1	0	0	29	1	0	13	12	1	2	0	0	1	0
Bangalore (Aerodrome)	0530	897	1494·1	911·0	..	22·0	20·1	19·0	22·0	84	..	3·0	..	5·2	0	0	14	0	0	3	2	4	2	2	1	16	0
	0830	,,	1518·8	912·8	..	25·4	21·5	19·6	22·8	71	..	3·7	..	9·3	0	0	24	0	0	4	3	1	8	6	2	6	0
	1130	,,	1527·5	912.4	..	31·5	22·2	17·0	19·4	44	..	4·2	..	11·5	0	1	24	0	0	8	5	4	4	1	3	5	0
	1730	,,	1493·0	908.8	..	92.1	21·5	15·1	17·1	39	..	5·1	..	16·4	0	6	22	0	3	11	13	1	0	0	0	2	0
	2330	,,	1522·0	912·1	..	25·3	20·2	17·1	19·5	63	..	3·7	..	10.9	0	0	26	0	0	7	10	3	6	0	0	4	0
Kerala Kozhikode	0530	5	1008.6	1008.0	..	25·8	24.3	23·7	29·3	88	..	4·8	..	7·0	0	0	29	0	11	14	1	0	1	1	1	1	0
	0830	,,	1010.4	1009.8	+0.1	28·2	25·2	23.9	29·7	77	0	4·8	+0.9	5·1	0	1	24	0	6	13	2	0	0	0	2	5	0
	1130	,,	1010.4	1009.8	..	31·2	26·5	24·5	30·7	67	..	4.8	..	8.7	0	0	30	0	0	0	1	0	6	18	5	0	0
	1730	,,	1006.9	1006.3	..	30·7	26·7	25·1	31.9	72	..	5.7	..	13.6	0	0	30	1	0	1	0	0	0	16	12	0	0
	2330	,,	1010.2	1009·6	..	27·1	24·7	23.7	29·3	82	..	5·4	..	7·0	0	0	29	1	13	3	4	0	0	3	5	1	0
Palghat	0830	97	1010·3	999·4	..	28·1	24·9	23·4	28·8	76	..	4·7	..	6 0	0	0	27	0	0	8	1	0	2	15	1	3	0
	1730	,,	1006·0	995·2	..	31·5	25·3	22·2	26·7	60	..	6·4	..	14 1	0	0	30	1	1	3	1	0	6	15	3	0	0
Fort Cochin	0830	3	1010·3	1010·0	−0·1	28·7	26·3	25.3	32·2	82	+7	6·3	+2.5	5·4	0	0	30	2	12	9	1	1	2	2	1	0	0
	1730	,,	1007·1	1006·8	..	29·3	26·7	25·6	32·8	81	..	6·7	..	7·8	0	0	30	1	2	3	3	2	4	9	6	0	0
Cochin (Naval Air Station)	0230	3	1008·7	1008·4	..	25·6	24·3	23·7	29·3	89	..	5·9	..	5·1	0	0	25	3	4	15	2	1	0	0	0	5	0
	0530	,,	1008·5	1008·2	..	25·4	24·1	23·5	28 9	90	..	5·6	..	3·9	0	0	25	1	3	17	3	1	0	0	0	5	0
	0830	,,	1010·3	1010·0	..	28·2	25·2	23·8	29·5	77	..	5·0	..	4·2	0	0	24	2	4	17	1	0	0	0	0	6	0
	1130	,,	1010·3	1010·0	..	31.0	26·3	24·3	30·4	67	..	5·6	..	9·1	0	0	30	4	2	3	2	0	5	4	10	0	0
	1730	,,	1007·3	1007.0	..	29·5	25·5	23·8	29·5	71	..	6·4	..	20 0	0	10	20	1	1	4	2	3	4	9	6	0	0
	2330	,,	1010·4	1010·1	..	26 1	24·4	23 6	29·1	87	..	6·5	..	7·4	0	1	27	2	7	8	4	2	0	2	3	2	0
Alleppey	0830	4	1009·9	1009·5	..	29·1	26·4	25·2	32·1	80	..	4·6	..	4·5	0	0	29	0	8	12	8	0	0	1	0	1	0
	1730	,,	1006·5	1006·1	..	30·1	26·4	24·8	31·3	74	..	6·0	..	16·2	0	14	15	1	3	2	1	0	2	8	12	1	0
Punalur	0830	34	1009·9	1006·1	..	26·5	24·6	23·8	29.5	85	..	5·9	..	0·4	0	0	3	0	1	1	1	0	0	0	0	27	0
	1730	,,	1006.6	1002.8	..	29·4	25·2	23 3	28·6	71	..	6·6	..	5.3	0	0	25	2	1	2	5	5	7	0	3	5	0
Trivandrum	0230	64	1008.1	1000·8	..	25·2	24·3	23·8	29·5	92	..	3·6	..	3·4	0	0	24	6	8	5	1	0	0	0	4	6	0
	0530	,,	1008.2	1000·9	..	24·9	24·0	23·5	28·9	92	..	3 9	..	4·1	0	0	26	11	9	3	1	0	0	0	2	4	0
	0830	,,	1010·3	1003.0	+0.1	27·4	25·1	24·1	30·0	82	+3	3·5	−0.4	4·1	0	0	26	9	6	3	3	1	0	1	3	4	0
	1130	,,	1010.0	1002.9	..	30·9	25·8	23·5	28·9	65	..	5 5	..	7·0	0	0	27	1	0	1	3	1	6	5	10	3	0
	1730	,,	1007.2	1000.0	..	28.4	25·2	23·8	29·5	77	..	6·1	..	5·7	0	0	27	2	3	0	5	3	6	2	6	3	0
	2330	,,	1010.1	1002.8	..	26.1	24·7	24·1	30.0	89	..	5·0	..	4·9	0	0	25	7	5	5	3	1	0	0	4	5	0
Trivandrum (Aerodrome)	0830	8	1010.1	1009·2	..	28·7	25·3	23·8	29·5	75	..	4.8	..	5·9	0	0	29	9	12	4	0	0	0	0	3	1	1
Arabian Sea Islands Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Amini Divi*	0830	4																									
Hill Stations excluding Kashmir Walong (R)	0830																										
(R)	1730																										
Kohima	0830	1406	1582·5	867·7	..	22·1	17.6	14·2	16·6	64	..	0·9	..	4·3	0	0	30	11	0	2	2	1	5	5	4	0	0
	1730	,,	1580·6	863·1	..	22·8	16·9	11·9	15·1	54	..	2·8	..	3·8	0	0	30	3	0	0	1	0	18	1	7	0	0
Aijal	0830	..	..	..	..	23.4	16·8	12·4	14·2	55	..	1·8	..	3·9	0	0	30	1	0	2	0	4	9	14	0	0	0
	1730	..	..	..	..	27·1	17·1	9·8	11·3	37	..	2·0	..	3·9	0	0	30	1	0	1	0	0	4	24	0	0	0
Shillong	0830	1500	1495·1	849·8	+0·3	23·1	13·4	2·9	8·3	31	−23	1·0	−2·2	2·2	0	0	17	0	0	0	0	3	11	3	0	13	0
	1730	,,	1467·1	846·8	..	22·1	14·2	6·9	10·3	41	..	3.0	..	1·2	0	0	11	0	0	0	0	2	8	1	0	19	0
Cherrapunji	0830	1313	1501·2	868·8	+0·1	20·7	16·5	13·4	15·5	67	−7	3·4	−1.4	4·9	0	0	30	2	1	3	2	4	16	2	0	0	0
	1730	,,	1467·0	866·0	..	21·7	16·9	14·1	15·9	64	..	2.4	..	4·6	0	0	30	0	0	0	0	0	28	2	0	0	0
Darjiling (Raj Bhawan)	0830	2128	1317·4	792.0	+3·7	16.2	11.9	8.0	11.1	61	−4	4·1	+0.2	0·8	0	0	6	1	0	0	0	0	5	0	9	24	0
	1730	,,	1489·9	789·6	..	16·5	12·3	8·6	11·5	61	..	5·7	..	4.2	0	0	23	0	0	0	0	1	10	8	4	7	0
Kalimpong	0830	1209	1485.6	880·4	+1.7	20·8	19·3	19·0	21.2	86	+21	1.5	−1.0	3·0	0	0	30	0	0	0	2	0	0	0	28	0	0
	1730	,,	1466·0	875·9	..	20·6	19·0	18·6	21·1	86	..	1·9	..	3·0	0	0	30	0	0	0	29	0	0	0	1	0	0

*Data given as addenda in December, 1960 issue.

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in metres of standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—*Contd.*																											
Mukteswar (Kumaon)	0830	2311	3136·5	773·1	+0·4	13·6	6·6	2·3	5·3	37	0	1·7	−0·5	12·5	0	6	19	0	3	3	1	0	0	9	9	5	0
	1730	,,	3130·2	771·7	..	16·9	8·8	0	6·3	35	..	3·4	..	21·0	0	17	11	0	1	1	0	0	4	12	10	2	0
Nainital	0830	1953	1483·0	804·9	..	17·0	8·7	0·7	6·0	34	..	1·8	..	6·5	0	1	20	8	2	4	3	0	0	2	2	9	0
	1730	,,	1464·5	803·4	..	18·3	9·9	1·9	6.8	36	..	2·6	..	10·0	0	2	28	12	1	6	3	3	1	2	2	0	0
Joshimath	0830	..	..	..	..	14·6	8·1	0·9	6·4	42	..	2·2	..	8·4	0	1	29	0	9	13	5	0	0	2	1	0	0
	1730	..	..	..	..	17·8	9·5	1·4	6·3	34	..	5·5	..	8·8	0	1	29	1	4	9	4	1	2	1	5	0	3
Badrinath	0830							Closed	during	winter	months																
Lokpal	0830	..	..	..	..	−3·5	−5·4	−8·6	2·7	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussoorie	0830	2042	1478·5	796·1	−1·1	16·1	8·7	0·4	6·4	36	−8	2·5	+0·2	2·1	0	0	16	6	1	0	1	2	2	0	4	14	0
	1730	,,	1468·0	795·3	..	17·8	9·3	1·6	6·5	36	..	4·5	..	3·7	0	0	26	3	1	0	7	11	3	0	1	4	0
Simla	0830	2202	1486·1	782·0	+0·7	14·5	7·0	2·8	4.6	31	−2	2·4	+0·3	3·1	0	0	30	3	4	2	7	4	8	1	1	0	0
	1730	,,	1477·0	781·1	..	15·3	7·7	1·9	4·8	32	..	4·1	..	3.1	0	0	30	5	1	0	4	8	8	0	4	0	0
Dalhousie*	0830	1959	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharamshala	0830	1211	..	..	..	20·6	12·2	4·0	8·1	35	..	3·8	..	2·9	0	0	29	2	13	7	1	1	0	1	4	1	0
	1730	,,	..	..	..	24·1	13·6	3·7	8·0	28	..	5·1	..	3·8	0	0	30	0	3	1	2	3	19	1	1	0	0
Abu	0830	1195	1519·4	882·6	+1·5	22·5	14·0	5·7	9·1	36	+8	0·4	+0·3	1·1	0	0	6	0	1	0	0	0	1	2	1	24	1
	†1730	,,	1501·6	880·1	..	27·9	16·0	5·5	9·0	25	..	0·9	..	2·7	0	0	14	1	0	0	0	0	5	3	4	16	0
Pachmarhi	0830	1075	1519·9	894·3	+0·5	26·3	16·3	7·4	11·2	34	+5	1.8	0	2·7	0	0	22	1	6	4	0	4	2	1	4	8	0
	1730	,,	1489·4	890·8	..	30·9	18·8	9·3	13·0	32	..	3·3	..	2·9	0	0	26	1	6	1	0	1	3	3	11	4	0
Mahabaleswar	0830	1382	1520·0	863·8	+0·1	23·7	15·0	7·7	10·5	38	+2	1·4	−0·3	8·7	0	0	29	1	13	7	2	1	2	0	3	1	0
	1730	,,	1469·9	861·4	..	26·7	20·3	16·3	18 5	56	..	2·1	..	8·0	0	0	30	1	0	1	0	0	1	6	1	0	0
Mercara	0830	1152	1513·1	864·4	+0·4	21·1	19·0	17·9	20·5	83	+6	3·0	−0·7	3·2	0	0	27	6	10	10	0	0	0	1	0	3	0
	1730	,,	1488·6	883·4	..	24·5	21·0	19·2	22·2	73	..	4·7	..	4·3	0	0	30	2	3	4	0	0	0	10	8	0	3
Kodaikanal	0830	2343	3164·3	772·2	+0·5	15·1	11·7	8·7	11.2	69	+11	3·0	+0·4	9·7	0	0	28	2	9	5	9	2	0	0	1	2	0
	1130	,,	3176·6	772·6	...	18·0	13·8	10·7	12.9	64	..	4·0	..	11·8	0	2	28	2	8	7	10	3	0	0	0	0	0
	1730	,,	3144·7	770·5	...	15·0	13·7	12·9	14.9	88	..	5·7	..	7·8	0	3	21	2	4	4	9	4	0	0	1	6	0
Ootacamund	0830	2249	1511.4	780·7	+0·5	15·8	12·3	10·0	12.3	69	+12	3·2	+0·2	2·1	0	0	11	0	4	7	0	0	0	0	0	19	0
	1730	,,	1488·8	778·8	..	17·4	13 9	11·8	13·8	70	..	5·9	..	0·8	0	0	4	0	2	1	1	0	0	0	0	26	0
Coonoor	0830	1747	1521·1	828·5	..	20 1	15·8	13·0	15·0	65	+2	4·0	−0·2	5·7	0	0	30	3	0	0	13	6	5	0	3	0	0
Nepal																											
Katmandu	0830	1324	1491·5	867·0	..	17 2	12·7	8·9	11 5	60	..	0·8	..	0·2	0	0	2	1	0	0	1	0	0	0	0	28	0
	1130	,,	1487 8	866·1	..	26·7	15 1	4·2	8·7	27	..	1·2	..	0·6	0	0	5	2	0	0	0	0	1	1	1	25	0
	1730	,,	1465·0	864·0	..	23·8	14·4	5·8	9·5	34	..	1·2	..	1·0	0	0	7	1	0	0	1	0	1	3	1	23	0
Sikkim																											
Lachen	0830	..	..	..	..	13·1	8·9	5·3	8·8	58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet																											
Yatung (Chumbi) (R)	0830																										
Ceylon																											
Colombo	0830	7	1010·5	1009·7	0	27·1	24·6	23·4	28·8	81	−6	4·9	0	5·9	0	0	29	0	5	11	11	1	0	1	0	1	0
	1730	,,	1007·7	1006·9	..	28·5	24·8	23·1	28·3	74	..	7·0	..	10·2	0	0	26	0	3	0	2	0	11	7	3	4	0
Trincomalee	0830	3	1010·1	1009·8	+0·8	28·0	25·3	24·1	30·0	79	−3	4·9	+1·8	6·5	0	0	19	0	0	3	2	7	5	2	0	11	0
	1730	,,	1007·1	1006·8	..	28·1	25·2	23·0	29·7	72	..	5·1	..	9·5	0	0	28	4	5	6	9	2	2	0	0	2	0
Batticcloa	0830	3	1010·5	1010·2	..	27·8	25·6	24·7	31·1	84	..	3·8	..	5·4	0	0	19	2	1	2	3	2	2	4	3	11	0
	1730	,,	1007·6	1007·3	..	29·2	26·0	24·6	30·9	78	..	4·5	..	15·5	0	3	27	0	6	15	5	2	2	0	0	0	0
Hambantota	0830	15	1010·3	1008·6	+0·6	28·0	25·2	24·0	29·8	80	−6	4·2	+0·7	13·5	0	3	27	9	10	1	0	0	4	3	3	0	0
	1730	,,	1007·6	1005·8	..	29·1	25·6	24·0	29·8	74	..	5·1	..	19·6	0	12	18	1	2	7	2	4	12	2	0	0	0
Mannar	0830	4	1010·5	1010·1	..	27·5	25·6	24·9	31·5	85	..	4·4	..	8·6	0	0	30	0	6	4	13	5	2	0	0	0	0
	1730	,,	1007·3	1006·8	..	29·3	26·2	24·8	31·3	78	..	6·2	..	9·1	0	0	28	2	4	2	4	2	10	3	1	2	0
Hydrometeorological Observatories																											
Damodar Catchment																											
Bokaro	0830	242	1006·5	980·0	..	31·2	20·6	13·2	15·6	34	..	0·3	..	2·8	0	0	25	1	0	0	0	3	8	7	6	5	0
	1730	,,	1002·8	976·5	..	36·5	21·9	11·3	12·9	23	..	0·2	..	5·7	0	0	30	3	0	0	1	0	2	8	16	0	0
Hazaribagh	0830	615	1007·3	940·7	..	29·7	16·5	4·9	8·9	23	..	1·3	..	9·3	0	2	28	2	0	0	0	0	7	9	12	0	0
	1730	,,	1002·6	937·1	..	33·1	17·6	4·7	9·0	18	..	1·3	..	11·1	0	1	29	3	0	0	0	1	2	4	20	0	0
Tilaiya	0830	..	..	..	..	30·9	16·5	1·9	6·9	16	..	8·0	..	14·7	0	6	24	1	0	1	1	0	1	16	10	0	0
	1730	..	..	..	..	35·1	17·9	0·5	6·4	12	..	8·0	..	14·8	0	3	27	1	1	0	1	0	0	15	12	0	0
Ramgarh	0830	..	..	..	..	31·4	20·3	12·5	14·8	33	..	0·7	..	1·6	0	0	15	1	2	0	0	0	3	9	2	15	0
	1730	..	..	..	..	36·1	22·1	13·0	15·5	26	..	1·2	..	2·2	0	0	22	2	0	1	0	2	2	10	5	8	0

*Data rejected. †Wind direction for 29 days. (R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 21 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—(*contd.*)																											
Damodar Catchment—(*contd.*)—Panchet Hills	0830	..	..	..	..	32·2	18·8	7·6	11·0	22	..	4·5	..	7·8	0	0	28	2	0	0	0	1	20	4	1	2	0
	1730	..	..	..	..	35·8	19·5	5·6	9·3	16	..	4·9	..	7·2	0	1	24	6	0	0	0	1	3	5	10	5	0
Durgapur	0830	..	..	..	..	31·5	23·2	18·2	21·3	47	..	..	..	9·0	0	0	30	3	0	0	2	2	7	5	11	0	0
	1730	..	..	..	..	36·8	24·4	17·8	20·4	32	..	..	..	7·6	0	0	30	2	0	0	0	3	3	3	19	0	0
Mahanadi Catchment Hirakud	0830	159	1008·7	991·0	..	30·8	21·2	14·9	17·4	40	..	2·4	..	5·4	0	0	27	5	1	2	3	7	3	2	4	3	0
	1730	"	1003·3	986·1	..	37·0	22·3	12·3	14·9	25	..	3·0	..	3·7	0	0	22	3	0	0	1	5	2	1	10	8	0
Khijrawan	0830	..	..	..	..	29·1	20·6	15·2	17·3	44	..	1·8	..	2·7	0	0	20	0	1	5	1	2	6	5	0	10	0
	1730	..	..	..	..	35·8	21·9	13·1	15·1	27	..	3·4	..	2·9	0	0	25	2	2	0	0	2	1	11	6	5	1
Sonepur	0830	..	..	..	..	32·7	22·0	15·5	17·8	36	..	..	..	6·9	0	0	29	3	1	4	5	2	4	6	4	1	0
Ginabahar	0830	..	..	..	..	29·9	17·8	7·3	10·6	29	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhimkund	0830	..	..	..	..	27·8	20·8	15·7	18·9	47	..	1·6	..	0·4	0	0	4	1	2	1	0	0	0	0	0	26	0
	1730	..	..	..	..	35·5	21·7	13·3	14·7	31	..	3·4	..	1·3	0	0	11	1	0	0	2	1	5	0	2	19	0
Narbada Catchment Punasa	0830	..	..	..	..	32·7	23·3	18·2	20·9	44	..	..	..	5·5	0	0	27	10	3	4	10	2	2	4	2	3	0
	1730	..	..	..	..	38·8	28·3	23·5	29·8	43		..	..	5·6	0	0	28	7	0	2	1	3	2	9	4	2	0
Bagra Tawa	0830	..	..	..	..	29·5	17·0	5·7	9·3	23	..	1·0	..	7·0	0	0	26	0	10	0	0	3	6	4	3	4	0
	1730	..	..	..	..	37·0	19·8	5·5	9·1	16	..	2·0	..	5·9	0	0	24	0	4	2	1	0	7	8	2	6	0
Thikri	0830	..	..	..	..	30·0	19·2	11·6	13·5	32	..	1·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment Jhadol	0830	..	..	..	..	21·8	17·7	14·8	16·4	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharoi	0830	..	..	..	..	28·1	17·6	8·8	11·3	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	36·9	20·3	6·9	9·9	17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment Mukhim	0830	..	..	..	..	15·8	9·6	3·8	8·0	45	..	(p) 1·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·4	9·9	3·0	7·5	37	..	(p) 3·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	19·1	13·5	8·7	11·5	53	..	2·2	..	0·7	0	0	6	3	3	0	0	0	0	0	0	24	0
	1130	..	..	..	..	27·0	15·6	5·5	9·5	27	..	2·5	..	2·3	0	0	20	4	6	2	1	1	1	3	2	10	0
	1730	..	..	..	..	29·7	15·8	2·4	7·9	20	..	4·5	..	5·5	0	1	24	1	1	1	6	2	1	7	6	5	0
Gandak Catchment Gorkha	0830	..	..	..	..	22·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	23·1	16·1	11·1	13·3	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	27·8	17·5	10·0	12·5	33	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nawakot	0830	..	..	..	..	23·4	15·4	9·1	11·6	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	27·3	15·4	5·2	8·8	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom	0830	..	..	..	..	11·4	5·5	−0·8	5·7	42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·1	7·1	2·6	7·3	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	22·7	15·3	10·8	12·0	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·0	16.4	10·8	11.8	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	16·1	9·1	2·1	7·1	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·8	11·3	2·7	7·4	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans-Himalayan Region) Dailekh*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment Dandeldhura	0830	..	..	..	..	17·4	10·6	5·9	9·3	42	..	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·2	11·0	3·1	7·6	37	..	3·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Munsiyari	0830	..	..	..	..	14·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	28·3	21·0	(i) 16·7	(i) 19·1	(i) 30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	34·6	23·0	(c) 16·6	(c) 19·0	(c) 35	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment Katmandu†	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment Chautara	0830	..	..	..	..	19·5	12·3	6·7	9·7	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·3	13·1	3·5	7·9	25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
pu	0830	..	..	..	..	17.7	11·7	8.2	10·4	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·6	11·1	7·9	10·1	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(p) Mean of 15 days. *Data not available. (i) Mean of 22 days. (c) Mean of 28 days. †Data included under Nepal

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*Contd.*																											
Kosi Catchment—*Contd*																											
Barakshetra	0830	146	1007·5	990·1	..	27·7	18·2	10·8	13·3	36	..	0·9	..	8·0	0	0	29	0	5	3	2	0	10	6	3	1	0
	1130	,,	1006·1	990·1	..	32·5	20·5	12·3	14·4	30	..	1·4	..	12·8	0	0	30	0	1	1	0	0	13	14	1	0	0
	1730	,,	1001·9	985·9	..	34.3	19·8	9·4	11·5	23	..	1·3	..	6·2	0	0	20	0	3	2	2	0	10	7	4	2	0
Angbung	0830	..	..	..	..	19·8	15·1	11·7	13·7	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·1	16·6	10·5	12·7	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	19.4	12.7	7.3	10.2	47	..	2·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	21.8	13.2	6.4	9.6	38	..	2·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19.7	12.2	5.6	9.1	43	..	6·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tapethok	0830	..	..	..	..	18.8	13·0	8·1	10·7	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·8	13·9	7·1	10·1	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	10·5	5·5	0·4	6·3	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·0	4·5	1·0	6·5	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	22·5	14.9	9.1	11.5	42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·1	14·9	7·6	10·4	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment																											
Gangtok	0830	1812	1487.8	818·6	..	16·4	12·3	9·0	11·6	63	..	1·9	..	0·2	0	0	2	1	0	0	0	1	0	0	0	28	0
	1130	,,	1479.0	818.2	..	20·8	14·5	10·0	12·4	51	..	2·2	..	3·0	0	0	26	0	0	0	2	12	11	1	0	4	0
	1730	,,	1461.5	816.2	..	16·7	12·9	9·9	12·5	65	..	5·4	..	2·3	0	0	17	0	1	1	1	13	1	0	0	13	0
Geyzing	0830	..	..	..	..	19·5	16·8 (b)	15.3 (b)	17·5 (b)	76 (b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·6	17·3	16·2	18·3	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data not available.

(b) Mean of 29 days.

MONTHLY MEANS OF UPPER WINDS

April 1960 (Chaitra 12—Vaisakha 10, 1882 Saka)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 43 stations all the observations were taken by means of pilot balloons and at 11 stations some observations were made by means of pilot balloons and the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a. m. s. l. are given under Table IV and data above 9.0 km. a. m. s. l. under Table V.

In Tables IV and V:

n—represents the number of observations,

V—represents the mean wind speed in metres per second* irrespective of direction,

v—represents the resultant mean velocity in metres per second*,

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights:

Surface, 0·15 km. a. g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a. m. s. l. Of these, the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1 and 16·2 km. a. m. s. l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

*Values obtained by converting the original data in knots.

Particulars of Pilot Balloon and Rawin Stations in India

Station	Lat. N	Long. E	Height of Anemometer head a. m. s. l. in metres	Date of opening	Approximate times of flights (I.S.T.)			
Agartala	23°53′	91°15′	17	28th November 1951	0530	1130	1730	2330
Ahmedabad	23°04′	72°38′	61	19th May 1928	0530	1730	2330	
Amausi	26°45′	80°53′	133	20th November 1950	0530	1730	2330	
Ambala	30°23′	76°46′	279	1st April 1941	0530	1730	2330	
Anantapur	14°41′	77°37′	365	12th February 1946	0530	1730	2330	
Asansol	23°41′	86°59′	135	29th May 1942	0530	1130	1730	2330
Baghdogra	26°38′	88°19′	140	7th June 1953	0530	1130	1730	2330
Bairagarh	23°17′	77°21′	532	26th February 1943	0530	1730	2330	
Bajpe	12 55′	74 53′	104	25th May 1959	0530	1730	2330	
Bamrauli	25°27′	81°44′	103	28th February 1930	0530*	1130	1730*	2330
Bangalore	12°58′	77°35′	936	19th May 1915	0530	1730	2330	
Bareilly	28°22′	79°24′	181	12th January 1943	0530	1730		
Begumpet	17°27′	78°28′	543	1st September 1929	0530	1730	2330	
Bhagalpur	25°14′	86°57′	61	19th May 1950	0530	1130	1730	
Bhubaneshwar	20°15′	85°50′	54	5th December 1942	0530	1130	1730	2330
Bhuj	23°15′	69°48′	90	14th September 1937	0530	1730	2330	
Bikaner	28°00′	73°18′	229	18th October 1946	0530	1730	2330	
Chikalthana	19°51′	75°24′	583	7th October 1951	0530	1730	2330	
Cochin†	09°56′	76°14′	13	16th March 1942	0530	1730	2330	
Darjeeling	27°03′	88°16′	2115	21st May 1956	0530	1730		
Dehra Dun	30°19′	78°03′	692	1st October 1958	0530	1730		
Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
Gadag	15°25′	75°38′	650	3rd May 1943	0530	1730	2330	
Gannavaram	16°32′	80°48′	32	8th April 1942	0530	1730	2330	
Gauhati	26°05′	91°43′	55	12th March 1955	0530*	1130	1730*	2330
Gaya	24°45′	84°57′	119	19th March 1937	0530	1130	1730	2330
Gopalpur	19°16′	84°53′	24	15th February 1946	0530	1730	2330	
Gorakhpur	26°45′	83°22′	83	5th January 1943	0530	1730		
Gwalior	26°14′	78°15′	208	7th May 1938	0530	1730	2330	
Imphal	24°51′	93°58′	805	8th March 1952	0530	1130	1730	2330
Jabalpur	23°10′	79°57′	402	30th July 1928	0530	1730	2330	
Jagdalpur	19°05′	82°02′	562	25th March 1948	0530	1730	2330	
Jaipur	26°49′	75°48′	403	6th June 1953	0530	1730	2330	
Jamshedpur	22°49′	86°11′	144	23rd July 1942	0530	1130	1730	
Jharsuguda	21°55′	84°05′	240	1st May 1944	0530	1730	2330	
Jodhpur	26°18′	73°01′	229	15th October 1934	0530*	1130	1730*	2330
Madras	13°00′	80°11′	29	8th April 1926	0530*	1130	1730*	2330
Minicoy	08°18′	73°00′	15	14th April 1941	0530	1730	2330	
Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1130	1730	2330
Nagpur	21°06′	79°03′	316	23rd April 1943	0530*	1130	1730*	2330
Nanpara	27°50′	81°30′	142	23rd April 1957	0530	1730		
New Delhi	28°35′	77°12′	227	20th October 1936	0530*	1130	1730*	2330
Poona	18°32′	73°51′	593	5th January 1925	0530	1730	2330	
Port Blair	11°40′	92°43′	93	29th October 1945	0530*	1130	1730*	2330
Raipur	21°14′	81°39′	308	15th July 1944	0530	1730	2330	
Raxaul	26°59′	84°51′	83	28th October 1957	0530	1130	1730	
Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
Tezpur	26°37′	92°47′	79	12th August 1932	0530	1130	1730	2330
Tiruchirapalli	10°46′	78°43′	96	22nd June 1936	0530	1730	2330	
Trivandrum	08°29′	76°57′	73	8th December 1928	0530*	1130	1730*	2330
Udaipur	24°35′	73°42′	587	24th June 1947	0530	1730	2330	
Vengurla	15°52′	73°38′	8	22nd November 1941	0530	1730	2330	
Veraval	20°54′	70°22′	17	13th October 1941	0530*	1130	1730*	2330
Visakhapatnam	17°43′	83°14′	10	24th September 1928	0530	1730	2330	

*Radiowind ascents.
†Naval Meteorological Office.

5—20 D.D.G. Obs. Poona/64.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

April 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Station	AGARTALA																AHMEDABAD							
Time in I. S. T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·6	2·2	171	30	3·7	3·0	195	30	3·8	3·0	183	30	3·4	2·9	175	30	2·7	2·3	326	30	4·1	3·3	31
0·15 a. g.	27	7·0	6·0	183	30	4·9	4·1	200	30	8·1	5·8	184	30	7·7	7·2	190	30	9·0	6·4	335	30	4·2	3·2	30
0·3 a. m. s. l.	27	8·0	6·9	212	30	5·3	4.5	204	30	8·5	6·4	190	30	8·7	7·9	203	30	9·9	7·6	341	30	4·5	3·4	30
0·6 ,,	27	8·2	6·7	222	30	6·5	5·7	209	30	8·7	7·1	203	30	9·1	8·2	220	30	8·4	6·2	341	30	4·9	4·0	30
0·9 ,,	27	8·1	6·7	250	30	6·0	5·1	222	30	8·6	7·2	214	30	7·8	7·2	239	30	6·3	4·6	333	30	4·7	3·8	29
1·5 ,,	25	9·4	8·2	266	23	7·5	6·9	247	29	7·9	7·0	248	30	7·6	7·1	267	29	5·3	3·6	302	30	5·1	4·2	28
2·1 ,,	23	9·1	8·7	277	16	9·4	8·7	268	29	9·4	8·9	271	30	9·1	8·7	282	29	6·8	4·3	275	30	5·8	4·8	27
3·0 ,,	20	11·5	11·0	276	5	11·3	10·8	280	24	12·9	12·7	283	22	11·2	10·8	285	29	9·4	6·6	248	30	8·8	7·0	25
3·6 ,,	9	12·6	11·1	276					20	15·4	15·0	292	5	11·3	10·7	285	11	11·3	7·5	245	29	10·9	9·0	25
4·5 ,,	3	13·2	12·6	275					16	15·7	15·2	287	1	11·8	11.8	250	4	9·9	8·9	221	28	12·5	10·0	26
5·4 ,,	1	6·2	6·2	245					13	14·1	13·5	272	1	10·8	10·8	260	2	6·2	5·1	243	27	13·5	11·6	26
6·0 ,,	1	7·7	7·7	230					12	14·5	12·3	275									25	14·2	12·4	26
7·2 ,,									4	16·6	16·0	271									23	17·7	16·1	25
9·0 ,,									1	23·7	23·7	275									5	20·7	20.4	25

Station	AHMEDABAD				AMAUSI												AMBALA							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·1	1·7	303	30	2·7	1·9	272	30	6·0	4·8	295	30	3·1	2·0	301	30	2·2	1·3	331	30	3·7	2·6	309
0·15 a. g.	30	7·4	6·3	314	30	9·4	7·3	328	30	7·2	5·8	293	30	9·4	6.5	324	30	7·6	4·9	346	30	6·9	4·7	309
0·3 a. m. s. l.	30	7·9	6·8	316	30	9·5	7·3	328	30	7·3	6·0	288	30	9·6	6·8	324	30	3·8	2·2	353	30	4·8	3·2	311
0·6 ,,	30	7·5	6·6	317	30	9·5	7·8	322	29	8·3	7.1	291	30	9·8	7.5	315	30	7·3	5·1	338	30	8·1	5·6	307
0·9 ,,	30	6·4	5·8	310	30	9·5	8·4	307	28	8·7	7·2	292	30	9·1	8·0	305	30	7·4	5·1	330	30	8·4	6·4	308
1·5 ,,	30	5·5	4·5	299	29	10·7	10·1	296	25	9·1	8·3	286	29	10·1	9·7	291	30	6·9	5·8	321	30	8·7	6·4	300
2·1 ,,	30	5·8	4·0	283	26	12·0	11·2	292	25	10·0	8·9	282	25	10·7	8·6	286	29	7·4	6·0	313	28	8·5	6·7	296
3·0 ,,	25	7·1	4·3	248	18	14·1	13·4	292	25	13·7	12·8	280	14	11·1	10·5	277	27	8·5	7·2	307	27	8·9	7·1	296
3·6 ,,	4	7·6	2·7	214	7	13·8	13·4	286	23	14·6	13·6	284	8	10·5	9·8	287	26	8·2	6·8	302	22	6·2	6·4	284
4·5 ,,					1	17·5	17·5	300	18	16·1	15·3	273	1	14·9	14·9	320	24	9·8	8·3	288	19	11·4	9·7	282
5·4 ,,									15	17·8	16·1	271	1	21·1	21·1	310	20	12·0	10·5	282	14	13·6	12·1	290
6·0 ,,									11	18·2	16·6	275					18	13·3	11·5	280	12	16·8	15·6	284
7·2 ,,									4	20·4	19·0	264					15	18·1	16·5	265	8	19·9	18·3	274
9·0 ,,									4	25·2	22·0	255					2	24·7	24·6	285	1	28·8	28·8	230

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

April 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Station	AMBALA				ANANTAPUR												ASANSOL							
Time in I. S. T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	3·0	1·9	325	30	2·1	1·1	230	30	3·3	2·8	078	30	4·3	2·3	102	30	0·8	0·7	272	30	2·5	1·8	284
0·15 a. g. .	30	9·4	6·7	338	30	5·1	3·0	226	30	4·9	4·3	083	30	7·7	5·6	111	30	5·9	4·8	278	30	5·0	3·9	290
0·3 a. m. s. l. .	30	4·0	2·5	333													30	5·9	4·6	284	30	5·1	4·2	293
0·6 ,, .	30	9·7	6·2	341	30	5·6	3·2	224	30	4·9	4·3	082	30	7·9	5·9	110	30	7·3	6·2	309	30	5·7	4·9	285
0·9 ,, .	30	9·3	5·3	342	30	6·0	3·3	208	30	4·7	3·9	079	30	8·0	6·1	112	30	8·4	7·7	311	30	6·1	5·3	284
1·5 ,, .	30	7·3	4·0	325	30	5·7	3·1	158	30	4·8	3·9	083	30	5·2	4·5	105	30	9·3	8·5	294	29	7·1	5·6	286
2·1 ,, .	29	7·1	5·3	299	30	6·0	4·5	085	30	5·2	4·2	086	30	4·4	3·3	098	30	11·1	10·5	285	23	7·9	7·4	282
3·0 ,, .	28	8·2	6·4	276	30	6·7	5·3	058	30	5·0	4·1	095	28	4·6	2·6	067	25	12·0	9·3	278	5	12·3	11·9	298
3·6 ,, .	11	10·2	8·9	254	28	6·8	5·3	048	28	4·9	4·1	088	25	5·0	3·3	063	13	12·7	12·1	281				
4·5 ,, .					26	5·3	3·9	084	26	4·6	2·7	086	19	4·9	2·6	064	3	14·4	14·3	288				
5·4 ,, .					23	5·3	2·3	116	21	5·5	2·2	080	11	4·4	1·6	071								
6·0 ,, .					23	5·4	1·6	124	20	5·7	2·3	075	5	5·3	1·9	143								
7·2 ,, .					15	5·3	2·0	215	14	5·5	1·6	278												
9·0 ,, .					5	12·5	11·6	248	9	7·8	6·0	285												

Station	ASANSOL								BAGHDOGRA															
Time in I. S. T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·1	1·6	287	30	0·8	0·4	262	30	1·9	1·3	053	30	3·8	3·1	100	30	2·6	0·4	309	30	1·6	1·2	018
0·15 a. g. .	30	6·0	4·9	290	30	5·5	4·5	296	30	5·1	4·6	061	30	4·2	3·1	107	30	4·3	1·1	278	30	4·1	2·7	064
0·3 a. m. s. l. .	30	6·1	4·8	283	30	5·3	4·8	304	30	5·3	4·8	070	30	4·3	3·1	074	30	4·6	1·3	278	30	4·1	2·7	069
0·6 ,, .	30	6·3	5·5	291	30	9·0	6·7	304	30	6·0	5·1	080	30	4·8	4·0	095	30	5·4	2·8	265	30	3·7	1·4	087
0·9 ,, .	30	7·1	6·4	287	30	8·4	7·5	305	30	5·6	4·5	078	30	5·6	4·8	088	30	6·0	4·6	259	30	3·8	1·1	267
1·5 ,, .	30	7·5	7·2	283	30	8·2	5·6	291	30	4·0	1·2	057	24	4·4	1·3	235	25	6·6	6·2	256	29	6·4	6·0	275
2·1 ,, .	30	7·9	7·7	278	30	9·5	7·6	274	27	5·7	4·6	279	15	6·1	5·5	277	21	7·6	7·3	258	28	9·3	9·0	275
3·0 ,, .	26	10·9	10·5	280	26	9·5	8·9	268	18	10·7	10·5	273	8	7·2	6·8	281	15	9·9	9·2	275	12	11·0	10·7	274
3·6 ,, .	19	11·1	10·9	286	11	10·8	9·9	267	13	12·9	12·7	279	1	14·4	14·4	270	8	10·0	9·6	281	1	4·6	4·6	270
4·5 ,, .	12	13·5	13·2	292	4	12·7	12·4	293	6	16·1	15·7	276					3	17·1	17·1	278				
5·4 ,, .	3	9·4	9·0	288	2	11·8	6·6	279	1	14·9	14·9	280					1	12·4	12·4	290				
6·0 ,, .	2	17·2	16·2	296	1	10·8	10·8	265	1	13·9	13·9	281					1	19·6	19·6	285				
7·2 ,, .	1	21·6	21·6	251													1	20·1	20·1	275				
9·0 ,, .																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

April 1960 (CHAITRA 12—VAISAKHA 10,1882 SAKA)

Station	BAIRAGARH												BAJPE											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·0	1·2	031	30	3·1	1·9	294	30	2·8	1·2	339	30	1·6	1·2	095	30	4·7	4·1	298	30	1·6	0·8	344
0·15 a. g. .	30	8·1	3·1	037	30	4·8	2·9	303	30	7·8	4·1	350	30	2·9	1·6	023	30	6·3	5·5	285	29	4·1	2·1	312
0·3 a. m. s. l. .													30	2·8	1·8	003	30	6·5	5·6	287	29	4·6	2·1	313
0·6 „ .	30	7·3	2·7	037	30	4·4	2·9	297	30	7·3	3·9	350	30	3·0	2·1	329	30	4·7	4·0	297	29	4·5	2·0	311
0·9 „ .	30	8·4	3·7	031	30	5·1	3·3	296	30	7·5	4·2	343	30	3·0	1·7	319	30	3·4	2·5	311	29	4·0	1·3	305
1·5 „ .	30	5·7	1·9	327	30	5·0	3·4	286	30	5·2	3·1	313	28	3·8	1·3	007	27	3·6	2·2	049	24	3·8	0·5	149
2·1 „ .	30	6·7	4·3	280	30	5·6	3·8	274	30	4·9	2·9	270	24	5·1	3·0	072	25	5·7	4·5	071	22	4·5	3·7	085
3·0 „ .	28	8·1	6·3	269	29	7·2	5·5	260	26	6·8	5·5	249	21	7·6	7·1	070	22	8·0	6·9	080	17	7·8	7·3	074
3·6 „ .	10	7·9	7·1	248	28	8·2	6·5	259	11	6·2	4·5	237	12	8·1	7·5	076	20	7·9	6·8	082	11	8·3	7·8	075
4.5 „ .	2	10·6	10·5	260	25	11·9	10·2	270	3	9·6	9·0	258	5	6·1	5·2	107	18	5·5	4·0	100	4	4·1	2·6	088
5·4 „ .					24	14·3	13·3	269					1	1·0	1·0	215	15	5·5	3·1	063	1	5·7	5·7	250
6·0 „ .					23	15·5	14·4	265					1	1·5	1·5	300	12	5·3	2·3	035				
7·2 „ .					13	20·5	18·3	263									5	6·0	4·1	015				
9·0 „ .					4	23·3	22·1	256									1	5·7	5·7	275				

Station	BAMRAULI																BANGALORE							
Time in I. S. T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·2	0·8	277	30	3·3	2·4	285	30	4·7	3·7	309	30	1·1	0·8	313	30	2·3	1·0	210	30	3·9	3·1	109
0·15 a. g. .	30	6·8	4·1	319	30	5·0	4·0	292	29	7·4	6·6	300	30	7·9	6·2	324	30	4·4	2·3	196	28	6·0	5·2	111
0·3 a. m. s. l. .	30	6·8	4·2	321	30	5·2	4·1	291	29	7·4	6·7	300	30	8·2	6·6	328								
0·6 „ .	30	7·4	5·1	323	30	5·7	4·6	287	29	6·8	5·5	299	30	8·9	7·3	318								
0·9 „ .	30	8·2	5·5	310	30	6·3	5·2	293	29	7·1	5·8	293	30	8·5	7·1	310								
1·5 „ .	30	9·2	8·2	301	30	8·2	7·2	299	29	7·8	7·1	287	30	8·9	8·0	287	30	4·5	2·5	167	28	6·2	5·6	108
2·1 „ .	30	10·3	9·1	284	30	10·6	9·6	247	29	9·0	8·3	279	24	9·8	9·4	275	30	5·3	3·9	087	27	5·9	5·0	089
3·0 „ .	30	12·6	11·6	275	30	13·0	11·7	276	29	10·7	10·3	273	13	11·5	10·6	268	28	7·0	6·0	070	26	5·4	4·7	069
3.6 „ .	30	14·5	13·7	270	28	14·8	13·9	275	29	12·7	12·0	272	2	11·3	11·0	250	28	6·7	5·8	069	22	5·7	4·9	062
4·5 „ .	30	14·3	13·6	271	26	16·2	16·0	273	29	14·8	14·1	274					23	5·6	4·5	104	17	5·3	3·3	077
5·4 „ .	29	15·1	14·6	267	22	17·1	16·8	271	28	16·4	15·3	273					16	4·2	2·1	116	13	5·1	3·2	095
6·0 „ .	29	17·2	16·8	266	18	17·9	16·5	274	27	18·0	17·1	268					11	3·8	1·9	144	10	5·5	3·2	048
7·2 „ .	29	21·4	20·5	263	8	19·1	18·3	274	27	21·7	20·0	264					3	8·6	4·8	294	8	5·1	1·0	223
9·0 „ .	28	28·1	26·1	255	1	20·1	20·1	262	22	26·7	24·6	263					2	7·5	7·4	277	5	6·1	6·0	271

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

April 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Station	BANGALORE				BAREILLY								BEGUMPET											
Time in I.S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·7	2·3	134	30	2·2	1·4	307	30	4·0	2·7	318	30	1·4	0·1	138	30	3·0	1·1	095	30	2·8	2·3	134
0·15 a. g. .	28	7·2	5·6	145	30	8·2	6·2	317	30	8·8	7·1	306	30	4·9	1·9	180	30	4·5	2·2	107	30	7·0	5·5	132
0·3 a. m. s. l. .					30	7·6	5·7	313	30	8·2	6·6	306												
0·6 ,, .					30	11·1	9·0	313	30	10·4	7·7	298	30	3·3	1·0	158	30	4·0	1·6	110	30	4·5	3·2	128
0·9 ,, .					30	11·2	9·8	311	30	10·6	8·3	302	30	7·5	4·5	174	30	5·0	2·1	110	30	7·8	6·5	135
1·5 ,, .	28	7·7	6·5	132	30	10·5	9·6	306	30	9·9	8·4	292	30	6·6	4·4	155	30	4·4	2·8	115	30	5·4	4·2	131
2·1 ,, .	29	5·7	4·3	101	29	10·8	10·0	300	30	10·2	8·5	287	30	4·9	2·8	100	30	4·1	2·8	117	30	5·0	2·5	111
3·0 ,, .	27	6·1	5·1	061	23	11·0	10·0	291	28	11·7	10·5	284	30	5·9	3·7	063	29	4·3	2·4	108	30	5·1	2·0	018
3·6 ,, .	28	6·7	5·5	062	18	11·7	10·0	285	28	12·1	10·9	286	29	5·6	3·3	045	28	4·2	1·7	061	19	5·6	3·6	001
4·5 ,, .	26	6·4	5·5	087	11	14·6	13·3	278	22	13·5	12·7	289	28	4·7	1·1	052	24	4·2	0·7	315	6	3·3	0·9	294
5·4 ,, .	20	5·8	3·4	120	5	13·5	13·0	257	21	15·9	14·8	286	26	6·3	2·0	236	19	5·3	2·6	292	1	8·7	8·7	310
6·0 ,, .	14	4·8	2·3	162	4	13·5	6·9	266	16	18·4	17·1	280	26	7·2	3·5	253	18	6·3	3·0	300				
7·2 ,, .	5	4·4	2·1	199					8	20·0	18·8	269	17	10·1	7·5	271	16	7·6	5·6	266				
9·0 ,, .	1	4·1	4·1	280					3	19·0	16·2	251	4	19·2	17·6	261	11	12·4	10·2	256				

Station	BHAGALPUR												BHUBANESHWAR											
Time in I.S.T.	0530				1130				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·9	2·2	240	30	4·9	4·2	277	30	5·3	5·0	281	30	3·9	3·6	219	30	3·6	2·7	222	30	6·4	4·9	196
0·15 a. g. .	30	7·2	5·5	264	30	7·9	6·8	283	30	9·7	9·2	289	27	7·2	6·9	216	30	4·9	3·3	223	30	7·8	6·7	186
0·3 a. m.s. l. .	30	8·2	6·2	280	30	7·9	6·7	282	30	10·8	10·1	289	27	7·5	7·1	234	30	4·9	3·4	229	30	7·9	6·4	193
0·6 ,, .	30	11·1	9·9	301	29	8·1	6·9	282	30	11·9	11·4	286	27	7·8	6·9	239	30	4·7	3·3	237	30	5·7	4·3	195
0·9 ,, .	30	12·0	11·0	298	26	9·5	9·0	282	28	11·8	11·6	286	26	7·3	5·9	238	30	4·9	3·4	258	30	4·5	2·6	209
1·5 ,, .	30	14·3	13·7	291	19	9·2	8·8	281	23	11·5	10·8	280	25	4·8	3·4	275	30	5·2	3·8	281	30	3·9	1·9	281
2·1 ,, .	28	15·9	15·3	287	17	12·8	12·1	280	17	12·3	11·6	277	25	4·0	3·0	301	25	4·4	2·8	284	28	4·7	3·8	301
3·0 ,, .	20	17·0	16·3	283	9	16·6	15·6	278	14	15·5	15·1	283	23	4·9	3·4	306	13	3·9	2·3	307	27	6·1	5·1	308
3·6 ,, .	11	13·6	12·1	276					10	16·0	15·5	285	19	5·6	3·4	300					26	6·3	5·0	317
4·5 ,, .	2	11·6	11·5	241					10	13·9	13·5	287	11	4·8	2·9	306					23	6·7	4·9	295
5·4 ,, .	2	14·2	13·6	274					10	16·3	15·8	282	8	5·8	3·8	251					21	8·3	6·8	278
6·0 ,, .	2	21·1	21·1	272					10	17·6	17·3	285	5	8·0	7·4	252					21	9·6	8·2	269
7·2 ,, .									7	19·5	19·3	285	2	7·7	7·7	213					5	13·6	13·5	251
9·0 ,, .									2	30·3	30·2	281	2	11·1	10·9	241					2	15·4	15·4	244

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

April 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Station	BHUBANESHWAR				BHUJ												BIKANER							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	4·6	4·2	209	30	1·4	1·2	289	30	3·3	2·3	293	30	2·2	2·1	270	30	1·1	0·6	204	30	1·6	1·2	268
0·15 a. g. .	30	7·9	6·6	210	30	6·6	6·0	305	30	5·3	3·5	282	30	6·0	5·6	282	30	8·5	3·0	127	30	5·0	3·7	269
0·3 a. m. s. l. .	30	9·3	7·5	215	30	7·5	6·6	312	30	5·3	3·7	281	30	6·2	5·5	289	30	6·2	2·6	137	30	4·3	3·2	268
0·6 „ .	30	9·4	8·1	212	30	7·9	6·8	319	30	5.4	4·0	285	30	6·0	5·3	298	30	7·1	0·8	145	30	5·3	4·0	266
0·9 „ .	30	7·4	6·1	211	30	6·4	5·3	314	30	5·3	4·1	287	30	5·7	4·4	299	30	5·2	1·5	276	30	5·6	4·3	267
1·5 „ .	30	4·2	3·0	251	30	6·4	3·9	275	30	5·1	4·5	283	30	5·3	2·5	282	30	6·3	4·4	270	30	5·6	4·4	263
2·1 „ .	27	5·5	4·4	286	29	7·4	4·1	253	30	6·3	4·6	272	30	6·8	3·7	251	30	8·4	6·4	274	28	5·9	4·5	258
3·0 „ .	21	6·5	5·5	317	28	9·1	5·0	245	30	9·9	6·9	256	29	8·9	5·3	246	29	9·6	7·4	268	27	6·7	5·8	257
3·6 „ .	5	6·4	4·1	318	13	9·7	5·6	233	30	11·5	8·1	258	18	9·0	6·9	242	23	11·2	8·2	262	25	8·2	7·0	265
4·5 „ .					3	9·6	9·4	246	29	13·7	10·7	256	7	7·0	5·5	268	11	13·2	10·4	277	21	12·4	11·0	267
5.4 „ .									27	14·6	12·2	265					5	13·4	10·8	260	15	13·9	12·0	274
6·0 „ .									26	15·1	12·1	269					1	22·7	22·7	235	13	15·0	13·3	278
7·2 „ .									15	17·8	15·5	275					1	22·1	22·1	250	11	19·3	16·8	270
9·0 „ .									3	24·3	24.1	303									1	29·4	29·4	260

Station	BIKANER				CHIKALTHANA												COCHIN							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·4	0·5	316	30	2·3	2·0	296	30	2·5	1·2	316	30	2·8	2·2	317	30	1·9	1·5	084	30	4·3	1·5	278
0·15 a. g. .	30	8·0	3·4	348	30	5·6	3·4	327	30	3·9	1·7	297	30	6·7	4·2	340	30	3·1	1·5	084	18	4·6	3·7	275
0·3 a. m. s. l. .	30	5·8	2·2	358													30	2·8	0·7	068	18	5·0	3·8	269
0·6 „ .	30	7·7	3·3	338													30	3·0	1·0	320	18	4·2	2·3	279
0·9 „ .	30	6·7	3·0	320	30	6·9	4·2	295	30	4·0	1·6	301	30	7·6	4·9	346	30	3·1	0·6	033	18	3·0	1·1	299
1·5 „ .	28	5·1	3·3	264	30	6·3	2·9	335	30	3·3	1·9	310	30	6·2	3·9	355	30	3·4	1·6	079	18	4·5	3·2	070
2·1 „ .	26	5·9	4·9	251	33	4·4	0·3	158	30	3·3	1·5	316	30	4·6	1·5	035	29	4·7	3·3	073	16	5·3	4·3	072
3·0 „ .	22	7·3	6·6	255	30	4·7	1·8	172	30	3·8	1·3	296	30	4·2	1·5	148	20	7·6	6·9	070	15	6·8	5·4	082
3·6 „ .	13	9·2	8·6	272	25	6·0	1·6	207	29	3·8	0·9	278	25	4·6	1·5	168	12	7·8	7·1	070	12	8·2	6·2	086
4·5 „ .	4	11·3	11·3	287	3	5·0	4·7	269	22	5·5	2·7	274	10	5·4	1·0	270	4	6·2	2·5	052	7	7·9	6·8	093
5·4 „ .									16	6·7	4·8	272	2	3·9	2·9	325	1	3·6	3·6	130	4	6·7	4·9	042
6·0 „ .									13	9·1	6·5	278	1	12·9	12·9	275	1	3·1	3·1	150	3	7·2	5·8	186
7·2 „ .									10	12·7	10·7	268												
9·0 „ .									1	13·4	13·4	235												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

April 1960 (Chaitra 12—Vaisakha 10, 1882 Saka)

Station	COCHIN				DARJEELING								DEHRA DUN								DUM DUM			
Time in I. S. T.	2330				0530				1730				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·1	1·1	079	30	0·3	0·2	066	30	3·9	3·5	262	30	0·7	0·5	025	30	1·6	1·4	250	30	1·6	1·4	212
0·15 a. g.	14	3·5	1·0	088	20	2·2	1·0	187	9	3·2	3·1	226	30	1·9	1·1	038	30	4·8	3·9	253	30	6·6	5·4	236
0·3 a. m. s. l.	14	3·3	0·3	324																	30	6·4	5·6	247
0·6 ,,	14	3·1	1·9	283																	30	7·1	5·7	265
0·9 ,,	14	2·3	1·2	264									30	1·9	1·0	037	30	5·0	4·1	253	30	5·9	4·4	275
1·5 ,,	14	3·1	1·5	115									30	3·5	1·9	300	30	5·4	4·0	263	30	5·9	4·4	280
2·1 ,,	13	4·2	0·9	028									30	4·5	2·7	292	30	5·5	4·1	271	30	5·7	4·9	286
3·0 ,,	8	6·6	4·8	075	20	6·5	6·3	272	9	5·4	5·2	277	28	5·1	3·0	279	29	5·2	3·1	280	30	7·9	7·3	291
3·6 ,,	5	5·6	2·6	108	17	13·8	13·6	277	7	6·8	6·6	294	24	5·8	4·0	276	28	5·9	3·4	295	28	8·8	8·4	285
4·5 ,,	2	2·8	1·1	3 5	3	14.4	14·3	277	1	10·8	10·8	285	10	7·1	5·3	285	21	7·3	5·9	310	28	9·4	8·8	278
5·4 ,,	1	3·1	3·1	045	1	13·4	13·4	265	1	22·1	22·1	265	5	7·2	6·7	267	16	9·9	8·9	293	28	9·6	9·2	272
6·0 ,,	1	3·6	3 6	050									4	8·5	8·0	264	13	12·4	11·0	285	28	11·1	8·1	268
7·2 ,,													1	16·0	16·0	285	7	16·0	14·0	291	28	14·6	13·6	264
9·0 ,,																	1	25·2	25.2	265	26	19·3	18·5	258

Station	DUM DUM												GADAG											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·5	0·9	230	30	2·2	1·6	212	30	2·5	2·3	209	30	3·0	2·4	223	30	3·5	1·7	065	30	4·5	2·3	254
0·15 a. g.	30	2·8	1·5	250	30	5·0	3·9	209	30	7·8	7·7	213	30	5·8	3·5	235	30	5·3	2·3	074	30	7·8	3·0	255
0·3 a. m. s. l.	30	3·0	1·9	255	30	4·8	3·7	218	30	8·3	8·1	219												
0·6 ,,	30	3·2	2·4	278	30	4·4	2·9	235	30	6·8	6·2	232												
0·9 ,,	30	3·7	2·8	287	30	3·8	2·7	271	30	5·3	4·4	250	30	5·9	1·1	245	30	5·3	2·4	073	30	7·9	2·5	264
1·5 ,,	30	4·5	4·0	290	30	4·6	4·1	284	30	5·3	4·2	290	30	7·1	3·5	072	30	5·3	3·0	079	30	6·4	2·3	075
2·1 ,,	30	6·8	6·2	283	30	6·3	5·8	296	30	7·3	6·7	303	29	6·5	4·3	075	30	5·1	3·4	071	30	6·8	5·3	081
3·0 ,,	30	10·0	9·4	287	30	9·4	8·5	293	28	10·8	10·5	298	28	6·0	5·1	069	29	6·2	4·3	076	28	6·8	6·0	073
3·6 ,,	29	12·3	11·7	290	30	10 4	9·6	246	11	11·0	10·0	294	24	6·4	5·8	065	27	6·1	4·6	076	25	7·2	6·3	069
4·5 ,,	26	11·7	11·0	290	30	10·6	9·9	289	1	19·0	19·0	275	21	5·1	3·2	086	18	5·1	3·5	077	14	5·5	4·5	080
5·4 ,,	23	13·0	12·3	290	30	12·1	11·7	278					17	5·9	1·7	006	13	4·1	2·0	066	7	4·6	2·6	008
6·0 ,,	22	14·3	13·6	280	30	13·6	13·1	273					15	5·8	0·8	007	12	4·3	1·6	091	6	4·7	2·4	307
7·2 ,,	3	17 5	12·2	268	30	15·4	14·0	267					12	6·4	2·6	278	8	4·6	2·0	220	5	7·3	5·6	299
9·0 ,,					29	19·5	19·2	260					6	12·0	11·6	274	4	7·2	6·2	254				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

April 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Station	GANNAVARAM												GAUHATI											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·8	0·5	154	30	3·8	3·2	153	30	2·3	2·0	166	30	0·8	0·4	036	30	3·6	1·5	286	30	2·3	1·0	263
0·15 a. g.	30	3·4	3·0	181	30	4·2	3.8	161	30	4·7	4·1	169	30	2·9	0·7	066	30	4·4	2·1	296	30	5·8	3·2	268
0·3 a. m. s. l.	30	4·9	4·6	191	30	4·3	3·9	160	30	5·1	4·6	172	30	3·1	0·6	054	30	4·4	2·2	295	30	5·9	2·3	275
0·6 ,,	30	5·7	5·4	193	30	4·1	3·9	162	30	4·9	3·9	166	30	4·7	1·5	256	30	4·4	2·7	272	30	6·6	4·0	260
0·9 ,,	30	5·0	4·3	190	30	3·4	3 0	160	30	4·1	2·7	149	30	5·9	3·7	260	30	5·0	4·2	256	30	7·0	5·5	251
1 5 ,,	28	5·1	3·7	141	30	3·5	2·0	110	30	5·0	3·0	114	30	9·6	9·3	259	30	9·3	9·1	247	30	9·4	8·4	250
2·1 ,,	27	5·0	3·9	091	30	6·1	4·3	081	30	5·8	4·3	086	29	11·8	11·4	262	30	12·7	12·4	251	29	11·8	11·3	253
3·0 ,,	26	5·1	3·8	066	30	6·9	5·7	072	30	5·3	4·3	077	29	16·9	16·7	268	26	16·8	16·4	259	29	15·8	15·4	262
3·6 ,,	26	5·0	2·9	062	30	6·1	4·6	069	26	4·5	2·8	067	28	19·6	19·4	271	25	19·2	19·0	263	29	17·1	16·9	268
4·5 ,,	24	4·4	1·5	016	28	4·7	1·1	046	18	3·8	0·5	031	28	21·4	21·1	276	21	20·0	19·9	268	29	20·1	19·9	274
5·4 ,,	21	5·3	1·3	267	27	5·5	2·5	261	15	5·5	2·0	248	28	22·0	21·6	279	19	20·5	20·3	269	29	21·0	20·6	276
6·0 ,,	16	6·3	3·5	262	25	5·8	2·7	261	12	5·8	2·9	235	28	21·5	21·0	278	17	20·4	20·1	269	29	22·4	21·8	276
7·2 ,,	7	7·4	6·5	226	20	8·1	4·0	256	1	6·7	6·7	270	28	23·4	22·5	274	6	19·2	18·0	270	29	25·2	24·6	275
9·0 ,,	3	8·9	8·8	231	15	10·5	8·9	248					23	28·8	28·1	265	1	19·6	19.6	290	22	27·0	25·3	268

Station	GAUHATI				GAYA																GOPALPUR			
Time in I. S. T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·8	0·1	241	30	2·1	1·6	232	30	6·4	4·9	270	30	6·5	5·3	296	30	2·6	0·9	221	30	4.4	4·2	210
0·15 a. g.	30	5·1	1·7	164	30	6·7	5·2	266	30	6·5	5·7	276	30	7·6	6·6	298	29	7·8	6·3	309	30	8·9	8·5	216
0·3 a. m. s. l.	30	5·6	2·1	186	30	7·1	5·4	277	30	6·3	5·5	279	30	7·6	6·6	298	29	8·1	6·4	311	30	7·6	7·2	225
0·6 ,,	30	5·9	3·1	218	30	9·2	6·9	304	30	6·8	6·2	280	30	8·9	7·9	296	29	9·0	7·2	311	30	5·8	5·2	231
0·9 ,,	30	6·7	5·3	242	30	9·7	8·0	301	30	7·6	6·4	284	30	9·4	8·4	296	29	9·0	7·5	305	30	5·9	4·7	233
1·5 ,,	24	8·6	7·8	254	30	10·1	9·1	296	26	8·2	8·0	286	30	9·3	8·9	291	27	9·3	8·5	291	30	4·4	2·6	243
2·1 ,,	20	10·2	9·8	255	28	9·8	9·7	292	17	11·0	10·2	281	29	10·2	9·1	286	17	10·4	9·4	280	30	3·7	1·2	282
3·0 ,,	10	10·8	10·6	258	18	12·3	11·2	277	6	9·4	7·6	282	28	12·0	11·5	280	1	14·9	14·9	255	29	4·6	2·5	211
3·6 ,,	1	12·9	12·9	265	6	13·3	11·3	277					27	14·1	13·3	280					23	4·1	1·9	344
4·5 ,,	1	12·4	12·4	250	1	8·7	8·7	295					19	15·2	14·3	274					20	5·2	1·0	289
5·4 ,,					1	10·8	10·8	305					10	18·8	18·1	277					15	7·1	4·3	260
6·0 ,,													5	18·4	17·8	288					12	9·6	6·5	243
7·2 ,,																					8	10·6	8·3	235
9·0 ,,																					1	14·4	14·4	245

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

April 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I. S. T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	7·3	7·3	205	30	6·5	5·7	205	30	2·8	2·0	299	30	3·7	3·1	278	30	1·1	0·5	284	30	3·2	2·4	308
0·15 a. g.	30	11·6	11·2	202	30	10·4	9.1	215	30	10·5	8·4	300	30	8·8	7·2	288	30	5·8	2·8	347	30	6·1	5·0	315
0·3 a. m. s. l.	30	10·4	9·6	202	30	10·0	8·3	216	30	11·7	9·6	305	30	9·8	7·8	287	30	4·2	2·0	321	30	5·3	4·5	316
0·6 ,,	29	6·5	5·4	199	30	7.5	5·5	217	30	12·4	10·7	299	30	12·5	10·7	286	30	7·1	4·2	345	30	6·9	5·6	312
0·9 ,,	30	3·7	1·9	180	30	5·3	3·7	217	30	13·1	11·9	294	30	12·9	11·7	287	30	7·4	5·1	331	30	6·8	5·6	309
1·5 ,,	30	2·6	0.5	360	30	3·3	1·5	197	30	15·0	14·5	290	29	13·8	12·9	282	30	7·9	6·4	304	30	6·5	5·6	297
2·1 ,,	29	3·9	1·5	332	29	3·3	1·3	358	29	15·1	14·7	288	28	15·4	14·8	282	30	8·9	7·7	287	29	6·8	6·0	288
3·0 ,,	28	5·1	3·2	336	27	4·6	2·7	330	18	15·4	15·0	286	21	16·5	15·7	284	30	11·5	5·9	273	29	9·5	8·6	270
3·6 ,,	25	6·0	4·3	332	14	5·3	3·2	326	8	15·1	14·5	286	14	16·3	15·5	282	30	13·0	11·1	265	28	11·7	10·6	269
4·5 ,,	22	6·1	4·6	302	6	6·7	5·1	278	5	15·6	15·4	272	12	17·1	16·2	280	26	15·4	13·6	262	25	15·4	14·0	269
5·4 ,,	19	7·8	5·6	273	2	9·8	8·7	241	2	18·8	17·5	265	8	15·6	15·1	285	22	16·4	15·2	268	21	16·5	15·6	268
6·0 ,,	19	8·9	7·2	275	2	10·3	9·7	238	1	17·0	17·0	280	8	18·0	17·4	284	21	17·9	17·1	263	20	17·5	16·6	270
7·2 ,,	16	12·4	10·8	264									7	21·2	20·6	283	14	21·2	19·4	263	15	20·6	19·0	266
9·0 ,,	6	14·8	13·7	258									3	23·3	21·8	279	3	24·2	23·7	252	8	23·2	21·1	255

Station	GWALIOR				IMPHAL																JABALPUR			
Time in I. S. T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·0	0·6	292	30	1·3	1·1	224	30	6·1	5·8	231	30	3·6	3·3	233	30	1·2	1·0	251	30	0·9	0·7	163
0·15 a. g.	30	6·7	4·2	349	29	3·3	2·2	231	30	6·7	6·4	244	28	6·1	6·0	256	27	3·5	2·6	251	30	5·5	2·3	097
0·3 a. m. s. l.	30	5·0	3·0	347																				
0·6 ,,	30	7·2	4·9	342																	30	6·5	3·1	078
0·9 ,,	30	6·8	4·6	323	29	3·1	2·1	223	30	6·7	6·5	240	28	5·6	5·5	254	27	2·9	2·3	241	30	6·9	3·1	056
1·5 ,,	30	7·1	5·6	288	29	6·1	5·8	267	30	8·5	8·4	259	28	8·9	8·6	265	27	6·3	6·1	266	30	5·4	1·6	344
2·1 ,,	30	8·3	7·5	278	26	10·6	10·2	272	19	9·2	8·7	262	28	10·4	10·1	266	27	10·5	9·7	270	30	6·5	4·3	283
3·0 ,,	27	10·7	9·8	263	12	12·7	12·4	275	1	20·1	20·1	255	22	11·8	11·2	273	16	11·5	10·9	278	30	8·5	7·4	271
3·6 ,,	15	11·1	10·4	260	6	10·9	10·8	280					15	12·4	12·0	279					28	10·1	8·9	270
4·5 ,,					2	12·4	12·4	270					6	11·9	11·7	272					22	10·4	9·4	266
5·4 ,,					1	16·0	16·0	280													6	8·3	8·1	280
6·0 ,,																					5	8·6	8·5	274
7·2 ,,																					3	14·1	13·4	271
9·0 ,,																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

April 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Station	JABALPUR								JAGDALPUR												JAIPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·3	1·0	315	30	1·3	0·8	090	30	0·4	0·4	201	30	1·1	0·4	255	30	1·2	0·9	206	30	2·1	0·7	010
0·15 a. g. .	30	4·6	2·5	296	30	7·3	2·6	049	30	5·3	4·1	205	29	2·6	1·3	262	30	6·3	2·8	219	29	6·5	3·7	009
0·3 a. m. s. l. .																								
0·6 ,, .	30	4·7	2·5	300	30	7·9	2·5	036	30	2·8	2·1	208	29	1·9	1·0	261	30	4·6	2·2	216	29	7·4	4·0	003
0·9 ,, .	30	5·2	2·8	297	30	7·8	2·6	003	30	6·5	5·1	224	29	3·2	1·3	268	30	6·2	2·5	231	29	6·3	3·9	332
1·5 ,, .	30	4·8	3·0	293	29	5·8	3·2	324	30	3·7	2·2	252	29	2·9	1·2	302	30	4·2	1·9	275	29	6·8	5·6	295
2·1 ,, .	30	5·2	4·2	284	29	5·6	3·9	290	30	3·9	1·4	337	29	3·4	1·2	305	28	3·8	2·2	317	27	7·7	6·7	284
3·0 ,, .	30	7·4	6·5	274	28	6.8	5·8	268	30	4·8	1·5	011	28	4·4	1·0	356	26	4·0	2·3	336	25	11·0	8·9	265
3·6 ,, .	29	8·6	7·3	269	19	8·7	7·3	261	28	5·1	2·3	011	26	4·3	1·5	025	16	4·8	3·4	004	17	11·7	10·4	270
4·5 ,, .	28	11·1	9·6	274	4	9·0	7·3	259	19	4·6	1·0	284	22	4·2	2·7	319	4	5·1	2·2	343	3	9·3	9·3	276
5·4 ,, .	27	13·9	13.0	276	1	3·6	3·6	295	13	6·9	3·8	243	16	7·3	6·0	295								
6·0 ,, .	25	15·1	14·3	275					13	8·4	5·9	238	15	9·8	7·9	285								
7·2 ,, .	16	18·0	16·6	266					5	8·7	7·4	226	10	12·6	10·0	272								
9·0 ,, .	5	25·9	24·3	262									3	16·0	14·6	255								

Station	JAIPUR								JAMSHEDPUR												JHARSUGUDA			
Time in I. S. T.	1730				2330				0530				1130				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·3	2·3	295	30	2.0	1·2	009	30	1·2	1·1	299	30	2·3	1·6	289	30	2·2	1·3	283	30	1·5	0·4	081
0·15 a. g. .	30	5·9	4·3	281	30	6·4	3·3	331	30	4·0	3·2	281	30	3·5	2·4	294	30	3·7	2·1	293	30	4·6	1·4	081
0·3 a. m. s. l. .									30	4·1	3·0	275	30	3·5	2·3	297	30	3·7	2·1	293	30	4·4	1·3	093
0·6 ,, .	30	5·9	4·3	280	30	6·9	3·4	350	30	5·3	3·5	285	30	4·3	2·7	289	30	4·3	2·9	282	30	5·6	1·3	004
0·9 ,, .	30	5·6	4·3	283	30	6·8	3·8	324	30	5·7	3·9	304	30	4·3	2·8	292	30	4·5	3·3	283	30	5·5	0·8	341
1·5 ,, .	29	5·9	4·7	275	30	5·5	3·7	287	29	6·0	4·8	301	30	5·1	3·5	293	30	4·5	3·7	280	30	5·1	2·4	312
2·1 ,, .	29	6·5	5·0	273	30	5·9	5·0	260	29	6·8	5·6	281	28	6·7	5·2	278	29	4·9	4·3	284	30	5·1	4·3	286
3·0 ,, .	28	9·1	7·8	264	27	8·5	7·2	261	28	9·9	9·3	277	13	8·5	6·7	273	27	8·1	7·6	288	28	6·6	6·2	277
3·6 ,, .	26	11·5	10·2	263	21	10·9	9·2	259	26	10·6	10·0	281					27	9·9	9·4	289	25	8·9	6·9	279
4·5 ,, .	21	13·6	12·3	268	4	12·5	11·3	263	17	11·1	10·6	290					23	12·0	11·4	286	6	9·3	8·6	279
5·4 ,, .	19	16·9	15·5	272	2	10·3	9·6	266	9	9·3	9·1	281					20	14·9	14·4	279				
6·0 ,, .	14	19·6	18·5	271					3	8·2	7·6	265					17	15·0	14·2	274				
7·2 ,, .	11	18·7	17·1	270					1	6·2	6·2	256					6	14·5	14·1	267				
9·0 ,, .	3	23·8	22·7	268													1	10·3	10·3	280				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

April 1960 (Chaitra 12—Vaisakha 10, 1882 Saka)

Station	JHARSUGUDA								JODHPUR															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·0	1·5	258	30	2·0	0·7	250	30	2·1	0·8	343	30	2·2	0·6	252	30	3·2	2·3	269	30	2·3	1·2	305
0·15 a. g.	30	3·9	2·8	253	30	6·6	3·0	237	28	7·6	2·6	335	30	3·0	0·9	244	29	6·4	4.5	196	30	6·9	3·4	295
0·3 a. m. s. l.	30	3·9	2·7	253	30	5·8	2·7	245	28	5·1	2·2	337	30	2·6	0·9	245	30	5·5	3·9	288	30	5·5	2·6	298
0·6 ,,	30	4·3	3·0	257	30	6·8	3·4	268	29	6·7	1·9	345	30	3·8	1·2	213	30	6·0	4·7	279	30	6·9	3·9	287
0·9 ,,	30	4·4	3·3	270	30	6·3	4·1	277	30	6·2	2·0	283	30	4·3	1·7	238	30	6·0	4·7	260	30	5·7	3·8	279
1·5 ,,	30	4·4	3·8	279	30	5·6	4·1	287	30	6·7	4·4	274	30	5·6	3·1	252	30	6·5	5.0	253	30	5·5	4·6	262
2·1 ,,	30	4·9	4·4	295	30	4·5	3·8	298	30	7·7	5·8	265	30	7·1	4·8	253	30	6·6	5·3	250	29	5·7	4·8	253
3·0 ,,	30	6·7	5·6	302	28	4·2	3·0	300	30	10·1	7·7	255	29	9·3	7·0	247	29	8·0	6·7	247	25	7·4	5·5	254
3·6 ,,	27	7·2	5·9	303	19	5·3	4·0	313	30	11·4	8·6	256	26	10·5	7·7	350	29	9·6	8·1	252	7	8·2	7·3	282
4·5 ,,	23	7·7	6·9	292					29	14·8	12·5	249	22	12·8	11·2	266	28	13·3	10·9	258	1	10·8	10·8	274
5·4 ,,	9	11·9	11·0	288					29	17·5	15·3	257	21	16·9	14·9	270	26	16·8	14·3	260				
6·0 ,,									28	18·5	16·0	260	17	17·4	17·1	270	25	17·4	14·8	261				
7·2 ,,									27	21·2	19·8	261	10	20·1	18·6	266	25	20·1	17·0	262				
9·0 ,,									25	29·0	25·6	267	2	29.3	29·3	260	21	26·0	24·1	259				

Station	MADRAS																MINICOY							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·6	1·3	182	30	3·7	2·6	144	30	5·2	4·6	134	30	3·6	3·3	158	30	2·1	0·4	019	30	2·0	1.0	336
0·15 a. g.	30	5·5	4·7	193	30	3·9	3·1	151	30	7·5	6·9	141	30	5·8	5·6	157	28	3·5	1·0	321	30	4·0	1·4	347
0·3 a. m. s. l.	30	5·3	4·3	193	30	4·4	3·6	165	30	6·9	6·5	147	30	6·3	6·0	160	28	3·4	0·9	340	30	3·6	1·9	340
0·6 ,,	30	5·3	4·8	193	30	3·9	3·3	179	30	5·4	4·9	153	30	5·3	4·9	159	28	3·4	0·9	020	30	3 7	1·5	352
0·9 ,,	30	5·2	4·8	189	30	3·9	3·1	178	30	4·2	3·3	147	30	4·4	3.7	146	28	3·4	1·2	068	30	3·9	1·0	027
1·5 ,,	30	5·3	3·9	137	29	4·7	3·5	122	30	4·1	2·6	097	29	4·1	3·4	100	25	4·8	3·8	080	29	4·4	2·7	069
2·1 ,,	30	5·4	4·5	094	28	6·2	5·2	082	30	5·4	4·2	075	29	5·0	4·2	086	24	6·0	5·1	085	27	5·3	4·2	081
3·0 ,,	30	7·1	5·8	075	25	7·8	6·6	073	30	7·2	6·2	065	27	5·3	4·3	071	23	6·0	2·6	078	23	6·7	5·1	071
3·6 ,,	30	7·0	5·5	070	23	7·7	6·6	075	30	6·4	5·5	074	18	4·7	3·7	063	21	5·6	4·2	084	21	5·1	3·4	079
4·5 ,,	30	5·4	4·5	076	23	5·7	4·6	095	30	5·0	3·8	091	7	4·1	3·1	067	17	5·8	3·9	083	19	4·0	1·8	057
5 4 ,,	29	5·1	3·9	095	20	6·2	4·6	116	30	5·2	2·6	116	1	3·6	3·6	095	14	5·5	4·0	067	17	3·7	0·8	038
6·0 ,,	29	5·5	3·5	105	18	6·4	4·7	120	30	5·0	1·8	112					10	6·2	3·5	075	14	4·0	1·3	013
7·2 ,,	29	6·7	3·1	158	12	5·3	3·5	165	29	5·0	1·1	128					1	4·6	4·6	290	9	3·2	1·7	331
9·0 ,,	27	6·2	3·6	230	4	5·4	2·6	242	21	5·8	3·1	222									5	4·3	1·9	340

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

April 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Station	MINICOY				MOHANBARI																NAGPUR			
Time in I. S. T.	2330				0530				1130				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·2	1·2	030	30	1·3	1·3	043	30	1.5	1·5	047	30	1·9	1·6	042	30	1·2	1·0	047	30	1·2	0·9	337
0·15 a. g.	29	3·3	1·6	340	29	5·7	5·1	053	30	4·1	3·9	048	28	4·9	4.3	043	28	5·5	4·8	042	30	6·1	1·2	010
0·3 a. m. s. l.	29	3·3	1·6	355	29	5·9	5·5	052	30	4·1	3·9	048	28	5·3	4·6	046	28	5·3	4·8	043				
0·6 ,,	29	3·2	1·5	008	29	6·0	4·5	056	30	4·1	3·5	055	28	5·3	4·4	060	28	5·1	4·0	057	30	6·4	0·8	062
0·9 ,,	29	3·2	1·5	050	29	5·3	2·8	080	29	3·7	1·9	081	28	4·2	2·3	054	25	4·6	2·3	094	30	6·6	0·6	118
1·5 ,,	29	4·1	3·2	076	28	5·4	3·3	202	27	5·3	4·1	225	27	5·1	4·5	254	24	4·3	2·8	209	30	5·6	1·8	243
2·1 ,,	28	6·1	5·5	081	25	6·5	6·2	235	19	7·5	6·8	222	26	9·7	9·4	237	15	6·5	6·0	242	30	5·5	2·0	269
3·0 ,,	26	7·1	6·5	084	13	8·7	8·2	248	8	9·8	9·6	237	22	13·8	13·4	233	9	10·5	10·4	248	30	5·6	3·1	258
3·6 ,,	18	5·3	4·6	086	10	9·9	9·7	240					14	13·0	12·7	237	4	12·6	12·3	251	30	6·8	3·7	271
4·5 ,,	6	4·0	1·7	093	4	16·3	15·9	253					6	13·1	13.0	243					30	7·4	4·8	270
5·4 ,,					2	19·0	19·0	264					4	21·2	21·2	259					30	9·8	8·6	270
6·0 ,,													4	23·7	23·4	258					30	11.5	10·0	258
7·2 ,,													1	23·2	23·2	270					30	15·4	13·4	261
9·0 ,,																					28	22·1	19·6	259

Station	NAGPUR												NANPARA								NEW DELHI			
Time in I. S. T.	1130				1730*				2330				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·2	0·7	230	30	2·4	0·8	285	30	1·6	0·5	356	30	1·6	1·2	291	30	3·4	2·7	277	30	2·6	1·4	295
0·15 a. g.	30	4·0	1·8	238	30	5·3	1·8	277	30	6·1	0·8	114	30	8·4	7·3	314	30	7·4	5·9	297	30	7·4	4·8	331
·3 a. m. s. l.													30	8·5	7·5	314	30	7.4	5·8	296	30	6·7	4·8	330
0·6 ,,	30	4·1	1·6	227	30	5·0	1·5	265	30	6·1	1·0	137	29	10·3	9·7	309	30	9·2	7·6	295	30	7·3	4·9	330
0·9 ,,	30	4·0	1·7	230	30	4·2	1·1	232	30	5·3	1·0	189	29	11·4	10·3	305	29	10·1	9·2	292	30	7·3	5·3	317
1·5 ,,	30	4·5	2·2	248	30	4·0	1·5	244	29	4·2	1·2	252	29	12·0	11·3	302	29	10·4	9·9	289	30	8·2	6·7	300
2·1 ,,	30	4·4	1·6	239	30	4·4	2·7	253	29	4·0	2·0	280	29	11·9	11·5	297	29	11·0	10·7	289	30	10·8	9·3	297
3·0 ,,	28	5·4	2·4	264	30	4·6	3·2	261	26	4·9	2·6	290	20	10·7	10·5	291	29	11·8	11·4	293	30	13·0	10·9	279
3·6 ,,	27	6·0	3·0	262	30	5·8	4·7	274	15	6·3	1·4	304	13	12·2	11·8	287	28	12·3	11·6	295	30	13·7	11·7	277
4·5 ,,	23	8·6	5·6	280	30	7·2	5·1	282	7	6·9	4·1	285	5	11·4	11·3	279	25	12·8	12·4	293	30	13·9	12·1	270
5·4 ,,	20	9·9	8·2	278	30	9·5	8·4	277	3	5·3	5·3	288	4	12·0	11·7	279	21	14·1	13·6	285	30	16·0	14·6	270
6·0 ,,	20	11·8	9·7	272	30	10·7	8·8	269	2	8·0	8·0	270	2	12·6	12·6	273	19	16·9	16·5	285	30	17·8	16·4	267
7·2 ,,	20	14·4	12·4	275	30	14·9	13·2	256	1	13·4	13·4	260					12	23·0	22·4	277	30	22·1	21·3	268
9·0 ,,	12	16·4	14·0	264	29	21·8	20·0	254									6	24·7	23·4	271	29	26·6	24·9	265

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

April 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Station	NEW DELHI												POONA											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	4·7	3·1	309	30	3·0	2·2	304	30	3.0	2·5	347	30	0·5	0·4	236	30	1·8	1·5	290	30	1·1	0·9	252
0·15 a. g. .	30	5·3	4·1	309	30	7·2	5·3	319	30	7·4	5·9	348	30	3·1	2·3	287	30	4·7	3·2	291	30	4·7	3·0	280
0·3 a. m. s. l. .	29	4·9	4·0	314	30	6·5	4·8	318	30	5·8	4·4	345												
0·6 ,, .	29	5·8	4·4	303	30	6·9	5·3	314	30	7·5	5·9	341	30	1·7	1·4	242	30	3·1	2·2	293	30	2·6	2·1	256
0·9 ,, .	29	6·8	5·5	302	30	6·7	5·4	310	30	7·0	5·8	321	30	4·2	2·9	328	30	4·9	3·4	291	30	5·8	5·0	300
1·5 ,, .	29	7·6	6·7	302	30	7·2	6·1	304	30	7·1	6·2	295	30	6·1	3·9	019	30	4·1	2·7	308	30	6·4	4·8	333
2·1 ,, .	29	9·0	7·4	298	30	7·7	6·5	295	28	8·8	7·8	280	30	4·1	2·1	056	30	3·2	1·7	347	30	4·7	2·7	037
3·0 ,, .	29	11·3	9·5	286	30	9·9	8·5	279	22	11·0	10·1	273	30	4·2	2·7	145	29	3·8	1·5	085	30	5·8	4·3	101
3·6 ,, .	26	13·1	11·5	282	30	11·8	10·4	273	2	10·0	10·0	240	23	5·0	2·4	127	27	4·3	2·1	101	27	6·1	4·8	118
4·5 ,, .	25	15·5	13·5	284	29	13·9	12.4	274					10	6·3	2·6	314	20	4·3	0·1	085	12	5·5	2·1	303
5·4 ,, .	23	18·5	17·0	281	20	15·7	14·4	273									18	5·2	3.0	296	4	7·2	3·2	260
6·0 ,, .	18	21·1	19·8	283	29	17·3	15·9	272									18	6.8	4.7	284	2	8·5	8·5	266
7·2 ,, .	8	21·7	19.3	282	29	20.1	18·8	268									17	11·6	9.4	281				
9·0 ,, .	1	26·2	26·2	265	28	25·3	23·9	267									11	17·2	15.1	274				

Station	PORT BLAIR																RAIPUR							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	0·9	0·5	309	30	1·9	1·5	075	30	1·3	0·3	111	30	1.3	0·5	335	30	2·7	1·3	267	30	1·6	0·6	265
0·15 a. g. .	29	4·0	2·1	349	30	2·8	2.2	073	30	4·0	0·9	069	30	3·2	1·3	352	29	6·2	1·9	279	30	3·8	2·2	281
0·3 a.m. s. l. .	29	4·1	2·1	351	30	2·9	2·0	057	30	3·7	0·9	037	30	3·3	1.4	360								
0·6 ,, .	29	4·1	1·1	314	30	2·9	1·0	028	30	3·7	0·9	005	30	3·2	1·0	013	29	6·6	1·9	295	30	4·1	2·7	278
0·9 ,, .	29	4·1	0·9	074	30	3·4	0·4	046	30	3·0	0·7	024	30	2·6	1·3	072	29	6·2	1·5	325	30	4·0	2·7	275
1·5 ,, .	29	3·3	1·8	100	27	4·1	2·5	104	30	4·1	2·3	064	30	3·3	2·2	084	29	4·2	0·9	289	30	4·5	3·3	270
2·1 ,, .	29	4·9	3·8	087	24	4·7	3·4	097	30	5·0	2·3	057	27	4·3	3·3	078	28	3·9	1·2	265	29	4·7	4·0	277
3·0 ,, .	29	4·7	4·2	090	21	4·4	3·4	079	30	5·0	4·0	078	23	4·9	4·1	081	26	5·3	3·0	275	28	5·9	4·7	289
3·6 ,, .	28	5·3	4·4	085	20	4·4	3·3	081	30	5·3	4·2	077	17	4·5	3·5	081	11	4·7	3·3	255	27	6·2	4·2	297
4·5 ,, .	28	6·0	4·4	088	19	5·3	4·2	076	29	5·1	4·0	067	10	4·0	2·9	092					25	6·9	5·2	284
5·4 ,, .	28	6·1	4·6	092	18	5·6	4·4	086	28	5·7	4·1	088	1	2·6	2·6	200					21	9.9	8.2	280
6·0 ,, .	28	7.1	4·5	089	15	6·9	5·4	087	28	6·3	4·6	092	1	1·5	1·5	280					16	11.8	10.1	273
7·2 ,, .	28	6.9	4·4	087	10	7·8	7·2	094	27	6·7	4·7	093									6	14.4	13.4	269
9·0 ,, .	24	6·3	3.2	097	4	8·2	7·1	101	23	5·9	3·1	115												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

April 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Station	RAIPUR				RAXAUL												SANTA CRUZ							
Time in I.S.T.	2330				0530				1130				1730				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	3·0	1·3	216	30	0·6	0.1	111	30	2·6	1·1	265	30	2.3	2·2	273	30	0·7	0·3	059	30	3·0	2·3	271
0·15 a. g. .	30	5·3	1·6	229	30	7·6	3·1	292	30	6·4	2·3	266	30	8·0	7·5	274	30	5·0	2·9	005	30	3·3	1·8	285
0·3 a. m. s. l. .					30	8.4	3.7	296	30	6·5	2·6	268	30	8·5	7·9	275	30	5·1	3·1	007	30	3·4	1·1	349
0·6 ,, .	30	5·5	1·6	236	30	10·2	6·4	289	30	6·9	3·7	274	30	9·8	9·6	276	30	6·1	4·4	007	30	3·9	3·0	038
0·9 ,, .	30	4·9	1·4	246	30	10·2	8·3	286	28	7·2	4·1	267	29	10·3	10·0	277	30	7·3	6·4	013	30	4·8	3·8	035
1·5 ,, .	30	4·4	2·2	270	25	8·9	8·4	281	15	7·0	6·8	274	22	9·4	9·0	278	30	7·1	6·3	001	30	4·7	2·4	020
2·1 ,, .	30	4·8	2·8	288	19	9·2	8·8	281	13	8·7	8·3	277	15	8·7	8·3	286	29	5·6	3·0	347	30	4·8	0·1	229
3·0 ,, .	30	5·8	3·9	305	10	12·0	11·4	281	6	10·4	10·1	266	9	9·8	9·3	283	29	6.1	3·2	184	29	5·0	2·7	178
3·6 ,, .	12	6·4	4·0	300	6	14·3	13·3	279					7	12·5	10·4	279	29	7·5	6·7	209	29	5·8	3·8	172
4·5 ,, .					3	15·2	13·2	293					6	13·7	7·2	282	29	6·0	3·0	186	28	5·7	2·7	191
5·4 ,, .					2	19.6	19·6	287					6	15.5	8·3	281	29	7·9	4·4	246	27	7·4	4·1	253
6·0 ,, .													3	15·7	15·7	278	29	9·0	6·4	271	27	8·5	6·0	260
7·2 ,, .													1	25·2	25·2	270	27	12·8	7.1	271	24	11·7	9·2	255
9·0 ,, .																	25	19·9	16·5	257	12	18·2	15·3	255

Station	SANTA CRUZ								TEZPUR															
Time in I.S.T.	1730*				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5·5	5·1	319	30	2·3	1·5	318	30	1·7	1·3	088	30	8·3	1·5	086	30	1·6	0·8	080	30	2·2	1·4	072
0·15 a. g. .	30	7·5	6·8	314	30	5·3	3·5	327	30	8·0	6·7	073	30	6·6	4·1	082	30	6·4	0·9	076	29	8·7	5·5	084
0·3 a. m. s. l. .	30	7·3	6·2	314	30	5·5	4·1	341	30	9·2	7·7	084	30	7·2	4·6	082	30	7·5	0·6	075	29	8·2	5·0	091
0·6 ,, .	30	5·1	4·5	320	30	6·4	5·3	352	30	6·4	3·9	107	28	6·4	3·6	097	30	6·9	2·3	254	29	5·9	2·2	145
0·9 ,, .	30	4·7	4·0	330	30	6·9	6·2	351	30	5·3	1·7	197	27	4·8	1·9	185	30	5·9	4·2	254	29	5·8	4·0	224
1·5 ,, .	30	3·7	2·2	340	30	5·3	4·8	339	30	6·7	5·9	245	25	6·0	5·5	237	29	8·0	7·8	251	28	8·5	7·7	248
2·1 ,, .	30	4·5	1·4	321	30	4·5	2·0	345	24	10·4	10·1	252	17	8·6	8·4	247	26	11·5	11·3	253	23	10·8	9·9	250
3·0 ,, .	30	3·9	1·9	115	30	5·8	3·8	136	14	12·9	12·6	261	10	10·4	10·1	250	16	15·5	15·3	246	12	11·7	11·6	254
3·6 ,, .	30	5·2	2·7	133	22	7·2	5·1	152	7	13·4	13·3	264					10	15·6	15·3	245	1	8·7	8·7	260
4·5 ,, .	30	6·0	2·2	161	12	5·7	3·3	235	1	18·5	18·5	270												
5.4 ,, .	30	6·2	2·7	218	5	7·9	7·4	278																
6·0 ,, .	30	8·0	4·3	253	2	10 0	10·0	275																
7·2 ,, .	30	11·7	7·3	254																				
9·0 ,, .	27	18·7	15·8	256																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

April 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Station	TIRUCHIRAPALLI												TRIVANDRUM											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·7	0·4	282	30	3·5	2·5	116	30	3·8	2.3	146	30	1·4	1·0	355	30	2·0	0·9	290	30	2·7	1·4	234
0·15 a. g. .	29	3·5	1·2	221	30	4·7	3·4	188	30	5·6	4·4	155	30	3·2	2·3	340	29	2·9	1·4	286	29	4·3	2·4	253
0·3 a.m. s. l. .	29	3·7	1·5	211	30	4·9	3·7	188	30	5·8	4·7	157	30	3·1	2·1	339	29	2·8	1·5	291	29	4·4	2·3	242
0·6 ,, .	29	3·8	1·9	186	30	4·8	4·2	119	30	6·2	5·3	156	30	3·5	1·3	284	29	2·7	1·5	318	29	4·1	2·3	240
0·9 ,, .	30	4·0	2·2	175	30	4·3	3·8	113	30	4·7	3·9	147	30	3·7	0·5	304	27	3·1	1·3	340	29	3·0	0·9	240
1·5 ,, .	30	3·5	2·3	109	30	4·7	3·8	103	30	3·9	2·7	087	30	4·1	2·0	068	19	4·3	2·4	089	29	3·7	2·6	069
2·1 ,, .	29	5·9	5·3	084	28	4·5	3·2	087	29	5·3	4·6	070	30	5·5	4·7	079	12	6·7	4·8	084	29	5·5	4·2	072
3·0 ,, .	28	7·6	6·8	070	26	7·6	7·0	063	29	7·1	6·5	071	30	5·8	5·3	084	9	7·5	6·2	070	29	6·3	4·8	080
3·6 ,, .	26	6·5	5·4	072	26	6·8	6·3	063	26	6·4	5·3	073	30	5·7	4·5	088	9	6·3	5·2	082	29	5·4	3·4	095
4·5 ,, .	24	4·4	3·7	093	23	4·9	4·1	078	11	5·4	4·9	077	30	5·7	4.0	122	7	4·4	3·1	112	29	5·3	3·1	124
5·4 ,, .	22	4·3	2·4	117	21	4·8	3·3	097					29	4·8	2·9	143	5	3·4	1·7	105	29	5·0	2·8	127
6·0 ,, .	16	4·1	2·3	130	16	5·0	2·2	123					29	5·1	2·4	134	4	3·3	2·9	122	29	5·3	1·8	127
7·2 ,, .	2	4·4	2·4	073	10	5·1	2·6	182					29	4·5	1·4	120	3	3·6	3·0	095	29	5·0	2·0	138
9·0 ,, .					4	6·3	5·7	253					28	4·5	1·9	182					27	4·8	1·8	175

Station	TRIVANDRUM				UDAIPUR												VENGURLA							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·5	0·9	027	30	0·4	0·2	301	30	2·0	0·7	251	30	0·5	0·1	270	30	0·8	0·1	100	30	2·7	2·4	268
0·15 a. g .	28	2·9	0·6	356	30	3·3	2·2	323	29	5·1	2·8	252	30	3·8	1·7	294	30	3·8	0·5	195	30	4·6	4·2	277
0·3 a. m. s. l. .	28	3·2	0·7	304													30	4·1	0·6	239	30	5·0	4·2	284
0·6 ,, .	28	3·8	1·0	260													30	4·6	1·0	287	30	4·8	3·4	278
0·9 ,, .	28	3·4	0·3	319	30	5·3	3·1	319	29	5·6	3·3	251	30	5·6	2·6	290	30	5·3	2·4	331	30	4·1	2·1	292
1·5 ,, .	25	4·2	2·2	081	30	5·5	3·3	306	29	5·5	3·9	263	30	6·5	3·8	283	26	5·9	3·8	360	30	3·5	1·3	353
2·1 ,, .	24	7·0	5·5	071	30	4·9	2·7	280	29	5·9	4·2	264	30	5·0	3·3	283	26	5·3	2·8	065	30	4·3	3·0	069
3·0 ,, .	22	6·9	6·2	073	29	6·6	4·2	269	29	6·6	4·9	264	28	5·3	3·8	253	26	6·0	5·3	086	28	7·3	6·4	079
3·6 ,, .	15	5·1	4·5	089	25	7·8	5·6	254	29	7·3	4·9	259	23	5·8	3·8	247	8	5·7	5·1	095	27	8·1	7·1	084
4·5 ,, .	7	3·3	2·4	091	4	7·6	5·6	268	29	9·3	6·0	248	11	8·2	5·5	239	1	2·6	2·6	230	25	5·4	4·1	080
5·4 ,, .	2	3·9	3·7	039					28	10·6	7·5	259	4	11·6	11·3	246					21	6·5	3·8	035
6·0 ,, .	2	3·1	3·0	040					24	12·5	9·6	263	2	11·8	11·4	254					21	2·4	2·4	007
7·2 ,, .	2	2·8	0·8	143					19	14·8	10·1	275	1	10·8	10·8	240					11	1·9	1·9	275
9·0 ,, .									10	15·4	8·9	299									3	9·9	9·9	230

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level.

April 1960 (CHAITRA 12—VAISAKHA 10, 1882 Saka)

Station	VENGURLA				VERAVAL																VISAKHAPATNAM			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·6	0·3	320	30	4·4	4·2	352	30	4·7	3·7	318	30	7·2	6·4	295	30	3·4	3·1	320	30	1·6	1·5	233
0·15 a. g. .	30	3·2	2·1	309	30	9·2	8·7	341	30	4·8	3·8	332	30	8·9	8·6	290	30	8·6	8·4	322	30	4·4	4·3	236
0·3 a. m. s. l. .	30	3·6	2·5	323	30	9·4	8·8	343	30	4·9	4·3	352	30	8·2	7·9	921	30	9·9	9·4	325	30	5·6	5·3	237
0·6 ,, .	30	4·1	2·7	329	30	8·4	7·5	340	30	5·5	4·8	356	30	6·0	5·9	300	30	8·7	8·0	325	30	6·4	5·9	238
0·9 ,, .	30	5·0	3·3	328	30	6·5	5·1	344	30	5·3	4·1	353	30	5·0	4·3	318	30	6·3	5·5	327	29	5·8	4·7	236
1·5 ,, .	29	4·5	2·5	333	30	5·2	3·0	302	30	4·0	1·5	314	30	5·0	4·0	347	30	4·4	1·9	333	29	4·1	1·4	163
2·1 ,, .	29	4·9	3·1	060	30	4·6	2·9	253	30	4·7	1·9	258	30	5·3	2·5	323	30	4·5	0·5	254	29	4·2	1·7	048
3·0 ,, .	28	7·3	6·8	085	30	7·8	5·3	227	30	6·3	3·9	227	30	6·3	3·7	241	30	6·4	3·7	223	29	4·9	3·4	038
3·6 ,, .	6	9·1	8·5	097	30	9·0	6·7	231	30	7·9	5·7	213	30	8·1	5·6	228	28	8·4	4·4	222	29	4·4	2·6	046
4·5 ,, .	1	2·6	2·6	155	30	9·7	6·1	226	29	8·5	5·8	229	30	8·9	5·9	241	17	8·2	5·9	209	27	4·3	1·5	322
5·4 ,, .					30	10·6	9·9	256	28	9·6	6·9	259	30	9·8	7·4	255	3	5·1	4·9	245	25	5·7	2·0	248
6·0 ,, .					30	11·9	10·0	254	28	11·0	8·6	267	30	11·3	8·7	265	2	7·7	7·2	237	21	6·6	4·5	230
7·2 ,, .					29	17·7	15·6	269	24	16·2	13·7	270	30	17·0	14·4	263					12	7·2	6·4	222
9·0 ,, .					24	24·3	21·5	263	14	24·6	20·6	271	29	25·5	21·3	263					3	13·0	12·5	235

Station	VISAKHAPATNAM							
Time in I.S.T.	1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D
Surface . .	30	5·5	5·1	211	30	2·1	1·8	220
0·15 a. g. .	30	5·6	5·4	209	30	4·5	4·2	226
0·3 a. m. s. l. .	30	4·9	4·8	212	30	5·1	4·6	231
0·6 ,, .	30	4·7	4·1	215	30	5·3	4·6	236
0·9 ,, .	30	4·6	3·5	217	30	4·9	3·3	225
1·5 ,, .	30	4·2	1·1	156	29	4·0	1·9	128
2·1 ,, .	30	4·2	2·0	065	29	3·9	2·6	065
3·0 ,, .	30	5·4	3·9	035	24	5·3	4·1	023
3·6 ,, .	30	6·0	4·1	009	19	4·1	2·2	037
4·5 ,, .	30	5·2	2·6	346	12	4·6	1·0	238
5·4 ,, .	28	5·5	2·1	274	6	6·2	5·5	221
6·0 ,, .	27	6·7	4·3	250	4	8·0	7·9	213
7·2 ,, .	23	9·7	7·2	252				
9·0 ,, .	12	10·6	9·9	236				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

April 1960 (Chaitra 12—Vaisakha 10, 1882 Saka)

Ht. in Km.	n	V	v	D
AGARTALA				
1730 hrs.				
10·5	1	23·2	23·2	285
AMAUSI				
1730 hrs.				
10·5	2	27·5	26·5	283
12·0	2	31·9	30·4	267
ANANTAPUR				
0530 hrs.				
10·5	4	13·9	11·2	253
12·0	1	7·2	7·2	215
1730 hrs.				
10·5	5	9·3	8·7	268
12·0	3	10·3	10·3	239
BAIRAGARH				
1730 hrs.				
10·5	1	26·2	26·2	245
BAJPE				
1730 hrs.				
10·5	1	5·1	5·1	215
12·0	1	7·7	7·7	190
BAMRAULI				
0530 hrs.*				
10·5	20	36·1	33·9	257
12·0	11	39·3	36·5	250
14·1	3	37·7	37·2	268
16·2	1	11·8	11·8	270
18·0	1	10·3	10·3	210
1130 hrs.				
10·5	1	20·6	20·6	235
1730 hrs.*				
10·5	22	33·1	31·8	261
12·0	7	39·0	38·6	248
BANGALORE				
0530 hrs.				
10·5	2	8·0	6·9	265
12·0	1	5·1	5·1	305
1730 hrs.				
10·5	3	9·3	7·6	253
12·0	3	8·2	7·4	228
14·1	2	7·5	7·4	192
16·2	2	7·2	7·1	207
18·0	2	6·9	3·4	120
BAREILLY				
1730 hrs.				
10·5	2	20·8	20·8	250
12·0	1	23·2	23·2	250
BEGUMPET				
0530 hrs.				
10·5	1	24·2	24·2	240
1730 hrs.				
10·5	11	16·0	15·1	258
12.0	7	17·8	16·7	259
14·1	3	16·0	14·1	260
16·2	2	16·7	16·4	239
18·0	1	3·6	3·6	285
21·0	1	3·6	3·6	025
BHUBANESHWAR				
0530 hrs.				
10·5	1	10·3	10·3	250
BHUJ				
1730 hrs.				
10·5	1	12·9	12·9	275
DUM DUM				
0530 hrs.*				
10·5	21	23·4	22·3	256
12·0	17	23·7	22·5	256
14·1	8	19·7	19·0	254
16·2	4	14·4	13·4	248
18·0	2	12·4	6·4	280
1730 hrs.*				
10·5	25	22·2	21·0	256
12·0	21	25·1	24·2	255
14·1	12	24·9	24·0	258
16·2	6	17·4	16·9	256
GADAG				
0530 hrs.				
10·5	1	12·4	12·4	280
1730 hrs.				
10·5	4	14·9	13·7	236
12·0	3	13·0	12·8	249
14·1	1	6·2	6·2	205
GANNAVARAM				
0530 hrs.				
10·5	3	12·2	11·8	215
1730 hrs.				
10·5	11	12·0	11·1	251
12·0	6	14·3	13·4	256
14·1	4	6·4	12·0	244
16·2	2	15·4	15·1	272
18·0	1	2·6	2·6	035
GAUHATI				
0530 hrs.*				
10·5	14	33·7	32·2	257
12·0	8	41·0	39·7	258
14·1	5	46·8	45·6	257
16·2	2	51·0	50·8	267
18·0	1	55·6	55·6	270
1730 hrs.*				
10·5	15	34·1	32·0	266
12·0	9	48·3	42·4	262
14·1	2	39·4	39·4	267
GOPALPUR				
1730 hrs.				
10·5	3	18·4	15·5	261
12·0	1	36·5	36·5	295
GORAKHPUR				
1730 hrs.				
10·5	1	24·7	24·7	294
12·0	1	24·2	24·2	294
JABALPUR				
1730 hrs.				
10·5	1	39·1	39·1	240
10·5	2	25·7	25·5	282
JODHPUR				
0530 hrs.*				
10·5	19	33·7	31·0	258
12·0	13	43·6	41·2	265
14·1	7	41·7	39·4	272
1730 hrs.*				
10·5	15	32·4	29·3	250
12·0	11	42·6	37·1	262
14·1	3	37·6	37·2	246
MADRAS				
0530 hrs.*				
10·5	22	7·4	5·7	233
12·0	12	8·1	6·8	220
14·1	7	7·7	4·9	212
16·2	2	8·0	5·5	149
1130 hrs.				
10·5	2	5·7	5·4	241
12·0	2	7·5	6·7	242
14·1	2	5·9	2·3	214
16·2	1	7·2	7·2	195
18·0	1	4·1	4·1	215
1730 hrs.*				
10·5	21	7·2	5·8	239
12·0	17	8·5	7·4	223
14·1	14	10·1	7·7	188
16.2	4	9·0	3·4	204
18.0	3	7·6	6·2	170
MINICOY				
1730 hrs.				
10·5	1	5·7	5·7	100
12·0	1	7·7	7·7	065
NAGPUR				
0530 hrs.*				
10.5	27	27·3	25·7	254
12·0	22	29·0	27·1	249
14·1	18	24·1	23·5	247
16.2	12	13.9	12·5	230
18·0	7	7·7	3·5	282
21·0	2	4·1	2·2	256
NAGPUR				
1130 hrs.				
10·5	2	19.3	18.1	254
12·0	1	23·2	23·2	270
14·1	1	21·1	21·1	275
1730 hrs.*				
10·5	27	28·7	26·9	253
12·0	27	32·5	31·4	253
14·1	18	26·7	25·1	251
16·2	9	16·6	15·5	244
18·0	3	9·1	1·7	057
21·0	1	6·7	6·7	045
NANPARA				
1730 hrs.				
10·5	2	32·6	32·6	255
12·0	1	40·6	40·6	250
NEW DELHI				
0530 hrs.*				
10·5	25	34·8	33·8	265
12·0	22	40·7	38·6	262
14·1	11	35·3	34·1	252
16·2	5	26·6	25·8	262
18·0	3	34·8	32·2	272
21·0	1	8·7	8·7	100
1730 hrs.*				
10·5	28	33·4	31·3	263
12·0	22	38·9	35·9	263
14·1	10	36·9	35·2	264
16·2	9	27·4	26·3	256
18·0	6	15·1	14·4	278
21·0	4	7·7	4·2	339
24·0	1	8·7	8·7	351
27·0	1	10·8	10·8	035
POONA				
1730 hrs.				
10·5	5	19·0	18·0	271
12·0	1	21·1	21·1	276
14·1	1	17·5	17·5	264
16·2	1	5·7	5·7	270

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

APRIL 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Ht. in Km.	n	V	v	D
		PORT BLAIR		
		0530 hrs.*		
10·5	17	5·3	3·4	104
12·0	11	5·8	5·2	119
14·1	7	9·4	9·1	123
16·2	5	13·1	12·3	124
18·0	3	11·1	7·3	135
21·0	1	8·7	8·7	259
		1130 hrs.		
10·5	1	7·7	7·7	115
		1730 hrs.*		
10·5	15	6·4	3·4	124
12·0	10	5·5	2·5	157
14·1	6	9·4	7·8	154
16·2	2	11·3	11·3	124
18·0	2	14·9	14·2	117
		SANTA CRUZ		
		0530 hrs.*		
10·5	20	25·4	22·9	249
12·0	13	31·0	29·4	240
14·1	5	40·0	35·8	248
16·2	4	23·2	18·9	262
		1130 hrs.		
10·5	8	23·2	21·8	248
12·0	3	20·7	20·4	245
14·1	2	25·0	24·8	243
		1730 hrs.*		
10·5	25	25·8	23·1	249
12·0	23	28·4	25·7	245
14·1	11	27·6	24·8	260
16·2	2	22·9	20·6	260
		TRIVANDRUM		
		0530 hrs.*		
10·5	27	4·9	3·1	182
12·0	21	6·3	3·9	162
14·1	16	8·9	3·5	167
16·2	6	9·8	5·3	090
18·0	3	9·6	4·2	341

Ht. in Km.	n	V	v	D
		TRIVANDRUM		
		1730 hrs.*		
10.5	22	5·3	2·8	200
12·0	18	5·1	1·3	153
14·1	7	8·2	3·3	131
16·2	3	6·2	1·0	135
18·0	1	4·6	4·6	195
		UDAIPUR		
		1730 hrs.		
10·5	4	21·3	19·0	253
12·0	3	24·4	21·0	253
14·1	2	28·1	25·4	304
16·2	2	19·6	18·6	3 5
		VERAVAL		
		0530 hrs.*		
10·5	19	33·2	30·4	255
12·0	7	33·0	30·8	261
14·1	3	34·9	33·1	250
16·2	2	30·1	29·8	239
		1130 hrs.		
10·5	2	28·5	28·5	243
		1730 hrs.		
10·5	22	30·0	26·4	259
12·0	17	34·6	31·8	256
14·1	8	31·8	28·6	265
		VISAKHAPATNAM		
		0530 hrs.		
10·5	1	8·7	8·7	240
		1730 hrs.		
10·5	6	12·1	11·8	245
12·0	5	14·0	12·6	238
14·1	1	8·7	8·7	240

RADIOSONDE DATA

APRIL 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad	Clock type	1st October 1944	00 and 12	
2	Amritsar	Clock type	21st June 1957	00 and 12	
3	Bombay	Clock type	7th September 1954	00 and 12	
4	Calcutta	Clock type	13th December 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
5	Gauhati	Clock type	22nd July 1955	00 and 12	
6	Jodhpur	Clock type	17th April 1946	00 and 12	
7	Madras	Fan type	29th June 1946	00 and 12	
8	Nagpur	Fan type	1st October 1946	00 and 12	
9	New Delhi	Clock type	3rd December 1943	00 and 12	
10	Port Blair	Fan type	4th December 1949	00 and 12	
11	Trivandrum	Fan type	1st July 1947	00 and 12	
12	Veraval	Fan type	3rd October 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From ascents at 00 hrs. G. M. T.

APRIL 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Standard pressure surface mbs.	ALLAHABAD Surf. Pr. (995 mb.)						AMRITSAR (981 mb.)						BOMBAY (1006 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	98	296·0	303	291	281·6	29	230	290·5	297	283	284·1	30	13	297·3	301	294	293·
1000	29	58	...	...	...	...	29	70	...	...	...	...	30	69	...	...	...	...
900	29	985	299·5	305	293	270·6	29	979	293·7	301	285	274·6	30	996	298·9	303	297	279·2
850	29	1484	295·9	302	290	265·9	29	1469	289·5	297	280	272·1	30	1496	296·2	299	293	275·2
800	29	2007	291·8	298	286	267·0	29	1993	286·1	293	281	270·6	30	2021	293·0	299	289	274·8
700	29	3134	283·0	289	277	259·8	29	3089	277·9	283	271	263·8	30	3154	284·2	289	281	271·2
600	29	4391	273·3	278	267	249·0	29	4324	268·4	273	263	...	30	4419	274·7	280	271	272·8
500	29	5826	264·2	271	257	...	29	5733	258·6	263	252	..	29	5864	266·0	272	262	...
400	29	7516	252·8	260	245	...	29	7386	247·2	256	243	...	29	7571	255·5	260	251	...
300	29	9593	239·6	248	230	...	26	9414	233·3	247	226	...	27	9668	242·7	249	237	...
250	28	10851	231·7	240	221	...	24	10631	224·8	245	218	...	24	10948	234·8	244	229	...
200	25	12325	223·2	231	211	...	18	12064	217·7	224	211	...	17	12447	225·2	238	219	...
175	19	13177	218·6	224	209	...	14	12930	215·9	223	206	...	11	13287	218·7	223	214	...
150	18	14158	213·4	219	203	...	10	13925	214·5	218	212	...	9	14272	213·0	215	209	...
125	12	15323	209·8	215	201	...	7	15093	210·7	215	209	...	6	15445	207·7	210	203	...
100	11	16701	205·9	211	195	...	5	16500	208·6	213	207	...	6	16787	202·2	205	198	...
80	9	18033	204·7	214	195	...	...	...	...	...	...	...	...	...	...	...	...	...

Standard pressure surface mbs.	CALCUTTA (1006 mb.)						GAUHATI (1001 mb.)						JODHPUR (984 mb.)					
Surface	28	06	298·1	301	294	296·0	28	49	296·1	302	291	291·2	30	218	296·4	303	292	278·6
1000	28	54	...	...	...	...	28	61	...	...	...	...	30	72	...	...	...	...
900	28	986	298·8	303	295	280·4	28	977	293·9	299	290	284·0	30	962	296·9	303	292	271·1
850	28	1485	294·8	299	291	277·3	28	1469	291·1	296	287	280·4	30	1492	293·6	299	289	269·4
800	28	2008	290·3	294	287	275·1	28	1985	287·9	293	285	276·3	30	2011	289·7	295	285	268·2
700	28	3129	281·0	284	278	269·1	28	3101	280·6	286	276	267·9	30	3130	280·5	285	277	261·4
600	28	4381	272·5	277	267	259.2	28	4352	272·7	277	267	256·6	29	4376	271·5	275	267	254·3
500	28	5817	264·3	270	259	...	28	5789	264·5	269	257	...	28	5802	261·8	266	256	...
400	28	7511	253·4	263	249	...	28	7485	253·4	261	245	...	28	7478	249·9	253	247	...
300	25	9601	240·7	248	234	...	23	9571	240·4	248	232	...	25	9527	236·1	240	231	...
250	24	10863	232·6	238	226	...	17	10830	232·9	242	225	...	23	10779	228·8	235	222	...
200	21	12348	222·5	227	215	...	14	12333	224·3	231	217	...	20	12244	221·6	226	215	...
175	18	13204	215·8	223	208	...	10	13193	219·4	228	212	...	17	13101	217·9	223	213	...
150	9	14147	210·3	216	202	...	7	14167	216·3	225	207	...	16	14083	214·1	221	207	...
125	6	15253	203·7	209	197	...	5	15256	201·8	223	202	...	11	15235	209·4	219	203	...
100	...	...	...	...	...	...	5	16626	208·6	221	198	...	6	16536	204·5	217	198	...
80	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From ascents at 00 hrs. G. M. T.

APRIL 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Standard pressure surface mbs.	MADRAS Surf. Pr. (1006 mb.)						NAGPUR (972 mb.)						NEW DELHI (983 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	15	299·8	302	298	297·5	30	311	297·0	300	292	284·5	30	210	293·6	301	286	281·7
1000	30	71	...	...	...	...	30	063	...	...	...	...	30	63	...	...	...	...
900	30	995	295·7	301	293	286·5	30	994	301·0	305	296	277·0	30	980	296·3	301	288	274·3
850	30	1492	293·8	299	289	279·5	30	1497	297·3	301	293	275·0	30	1475	293·2	299	285	271·5
800	30	2013	290·7	295	287	276·5	30	2022	293·1	297	291	274·0	30	1994	289·2	294	283	269·5
700	30	3139	283·1	288	279	269.1	30	3154	283·4	288	279	270·5	30	3111	280·6	285	275	262·7
600	30	4400	274·7	279	271	260.2	30	4412	272·9	277	267	258·9	30	4357	271·1	274	267	...
500	29	5848	266·5	270	263	...	30	5847	264·0	269	259	...	30	5780	261·0	264	257	...
400	29	7556	255.5	260	250	...	30	7540	252·9	257	247	...	30	7452	249·7	253	245	...
300	27	9650	239·9	245	236	...	29	9614	239·4	244	232	...	30	9496	235·6	240	230	...
250	24	10906	229·5	235	223	...	29	10871	230·6	236	223	...	29	10738	228·5	234	222	...
200	16	12355	216·1	225	207	...	28	12352	220·9	227	215	...	28	12205	221·4	229	214	...
175	16	13173	208·9	217	197	...	27	13195	215·0	224	208	...	27	13070	218·7	227	211	...
150	15	14135	201·9	208	195	...	27	14168	208·9	221	199	...	27	14051	216·4	225	210	...
125	7	15237	197·7	204	191	...	25	15251	203·1	214	193	...	24	15201	212·5	222	207	...
100	...	...	...	...	...	...	23	16577	197·9	207	191	...	21	16576	208·6	221	203	...
80	...	...	...	...	...	...	18	17949	200·0	205	195	...	17	17948	208·1	217	202	...

	PORT BLAIR (1000 mb.)						TRIVANDRUM (1001 mb.)						VERAVAL (1008 mb.)					
Surface	29	79	298·3	299	293	296·8	30	64	299·0	300	297	296·2	30	8	294·7	297	291	291·3
1000	29	80	...	...	...	...	30	71	...	...	...	...	30	73	...	...	...	...
900	29	1001	294·4	297	290	289·0	30	995	294·2	297	291	289·1	30	1004	298·8	301	292	278·3
850	29	1495	292·2	295	289	285·6	30	1489	291·8	294	289	286·1	30	1504	295·4	298	292	275·6
800	29	2015	289·4	292	285	281·4	30	2009	289·4	293	286	281·4	30	2026	291·3	295	287	275·0
700	29	3138	283·0	286	279	274·2	30	3133	283·3	288	281	273·4	30	3152	283·0	289	279	271·2
600	28	4403	276·0	283	272	266·5	30	4397	275·5	281	271	264·5	30	4410	273·2	277	269	258·1
500	28	5859	267·9	278	264	...	29	5847	266·7	273	263	...	30	5845	263·6	268	260	...
400	28	7575	256·9	265	250	...	29	7557	256·3	265	251	...	30	7532	251·6	259	246	...
300	21	9692	243·3	257	235	...	28	9654	240·5	249	235	...	27	9594	237·2	244	230	...
250	17	10983	234·8	253	222	...	28	10911	230·0	237	222	...	26	10841	228·7	237	221	...
200	12	12473	222·7	236	208	...	27	12383	217·7	227	211	...	16	12315	220·4	228	214	...
175	11	13370	217·4	222	209	...	26	13209	211·7	221	205	...	12	13191	214·3	221	208	...
150	10	14331	210·1	225	202	...	24	14162	204·1	214	196	...	8	14122	207.3	211	202	...
125	8	15461	205·0	219	194	...	19	15237	198·2	207	191	...	...	...	...	...	...	...
100	7	16840	200·4	212	186	...	11	16603	195·9	203	191	...	...	...	...	...	...	...
80	...	...	...	...	...	...	6	17975	196·2	199	191	...	...	...	...	...	...	...

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From ascents at 00 hrs. G. M. T.

APRIL 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1003 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	48	299.7	302	297	296.4
1000	30	74	...	...	...	...
900	30	1006	298.6	302	294	284.5
850	30	1508	296.4	299	293	279.8
800	30	2035	292.8	296	289	277.8
700	30	3166	283.1	287	279	273.6
600	30	4428	274.4	280	271	262.6
500	30	5876	266.2	272	261	...
400	30	7583	254.9	260	250	...
300	27	9674	240.2	251	234	...
250	25	10930	230.3	243	220	...
200	24	12397	217.3	230	210	...
175	22	13223	210.4	222	203	...
150	21	14169	203.9	213	195	...
125	18	15244	200.1	213	192	...
100	16	16581	196.9	216	191	...
80	6	17842	197.5	205	192	...

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From ascents at 12 hrs. G. M. T.

April 1960 (Chaitra 12—Vaisakha 10, 1882 Saka)

Standard pressure surface mbs.	ALLAHABAD Surf. Pr. (993 mb.)						AMRITSAR (981 mb.)						BOMBAY (1005 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	27	98	309·7	315	304	280·3	30	230	303·5	309	299	282·7	30	13	304·6	309	302	294·6
1000	27	37	...	...	...	...	30	59	...	...	...	...	30	57	...	...	...	...
900	27	985	302·7	309	295	272·4	30	993	298·5	306	294	275·1	30	998	302·1	305	298	282·4
850	27	1490	298·1	303	290	268·1	30	1487	293·9	302	289	272·0	30	1504	299·0	302	294	277·1
800	27	2016	293·7	299	286	268·2	30	2007	289·5	295	284	269·1	30	2034	295·2	298	291	276·8
700	27	3147	284·2	289	280	264·8	30	3122	280·9	286	276	256·7	30	3174	286·0	289	282	272·4
600	27	4410	274·8	279	271	251·1	30	4370	270·9	277	267	251·4	30	4447	276·8	280	274	263·4
500	27	5852	265·0	271	262	...	30	5795	261·6	267	254	...	30	5905	268·4	273	264	...
400	27	7550	253·7	260	249	...	30	7466	249·6	257	240	...	30	7627	257·7	262	253	...
300	26	9630	239·4	246	233	...	27	9484	226·0	240	223	...	26	9743	244·5	250	240	...
250	26	10889	232·0	240	224	...	22	10733	227·1	235	213	...	26	11028	236·8	243	231	...
200	24	12382	223·9	231	219	...	15	12182	220·1	228	204	...	24	12541	227·5	235	221	...
175	21	13245	218·9	225	213	...	13	13058	217·8	226	201	...	21	13412	222·4	231	215	...
150	20	14215	213·5	223	207	...	13	14030	215·5	223	196	..	20	14417	217·1	227	211	...
125	17	15314	207·9	212	200	...	11	15228	214·2	220	206	...	14	15552	210·4	215	205	...
100	12	16656	202·7	207	193	...	9	16609	212·7	218	207	...	9	16889	203·6	209	201	...
80	9	17986	202·0	207	193	...	7	17977	211·6	217	205	...	5	18280	208·0	209	207	...
	CALCUTTA (1003 mb.)						GAUHATI (997 mb.)						JODHPUR (981 mb.)					
Surface	30	6	307·4	312	303	293·3	29	49	304·8	309	300	291·2	29	218	309·7	314	306	280·4
1000	30	36	...	...	...	...	29	24	...	...	...	...	29	48	...	...	...	...
900	30	985	302·5	307	299	281·0	29	964	299·8	306	294	284·5	29	997	302·2	306	299	273·1
850	30	1490	298·0	302	295	276·5	29	1464	296·0	303	289	281·7	29	1502	297·6	302	293	268·3
800	30	2018	293·6	298	291	273·9	29	1987	292·0	300	285	278·9	29	2028	292·7	296	289	266·6
700	30	3151	284·1	291	280	268·9	29	3115	283·2	294	277	271·1	29	3156	282·4	287	277	262·8
600	30	4416	275·2	281	271	257·5	29	4377	275·1	285	269	259·8	28	4410	272·5	275	270	250·8
500	30	5866	266·6	272	262	...	29	5825	266·2	271	259	...	28	5844	263·8	266	260	...
400	30	7577	255·9	263	251	...	29	7532	255·7	269	245	...	28	7535	251·9	257	248	...
300	26	9681	242·8	250	237	...	22	9634	241·9	262	229	...	24	9594	236·7	243	230	...
250	25	10954	234·2	242	227	...	17	10890	233·2	239	222	...	20	10830	229·5	237	223	...
200	21	12443	223·8	235	217	...	14	12407	224·6	234	217	...	15	12313	223·1	231	218	...
175	17	13296	217·5	232	211	...	10	13246	218·1	223	213	...	13	13178	219·2	225	212	...
150	17	14265	211·1	222	203	...	6	14192	213·3	217	207	...	10	14188	215·4	221	209	...
125	14	15352	204·3	212	199	...	...	...	...	...	...	...	7	15293	211·4	216	207	...
100	8	16659	197·1	202	192	...	...	...	...	...	...	...	5	16684	204·8	210	199	...
80	...	...	...	...	...	...	...	...	...	...	...	...	5	18022	205·2	208	201	...

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From ascents at 12 hrs. G. M. T.

APRIL 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Standard pressure surface mbs.	MADRAS Surf. Pr. (1005 mb.)						NAGPUR (970 mb.)						NEW DELHI (982 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	15	304·4	307	303	297·4	30	311	310·3	312	304	283·4	30	210	306·9	311	299	281·4
1000	30	57	...	...	...	...	30	31	...	...	...	...	30	48	...	...	...	...
900	30	993	298·1	303	295	285·9	30	987	305·4	309	301	277·9	30	990	300·7	305	295	274·8
850	30	1493	295·3	300	291	281·7	30	1497	300·7	304	296	276·3	30	1491	296·2	300	291	272·2
800	30	2016	291·7	296	288	277·3	30	2028	295·3	299	291	275·2	30	2020	291·5	299	286	270·8
700	30	3146	284·2	289	279	267·9	30	3166	284·3	289	281	271·3	30	3137	281·9	287	277	264·4
600	30	4413	276·2	279	272	260·7	30	4429	273·9	277	268	261·7	30	4392	273·0	277	269	252·3
500	30	5867	267·1	270	262	...	30	5869	264·7	268	258	...	30	5825	262·7	267	254	...
400	29	7580	256·4	260	251	...	30	7566	253·6	259	245	...	30	7510	251·8	257	245	...
300	23	9689	241·3	245	236	...	28	9647	239·0	244	232	...	30	9570	237·2	243	229	...
250	23	10951	231·6	239	223	...	28	10902	230·3	239	224	...	30	10817	229·6	237	222	...
200	18	12428	219·3	227	213	...	27	12374	219·1	231	213	...	29	12293	222·7	229	217	...
175	16	13265	213·4	221	206	...	24	13207	213·3	226	205	...	29	13159	220·1	228	215	...
150	16	14226	206·9	216	197	...	24	14170	206·7	221	200	...	29	14151	217·0	226	210	...
125	11	15301	202·2	209	196	...	22	15257	201·3	214	196	...	27	15291	212·6	225	205	...
100	6	16715	198·5	204	197	...	17	16583	196·4	206	193	...	25	16666	209·1	226	201	...
80	...	...	...	...	...	...	10	17843	195·9	198	193	...	24	18012	207·5	217	200	...

	PORT BLAIR (999 mb.)						TRIVANDRUM (1000 mb.)						VERAVAL (1007 mb.)					
Surface	30	79	302·0	304	299	297·3	29	64	302·3	305	298	297·0	30	8	301·6	303	300	297·7
1000	30	68	...	...	...	...	29	61	...	...	...	...	30	71	...	...	...	...
900	30	996	294·6	297	290	291·3	29	993	295·4	297	293	290·7	30	1010	300·4	306	294	280·3
850	30	1490	292·0	295	287	286·5	29	1489	292·4	294	291	288·5	30	1512	296·6	303	292	277·0
800	30	2009	289·2	293	285	283·0	29	2009	289·4	293	287	284·7	30	2037	292·3	297	288	276·2
700	30	3134	283·3	287	278	276·7	29	3135	283·2	287	280	276·7	30	3166	283·3	287	280	270·6
600	29	4401	276·2	281	273	267·8	29	4402	275·9	281	271	271·3	30	4428	274·5	279	269	262·3
500	29	5855	267.7	272	263	...	29	5856	267·5	273	261	...	30	5870	265·4	271	261	...
400	29	7576	257·4	262	251	...	29	7571	256·8	261	249	...	30	7567	252·8	260	246	...
300	22	9703	244·1	251	237	...	28	9674	241·5	248	231	...	30	9639	238·0	248	230	...
250	18	10971	233·9	242	225	...	27	10938	230·4	240	217	...	26	10894	229·6	241	223	...
200	13	12483	223·4	234	213	...	24	12417	218·8	229	207	...	22	12355	219·6	226	215	...
175	11	13335	217·6	231	205	...	21	13242	211·6	219	202	...	18	13206	214·4	222	202	...
150	10	14305	209·6	221	198	...	17	14195	204·4	210	194	...	17	14169	208·5	215	203	...
125	...	...	...	...	...	...	16	15264	198·6	204	192	...	13	15258	200·8	207	193	...
100	...	...	...	...	...	...	12	16565	196·1	199	193	...	6	16594	197·7	201	195	...
80	...	...	...	...	...	...	7	17874	198·3	207	192	...	...	...	...	...	...	...

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From ascents at 12 hrs. G. M. T.

APRIL 1960 (CHAITRA 12—VAISAKHA 10, 1882 SAKA)

Standard pressure surface mbs.	VISAKHAPATNAM Surf. Pr. (1001 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point
Surface	30	48	302·9	304	301	298·0
1000	30	58	...	...	...	...
900	30	997	299·8	303	296	283·6
850	30	1501	297·1	301	294	280·4
800	30	2029	293·1	297	289	279·0
700	30	3162	283·9	287	279	274·1
600	30	4428	275·3	279	272	264·8
500	30	5880	267·1	271	260	...
400	30	7590	255·1	262	245	...
300	27	9687	240·9	251	232	...
250	26	10946	230·8	240	222	...
200	25	12420	219·2	229	208	...
175	23	13267	213·2	222	206	...
150	23	14227	206·3	216	198	...
125	19	15316	201·1	211	192	...
100	17	16651	196·2	207	188	...
80	12	17973	197·2	211	199	...

NOTE—Number of observations refer to those of dynamic height.

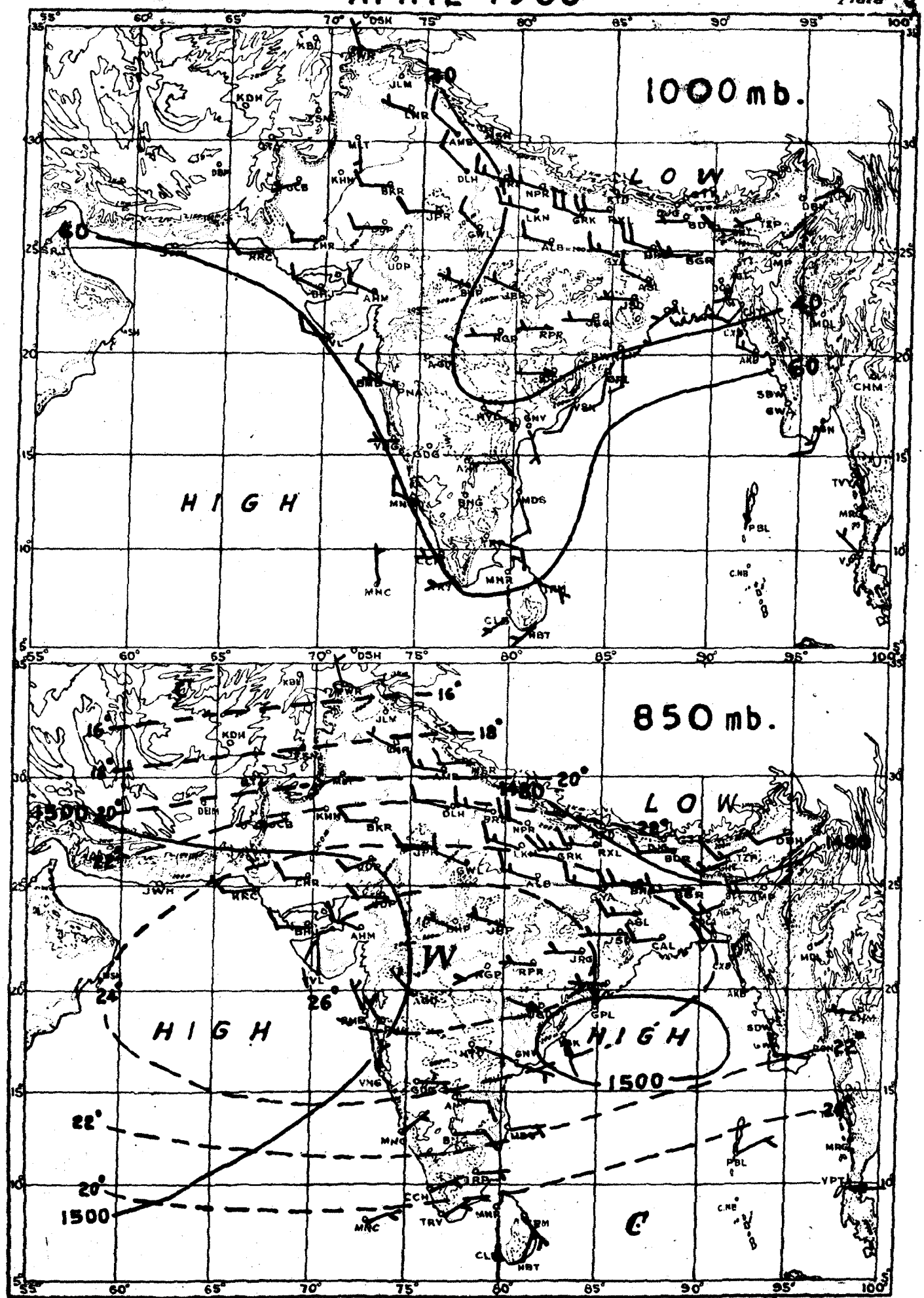
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273° A.

Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S2—20 DDG obs./64—29-3-65—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **APRIL 1960** *Plate*



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

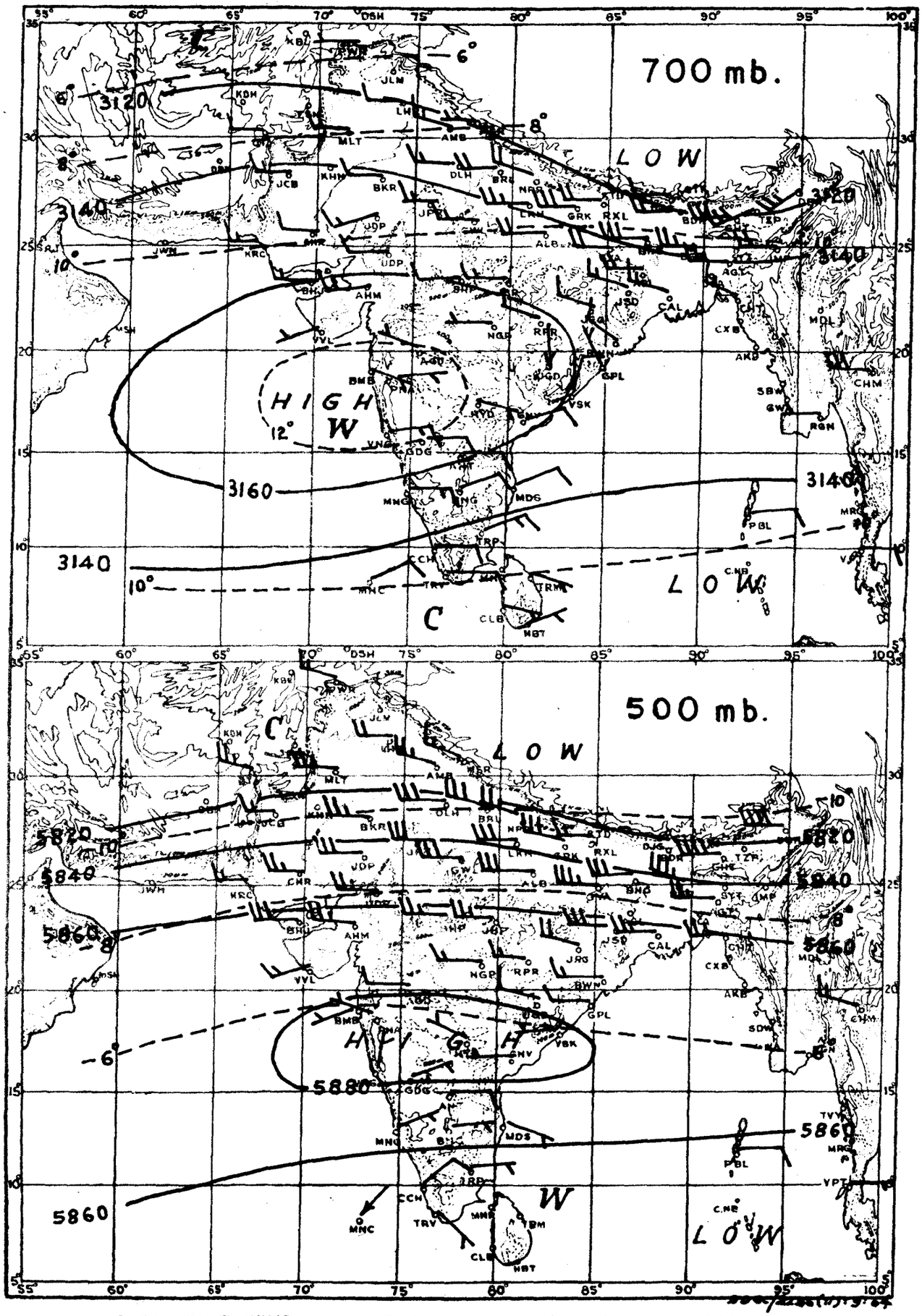
-------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

G.P.Z.P. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

APRIL 1960

I.Met.D. *Plate II*



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

-------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

G.P.Z. D. POONA, 1963

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INDIA WEATHER REVIEW, 1960

Monthly Weather Report

MAY

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Chief features—

(1) Development of a severe cyclonic storm in the Arabian Sea during the middle of the month ;

(2) Development of another cyclonic storm in the head Bay of Bengal towards the end of the month; and

(3) Early onset of the monsoon over south Peninsula and its temporary advance into Gangetic West Bengal and Assam.

On 10th, a depression developed in the southeast Arabian Sea over the Laccadive area. It moved in a northwesterly direction and intensified into a cyclonic storm by the 14th evening. It became a severe cyclonic storm with a core of hurricane winds by 17th morning, centred near Lat. 14.5°N and Long. 59.5°E. The storm moved away in a westerly direction. In association with these developments, fairly widespread pre-monsoon thundershowers with some heavy to very heavy falls occurred in Kerala between 3rd and 7th and in the Arabian Sea Islands on 9th and 10th. Monsoon proper advanced into Kerala on 14th, more than a fortnight earlier than usual. Fairly widespread thundershowers also occurred in Mysore State, particularly in coastal Mysore between 11th and 17th. Some noteworthy amounts of rainfall were : Cochin 14 cm on 4th and 19 cm on 17th; Trivandrum 11 cm on 6th; Minicoy 19 cm on 9th and 12 cm on 10th and Alleppey 15 cm on 17th.

The monsoon advanced into the south Bay Islands on 19th and the north Bay Islands on 21st, over south coastal Mysore on 22nd and over north coastal Mysore on 23rd. Port Blair reported 14 cm on 22nd, Nan Cowrie 15 cm on 23rd and Car Nicobar 12 cm on 24th. A rapid northward extension of the monsoon in the Bay of Bengal then occurred in association with a depression which formed in the northwest Bay of Bengal on 26th and concentrated into a cyclonic storm of small extent on the night of 27th-28th May. It crossed the Sunderbans coast early on the morning of 28th and moving in a northnortheasterly direction, it broke up over the Assam hills on 30th May. Monsoon advanced temporarily into Gangetic West Bengal on 28th and into Assam on 29th. There was fairly widespread rain with some heavy to very heavy falls in coastal West Bengal on 28th and in Assam on 29th and 30th, Contai reporting 30 cm on 28th and Cherrapunji 31 cm on 30th.

Two western disturbances affected the extreme north of the country during this month. The first disturbance lay over Afghanistan on 1st May, over the Punjab (I) on 4th and moved away across Himachal Pradesh and the Punjab-Kumaon hills by 6th. In association with it, Jammu and Kashmir and local rain on the 4th and 5th. The second western disturbance moved across the Punjabs between 15th and 17th, after causing fairly widespread thundershowers in the Punjab hills and Himachal Pradesh and local showers in Jammu and Kashmir and the Kumaon hills on 17th.

Day temperatures were above normal over northeast India during the first fortnight, some parts being in the grip of a heat wave with day temperatures 8-10°C above normal during the first week of the month. Also day temperatures were 4-6°C above normal over Uttar Pradesh from 12th to 14th and over east Madhya Pradesh from 21st to 24th.

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Rainfall for the month was in large excess in the Bay Islands, the Konkan, Deccan (including Marathwada), coastal and north Interior Mysore, Kerala and the Arabian Sea Islands, in moderate excess in Telangana, in slight excess in Sub-Himalayan West Bengal and Bihar Plains and normal in Assam, Gangetic West Bengal, east Madhya Pradesh and the Madras State. It was in slight defect in west Uttar Pradesh, Rayalaseema, south Interior Mysore, in moderate defect in Orissa, Jammu and Kashmir west Madhya Pradesh and Gujarat Region and in large defect over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Assam, Sub-Himalayan West Bengal, Bihar Plains, and west Uttar Pradesh, and below normal in the Madras State, Interior Mysore State and Kerala. They were normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in Assam, and West Bengal and below normal in Rajasthan, coastal Mysore, Kerala and the Arabian Sea Islands. They were normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was below normal in Sub-Himalayan West Bengal, Bihar State, Jammu and Kashmir, westRajasthan, and Gujarat Region and above normal in the Punjab(I) Deccan (including Marathwada), Vidarbha, Rayalaseema, coastal and south Interior Mysore and Kerala. They were nearly normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was below normal in west Rajasthan and west Madhya Pradesh, normal in Assam, West Bengal, Orissa, Bihar Plains, Uttar Pradesh, the Punjab (I), Jammu and Kashmir, east Madhya Pradesh, Saurashtra and Kutch, the Konkan, Andhra Pradesh and above normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, relative humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column. Similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,
The 27th July 1960.

C. RAMASWAMY,
for *Director General of Observatories.*

Errata to M.W.R. for May 1960 (Vaisakha 11 - Jyaistha 10, 1882 Saka)

Page	Station	Hour	Column	For	Read
Table I - Division					
231	13. Mysore		4	34.0	34.6
Table II					
232	Chaparmukh		1	Chaparmukh (R)	Chaparmukh
232	Malda		7	(Not clear)	+1.2
232	Sandheads		10	29.3	29.8
234	New Delhi (Palam Aerodrome)		5	24	23
234	Ambala		17	2.2	8.2
235	Jhalawar		19	+1.0	+0.6
235	Champa		4	45.5	45.6
236	Kolhapur		17	13.3	13.3(a)
236	Akola		7	+0.1	-0.1
236	Nizamabad*		7	+0.9	-0.9
237	Raichur		17	15.3	15.4
238	Mukteswar (Kumaon)		9	16,23	16,29
238	Lokpal		6	+1.9	1.9
238	Panchet Hills		18	0.8	10.8
238	Dharoi		2	1.0	41.0
Table III					
240	Dibrugarh	0830	6	0.0	-1.5
241	Tura	1730	5	916.3	961.3
242	Balasore	0830	12	..	+2
243	Angul	0830	6	-0.7	+0.7
243	Jamshedpur (P.B.O)	0530	10	52.2	25.2
243	Jamshedpur (P.B.O)	2330	5	985.5	985.4
244	Mautanwa	0830	8	20.9	21.9
244	Gorakhpur	0830	1	Gorakhpur	Gorakhpur*
244	Azamgarh	0830	2	(Not clear)	0830
244	Varanasi (Banaras) (Bahatpur Aerodrome)	2330	19	2	0
244	Allahabad (Bamrauli)	0230	19	0	1
244	Kanpur (Aerodrome)	1130	13	(Blank)	1.2
244	(Foot Note)	-	-	(Not given)	*Observations for 27 days
245	Lucknow (Amausi Aerodrome)	1730	15	37.8	37.9
245	Lucknow (Amausi Aerodrome)	1730	21	(Blank)	2
245	Jhansi	1730	5	971.0	971.1
245	Agra	1730	28	0	1
245	Agra (Aerodrome)	1730	5	979.5	979.8
247	Sri Ganganagar	2330	5	990.7	980.7
247	Bikaner	1730	4	898.2	998.2
247	Pilani	1730	28	1	0
247	Alwar	1730	8	24.9	25.9
248	Guna	0830	12	6	-6
249	Seoni	1730	4	997.2	996.7
249	Deesa	0830	5	99.01	990.1
251	Bhir	1730	9	200	20.0
252	Miraj	0830	12	+4	+8
253	Hakimpet	1130	7	33.1	33.6
253	Arogyavaram	1730	10	16.5	16.4

Contd.2

Page	Station	Hour	Column	For	Read
253	Anantapur	1730	27	(Blank)	2
254	Kallakurichi	0830	4	1015.9	1005.9
254	Cuddalore	0830	6	-9.0	-0.9
254	Vellore	0830	14	-0.9	+1.9
256	Fort Cochin	0830	6	-0.1	-1.0
256	Mukteswar (Kumaon)	0830	12	..	-7
257	Kodaikanal	0830	14	..	+1.8
258	Dharoi	1730	9	19.9	17.9
258	Chepua	1730	10	14.0	14.5
258	Okhaldunga	0830	1	Okhaldunga*	Okhaldunga
258	Okhaldunga	0830	10	13.2	14.0
258	(Foot note)	-	-	*Data not available	(delete)
259	Geyzing	1730	10	71	77

* * * * *

Page	Station	Time in I.S.T	Height in Km.	Entry under Column	Existing entry	Correct entry
Table IV						
260	- First para, second line	-	-	-	41	43
260	- First para, third line	-	-	-	13	11
263	Anantapur	2330	3.6	D	08	084
266	Cochin	0530 and 1730	0.6	n V v D	Values for level 0.6 are slightly printed up.	
269	Gorakhpur	1730	1.5	v	9.5	5.5
271	Madras	1730*	0.3	D	1 8	148
271	Minicoy	1730	3.6	n	6	16
273	Port Blair	1130	0.9	D	23	234
276	Veraval	0530*	5.4	v	1.0	1.5
278	Santa Cruz	1130	12.0	n	2	3
278	Santa Cruz	1730*	12.0	D	363	263
			RADIOSONDE DATA			
280	Calcutta	00 GMT	900 mb.	Ht.gpm	9 5	945
280	Gauhati	00 GMT	Surface	Dew Point	2 6.3	296.3
282	Visakhapatnam	00 GMT	600 mb.	Min.	274	272
283	Jodhpur	12 GMT	900 mb.	Ht.gpm	995	955
284	New Delhi	12 GMT	700 mb.	Ht.gpm	1333	3133
284	Veraval	12 GMT	900 mb.	Ht.gpm	375	975
285	Visakhapatnam	12 GMT	Surface	Max.	3 6	306
285	Visakhapatnam	12 GMT	150 mb.	Ht.gpm	1 316	14316

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, and Tripura).	279·7	96	32·5	23·4	79	73	5·4	4·5
	−12·0		+2·0	+1·1	−2		+0·1	
2. West Bengal	173·5	103	36·3	26·3	68	56	3·5	3·6
	+5·0		+1·0	+1·2	−5		−0·4	
3. Orissa	44·3	54	37·3	26·2	72	63	3·6	5·2
	−37·6		+0·4	+0·5	+2		+0·1	
4. Bihar	46·7	79	39·3	25·2	55	36	2·8	2·8
	−12.1		+1·4	+0·1	−7		+0·5	
5. Uttar Pradesh	8·1	49	41·2	25·3	35	21	1·1	1·5
	−8.6		+0·9	−0·1	−5		−0·1	
6. Punjab (India) (Including Delhi).*	0·1	1	41·3	25·4	39	25	0·9	1·3
	−12·9		+0·8	+0·5	+6		−0·2	
7. Jammu and Kashmir	30·3	52	20·9	7·0	51	35	2·6	3·8
	−28·0		−0·4	+0·3	−7		−0·6	
Sub-division								
1. Bay Islands.	667·3	174	31·4	24·8	79	86	6·9	7·0
	+283·0		+1·0	+0·9	+1		+1·3	
2. Assam (Including Manipur, Tripura).	279·7	96	32·5	23·4	79	73	5·4	4·5
	−12·0		+2·0	+1·1	−2		+0·1	
3. Sub-Himalayan West Bengal.	316·6	113	34·9	24·5	69	51	3.3	2·5
	+35·6		+1·3	+1·1	−7		−0·3	
4. Gangetic West Bengal.	119·8	95	36 8	26·8	68	57	3·5	3·9
	−6·4		+0 9	+1 3	−4		−0·5	
5. Orissa	44·3	54	37 3	26·2	72	63	3·6	5·2
	−37·6		+0·4	+0·5	+2		+0·1	
6. Bihar Plateau	31·5	43	40·1	26·0	45	30	3·4	3·8
	−41·6		+1·0	+0·4	−8		+1·0	
7. Bihar Plains	56·3	113	38·7	24·6	53	41	2·4	1·9
	+6·3		+1·6	−0·1	−6		+0·1	
8. Uttar Pradesh (East).	2·0	12	41·3	25·9	38	23	1·2	1·3
	−15·1		+0·7	−0·1	−4		−0·1	
9. Uttar Pradesh (West).	14·2	87	41·1	24·8	32	19	1·1	1·8
	−2·1		+1·1	−0·2	−5		−0·2	
10. Punjab (India) (Including Delhi)	0·1	1	41·3	25 4	39	25	0·9	1·3
	−12·9		+0·8	+0·5	+6		−0·2	
11. Himachal Pradesh	7·7	..	36·8	17·7	42	21	1·0	1·3
	..		..	..	..		..	
12 Jammu and Kashmir	30·3	52	20·9	7·0	51	35	2·6	3·8
	−28·0		−0·4	+0·3	−7		−0·6	
13. Rajasthan (West)	4·1	41	42·1	25·1	32	13	0·5	0·7
	−5·8		+0·5	−1·1	−9		−0·2	
14. Rajasthan (East)	3·3	23	40·2	25·0	31	14	1·0	1·7
	−11·2		−0·1	−1·1	−5		+0·2	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	3·7	31	41·1	25·0	31	13	0·8	1·2
	−8·2		+0·2	−1·1	−7		0	
9. Madhya Pradesh	15·4	85	41·1	25·9	33	19	2·4	3·4
	−2·8		+0·6	−0·1	−2		−0·4	
10. Maharastra	33·4	163	37·9	25·8	61	45	3·3	3·6
	+12·9		−0·1	+0·3	0		+1·0	
11. Andhra Pradesh	23·6	60	37·7	27·2	62	48	3·6	4·1
	−15·9		−0·1	−0·2	+3		+0·1	
12. Madras State	48·0	107	35·3	26·3	69	58	5·7	6·3
	+3·2		−1.5	−0·1	+1		+2·2	
13. Mysore	180·3	63	34·0	21·7	74	51	5·3	5·8
	−96·6		−1·1	0	+7		+1·8	
14 Kerala	641·8	255	31·4	24·1	87	83	6·7	7·3
	+390·0		−1·3	−1·5	+7		+1·6	
Sub-division—*contd.*								
15. Madhya Pradesh (West).	7·6	62	41·3	25·7	31	16	2·2	2·7
	−4·6		+0·3	−0·3	−3		−1·0	
16. Madhya Pradesh, (East).	25·3	98	41·0	26·2	35	22	2·7	4·2
	−0·4		+0·9	+0·3	0		+0·4	
17. Gujarat	6·5	69	40·0	25·9	53	29	2·6	1·7
	−2·9		+0·6	+0·1	−12		+0·7	
18. Saurashtra and Kutch.	0·2	3	37 8	25·2	69	59	2·1	1·6
	−7·5		+0·7	−0·3	−3		+0·1	
19. Konkan	48·1	172	33·2	27·1	75	71	4·5	4·1
	+20·1		−0·9	+0·6	0		+0·7	
20. Maharashtra (Including Marathwada)	61·8	217	33·1	23·7	61	39	3·9	5·2
	+33·3		−0·4	+0·6	+6		+1·9	
21. Vidarbha	5·2	36	42·5	28·1	40	22	3·0	4·6
	−9·4		−0·1	+0·1	+7		+1·1	
22. Coastal Andhra Pradesh.	14·4	31	37·7	27·7	66	61	4·0	4·4
	−32·3		+0·3	−0·1	−1		0	
23. Telangana	33·4	133	39·9	26·6	51	30	2·8	3·3
	+8·2		−0·1	−0·4	+5		0	
24. Rayalaseema	32·1	82	39·7	26·2	65	39	3·6	4·3
	−7·1		−0·9	−1·0	+10		+0·5	
25. Madras State	48·0	107	35 3	26 3	69	58	5·7	6·3
	+3·2		−1·5	−0·1	+1		+2·2	
26. Coastal Mysore	493·2	400	33·6	24·7	83	75	6·8	6·5
	+369·9		−0·8	−1·3	+8		+1·7	
27. Interior Mysore (North).	106·3	290	37·1	24·1	65	42	4·6	5·5
	+69·7		−1·1	+0·1	+4		+2·1	
28. Interior Mysore (South).	97·9	88	32·3	18 3	81	53	5·5	5·8
	−13·2		−1·2	+0·5	+8		+1·5	
29. Kerala	641·8	255	30 4	24·1	87	83	6·7	7·3
	+390·0		−1·3	−1·5	+7		+1·6	
30. Arabian Sea Islands.	495·7	341	31·2	25·5	79	81	5·9	7·0
	+350·0		−0·9	−1·3	+5		+1·4	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.
*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	(m) 30·9	..	..	..	25·1	..	23·2	19,21	325·6	464.0	..	102·4	21	18	..	10·1	7·9	..	0	20	0	0	20	0	0	0	0	0	0
Long Island	31·7	..	34·7	6	25·0	..	23·1	6	273·1	419.4	..	61·4	21	21	..	3·0	2·0	..	0	22	0	0	2	0	0	0	0	0	0
Port Blair	31·4	+1·0	34·6	6	24·8	+0·9	23·1	24	292·8	667·3	+283·0	139·4	22	15	−1 3	13·1	9·9	−3·9	0	18	0	0	20	0	0	0	0	0	0
Car Nicobar	31·0	..	33·9	5	23·8	..	21·8	26	225·6	627·8	..	124·4	24	15	..	7.0	4·4	..	0	20	0	0	18	0	0	0	0	0	0
Nancowry	30·5	..	33·3	14	25·1	..	22·6	21	140·8	485·8	..	154·0	23	13	..	3·4	3·0	..	0	17	0	0	5	0	0	0	0	0	0
Kondul	30·1	..	31·1	8 days	24·2	..	22·3	29	187·8	348·8	..	71·0	23	20	..	6·4	5·2	..	1	21	0	0	10	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Passighat	30·5	..	37·0	1	21·8	..	19·7	14	80·8	210·9	..	45·4	19	11	..	7·0	9·0	..	1	17	0	0	5	0	0	0	0	0	0
Digboi	(h) 31·6	..	35·4	16	(h) 21·7	..	17·3	1	50·6	194·6	..	55·0	30	12	..	..	..	..	1	16	0	0	0	0	0	0	0	0	0
Dibrugarh	30·7	+1·5	36·1	25	22·4	+0·9	19·9	1	29·9	20 ·3	−16·8	153·9	25	11	−4·6	3·9	2·7	+0·8	1	13	0	0	2	0	0	0	0	0	0
Dibrugarh (Mohanbari Aerodrome)	30·0	..	34·8	1	21·7	..	15·0	3	38.1	231·7	..	100·3	25	11	..	4·5	2·7	..	1	15	0	0	4	0	0	0	0	0	0
North Lakhimpur	30·7	..	35·2	1	22.0	..	17.7	2	38·6	324·1	..	79·7	31	12	..	..	..	..	0	18	0	0	8	0	0	0	0	0	0
Sibsagar	31·4	+1·8	37·3	1	22·7	+0·6	19·4	1	60·1	300·3	−6.0	45·8	30	16	+0·4	7·1	5·3	+1·4	0	18	0	0	0	0	0	0	0	0	0
Jorhat	32·2	..	37·8	1	22·5	..	18·9	1	38·3	185.8	..	36·3	30	11	..	..	..	..	0	16	0	0	12	1	0	0	0	0	0
Golaghat	32·0	..	38·9	1	22·6	..	19·9	1	9·0	164·9	..	40·6	30	10	..	..	..	..	0	15	0	0	0	0	0	0	0	0	0
Gohpur(R)																													
Tezpur	32·6	+2·2	38·9	1,2	24·2	+1·8	20·1	13	41·9	277·4	+6·9	81·4	30	12	−3·3	8·4	7·8	+3·3	0	18	0	0	1	0	0	0	0	0	0
Tezpur (P.B.O.)	31·5	..	38·6	1	23·1	..	21·0	2	42·6	280·2	..	81·9	30	13	..	..	..	..	1	17	0	0	14	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	62·4	498·9	..	81·4	25	18	..	7·6	6·0	..	0	22	0	0	12	0	0	0	0	0	0
Chaparmukh (R)	33·4	..	41.2	1	23·3	..	21·1	4 days	42·4	237·8	..	45·8	30	16	..	..	..	..	0	16	0	0	14	0	0	0	0	0	0
Tangla	32·1	..	38·9	1	22·9	..	18·2	1	100·1	317·6	..	36·3	13	16	..	3·9	2·1	..	0	18	0	0	6	0	0	0	0	0	0
Gauhati	32·7	+1·8	41·1	1	23·7	+1·3	21·2	9	56·5	317·0	+81·0	77.3	30	15	+1·5	1·1	1·4	−1·7	0	16	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor Aerodrome)	32·9	..	40·3	1	23·3	..	18·8	1	31·8	309·3	..	61·9	30	15	..	11·4	7·4	..	0	18	0	0	17	0	0	0	0	0	0
Rangiya	(b) 32·7	..	39·5	1	(b) 21·2	..	17·1	12	(d) 39·3	(b) 256·1	..	42·0	21	15	..	..	..	..	0	17	0	0	0	0	0	0	0	0	0
Goalpara	34·1	..	41·4	2	22·5	..	17·7	1	58·3	(h) 516·2	..	107·4	28	14	..	10·1	3·6	..	0	18	0	0	0	0	0	0	0	0	0
Dhubri	33·0	+3·1	41·4	2	24·2	+1·4	20·6	16	89·2	323·7	−77·4	94·2	30	14	−1·5	9·0	8·3	−0·9	0	15	0	0	0	0	0	0	0	0	0
Dhubri (Rupsi Aerodrome)	34·2	..	41·2	2	23·6	..	19·4	1,15	110.9	445·5	..	84·4	30	11	..	9·1	6·4	..	1	14	0	0	13	0	0	0	0	0	0
Tura	33·1	..	39·4	1	22·8	..	17·7	20	217·5	443·9	..	76·3	30	13	..	10·3	9·6	..	0	13	0	0	0	0	0	0	0	0	0
Agartala	35·9	..	42·2	1	25·1	..	20·2	21	154·6	366·6	..	79.0	20	11	..	15·4	12.6	..	0	12	0	0	13	0	0	0	0	0	0
Kailashar	35·5	..	42·0	1	24·0	..	20·8	1	152·6	348·1	..	63.2	27	14	..	8·5	6·3	..	0	16	0	0	17	0	0	0	0	0	0
Silchar	31·7	+0·2	34·9	9	23·5	+0·9	18.9	13	47·2	320·4	−96.7	41·0	30	15	−1·4	4·3	2·5	−0·7	0	18	0	0	14	0	0	0	0	0	0
Silchar (Kumbhigram Aerodrome)	34·2	..	39·8	1	22·6	..	19·6	13	105·7	313·7	..	58·5	31	16	..	8·7	7·7	..	0	20	0	1	21	0	0	0	0	6	0
Imphal	(f) 30·9	..	34·8	1,2	19·2	..	14·3	1	55.9	103·8	..	24·8	31	9	..	12·1	8·2	..	1	16	0	0	5	0	0	0	0	0	0
Hailong	29·8	..	34·7	1	21·1	..	18·7	19	94·0	277·5	..	69·5	31	15	..	10·0	9.9	..	0	19	0	0	10	1	0	0	0	0	0
Lumding	35·6	+3·5	41·9	1	22·9	+1·0	17·8	1	46·9	189·0	+24·7	39·0	22	10	−0·7	7·7	4·8	..	0	12	0	0	6	0	0	0	0	0	0
Sub-Himalayan West Bengal																													
Cooch Behar	33·9	..	39·9	9	23·0	..	16·2	2	100·7	403·9	−22·1	106·8	20	10	−5·5	10·0	8·3	..	0	15	0	1	17	0	0	0	0	3	0
Jalpaiguri	32·3	+0·4	37·8	2,9	23·6	+1·0	17·4	2	44.3	314·4	+14·2	102·0	15	11	−2·1	14·1	10·8	+8·8	0	11	0	0	8	0	0	0	0	0	0
Bagdogra	33·9	..	38·8	3	22·8	..	15·1	2	16·9	188·6	..	83·0	20	8	..	(b) 17·4	(b) 13·5	..	0	9	0	0	11	0	0	0	0	0	0
Malda	37·4	+2·2	43·9	4	25·3	+ ·2	22·2	21	65.0	231·6	+114·8	141·8	29	8	+2.4	11·6	10·0	+1·0	0	8	0	0	9	0	0	0	0	0	0
Gangetic West Bengal																													
Dum Dum	36·2	..	41·9	1	26·5	..	24·2	24	57·9	71·8	..	16·5	24	7	..	14·9	12·5	..	0	10	0	0	6	0	0	0	0	1	0
Calcutta	36·4	+1·1	42·0	2	27·3	+2·0	24·4	20,24	66·8	110·1	−29·4	36·4	28	7	+0·1	16·2	10·9	+2·9	0	9	0	0	10	0	0	0	0	1	1
Barrackpor (Aerodrom)	36·7	..	42·4	3	26·3	..	23·9	1	48·6	59·2	..	20·6	29	8	..	..	..	..	0	12	0	0	10	0	0	0	0	1	0
Saugor Island	32·0	−0·8	33·8	2	28·0	+1·0	23·8	28	155·9	266·3	+151·5	93·0	28	6	+0·5	35·6	35·2	+13.5	0	9	0	0	8	0	0	0	0	0	0
Sandheads	31·5	..	33·2	24	27.7	..	22·8	24	29·3	151·2	+101·2	85.9	28	4	+0·8	..	..	..	0	7	0	0	1	0	0	0	0	0	0
Contai	33·7	..	41·1	2	27·4	..	23·9	28	22·7	341·0	..	295·1	28	5	..	24·1	19·5	..	0	7	0	0	0	0	0	0	0	0	0
Midnapore	39·4	+1·7	45·7	5,6	27·1	+1·2	23.4	17	28·4	120·8	+0·4	19·0	23	6	−0·9	9·1	9·3	+2·4	0	6	0	0	3	0	1	0	0	1	0
Purulia	39·7	..	44·3	5	27·4	..	24·7	29	39·9	52·5	..	16.0	29	4	..	8·6	6·6	..	0	5	0	0	0	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	34·2	−69·2	30.0	29	2	−3·6	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Burdwan	36·0	−0·7	42·8	5	26·8	+1·5	24·9	23,28	8·8	11·6	−139·8	4.3	29	3	−4·2	12·1	12·1	+7.0	0	6	0	0	1	0	0	0	0	0	0
Krishnagar	38·8	+2·9	45·9	5,6	26·3	+1·5	21·7	21	123·0	154·0	−16·4	67·2	29	6	−1·9	10·3	9·7	+0·7	0	9	0	0	5	0	0	0	0	2	0
Asansol	39·6	+0.6	45·0	4,5	26·2	+0·5	20.2	12	47·5	70.2	−4·2	44·8	29	3	−1·4	11·2	9·0	−0·2	1	3	0	0	4	0	0	0	0	5	0
Suri	39·1	..	45·7	6	26·1	..	21·6	21	58·0	96·4	..	61·8	29	5	..	12 9	11·3	..	0	7	0	0	8	0	0	0	0	0	0
Berhampore	37·9	+1·7	44·6	4	26·1	+1·3	21·2	14	66·3	191·0	+55·6	57·1	29	9	+1·7	4·5	4·2	−1·9	0	9	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	39·3	..	45·9	5	26·7	..	23·8	17,29	46·4	139·6	..	53·2	28	8	..	5·6	4·8	..	0	9	0	0	14	0	0	0	0	0	0

(R) Register not received.
(h) Total or Mean of 29 days.
(b) Total or mean of 29 days.
(d) Total for 27 days.
(f) = Mean of 25 days.
(m) = Mean of 18 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm or more): Total in the month	Departure from normal	Wind speed km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Orissa—(*contd.*)																													
Balasore	37·4	+1·2	42·7	2	27·1	+1·1	24·1	28	81·0	126·7	+9·1	51·3	28	6	+0·1	18·4	13·3	+4·1	1	7	0	0	11	0	0	0	0	0	0
Chandbali	37·8	+1·5	42·8	1	26·2	0	22·2	22,23,30	8.2	64·3	−77·4	26·9	28	4	−1·4	21·4	17·2	+0·9	0	4	0	3	0	0	0	0	0	0	0
Cuttack	40·1	+1·5	44·4	12	27·2	+0·6	24·7	28	13·8	35·2	−55·5	17·4	28	4	−1·2	12·6	10·7	+4·6	0	5	0	0	4	0	0	0	0	0	0
Bhubaneswar	37·9	..	42·1	2	26·4	..	15·0	11	0	42·8	..	33·6	22	2	..	29·0	27·8	..	0	3	0	0	6	0	0	0	0	1	0
Puri	31·3	−0·7	34·4	27	27·7	+0·4	22·4	22	0	41·5	−31·1	33·8	22	2	−1·2	28·8	27.9	+6·5	0	4	0	0	2	0	0	0	0	0	0
Gopalpur	31·6	−0·8	32·9	17	26·4	−0·3	22·8	13, 27	3·6	16·4	−37·7	13·5	27	1	−2·1	26·3	26·3	+5·7	1	4	0	0	4	0	0	0	0	2	0
Koraput	34·3	..	37·2	4,24	22·5	..	18·3	5	9·2	78·0	..	34·3	4	6	..	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Titilagarh	43·4	..	45·6	23,24,25	26·9	..	22·3	27	22·5	33·1	..	12·1	20	4	..	4·2	3·4	..	0	4	0	0	3	0	0	0	0	0	0
Bolangir	42·6	..	45·3	24	29·7	..	25.1	17	0·6	6·8	..	3·8	17	1	..	9·2	10·0	..	0	4	0	0	1	0	0	0	0	0	0
Phulbani	40·1	..	42·7	24	25·6	..	21.3	3	1·3	7·7	..	3·9	27	1	..	7·1	4·8	..	0	4	0	0	1	0	0	0	0	0	0
Angul	40·9	+1.2	44·3	22	27·5	+1·4	23·3	27	4·0	17·8	−41.9	11·6	27	2	−2·7	10·4	10·0	+1·0	0	4	0	0	12	0	0	0	0	0	0
Keonjhar	38·7	..	42·2	5	25·5	..	23·2	9	5·1	8·6	..	3·8	9	2	..	10·5	7·7	..	0	4	0	0	3	0	0	0	0	0	0
Sambalpur	42·2	+0·8	45·1	22	27·8	+0·5	23·4	26	8·5	8·5	−18·9	8·5	26	1	−1·3	8·5	6.5	+1·2	0	1	0	0	2	0	1	0	0	0	0
Jharsuguda	42·2	..	44·8	22	28·2	..	22·9	9	0	0	..	0	..	0	..	11·4	8·8	..	0	0	0	0	3	0	1	0	0	0	0
Bihar Plateau																													
Jamshedpur	40·4	+1·0	44·4	5	27·4	+1·2	23·2	2	19·0	24·8	−54·7	16·4	18	2	−3·1	9·2	7·3	+0·5	0	5	0	0	6	0	0	0	0	0	0
Jamshedpur (P.B.O.)	40·5	..	44·5	5	27·2	..	23·0	2	12·4	14·3	..	7·0	18	2	..	8.2	6.6	..	1	5	0	0	10	0	0	0	0	1	0
Chaibasa	41·0	+1·0	44·4	5,6,15	27.9	+1·7	24·5	29	30.0	30·0	−39·6	15·4	30	3	−2·2	5·6	3·8	−0·4	0	3	0	0	4	0	2	0	0	0	0
Ranchi	39·2	+1·2	41·7	14,15	23·4	−0·7	20·5	16	6·1	6·1	−47.8	6·1	29	1	−3·1	(a) 2·5	(h) 1·7	−6·2	0	1	0	0	1	0	0	0	0	0	0
Ranchi (C.W.O.)	38·1	..	42·6	15	24·5	..	21·1	29	24·0	28·3	..	20·0	29	3	..	(b) 10·4	9·8	..	0	3	0	0	3	0	0	0	0	0	0
Daltonganj	41·8	+0·6	45·1	15	25·0	−0·9	18.3	9	0	0	−14·5	0	..	0	−1·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	38·6	+1·2	42·3	14	24·4	+0·2	20·4	9	6·6	9·0	−40·8	6·1	16	2	−1·4	12·2	9·7	−1·7	1	2	0	0	2	0	0	0	0	0	0
Dhanbad	39·2	..	43·9	6,14	26·6	..	23·9	23	15·2	28·7	..	14·8	29	2	..	(a) 7·4	6.2	..	0	4	0	0	2	0	2	0	0	0	0
Dumka	38·5	+1·3	44·9	4	25·2	0	20·9	21	0	33·5	−58·2	25·0	29	2	−3·1	12·0	7·9	+3·1	0	2	0	0	4	0	0	0	0	0	0
Bihar Plains																													
Purnea	37.4	+2.5	43·4	4	23·0	−0·6	17·1	9	63·0	229·2	+123·0	98·2	29	7	+1·5	8·3	6·0	+0·5	0	7	0	0	6	0	0	0	0	0	0
Forbesganj	37.5	..	42·6	4,11	23·3	..	16·4	2	14·0	93·8	..	29·2	16	7	..	12·1	9·0	..	0	9	0	1	5	0	0	0	0	0	0
Darbhanga	38·3	+2·6	43·3	6	24.3	+0·1	19·4	10	19·4	62·2	−1·5	52·2	28	2	−1·5	8.5	8·6	+1·5	0	3	0	0	1	0	0	0	0	0	0
Motihari	36.8	+0.6	40.6	6 days	23.8	+0·1	17.3	9	0	2·6	−64·5	2·6	20	1	−2·8	(b) 6·0	(b) 3·9	−4·1	0	1	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	64·5	+14·2	29·0	16	3	−0·1	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Chapra	40.2	..	45.4	5	28.0	..	24.3	16, 22	3·8	13·5	−19.5	9·6	16	2	+0·2	10·4	8·1	..	1	3	0	0	1	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	0·7	−30·5	0·7	21	0	−1·8	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Patna	40·0	+2·1	44·4	5	26·3	+0·7	21·1	16	0	16·6	−19·0	16·6	16	1	−1·3	9·1	9·4	+1·2	0	1	0	0	2	0	0	0	0	1	0
Patna (Aerodrome)	39·6	..	44·3	5	25·1	..	19·7	16	0	18·8	..	14·8	16	2	..	13·3	9·3	..	0	2	0	0	1	0	1	0	0	0	0
Dehri	41·4	..	44·4	4,5,14	26·7	..	19·4	9	0	1·2	−14·8	1·2	21	0	−1.2	10·0	6·8	..	0	1	0	0	0	0	0	0	0	0	0
Gaya	41·3	+1·0	44·9	5,13,14	26·1	−0·5	19·6	9	0	1·0	−22·6	1·0	21	0	−1.7	14·1	10·9	+1·2	0	1	0	0	2	0	1	0	0	1	0
Jamui	39·9	..	44·9	5	22·9	..	11·3	29	29 7	37·9	..	14·6	28	3	..	8·3	5·2	..	0	5	0	0	1	0	5	0	0	0	0
Bhagalpur	38·0	..	43·3	11	24·8	..	20·4	16	40·3	117·9	..	70·3	29	4	..	11·0	9·3	..	0	5	0	0	1	0	0	0	0	0	0
Sabour	37·7	+0·9	43·7	4	23·9	−0·4	16·3	8	38·8	123·8	+69·2	68·6	29	4	+0·4	13·0	10·0	−1·1	0	7	0	0	4	0	0	0	0	0	0
Uttar Pradesh (East).																													
Gonda	41·2	+1·9	44·7	13	25·4	0	16·9	1	8·0	8·0	−18·2	8·0	27	1	−0·9	10·3	7·5	−0·7	0	1	0	0	1	0	0	0	0	0	0
Nautanwa	37·6	..	41·3	5	22·7	..	16·6	1	2·4	10·6	..	7·4	16	1	..	12·0	8·6	..	0	3	0	0	1	0	0	0	0	0	0
Gorakhpur	40·5	+2·1	43·9	4	25·0	+0·1	22·0	7	0	0	−35·1	0	..	0	−2·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Azamgarh	41·6	..	45·4	13	23·6	..	18·0	10	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ballia	40·9	..	44·6	13	25·4	..	21·5	16	6·8	12·2	..	5·4	16	2	..	9·4	7·0	..	0	3	0	0	0	0	0	0	0	0	0
Varanasi (Banaras)	41·3	+0·5	44·3	14	26·2	0	19·5	10	0	0·8	−12·7	0·8	21	0	−1·1	10·4	7·4	+1·1	0	1	0	0	1	0	1	0	0	0	0
Varanasi (Banaras) (Babatpur Aerodrome).	41·4	..	44·5	4	26·0	..	19·2	9	0	0·6	..	0·6	21	0	..	17·8	12·5	..	0	1	0	0	1	0	2	0	0	0	0
Allahabad (Bamrauli).	42·5	+0·8	46·2	14	26·3	−0·3	20·5	9	0	1·3	−14·7	1·1	20	0	−1·2	11·5	7·4	−0·2	1	1	0	0	2	0	3	0	0	0	0
Sultanpur	41·4	..	43·4	6 days	26·5	..	..	..	22·2	22·2	..	22·2	27	1	..	10·2	7·1	..	0	1	0	0	0	0	0	0	0	0	0
Faizabad	39·9	..	43·4	13	23·3	..	18·5	7,10	0·3	13·0	..	8·7	27	2	..	7·3	4·5	..	0	3	0	0	2	0	3	0	0	0	0
Banda	42·5	..	45·6	14,22	25·7	..	19·2	9	0	0	..	0	..	0	..	8·4	5·4	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	42·3	+0·5	46·1	14	26·3	−0·6	19·3	9	0	0	−3·6	0	..	0	−0·6	12·5	7·5	+1·1	0	0	0	0	2	0	2	0	0	0	0
Kanpur	41·9	+0·7	44·5	13,15	26·9	0	19·8	9	0	2·0	−6.1	2·0	29	0	−1·0	19.5	13·2	+0·5	0	1	0	0	1	0	1	0	0	0	0
Kanpur (Aerodrome)	42·2	..	46·1	14	26·0	..	18·3	8	0	0	..	0	..	0	..	..	..	..	0	0	0	0	2	0	4	0	0	0	0
Lucknow	39·2	−1·6	43·8	14	25·7	0	20·4	10	4·0	4·0	−15 6	4·0	26	1	−0.3	8·2	5·1	+1·1	0	1	0	0	1	0	4	0	0	0	0
Lucknow (Amausi Aerodrome).	40 9	+0·4	44·6	14	24·6	−0·2	17·8	8	0	0	−19.6	0	..	0	−1.3	13.5	11·0	..	0	0	0	0	2	0	4	0	0	3	0
Hardoi	41·2	..	44·9	14	25·0	..	19·3	8	20·8	12.0	..	14·0	26	2	..	12·8	8·5	..	0	3	0	1	3	0	1	0	0	0	0
Lakhimpur Kheri	40·9	..	45·4	13	25·1	..	19·8	8	1·2	10·8	..	7·4	16	1	..	8·9	5·7	..	0	3	0	0	4	0	3	0	0	0	0
Bahraich	41·3	+2·2	44·6	13	25·4	+0.3	..	..	0	0	−30.7	0	..	0	−2.1	13·1	9·2	+3·6	0	0	0	0	0	0	1	0	0	0	0

(a) Mean of 30 days (b) Mean of 29 days. (h) Mean of 23 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—*contd.*																													
Orai	41·3	..	43·9	14,22	25·4	..	19·9	8	1.3	1·3	..	1·2	17	0	..	..	..	..	1	1	0	0	0	0	0	0	0	0	0
Jhansi	42·7	+0·2	45·6	25	28·2	+0·1	21·1	9	2·7	4·7	−4·7	4.7	19	1	0	7·7	5·8	−1.1	0	1	0	0	0	0	0	0	0	0	0
Agra.	42·3	+1·1	45·5	14,15, 23	26·2	+0·5	21·9	8	18·0	18·0	+8·3	18.0	29	1	−0·1	7·2	5·9	−1·3	0	1	0	0	0	0	3	0	0	0	0
Agra (Aerodrome)	42·1	..	45·4	14,23	25·3	..	18·6	8	27·5	30·7	..	26·0	29	2	..	..	..	..	0	3	0	0	4	0	5	0	0	0	0
Mainpuri	42·2	+0·3	45·6	14,15	25·9	+0·2	19·6	8	41·4	40·4	+28·5	14·4	29	1	−0·2	7·0	5·5	+1·2	0	1	0	0	0	0	0	0	0	0	0
Aligarh	41·5	+0·8	44·9	14	24.5	−1.8	18·0	8	6·0	16·6	+6·2	10.6	17	2	+0·8	13·3	9·3	+0·9	0	2	0	1	5	0	0	0	0	0	0
Bareilly	41·7	+2·2	44·0	15	25·5	+0·4	20·0	8,10	6·6	10·4	−6·4	6·6	26	1	−0·5	9·9	5·1	+0.4	0	3	0	0	2	0	2	0	0	0	0
Meerut	40·7	+1·2	44·2	14	24·0	−0·2	17·3	10	..	0	−15·2	0	..	0	−1·5	..	8·9	..	0	0	0	0	0	0	0	0	0	0	0
Najibabad	40.1	..	42·9	14	21·7	..	15·6	9	0	0	..	0	..	0	..	9·1	5·8	..	0	0	0	0	0	0	0	0	0	0	0
Roorkee	40·7	+1.7	44·4	14	22·8	−0·5	17·4	9	0	3.1	−16·2	3·1	28	1	−0·7	9·5	6·6	+1·5	0	1	0	0	1	0	1	0	0	0	0
Dehra Dun	36·9	+1·3	40·2	14	21·2	0	16·4	8	14·8	19·2	−17·6	15·2	16	2	−1·0	5·8	4·7	+1·0	0	3	0	0	3	0	1	0	0	0	0
Punjab (India) (Including Delhi)																													
New Delhi	40·4	−0·8	44·3	23	26·1	−0·6	19·8	8	0	0	−13·2	0	..	0	−1·6	20·3	14·4	+0·7	0	0	0	0	1	0	4	0	0	5	0
New Delhi (Palam Aerodrome)	41·8	..	46·1	24	24·4	..	15·6	8	8·0	8·0	..	8·0	29	1	..	..	..	..	0	1	0	0	2	0	5	0	0	0	0
Hissar	42·2	+1·5	46·4	15	24·4	0	16·3	8	0·4	0·4	−13·3	0·4	18	0	−1·4	11·2	8·9	+0·9	0	1	0	0	4	0	1	0	0	0	0
Karnal	40·3	..	43·3	15	23·4	..	16·8	8	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Patiala	40·8	..	45.7	31	23·0	..	18·2	6,9	0	0	−6·3	0	..	0	−0 8	13·3	10·1	..	0	0	0	0	1	0	1	0	0	0	0
Ambala	40·8	+0·9	44·4	14	24·2	−0·1	19·4	6	0	0	−18·5	0	..	0	−1·5	10·0	2·2	+2·2	0	0	0	0	1	0	0	0	0	0	0
Ambala (Aerodrome)	40·4	..	44·1	14	23·1	..	17.2	8	0	0·6	..	0·5	29	0	..	..	..	..	1	1	0	0	3	0	4	0	0	0	0
Chandigarh	39.7	..	42·8	14	23·8	..	17·8	8	0·2	0·2	..	0·2	18	0	..	..	..	..	1	0	0	0	0	0	3	0	0	0	0
Ludhiana	41·7	+1·6	46·1	22	26.9	+2·6	20·4	7	0	0·2	−13·3	0·2	17	0	−1·5	9·6	6·0	+2·5	1	0	0	0	0	0	0	0	0	0	0
Halwara	40·4	..	43·8	22	20·7	..	13·4	8	0	2·5	..	2·5	17	1	..	..	..	..	0	1	0	0	1	0	3	0	0	0	0
Bhatinda	40·8	..	44·8	14	21·7	..	15·8	7	21·6	25·5	..	21·6	18	1	..	10·1	7·1	..	0	3	0	0	2	0	3	0	0	0	0
Ferozepur	40·7	..	44·6	14	21·3	..	13·9	8	0	0	..	0	..	0	..	6·3	3·4	..	0	0	0	0	0	0	0	0	0	0	0
Amritsar	39·7	..	43·1	14	20·4	..	12·9	7	0	4·2	..	4·2	17	1	..	14·1	10·5	..	0	1	0	0	3	0	2	0	0	0	0
Pathankot (Aerodrome)	39·9	..	43·7	14	23·1	..	14·6	7	0	5·3	..	5·3	17	1	..	13·8	11·3	..	0	1	0	0	7	0	1	0	0	1	0
Adampur (Aerodrome) (R)																													
Himachal Pradesh																													
Bilaspur	38·2	..	41·7	23	19·0	..	13·8	8	27·4	37·7	..	27·4	24	2	..	10·7	6·2	..	0	2	0	0	2	0	1	0	0	1	0
Mandi	36·8	..	40·7	23	17·7	..	13·6	8	3·5	7·7	..	2·6	17	1	..	6·1	3·6	..	1	5	0	0	5	0	0	0	0	0	0
Jammu and Kashmir																													
Srinagar	24·5	−0·5	29·7	16	11·1	+0·6	6·0	7	16·0	57·1	−3·4	13·2	4	6	+0·6	7·3	4·9	+0·4	0	9	0	0	9	0	0	0	0	0	0
Srinagar (Aerodrome)	23.9	..	28·8	16	10 7	..	5.1	7	15·2	56 0	..	14·7	17	6	..	..	..	..	0	8	0	0	12	0	0	0	0	0	0
Gulmarg	..	..	..	Closed during winter months																									
Sonemarg*																													
Dras	..	..	..	..	..	..	..	..	..	72·3	+10.8	22.4	22	8	+2·6	..	..	..	0	11	..	..	..	..	..	..	..	..	..
Leh	17·3	−0·3	21·2	15	2·9	+0·1	0 3	1,5	1.0	2·8	−2·8	1 8	18	0	−0·7	11·9	10·1	+5·6	0	2	3	0	2	0	0	0	0	0	0
Skardu (R)																													
Gilgit (R)																													
Misgar (R)																													
Jammu†																													
Jammu (Aerodrome)	39·4	..	43·0	14	23·4	..	14·8	7	0	0	..	0	..	0	..	..	..	..	0	0	0	0	6	0	2	0	0	0	0
Rajasthan (West)																													
Sri Ganganagar	41·8	−0·3	45·6	14	23·9	0	14·9	7	17·5	17·5	+11·7	12·9	19	2	+1·2	8·2	4·8	−6·0	0	2	0	0	2	0	3	0	0	0	0
Churu	41·5	..	44·5	13	24·0	..	15 6	8	0	14·8	..	14 8	17	1	..	16·6	11·2	..	0	1	0	0	3	0	2	0	0	0	0
Bikaner	42·0	−0·1	45·2	22	24·2	−3·4	13·7	7,8	0	0	−15·0	0	..	0	−1·3	10·1	8·5	−1·6	0	0	0	0	1	0	1	0	0	0	0
Jaisalmer	42·0	..	46·1	22	25·0	..	17·0	7	0	0	..	0	..	0	..	20·0	17·2	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	42·2	..	45·6	22	25·9	..	20·0	8	0	0	−8·9	0	..	0	−0·8	17·7	15·2	..	0	0	0	0	0	0	1	0	0	0	0
Nagaur	41·7	..	44·8	22,23	25·1	..	16·6	8	0	0	..	0	..	0	..	16·2	12.6	..	0	0	0	0	1	0	2	0	0	0	0
Jodhpur	42·0	+1·2	45·7	13	25·9	−0·4	17·8	8	0	2·6	−7·8	2·6	19	1	−0·1	17·6	14·1	−3·1	0	1	0	0	1	0	1	0	0	0	0
Barmer	42·6	+1·3	46·1	12	26·2	−0·5	20·6	9	0	0	−8·9	0	..	0	−0·7	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Rajasthan (East)																													
Pilani	41·9	..	45·7	23	24·6	..	16·6	8	2·2	2·2	..	1·2	18	0	..	20·6	15·0	..	0	2	0	0	1	0	2	0	0	0	0
Alwar	41·5	..	45·0	23	25·7	..	..	..	4·2	17·2	..	13·0	17	2	..	10·2	7·7	..	0	2	0	0	3	0	0	0	0	0	0
Sikar	38·1	..	42.2	14,23	24·2	..	..	..	0	25·9	..	25·9	17	1	..	11.5	10·3	..	0	1	0	0	1	0	0	0	0	0	0
Jaipur (Sanganer Aerodrome)	40·7	..	44·1	23	24·6	..	16·6	8	0	2·5	..	2·5	17	1	..	..	..	..	0	1	0	0	1	0	2	0	0	1	0
Dholpur	42·7	..	46·7	23	26·9	..	20·3	10	0	0	..	0	..	0	..	13·3	9·0	..	0	0	0	0	4	0	3	0	0	0	0

(R) Register not received. †Temporarily closed. *Data not reliable.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)—*Contd.*																													
Tonk	41·6	..	45·4	25	25·2	..	16·7	8	0	1.2	..	1·2	17	0	..	14·0	8·4	..	0	1	0	0	1	0	0	0	0	0	0
Ajmer	39·4	0	42·8	13,25	25·7	−1.1	17·2	9	0	0	−16·3	0	..	0	−1·5	16·3	13·3	+2·8	0	0	0	0	0	0	1	0	0	0	0
Kotah	42·4	+0·4	45·4	26	27.9	−1·3	22·3	8,9	17·2	21·3	+9·4	21·3	16	1	0	10·2	7·6	+1.0	1	0	0	0	3	0	0	0	0	0	0
Chambal	41·7	..	44·7	24	26·2	..	19.9	6	0	13·6	..	13·6	16	1	..	14·3	9·7	..	0	1	0	0	4	0	0	0	0	0	0
Jhalawar	42.1	+0·4	45·7	25	26.2	−0·7	18.4	9	0	1·8	−7·1	1·8	19	0	−0·9	11·7	9·0	+1.0	0	1	0	0	1	0	0	0	0	0	0
Udaipur	38·5	−0.7	42·1	24	23·5	−2·5	16·3	9	9.0	9·0	−9·3	9·0	18	1	−0·5	7·3	5·3	..	0	1	0	0	2	0	0	0	0	0	0
Erinpura (Jawai Dam)	40.3	..	44·2	12	26·6	..	17.8	8	0	0	..	0	..	0	..	10·4	8·3	..	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	43·7	+0.6	46.6	23	27·3	−1·3	20·3	9,10	1·4	1·4	−5·5	1·4	19	0	−0·9	14·0	9·4	..	0	1	0	0	3	0	1	0	0	0	0
Sheopur Kalan	42·4	..	45·4	23,25	25·0	..	18·8	8	0	10·0	..	10·0	16	1	..	13·9	9·5	..	0	1	0	0	3	0	1	0	0	0	0
Guna	41·3	0	44·7	25	23·9	−1·4	16·7	8	0	0	−13·7	0	..	0	−1·2	16·5	11·6	..	0	0	0	0	0	0	0	0	0	0	0
Rajgarh	42·2	..	45·3	25	25·7	..	16·7	9	0	6·2	..	6·2	19	1	..	14·3	11·0	..	0	1	0	0	0	0	0	0	0	0	0
Neemuch	40·2	+0·5	43·6	24	25·2	0	19·8	16	0	16·7	+1·7	16·7	16	1	−0·2	13·5	12·1	−1·3	0	1	0	0	1	0	0	0	0	0	0
Ratlam	40·0	..	43·9	12	24·2	..	20·1	6	0·2	2·4	..	2·2	17	0	..	9·9	9·3	..	1	1	0	0	1	0	0	0	0	0	0
Alirajpur	39·5	..	44·8	12	24·4	..	18·8	9	0	3·0	..	3·0	18	1	..	13.8	12·1	..	0	1	0	0	1	0	1	0	0	0	0
Indore	39·5	−0·6	43·2	24	23·4	−0·8	19·5	11	2.3	14·8	+1·9	12·5	19	1	−0·3	22·1	19·3	..	0	2	0	0	5	0	0	0	0	0	0
Ujjain	40·2	..	43·8	24	23·3	..	16.0	9	..	4·9	..	3·0	18	1	..	..	15·3	..	0	2	0	0	5	0	0	0	0	0	0
Bhopal (Bairagarh)	40·7	+0·3	44.1	26	25·0	−1·1	19·9	8	0	1·6	−12·9	1·6	19	0	−1·2	17·1	14·8	+1.1	0	1	0	0	1	1	1	0	0	0	0
Khandwa	41.6	0	45·4	12	26.4	−0.9	21·2	9	33·0	34·0	−26·1	33.0	18	1	+0·3	14·6	11·0	−1·9	0	2	0	0	2	0	0	0	0	0	0
Hoshangabad	41·9	+0·3	45·3	24	26·0	−1.2	22·2	1	0	0	−12·5	0	..	0	−1·2	7·9	6·8	+1·7	0	0	0	0	4	0	0	0	0	0	0
Betul	39·4	..	42·7	24	24·1	..	20·0	9	1·2	3·8	..	3·8	18	1	..	9·6	6·3	..	0	1	0	0	1	0	0	0	0	0	0
Chhindwara	40·0	..	43·3	25	25·7	..	20·6	9	3·7	3·7	..	3·7	16	1	..	10·4	7·1	..	0	1	0	0	2	0	0	0	0	0	0
Seoni	40·8	+1·0	43·6	24	25·6	+1·0	22·6	9	0	0	−19·3	0	..	0	−1·7	9·2	5·7	−0·4	0	0	0	0	1	0	0	0	0	0	0
Sagar	40.7	+0·3	43 8	24	28·8	+2·8	26·0	8	0	0	−10·7	0	..	0	−1·1	11·4	8·6	..	0	0	0	0	1	0	0	0	0	0	0
Nowgong	42·8	+0·9	45·6	23,24	25·1	−1·2	17·3	9	0	0	−9·4	0	..	0	−1·0	9·7	5·9	+1·4	0	0	0	0	1	0	0	0	0	0	0
Madhya Pradesh (East)																													
Sutna	42·0	+1·0	44·6	22,23	25·2	−1·4	18·7	9	7·2	9.2	−2·7	4·4	28	2	+0·7	11·0	7·1	−0·1	0	3	0	0	1	0	0	0	0	0	0
Sidhi	41·9	..	44·9	15	24·7	..	17·0	9	0	0	..	0	..	0	..	12·3	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Umaria	41·6	+0·8	44·5	23	25·2	−0·9	17·5	9	0	0	−10·9	0	..	0	−0·7	3·5	1·8	−3·8	0	0	0	0	1	0	0	0	0	0	0
Jabalpur	42·5	+1·7	45·7	24	25·0	−0·2	16·7	9	0	0	−15·7	0	..	0	−1·4	7·9	5·2	+0·4	0	0	0	0	0	0	0	0	0	0	0
Mandla	41·1	..	44·5	24	23·9	..	16·2	9	0·4	0.4	..	0·4	17	0	..	5·4	2 5	..	0	1	0	0	1	0	0	0	0	0	0
Pendra	39·5	+1.6	42·5	22	25·8	+0·6	20·4	9	0·2	0·2	−21·1	0·2	19	0	−2·1	10·8	8·1	..	1	0	0	0	1	0	0	0	0	0	0
Ambikapur	40 0	..	42·2	22	24·7	..	18·8	10	0	0	..	0	..	0	..	13.1	9·4	..	0	0	0	0	1	0	0	0	0	0	0
Champa	43·5	..	45·5	23	28·4	..	23·5	10	0	0	..	0	..	0	..	8·9	7·3	..	0	0	0	0	1	0	2	0	0	0	0
Raigarh	43·1	..	45·5	22	28·5	..	25·2	3	7·6	12.6	..	8·4	27	2	..	8·1	5·2	..	0	2	0	0	0	0	0	0	0	0	0
Raipur	42.8	+1·0	45·9	23,24	29·1	+1.3	24·6	1	0	0.2	−22·4	0·2	26	0	−2 1	10·8	9·8	−1·6	1	0	0	0	2	0	0	0	0	0	0
Kanker	40·6	+0·4	44·0	24	28·5	+2.2	23·4	9	0	14.0	−23·9	10·0	24	2	−0·7	12·3	9·0	+1·8	0	2	0	0	6	0	0	0	3	0	0
Jagdalpur	37·8	−0.5	41·2	24	24·4	+0·2	20·5	15	12·2	153·7	+93·8	42·4	5	8	+3·2	7·7	5·8	..	2	14	0	0	14	0	0	0	0	3	0
Gujarat																													
Deesa	41·0	..	45·0	12	..	..	..	..	0	0·3	..	0·3	16	0	..	12·5	9·7	..	0	1	0	0	1	0	0	0	0	0	0
Radhanpur	41·6	..	45·0	12	22·4	..	19.2	8,12	0	0	..	0	..	0	..	10.8	9·3	..	0	0	0	0	1	0	0	0	0	0	0
Idar	40·5	..	44·3	12	26·1	..	22·7	16	0	3·0	..	3·0	16	1	..	11·6	9·5	..	0	1	0	0	1	0	0	0	0	0	0
Ahmedabad	41·5	−0·1	45·0	11,12	25·5	−0·4	20·2	9	0	0	−9·9	0	..	0	−0 7	10·7	8·6	−0·9	0	0	0	0	2	0	0	0	0	0	0
Dohad	39·9	+0.5	44·6	12	25·1	−0·8	23·5	6,8, 11	0	1·2	−15·6	1·2	18	0	−0·5	22·1	22·2	..	0	1	0	0	1	0	1	0	0	0	0
Baroda	41·5	+1·2	46·7	11	26·1	+0·7	19·9	9	0	0	−5·1	0	..	0	−0·5	8·0	6·6	−2·7	0	0	0	0	0	0	0	0	0	0	0
Baroda (Aerodrome)	40·8	..	45·9	11	25·9	..	19·9	9	0	0	..	0	..	0	..	11.6	11·4	..	0	0	0	0	1	0	0	0	0	0	0
Broach	39·7	..	47.4	11	26·2	..	22·2	18	0	23·0	..	23·0	18	1	..	11·6	10·8	..	0	1	0	0	0	0	0	0	0	0	0
Surat	37·0	+0·7	44.6	8	26·9	+0·8	22·1	18	0	25·0	+18·9	25·0	18	1	+0·7	9·7	11·6	+1·0	0	1	0	0	1	0	0	0	0	0	0
Saurashtra and Kutch																													
Naliya	35·9	..	42·0	9,12	23·2	..	16·4	8	0	0	..	0	..	0	..	..	16·8	..	0	0	0	0	0	1	0	0	0	0	0
Bhuj (Aerodrome)	39 7	+1·0	43·9	12	24·0	−1·1	18·1	8	0	0	−6·6	0	..	0	−0 3	20·1	16·6	−2·6	0	0	0	0	0	0	0	0	0	0	0
Bhutakia Bhimasar	40·9	..	45.2	12	25·7	..	21.8	4	0	0	..	0	..	0	..	23.7	21·8	..	0	0	0	0	0	0	0	0	1	0	0
New Kandla	36·9	..	41·7	3	25·9	..	22·3	5	0	0	..	0	..	0	..	27·6	24·2	..	0	0	0	0	0	0	0	0	2	0	0
Mandvi	33·2	..	38·9	8	25·8	..	21.2	5	0	0	..	0	..	0	..	30·2	26·8	..	0	0	0	0	0	0	0	0	0	0	0
Dwarka	31·8	+0·7	38·9	8	26·2	−0·8	23·2	7	0	0	−0.5	0	..	0	−0·1	19·5	18.1	−0·2	0	0	0	0	0	0	0	0	0	0	0
Porbander	34·0	..	41·2	8	26·0	..	22·8	6	0	0	..	0	..	0	..	17·3	14·9	..	0	0	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22.7	17·7	..	..	..	0	0	0	0	0	0	0	0	0

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—*Contd.*																													
Jamnagar	37·5	+1·4	42·2	26	24·5	−0·3	19·4	8	0	0	−7·6	0	..	0	−0·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Rajkot (Aerodrome)	40·6	+0·1	44.4	12	24·0	0	19·1	9	0	0·8	−11·9	0·8	17	0	−0·6	24·2	23·0	..	0	1	0	0	3	0	1	0	0	0	0
Surendranagar	41·4	..	45·6	12	25·7	..	21·2	18	0	27·2	..	22·5	16	2	..	15.4	15·0	..	0	2	0	0	2	0	1	0	0	0	0
Bhavnagar	41·4	+0.7	45·6	11	25·7	+0·1	21·9	9	0	0	−10·4	0	..	0	−0·7	12·5	12·5	+0·9	0	0	0	0	1	0	1	0	0	0	0
Bhavnagar (Aerodrome.)	40·1	..	43·4	11	26·3	..	22·8	7	0	6·2	..	6·2	18	1	..	23·1	22·2	..	0	1	0	0	1	0	0	0	1	0	0
Mahuva	37·7	..	43·3	9	26·0	..	23·6	20	0	0·5	..	0·5	18	0	..	18·1	14·5	..	0	1	0	0	1	0	0	0	0	0	0
Keshod	38·4	..	44.4	11	24.8	..	19.9	5	0	0	..	0	..	0	..	24·4	20·4	..	0	0	0	0	0	1	0	0	0	0	0
Veraval	33·7	..	42·5	11	25·3	..	20·1	6	0	0	−7·1	0	..	0	−0·3	22·2	20·0	..	0	0	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu	33·4	+0·3	35·6	3,9	26·7	−0·2	23.5	18	0	27·0	+24.5	27·0	18	1	+0·8	21·2	15·6	−1·3	0	1	0	0	1	0	0	0	0	0	0
Bombay (Colaba)	34·1	+1·3	35·6	3	27·3	+0·9	23·4	30	0·4	39·6	+23.1	28.6	16	3	+2·2	12.5	10·2	−0·6	0	6	0	0	8	0	0	0	0	0	0
Bombay (Santacruz Aerodrome).	34·4	+2·0	38·6	2	27·1	+2·0	24·6	6	1·8	4·0	−15·8	2·0	29	0	−1.5	19·0	12·7	..	1	3	0	0	2	0	0	0	0	0	0
Alibag	32·8	+1·2	37·5	2	27·1	+0·9	24·3	17	..	2.8	−23·6	2·2	16	0	−0·8	..	14·7	+1·3	0	2	0	0	4	0	0	0	0	0	0
Harnai	31·8	+0·8	33·6	2	27·8	+1·0	24·6	16	0	51·7	+21·5	32·2	28	4	+1·0	15·4	13·2	−2·1	1	8	0	0	8	0	0	0	0	0	0
Ratnagiri	32·9	..	35·7	10	26·6	..	22·4	14	7·5	64·0	+36·1	28·2	14	5	+3·6	..	..	..	0	9	0	0	10	0	0	0	0	0	0
Devgad	32·5	−0·4	34·4	2	26·4	−0·9	21·7	12	8·6	147·8	+74·9	60·0	29	9	+5·6	17·8	14·9	−2·5	1	13	0	0	14	0	0	0	0	0	0
Vengurla	32·8	..	35·2	3	25·4	..	21·9	23	31·9	205·1	..	44·1	28	10	..	13·5	8·9	..	1	16	0	0	15	0	0	0	0	0	0
Maharashtra (Including Marathwada)																													
Nandurbar	40.4	..	46·0	11	27·0	..	23·4	17,18,	14·0	19·7	..	13·7	17	3	..	13·8	13·1	..	0	3	0	0	1	0	0	0	0	0	0
Jalgaon	42·6	..	46·1	11	26.7	..	21·2	10	7·0	8·6	−1·8	5.4	19	1	+0·1	23·1	22·2	..	0	3	0	0	2	0	0	0	0	0	0
Malegaon	40·8	+0·2	44·5	12	24·9	+1·0	22·2	9,10	0	0	−18·5	0	..	0	−1·2	13·1	12·8	−1·2	0	0	0	0	0	0	0	0	0	0	0
Deolali	37·3	..	42·8	11	23·3	..	20·0	26	4·3	53·8	..	27.9	26	3	..	15·8	14·2	..	0	4	0	0	7	0	0	0	0	0	0
Aurangabad	39·6	−0·1	43·2	12	..	..	..	..	0·6	19·2	+0.9	14·4	29	2	+0.7	14·3	15·2	−0·7	0	4	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome)	39·2	..	43·1	9	24·6	..	21·2	15	1·4	9·9	..	4·2	29	2	..	16·2	16·5	..	0	4	0	0	6	0	0	0	1	0	0
Khandala	..	..	..	..	..	..	..	..	..	139·4	+118·3	62·4	19	7	+5·7	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Ahmednagar	39·0	+0·2	43·7	9	23·6	+1·3	21·3	17,18, 19	16·4	57·6	+34·5	16·4	12	5	+3·4	9·9	8·1	−4·5	0	7	0	0	1	0	0	0	0	0	0
Bhir	40·7	..	47·0	4	25·0	..	21·4	24	17·8	47·3	..	17·8	20	4	..	11·8	9·5	..	0	4	0	0	0	0	0	0	0	0	0
Parbhani	41·1	..	44·0	7,8	26·0	..	21·4	26	17·6	51·0	+31·7	17·6	27	5	+3·6	13·1	12·1	..	1	5	0	1	8	0	1	0	0	0	0
Nanded	41·5	..	44.4	24	26·5	..	22·8	25	0	37.1	..	14·0	25	3	..	10·0	9·0	..	0	6	0	0	3	0	4	0	0	0	0
Poona	37·1	..	43·2	8	23·1	+0·7	19·9	12	25·3	85·5	+58·6	14·9	19	9	+7·3	6·5	5·0	−9·6	1	12	0	0	15	0	0	0	0	7	0
Poona (Lohagaon Aerodrome)	36·2	..	41·7	8	22·4	..	18.9	26	75·5	270·8	..	74·4	29	10	..	..	..	..	0	11	0	0	16	0	0	0	0	0	0
Baramati	37·3	..	41·5	7	23·9	..	21·3	20	30·6	65·9	..	28·2	27	6	..	11·9	11·9	..	1	7	0	0	8	0	0	0	0	0	0
Jeur	38·7	..	42·1	7,9	24·1	..	20·1	24	0	114·8	..	38·6	27	7	..	11·5	11·8	..	0	10	0	0	10	0	0	0	0	0	0
Sholapur	39·2	−1·2	42·6	6	25·3	+0·3	22·4	19	1·5	31·4	+8·8	15·8	19	3	+1·1	9·5	9·6	−3·6	0	11	0	0	7	0	0	0	0	0	0
Miraj	36·1	−1·2	41·0	6	22·9	+0·4	20·3	18	44·4	96·0	+48.0	30·6	13	6	−3·1	..	..	..	0	10	0	0	10	0	0	0	0	0	0
Kolhapur	35·1	−0·5	40·2	3	22·1	−0·2	19·7	1,12,15	19·7	130·5	+52·3	36·4	1	9	+4·5	13·3	11·2	−5·7	0	11	0	0	12	0	0	0	0	0	0
Vidarbha																													
Buldhana	38·4	..	42·0	9,11,12	25·4	..	20·0	16	0	19·2	..	19·2	16	1	..	12·6	12·4	..	0	1	0	0	0	0	0	0	0	0	0
Akola.	42·4	+0 1	45·0	9	27·3	+0·1	11.9	19	0	7·2	−3·2	4·1	24	2	+1·0	13·8	11·6	−0·1	0	2	0	0	1	0	0	0	0	0	0
Amravati	42·5	+0·5	46·5	24	..	..	..	..	0	2·8	−10·4	2·8	16	1	−0.3	19·4	12·8	+3·5	0	1	0	0	5	0	0	0	0	0	0
Yeotmal	41·9	..	45·0	24	..	..	..	..	0	0	..	0	..	0	..	14·4	13·7	..	0	0	0	0	0	0	0	0	0	0	0
Nagpur	42·6	−0·7	46·6	24	27·7	−1·0	21·8	9	0	0·3	−19·0	0·3	16	0	−2·0	14·0	12·8	..	0	1	0	0	1	0	0	0	0	3	0
Gondia	42·7	..	46·0	24	28·8	..	24·4	9	0	0·6	..	0·6	19	0	..	7·7	5·1	..	0	1	0	0	0	0	0	0	0	0	0
Brahmapuri	43·0	..	46·6	24	28·9	..	33·6	14	0	4·4	..	4·2	7	1	..	8·3	6·8	..	1	1	0	0	0	0	0	0	0	0	0
Chanda	42·7	−0·3	46·6	24	29.3	+1·5	24·3	16	0	10·4	−5·1	10·4	16	1	−0·4	11·7	8·8	+2·4	0	1	0	0	5	0	0	0	0	0	0
Sironcha	42·3	..	45·4	24	29·3	..	23·3	20	0	16·7	..	8·1	30	2	..	8·4	7·3	..	1	3	0	0	7	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Nellore	39·0	−1·1	43·0	24	27.3	−0·4	24·2	30	0	4·4	−23·3	4·4	30	1	−0·4	13·8	10·4	+1·4	0	1	0	0	1	0	0	0	0	0	0
Ongole	37·8	..	43·2	29	27·9	..	23·5	18	8·4	85·9	..	68·8	18	2	..	12·5	9·6	..	0	4	0	0	0	0	0	0	0	0	0
Rentachintala	41·3	−0·3	43·0	21,24	38·3	−0·7	12·5	18	0	14·4	−49·6	10·4	30	3	−0·8	9·5	10·0	−2·7	0	2	0	0	0	0	0	0	0	0	0
Gannavaram	39·8	..	43·2	28	27·6	..	25·1	18	0	1·8	..	1·2	18	0	..	18·7	15·0	..	0	2	0	0	4	0	0	0	0	0	0
Masulipatam	36·7	−0·8	42·1	24	27·5	−0·1	25·1	2	0	23.8	−9·7	23·8	25	1	−1·0	16·5	12·6	+2·0	0	1	0	0	0	0	0	0	0	0	0
Nidadavolu.	38·9	..	43·8	29	..	..	..	..	0	5·2	..	5·2	19	1	..	12·4	8·2	..	0	1	0	0	0	0	0	0	0	0	0
Kakinada	37·9	+0·6	42·5	22	27.6	0	25·5	14	0	5·0	−34·1	4·0	25	1	−1.5	14·7	10·8	+1·6	1	2	0	0	3	0	0	0	0	0	0
Visakhapatnam	37·1	+0·7	41·6	25	27·8	+0·5	25·5	27	0	4·9	−45·9	2.9	20	1	−1·7	23·3	17·1	+3·3	0	3	0	0	2	0	0	0	0	1	0
Calingapatam	33·9	−0.7	35.4	19,22	27·5	+0·4	23·3	27	0	34·0	−31·0	14·4	27	3	−0.2	22·5	17·6	−3·6	0	3	0	0	1	0	0	0	0	0	0
Telangana																													
Ramagundam	42·5	..	45·8	24	..	..	..	..	4.2	41·9	..	29·0	8	4	..	7·5	8·4	..	0	4	0	0	5	0	1	0	0	0	
Nizamabad*	40·3	−1·1	43	4 days	26·5	+0·9	19	1	0	47·2	+29·9	36·8	1	3	+1·6	..	..	..	0	3	0	0	0	0	0	0	0	0	
Mahbubnagar	38·5	..	40·6	7	25·5	..	21·9	12	1.8	14·7	..	12·7	30	1	..	11·1	10·3	..	1	3	0	0	3	0	0	0	0	0	
Hyderabad (Begumpet Aerodrome).	38·2	−0·3	40·4	7	25·6	−0·4	22·4	15	11·4	41·9	+14·2	20·0	25	4	+1·7	15·1	13·7	+2·3	0	4	0	0	7	0	0	0	0	0	
Hakimpet	37·2	..	39·7	7	24·2	..	20·5	15	0	55·4	..	17·0	25	4	..	..	..	..	0	4	0	0	10	0	0	0	0	0	

*Data obtained from Daily Weather Telegram.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean Minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and up 2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Telangana—*Contd.*																													
Hanamkonda	41·3	+1·0	45·0	24	27·8	+0·2	24·2	31	1·2	11·1	—19·9	8·4	31	1	—1·0	12·1	12·1	+2.0	0	5	0	0	3	0	0	0	0	0	0
Bhadrachallam	41·2	..	44·0	22	27·9	..	25·0	18	0	30·8	..	24·3	25	2	..	7·9	9·3	..	0	4	0	0	9	0	0	0	0	0	0
Khammameth	41·1	..	44·2	25	27·9	..	24·3	18	0	+·9	..	2·1	22	0	..	9·4	8·9	..	0	3	0	0	6	0	5	0	0	0	0
Rayalaseema																													
Arogyavaram	34·7	..	37·1	1	23·0	..	20·0	30	6·8	43·0	..	15·2	30	3	..	12·1	10·2	..	0	4	0	0	1	0	0	0	0	0	0
Cuddapah	40·2	—0·7	42·3	1	..	..	..	..	4·0	41·6	+3·3	39·2	30	1	—1·6	7·9	6·3	—3·5	0	3	0	0	0	0	0	0	0	0	0
Anantapur	38·7	..	41·5	8	26.0	..	22·0	30	10·8	26·6	—25·2	15·6	30	3	—0·7	14·1	13·9	..	0	3	0	0	4	0	0	0	0	0	0
Kurnool	39·2	—1·1	42·6	7	26·2	—1·0	22·6	30	1·2	27·9	+0·5	7·0	21	5	+2.5	16·6	12·8	+1·9	0	6	0	0	2	0	0	0	0	0	0
Madras State																													
Palayamkottai	33·7	..	36·4	28	25·6	..	22·7	4	53·6	74·0	+32·6	64·2	4	2	—0·5	14·7	11·1	..	0	6	0	0	1	0	0	0	0	0	0
Tuticorin	33·5	..	38·0	26	26·9	..	24·2	4	16·0	43·8	..	23·4	3	3	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Pamban	31·7	—1·5	33·0	2	27·1	—0·2	24·0	14	36·4	42·6	+18·0	25·4	11	3	+1·3	15·9	15·0	—1·3	0	3	0	0	0	0	0	0	0	0	0
Tondi	33·3	..	38·6	29	26·6	..	24·1	16	4·9	39·4	..	28·1	10	1	..	19·7	15·7	..	0	9	0	0	6	0	0	0	0	0	0
Mathurai	35·2	—1·9	38·1	26	25·5	—0·1	24·1	6,7	15·6	33·0	—36·6	11·8	17	4	—0·7	8·1	6·2	—0·7	0	7	0	0	0	0	0	0	0	0	0
Mathurai (Aerodrome)	34·7	..	37·3	26	25·1	..	23.2	8	27·8	43·9	..	14·4	21	5	..	14·3	10·9	..	0	8	0	0	5	0	0	0	0	0	0
Adirampattinam	33·7	..	37·0	16,30	25·3	..	21·4	19	0	48·0	..	43 6	19	2	..	19·0	15·1	..	0	3	0	0	0	0	0	0	0	0	0
Nagapattinam	35·0	—1·3	38·6	31	26·8	—0·3	24·4	16	0	2·4	—37·5	1·6	13	0	—1·8	17·5	13·1	+2·8	0	3	0	0	1	0	0	0	0	0	0
Tiruchirapalli	36·2	—1·9	38·3	1,28	26·0	—0·2	22·6	17	0·3	95·4	+11·3	78·0	17	3	—1·1	21·8	19·5	+4·1	2	3	0	0	6	0	0	0	0	0	0
Coimbatore	32·8	—1·9	37·8	1	23·3	+0·2	19·8	6	25·3	56·3	— 6.4	21 4	6	6	+1·5	15·3	10·6	+4·5	0	9	0	0	7	0	0	0	0	0	0
Coimbatore (Peelamedu Aerodrome)	33·1	..	38·1	1	22·8	..	15·7	6	60·0	78·5	..	29·4	17	7	..	27·5	23·3	..	0	11	0	0	8	0	1	0	2	0	0
Salem	34·9	—2·5	39·8	1	25·2	+0·2	21·9	16	18·6	156·2	—39·4	52·4	17	6	—1·1	11·4	9·7	+3·9	1	8	0	0	11	0	0	0	0	0	0
Kallakurichi	37·8	..	39·6	1	26·1	..	24·1	8	3·2	7·2	..	5·0	17	1	..	12·7	10·8	..	0	2	0	0	3	0	0	0	0	0	0
Cuddalore	35·8	—0·8	40·5	25,29	26·5	—0·4	24·5	8	0	0	—25·4	0	..	0	—1·3	13 1	10·1	+1·6	0	0	0	0	1	0	0	0	0	0	0
Tirupattur	36·7	..	39·6	1	26·0	..	23·0	17,18	2·0	34.7	..	16·7	18	2	..	6·4	4·0	..	0	3	0	0	1	0	0	0	0	0	0
Vellore	38·3	—0·5	39·9	26,29	26·1	0	23·9	1	0	10·4	—47·8	4·8	21	1	—2·8	15·0	11·6	+5·5	0	4	0	0	6	0	0	0	0	0	0
Tambaram (Aerodrome)	..	..	..	..	27·4	..	25·5	1	2·0	4·0	..	2·0	29,30	0	..	..	..	..	0	2	0	0	3	0	0	0	0	0	0
Madras	37·5	—1·0	41·3	24	27·7	+0·1	25·5	1	9·6	9·6	—16·6	9·6	30	1	—0·1	17·9	13·6	—0·6	0	1	0	0	3	0	1	0	0	1	0
Madras (Nungambakkam)	36·2	..	41·0	24	27·3	..	25·0	1	..	8.1	..	8.1	30	1	..	..	8·7	..	0	1	0	0	2	0	1	0	0	0	0
Coastal Mysore																													
Karwar	31.7	.	34·4	9	25·8	..	22·4	15	86·3	500·7	+418·7	89.0	28	15	+11·5	13·6	10·1	..	0	18	0	0	1	0	0	0	0	0	0
Honavar	32·1	—0·4	34·5	10	24·9	—1·2	21·4	30	104·0	510·1	+379·3	130·1	17	17	+11·4	10·6	8·9	+3·1	0	18	0	0	18	0	0	0	0	0	0
Mangalore	31·5	—1·2	34·0	11	24·5	—1·5	21·6	4	79·6	468·7	+311·7	104.5	29	20	+13·3	11·7	10·0	+1·1	0	23	0	0	2	0	0	0	0	0	0
Mangalore (Bajpe Aerodrome)	31·4	..	36·1	10	24·2	..	21·7	30	133·2	522.3	..	132·2	29	21	..	11·5	8·9	..	0	24	0	0	18	0	0	0	0	0	0
Interior Mysore (North)																													
Bidar	37·7	—1·3	39·5	5,7,23	24·4	—1·3	20·9	16	19·2	47·1	+23·7	20·3	30	5	+2·6	13·7	13·5	+0·8	1	9	0	0	6	0	0	0	0	0	0
Gulbarga	38·9	—1·6	42·0	8	25·3	—0·6	22·0	14	14·8	141·8	+113·3	82.6	30	6	+3·6	..	..	..	1	9	0	0	12	0	0	0	0	0	0
Bijapur	37·9	—0·8	42·0	8	24·5	+0·9	21·2	26	6·0	91·6	+63·1	40.0	26	8	+5·8	9·2	8·8	—2·0	2	10	0	0	8	0	0	0	0	0	0
Belgaum	33·2	—1·4	38·4	8	21·2	+1·0	17·7	7	121.2	246·8	+188 4	57·2	15	9	+4·7	11·9	7·8	—2·4	0	10	0	0	7	0	0	0	0	0	0
Belgaum (Sambre Aerodrome)	33·3	—0·7	38·6	8	21·5	+1·3	17·9	14	49·8	186·1	+127·7	62·2	15	7	+2·7	..	..	..	0	8	0	0	14	0	0	0	0	0	0
Gadag	35·8	—1·0	40·3	6	22·8	+0·2	20·1	15	42·7	86·0	+32·9	31·0	15	7	+2·9	12 6	12·3	—1·4	0	8	0	0	8	0	0	0	0	0	0
Raichur	39·2	—0·6	41·6	7	26·3	+0·1	23·1	31	2·8	24.2	—3.0	7·8	29	4	+1·7	15·3	14·0	+0·8	0	6	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	37·7	—1·2	41·6	9	25 8	+0·4	22·5	31	21.6	42·2	—5·8	15·6	18	5	+1·7	9·8	9·7	0	0	6	0	0	8	0	0	0	0	0	0
Chitaldrug	33·9	—1·2	38·1	10	22·3	+0·6	19·1	30	13·4	65·4	—9·3	28·4	16	3	—1·4	9·5	9·3	—0·5	0	7	0	0	5	0	0	0	0	0	0
Shimoga	33·4	..	38·4	9	22·4	..	20·1	16	61.4	83·3	..	43·0	17	6	..	8·2	5·7	..	0	9	0	0	9	0	0	0	0	0	0
Balehonnur	29.2	0	33·6	13	19 9	+0·4	16·1	30	..	99·3	—6·1	58·2	30	8	+2·0	..	..	..	0	11	0	0	0	0	0	0	0	0	0
Hassan	29·9	—2·0	34·3	1,3,9	20·3	+0·5	17·7	30	45·2	97·1	—20·2	31·4	4	10	+2·8	10·6	8·9	+0·4	1	15	0	1	14	3	0	0	0	0	0
Mysore	31·2	—2·1	36·4	9	..	..	..	..	31·8	141·0	—1·0	29·8	14	10	+2·1	10·7	8.5	—1·3	0	13	0	1	9	0	0	0	0	0	0
Bangalore (Central Observatory)	32·1	—0·8	36·2	1	21·3	+0·8	18·8	30	26·0	142·7	+37·0	53·0	17	7	+0·4	15·0	13·2	+4·3	0	7	0	0	7	0	0	0	0	2	0
Bangalore (Aerodrome)	33 0	..	37·1	1	21·5	..	19·0	18	28·3	99·4	..	39·4	18	4	..	..	..	..	0	5	0	0	6	0	0	0	0	3	0
Kerala																													
Kozhikode	31·4	—0·9	34·0	1	24·0	+1·7	21·9	30	117·2	503·2	+267·5	82·6	22	22	+13·3	13·7	10·7	—0·6	0	22	0	0	12	0	0	0	0	0	0
Palghat	31·7	..	37·6	3	24·1	..	21·0	6	114·5	293·4	..	65·2	6	17	..	13·1	10·2	..	0	20	0	0	11	0	0	0	0	0	0
Fort Cochin	30·3	—0·5	33·0	10	24·7	—1·0	22·8	5	291·4	829.4	+532·7	190·2	17	22	+9·7	10·5	9·1	+0·6	0	27	0	0	17	0	0	0	0	0	0
Cochin (Naval Air Station)	30·5	..	33·3	1	24·6	..	22·7	17	310·8	783·5	..	186·5	17	21	..	11·5	9·5	..	1	26	0	0	25	0	0	0	0	5	0
Alleppey	30·1	..	33·6	1	24·4	..	22·0	7	269·4	859·2	..	146·8	17	21	..	16·7	13·3	..	0	24	0	0	9	0	0	0	0	1	0
Punalur	30 7	..	35·7	2	23·8	..	22·8	4	228·7	637 1	..	92·0	6	23	..	5·8	3·3	..	0	23	0	0	1	0	0	0	0	0	0
Trivandrum	29·5	—2·4	34·6	27	23·4	—1·9	21.2	7	209·7	592·8	+369·8	111·4	6	23	+12·9	11·0	8·2	0	0	28	0	0	7	0	0	0	0	0	0
Trivandrum (Aerodrome)	30·1	..	33·0	2	23·0	..	21·5	7,13	..	595.0	..	100 8	6	22	..	..	7·4	..	0	25	0	0	6	0	0	0	0	0	0
Arabian Sea Islands																													
Minicoy*																													
Amini Divi*																													

*Data given as addenda in December, 1960 issue.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5mm or more): Total in the month	Departure from normal	Wind speed kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (1.0 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hill Stations excluding Kashmir																													
Walong (R)																													
Kohima	26·1	..	30·1	5 days	18·4	..	13·2	11	62·1	129·6	..	17·5	30	16	..	..	..	..	0	21	0	0	0	0	0	0	0	0	0
Aijal	28·5	..	33·1	1	19·5	..	12·8	30	169·2	387·4	..	68·1	21	15	..	1·4	0·9	..	0	16	0	0	0	0	0	0	0	0	0
Shillong	25·6	+2·3	30·7	2	17·1	+2·0	14·0	13	103·3	233·6	—53·2	34·2	28	16	—1·3	8·7	6·5	+0·5	0	17	0	0	1	0	0	0	0	0	0
Cherrapunji	23·6	+1·3	27·8	1,2	17·3	+1·2	14·7	5,19	263·1	1476·8	+195·6	309·2	30	23	+1·0	14·0	13·3	+4·4	0	24	0	0	0	0	0	0	0	0	0
Darjiling (Raj Bhawan).	20 1	+2·3	23·6	4	13·6	+1·3	10·8	15	28·1	194·7	—49·9	63·2	26	8	—6·4	4·1	3·7	+1·1	0	14	0	0	0	0	3	0	0	0	0
Kalimpong	26·3	+2·6	30·9	6	17·3	+0·2	12·9	1	71·1	154·9	—4·4	50·8	6	7	—4·8	4·4	4·2	—6·7	0	7	0	0	0	1	0	0	0	0	0
Mukteswar (Kumaon).	25·5	+2·7	28 9	9	14·5	+1·3	8·4	16,23	5·2	18·6	—39·8	7·0	16	2	—3·1	19·5	16·4	+5·1	0	7	0	0	9	0	0	0	0	0	0
Nainital	24·4	..	26·7	13,14	14·7	..	11·7	16	15·0	63·0	..	38·5	28	5	..	10·9	8·4	..	0	7	0	0	0	0	0	0	0	0	0
Joshimath	28.2	..	31·1	14	15·5	..	12·8	17	3·4	9·0	..	5·6	27	1	..	9·1	8·5	..	1	3	0	0	1	0	0	0	0	0	0
Badrinath†	10·7	..	..	..	8·3	..	..	..	..	11·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpal	3·1	..	4·8	31	+1·9	..	—3·1	1	..	4·8	..	2·0	28	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooree	25 6	+0·9	28·6	16	15·7	+0·9	8·7	16	40·4	51·6	—9·2	40·8	16	2	—2·3	11·5	9·0	+0·7	0	3	0	1	5	0	0	0	0	0	0
Simla	24·0	+1·1	27·4	14	15·3	+1·0	9·8	24	17·3	34·4	—29·9	12·1	28	4	—1·2	6·8	5·0	+2·3	0	5	0	0	4	0	0	0	0	0	0
Dharampore	..	..	..	..	..	..	..	..	..	18·5	—30·8	5·0	17	3	—0·4	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Dalhousie *																													
Dharamashala	32·1	..	35·5	22	21·7	..	16·7	28	3·4	15·2	..	8·2	17	2	..	10·3	7·5	..	0	3	0	0	9	0	0	0	0	0	0
Abu	32·5	+1·4	37·4	12,15	21·6	—0·1	16·9	9	0	0	—23·0	0	..	0	—1·3	3·9	3·0	—3·7	0	0	0	0	1	0	0	0	0	0	0
Pachmarhi	36·1	+0·7	39·2	26	23·5	—0·4	19·3	10	0	4·4	—11·3	3·8	18	1	—0·6	9·0	7·6	—0·9	0	2	0	0	1	0	0	0	0	0	0
Mahabaleshwar	27·9	—0·9	34·4	8	19·4	+1·2	15·0	30	48·4	107·1	+66·5	21·4	29	8	+5·6	10·0	10·4	—3·3	0	13	0	0	16	8	0	0	0	0	0
Mercara	25·7	—1·0	30·6	9	18·3	+0·2	15·8	30	101·2	174·6	+42.3	32·2	30	15	+6·5	12·3	9·6	+3·5	0	16	0	0	3	0	0	0	0	0	0
Kodaikanal	18·8	—1·4	21·9	26	12·3	—0·3	10·5	31	106·1	212·4	+50·6	41·0	19	15	+4·4	14·3	15·5	+4·1	0	19	0	0	9	0	0	0	1	0	0
Ootacamund	20 6	—0·7	23·9	3	11·1	—0·3	8·9	30,31	76·6	137·4	—22·4	30·8	21	10	—2·0	5·1	3·9	—0·4	1	14	0	0	6	0	0	0	0	0	0
Coonoor	23·6	—1·0	25·0	1	15·0	0	12·9	1	..	125·4	+19·5	29·6	11	8	+0·3	..	6·5	+1·2	0	12	0	0	5	0	0	0	0	0	0
Nepal																													
Katmandu	30·1	..	34·4	6	14·5	..	6·7	1	19·8	129·0	..	35.9	20	9	..	3·4	1·8	..	0	13	0	0	10	0	0	0	0	0	0
Sikkim																													
Lachen	16·6	..	20.0	9	8·5	..	—5·6	2	..	145·5	..	25·0	26	13	..	..	..	..	1	24	0	0	0	0	0	0	0	0	0
Tibet																													
Yatung (Chumbi) *																													
Ceylon																													
Colombo	30·2	—0·7	32.1	2	24·8	—0·5	21.8	13	167·4	357·3	+21·0	138·2	15	20	+5·9	..	..	..	0	27	0	0	4	0	0	0	0	0	0
Trincomalee	32·7	1·3	35.1	7	26·0	+0·3	23.9	15	44·7	56·7	—11·4	26·9	13	5	+1·6	..	..	..	0	6	0	0	4	0	0	0	0	0	0
Batticeloa	32·6	..	35·9	29	25·5	..	23.7	10	9.9	29·0	..	5·3	16	6	..	..	..	..	0	9	0	0	8	0	0	0	0	0	5
Hambantota	30·8	+0·4	34.4	18	25·5	+0·3	24.3	4,15	28·9	45·7	—72·4	10·9	7	8	+1·2	..	..	..	0	15	0	0	0	0	0	0	0	0	0
Mannar	31·8	..	33.7	2	26·4	..	22.9	14	1.6	29.3	..	11·7	14	3	..	..	..	..	0	7	0	0	4	0	0	0	0	0	0
Hydrometeorological Observatories—																													
Damodar Catchment																													
Bokaro	40 0	..	44·5	14	24·9	..	19·4	9	25·4	27·8	..	22·8	28	2	..	5·2	3·5	..	0	4	0	0	0	0	0	0	0	0	0
Hazaribagh	37·4	..	40·9	14,15	23·9	..	20·3	9	6·6	6·9	..	3·8	29	2	..	13·5	7·7	..	0	3	0	0	1	0	1	0	0	0	0
Tilaiya	38·8	..	42·5	14	25·5	..	20·0	10	4 0	9·2	..	5·8	21	2	..	14·9	10·5	..	0	3	0	0	1	0	0	0	0	0	0
Ramgarh	41·1	..	44·8	15	24·9	..	19·7	9	0	0	..	0	..	0	..	6·8	4·2	..	0	0	0	0	1	0	3	0	0	1	0
Panchet Hills	40·0	..	44·9	5,6,14	27·0	..	24·1	9	18·9	29·4	..	16·9	29	3	..	12·7	0·3	..	0	4	0	0	3	0	0	0	0	0	0
Durgapur	39·5	..	44·7	5,6	25·3	..	21·7	28	87·0	103·5	..	60·5	29	4	..	16·7	14·2	..	0	7	0	0	9	0	0	0	0	0	0
Maithon	40·0	..	45·8	14	25·7	..	22·5	1	..	19·8	..	17.5	29	1	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Konar	..	..	..	..	..	..	..	..	..	12·3	..	11·6	29	1	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Mahanadi Catchment																													
Hirakud	42·0	..	44·3	22	29·3	..	26·1	10	0	2·5	..	2·0	27	0	..	7.2	5·7	..	0	2	0	0	2	0	2	0	0	0	0
Khijrawan	40·9	..	44·4	24	27·6	..	22.4	9	0	2·5	..	2·5	26	1	..	14·0	9·0	..	0	1	0	0	2	0	0	0	0	0	0
Sonepur	42·7	..	45·0	22	19·8	..	18·3	1	..	9·0	..	8·8	20	1	..	..	7·3	..	1	1	..	..	..	..	..	..	..	..	..
Ginabahar	41·4	..	43·8	6,7	24·7	..	20·3	10	..	2·5	..	2·5	26	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Bhimkund	38.9	..	43.7	6	24·7	..	22·1	13	30·2	60·9	..	19·2	20	6	..	2·8	1·7	..	1	10	0	0	10	0	1	0	0	0	0
Narbada Catchment																													
Punasa	44·3	..	45·6	24	26·5	..	21·4	10	0	2·5	..	2·5	19	1	..	9·4	7·9	..	0	1	0	0	0	.0	0	0	0	0	0
Bagra Tawa	42·3	..	45·9	24	27·2	..	20·9	10	0	3·4	..	3·4	19	1	..	8·1	5·6	..	0	1	0	0	0	0	0	0	0	0	0
Thikri	42·1	..	46·2	12	27·1	..	22·6	18	..	60·0	..	46·0	18	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Jhadol	39·2	..	44·0	27,29	18·2	..	14·4	11,24	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dharoi	1·0	..	45·0	11,12	25·5	..	22·5	10	0	0	..	0	.	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..

†Observations for 21 days. (R) Register not received. *Data not available.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed (km. p. h.)			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories— *(Contd.)*																													
Ganga Catchment																													
Mukhim	27·1	..	30·2	14	16·3	..	10·5	19	9·2	38·3	..	22·8	19	4	..	..	..	..	0	6	0	1	7	0	0	0	0	1	0
Tehri	37·9	..	41·0	21	19·1	..	16·2	1,8	26·2	35·7	..	19·1	24	4	..	7·2	4·4	..	0	4	0	0	5	0	0	0	0	0	0
Gandak Catchment																													
Gorkha	30.5	..	35.1	1	18.5	..	15.3	21	12·0	221·2	..	60·2	16	7	..	..	..	..	0	9	..	.	..	..	..	..	..	..	..
Pokhara	32·1	..	37·0	9	20·0	..	15·8	16	58.0	240·6	..	68·4	23	10	..	7·0	5·7	..	0	16	0	0	17	0	0	0	0	0	0
Nawakot	33·1	..	38·0	8	20·3	..	16·5	29	21·6	105·6	..	25·6	20	7	..	..	..	..	1	10	..	..	..	..	..	.	..	..	..
Jomosom	23·0	..	25·2	9	8·2	..	4·7	7	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	..	173·5	..	44·4	29	13	..	..	..	..	0	14	..	..	..	..	..	..	..	..	..
Timure	27·6	..	30·7	8	16·5	..	14·3	17	2·6	20.5	..	7·1	14	3	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Gogra Catchment																													
Dandeldhura	28·2	..	31·6	14	(c) 16·9	..	(c) 10·6	17	19·6	31·6	..	11·6	16	4	..	..	..	..	0	4	0	0	9	0	0	0	0	0	0
Munsiywari	23·1	..	26·4	14	(b) 17·4	..	10·6	17	29·8	45·8	..	25·4	19	4	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Burwal	38.8	..	44.7	5	26·1	..	20·4	8	13·2	41·8	..	19·6	16	3	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Bagmati Catchment																													
Katmandu†																													
Kosi Catchment																													
Chautara	29·3	..	34·2	7	17·6	..	13·1	19	31·5	169·3	..	53·2	25	12	..	..	..	..	0	14	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	18·6	217·2	..	31·4	27	16	..	..	..	..	0	18	..	..	..	..	..	..	..	..	..
Okhaldunga	25·2	..	28·3	4,7,11	15·8	..	12·3	14, 16	46·9	126·4	..	26·4	14	11	..	6·0	4·2	..	0	14	0	0	7	6	0	0	0	0	0
Barahkshetra	35·8	..	40·7	8	24·2	..	20·4	19	30·6	168·3	..	37·3	28	11	..	12·3	7·6	..	0	13	0	0	14	0	0	0	0	0	0
Angbung	30·1	..	34·3	5	17·8	..	15·3	16	16.0	131·0	..	25·0	12	12	..	..	..	..	0	16	..	..	..	..	..	..	..	..	..
Taplejung	24·9	..	27·9	4	15·3	..	13·4	16	21·3	183·5	..	33·0	26	13	..	..	..	..	1	19	0	0	6	5	0	0	0	0	0
Taplethok	28·8	..	32·5	5	17·4	..	15·1	18	43·0	300·2	..	55·0	31	16	..	..	..	..	1	19	..	..	..	..	..	..	..	..	..
Wallungchung Gola	15·4	..	18·1	9	6·2	..	3·3	2	38·6	137·5	..	18·1	28	13	..	..	..	..	0	18	..	..	..	..	..	..	..	..	..
Bhojpur	..	..	..	..	..	..	..	..	9·6	197·9	..	54·4	18	9	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Chainpur	30·4	..	34·5	4,9	(a) 20·0	..	15.2	15	10·0	83·4	..	18·8	22	7	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Tista Catchment																													
Gangtok	22·8	..	26·5	4	14·5	..	12·0	15	105·1	560·3	..	79·6	12	20	..	5·0	4·8	..	0	24	0	1	13	9	0	0	0	0	0
Geyzing	26·2	..	30·0	4	16·2	..	14·0	5	67·8	240·8	..	64·3	26	13	..	..	..	..	0	14	..	..	..	..	..	..	..	..	..

(R) Register not received. †Data included under "Nepal". (b) Mean of 29 days. (c) Mean of 28 days. (a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p h.): 62 or more	Wind speed (km. p h.): 20 to 61	Wind speed (km. p h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1007·5	1004·4	..	29·2	27·2	26·4	34·5	85	..	5·3	..	5·9	0	0	30	1	2	1	0	0	8	3	0	1	15
	1730	„	1005·4	1002·3	..	28·3	26·6	25·9	33·5	87	..	5·6	..	5·6	0	0	26	0	1	0	0	1	9	2	0	5	13
Long Island	0830	25	1007·8	1005·0	..	28·8	26·4	25·4	32·6	82	..	5·6	..	1·2	0	0	8	0	0	0	0	0	8	0	0	23	0
	1730	„	1005·3	1002·5	..	28·0	26·0	25·1	31·9	84	..	6·6	..	0·2	0	0	2	0	0	0	0	0	1	1	0	29	0
Port Blair	0530	79	1006·6	997·6	..	25·9	25·2	24·9	31·3	95	..	6·6	..	6·6	0	0	22	0	0	2	0	0	10	10	0	9	0
	0830	„	1008·1	999·3	−0·5	29·1	26·2	25·0	31·5	79	+1	6·9	+1·3	10·5	0	1	30	0	1	4	2	1	13	9	1	0	0
	1130	„	1007·2	998·4	..	29·2	26·3	25·7	31·0	80	..	6·9	..	12·8	0	2	29	0	2	5	3	2	13	4	1	0	1
	1730	„	1005·8	997·0	..	27·4	25·6	24·8	31·2	86	..	7·0	..	8·3	0	0	28	1	0	2	2	1	11	8	3	3	0
	2330	„	1007·2	998·3	..	26·1	25·3	25·0	31·7	94	..	5·6	..	8·1	0	1	26	1	0	1	1	0	11	11	2	4	0
Car Nicobar	0830	10	1008·7	1007·5	..	28·9	25·9	24·6	31·0	78	..	7·0	..	5·9	0	0	27	0	0	3	4	0	18	1	1	4	0
	1730	„	1006·6	1005·4	..	27·8	25·6	24·6	30·9	83	..	7·0	..	3·6	0	0	18	0	0	0	2	0	14	2	0	13	0
Nancowry	0830	26	1009·1	1006·2	..	28·1	25·7	24·7	31·2	82	..	6·5	..	5·0	0	1	12	0	0	0	0	6	7	0	0	18	0
	1730	„	1006·9	1004·0	..	27·5	25·8	24·8	31·9	85	..	6·2	..	2·6	0	0	9	0	0	0	0	4	5	0	0	22	0
Kondul	0830	8	1009·4	1008·5	..	28·1	25·6	24·6	29·6	82	..	6·4	..	6·0	0	2	24	1	0	0	17	2	4	0	2	5	0
	1730	„	1007·0	1006·1	..	26·8	25·3	24·6	28·1	88	..	6·7	..	3·2	0	1	10	0	0	0	7	2	1	1	0	20	0
Assam (Including Manipur, Tripura)																											
Passighat	0830	157	1006·1	988·5	..	25·2	22·1	20·2	23·7	74	..	6·5	..	13·0	0	7	19	2	0	1	0	1	1	1	20	5	0
	1730	..	1002·3	984·7	..	27·0	23·2	21·3	25·4	73	..	6·6	..	5·7	0	1	14	2	0	1	1	0	1	1	9	16	0
Digboi	*0830	..	..	..	..	25·5	22·9	21·3	23·1	79	..	5·0	..	2·2	0	0	15	3	2	3	1	0	0	3	3	8	0
	†1730	..	..	..	..	28·0	24·5	23·0	24·6	75	..	4·1	..	2·0	0	0	12	2	6	2	0	2	0	0	0	9	0
Dibrugarh	0830	106	1006·2	994·3	−0·5	26·1	23·2	21·7	26·0	79	−4	6·7	+1·3	2·3	0	0	19	1	5	9	0	1	1	1	1	12	0
	1730	„	1002·0	990·9	..	27·8	*24·3	22·7	27·5	75	..	6·2	..	1·6	0	0	15	2	6	5	1	0	1	0	0	16	0
Dibrugarh (Mohanbari Aerodrome)	0230	111	1003·4	990·8	..	22·7	21·7	21·2	25·0	91	..	6·1	..	3·0	0	0	15	2	7	3	0	0	1	0	2	16	0
	0530	„	1004·7	992·1	..	22·7	21·7	20·9	25·0	90	..	6·2	..	3·3	0	0	13	0	8	2	1	0	2	0	0	18	0
	0830	„	1006·3	993·7	..	26·0	23·0	21·4	25·6	77	..	6·5	..	3·8	0	0	18	1	10	3	1	0	1	2	0	13	0
	1130	„	1005·1	992·7	..	28·1	23·6	21·4	25·6	69	..	6·7	..	5·1	0	1	24	1	13	7	1	0	2	1	0	6	0
	1730	„	1002·0	989·5	..	27·5	23·8	22·0	26·6	77	..	6·2	..	4·3	0	0	20	5	10	3	0	0	1	0	1	11	0
	2330	„	1003·7	991·1	..	23·5	22·2	21·6	25·8	89	..	5·9	..	4·0	0	0	13	2	7	2	0	0	0	2	0	18	0
North Lakhimpur	0830	102	1006·2	994·7	..	25·8	23·3	22·0	26·5	81	..	6·2	..	4·6	0	0	26	8	3	4	4	3	1	1	2	5	0
	1130	„	1005·3	993·9	..	28·2	23·9	21·8	26·1	70	..	6·3	..	7·0	0	2	28	4	7	5	5	3	5	1	0	1	0
	1730	„	1002·3	990·9	..	27·7	24·5	23·0	27·5	76	..	5·2	..	5·0	0	0	27	1	10	7	1	2	3	2	1	4	0
Sibsagar	0830	97	1005·6	995·8	−0·8	26·5	23·7	22·5	26·9	80	−4	6·4	+0·1	3·1	0	0	24	8	10	4	0	0	2	0	0	7	0
	1730	„	1002·6	991·9	..	28·3	24·6	22·8	27·8	74	..	5·7	.	3·6	0	0	22	7	14	1	0	0	0	0	0	9	0
Jorhat	0530	90	1004·4	993·8	..	23·1	22·3	21·9	26·2	94	..	6·2	..	6·5	0	1	20	2	12	3	0	1	1	2	0	10	0
	0830	„	1005·7	995·6	..	25·7	23·5	22·1	27·2	81	..	6·3	..	7·7	0	1	23	3	15	6	0	0	0	0	0	7	0
	1130	„	1004·6	994·6	..	28·7	24·3	21·8	26·9	70	..	5·9	..	10·7	0	2	25	3	16	4	0	1	0	2	1	4	0
	1730	„	1001·1	991·8	..	28·1	24·1	22·0	26·9	69	..	4·6	..	9·7	0	1	24	3	16	4	0	0	2	0	0	6	0
	2330	..	1003·4	993·2	..	23·9	22·9	22·3	26·8	91	..	4·1	..	6·0	0	1	16	3	11	1	2	0	0	0	0	14	0
Golaghat	0830	..	..	..	..	26·5	23·5	21·6	27·0	75	..	5·1	..	..	0	0	0	0	0	0	0	0	0	0	0	31	0
	‡1730	..	..	..	..	28·7	24·2	21·5	26·6	67	..	4·5	..	..	0	0	2	0	1	0	1	0	0	0	0	28	0
Gohpur (R)	0830																										
(R)	1730																										
Tezpur	0830	79	1006·1	997·2	−1·8	26·0	23·7	22·4	29·0	81	0	5·8	+0·6	5·2	0	0	31	0	14	12	1	0	3	1	0	0	0
	1730	„	1002·0	993·6	..	29·7	26·3	24·7	31·5	77	..	4·3	..	4·2	0	0	31	0	13	7	5	0	5	0	1	0	0
Tezpur (P.B.O.)	0230	78	1003·2	994·6	..	23·9	22·3	21·3	25·6	86	..	5·1	..	1·7	0	0	7	1	0	6	0	0	0	0	0	24	0
	0530	„	1004·8	995·8	..	23·6	22·1	21·2	25·5	87	..	5·9	..	2·1	0	0	16	2	6	7	0	0	0	0	1	15	0
	0830	„	1006·5	997·4	..	26·3	23·8	21·6	26·4	78	..	5·9	..	2·7	0	0	20	0	4	15	0	0	1	0	0	11	0
	1130	„	1005·1	996·3	..	28·7	24·1	21·7	26·3	68	..	5·0	..	4·2	0	0	20	0	4	13	0	1	1	1	0	11	0
	1730	„	1001·7	992·8	..	28·9	24·3	21·8	26·7	67	..	4·2	..	3·0	0	0	15	0	4	11	0	0	0	0	0	16	0
	2330	„	1003·7	994·8	..	24·9	22·9	21·8	26·4	84	..	4·7	..	3·5	0	0	15	0	1	12	1	1	0	0	0	16	0
Majbat	0830	..	..	..	..	..	..	..	..	..	..	6·6	..	8·1	0	0	30	3	12	9	1	0	2	2	1	1	0
	1730	..	..	..	..	..	..	..	..	..	..	5·1	..	4·8	0	0	23	3	6	7	2	0	2	2	1	8	0
Chaparmukh	0830	66	1006·6	999·2	..	27·6	23·9	21·9	26·8	75	..	4·9	..	5·4	0	0	30	0	8	5	10	0	2	1	4	1	0
	1730	„	1001·5	994·3	..	29·9	24·7	22·1	26·8	66	..	4·0	..	2·6	0	0	16	2	7	1	2	0	1	0	3	15	0
Tangla	0830	78	1005·5	996·9	..	25·9	23·2	21·8	26·4	79	..	5·1	..	2·1	0	0	14	1	3	5	2	1	0	1	1	17	0
	1730	„	1001·0	992·3	..	29·2	25·3	23·9	29·0	73	..	3·1	..	0·7	0	0	6	0	1	1	2	0	0	2	0	25	0
Gauhati	0830	55	1005·6	999·3	−1·4	26·8	23·7	22·0	26·9	77	−2	5·0	0	2·1	0	0	22	0	13	2	1	0	0	0	6	9	0
	1730	„	1000·5	994·4	..	30·3	25·0	22·4	27·4	66	..	4·5	..	1·5	0	0	15	3	8	4	0	0	0	0	0	16	0

*Observation for 23 days. †Observations for 21 days. ‡Observations for 30 days. (R) Register not received.

Division and station	Hour of observation I.S.T.	Stations elevation metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in (km. p. h.)	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, and Tripura)—(*Contd.*)																											
Gauhati (Bhorjor Aerodrome)	0230	54	1002·9	996·7	..	24·4	22·9	22·1	26·7	88	..	5·1	..	5·9	0	0	20	1	6	5	1	2	1	1	3	11	0
	0530	,,	1003·9	997·7	..	23.3	22·7	22·1	26.7	90	..	5·5	..	4·4	0	0	20	1	10	4	1	0	2	2	0	11	0
	0830	,,	1005.4	999·3	..	27·4	23·8	20·7	26 6	75	..	5·3	..	7·4	0	2	23	5	10	3	3	1	1	1	1	6	0
	1130	,,	1004·1	998·0	..	30·2	25 0	22·3	27·2	67	..	4·6	..	1 1	0	4	26	10	12	4	0	0	0	3	1	1	0
	1730	,,	1000·4	994·3	..	30·3	24·8	21·8	26·7	65	..	5 5	..	7·9	0	3	23	8	8	2	0	3	0	3	2	5	0
	2330	,,	1002·9	996·8	..	25·5	23·7	22·8	27·8	86	..	5 2		5·4	0	2	13	2	11	1	1	0	0	0	0	16	0
Rangiya	*0830	..	..	..	..	26·4	23·5	21·8	26·6	79	..	4·9	..	7·4	0	0	28	1	9	12	2	0	0	2	2	1	0
	†1730	..	..	..	..	29·8	25·1	22.5	27·9	67	.	3·2	..	4·1	0	0	24	1	8	10	2	0	0	2	1	3	0
Goalpara	0830	38	1005 2	1001·0	..	29·3	23·4	20·8	25·7	64	—4.0	4.8	+2.4	3·9	0	0	30	2	15	1	7	0	4	0	1	1	0
	1730	,,	1000·8	996·5	..	31·1	25·8	22·8	29·0	68	..	4 9	..	3·2	0	0	28	0	15	0	6	0	3	1	3	3	0
Dhubri	0830	35	1005·2	1001·3	—1·5	27·8	24·7	23·3	28·7	78	—4	3·8	—1·2	5 6	0	0	23	0	15	3	4	0	0	0	1	8	0
	1730	,,	1000·5	996·6	..	30·4	25 7	23·0	29·1	70	..	2·5	..	4·6	0	0	21	1	10	2	2	4	2	0	0	10	0
Dhubri (Rupsi Aerodrome)	0530	36	1002·7	998·6	..	24·2	22·8	22·1	26·6	80	..	5·3	..	5·5	0	1	18	0	3	12	2	1	1	0	0	12	0
	0830	,,	1004 2	1000·2	..	28·3	24·6	22·8	27·9	74	..	4·6	..	7·8	0	2	24	0	3	10	10	1	1	1	0	5	0
	1130	,,	1002·9	998·9	..	31·5	25·8	23·0	28·6	64	..	4·5	..	8·2	0	1	28	0	2	11	9	2	3	2	0	2	0
	1730	,,	999·1	995·1	..	31·9	25·0	21·8	26·0	61	..	4·1	..	4·0	0	0	21	0	3	8	3	0	5	1	1	10	0
Tura	0830	370	1006·5	965·5	..	27·5	23·5	21·2	25·7	72	..	5·4	..	6·8	0	0	26	1	2	2	2	8	4	5	2	5	0
	1730	,,	1001·3	916·3	..	30·8	24·7	21·3	26·2	62	.	4·7	..	7·0	0	0	31	2	2	3	4	8	10	2	0	0	0
Agartala	0230	16	1002·5	1000·7	..	26·2	24·6	23·8	29·5	87	.	4·1	..	11·0	0	0	28	2	1	2	7	12	2	1	1	3	0
	0530	,,	1003·4	1001·6	..	26·2	24·7	24·1	29·8	88	.	4·8	..	9·9	0	0	31	0	2	4	13	10	2	0	0	0	0
	0830	,,	1004·8	1003.1	..	30·3	25·8	23·8	29·5	69	..	5·2	..	14·0	0	4	27	0	3	2	4	17	5	0	0	0	0
	1130	,,	1003·6	1001·9	..	33·4	26·0	22·6	27·5	56	..	4·9	..	14·6	0	8	21	0	1	3	5	13	5	0	2	2	0
	1730	,,	1000·5	998·7	..	31·2	25·4	22·7	27·8	63	..	4·5	..	14·2	0	7	24	1	1	1	3	19	1	4	1	0	0
	2330	,,	1003·0	1001·2	..	27·0	24·9	23·7	29.8	83	..	4·7	..	10·9	0	1	29	0	1	1	9	14	2	3	0	1	0
Kailashar	0530	29	1004·9	1001·6	..	25·4	24·2	24·0	29·2	90	..	5·9	..	2·1	0	0	12	3	1	0	1	6	0	0	1	19	0
	0830	,,	1006·4	1003·2	..	28·9	25·4	23·7	29·7	75	..	5·5	..	6·5	0	0	26	1	5	1	4	12	2	1	0	5	0
	1130	,,	1004·9	1001·7	..	32.5	25·9	23·0	27·8	59	..	5·6	..	6·5	0	0	26	1	3	3	1	14	4	0	0	5	0
	1730	,,	1001·5	998·3	..	31·7	25·6	22·6	27·7	61	..	5·2	..	4·6	0	0	19	3	2	0	0	4	7	2	1	12	0
Silchar	0830	29	1006·3	1003·0	—1·3	27·8	24·5	22·8	27 9	76	—4	4·8	—0·2	2·8	0	0	26	3	4	5	5	0	3	3	3	5	0
	1730	,,	1001·3	998·0	..	30·4	25·6	23·5	28·8	68	..	3·5	..	1·6	0	0	17	2	2	2	2	0	1	3	5	14	0
Silchar (Kumbhigram Aerodrome)	0530	97	1003·6	992·6	..	23·9	22·7	22·0	26·5	90	..	6·2	..	8·3	0	0	29	2	3	15	3	0	1	3	2	2	0
	0830	,,	1004·9	994·0	..	27·5	24·2	22·5	27·4	75	..	5·1	..	11·0	0	3	28	1	1	16	3	1	4	4	1	0	0
	1130	,,	1003·5	992·7	..	30·8	24·9	22·2	26·6	62	..	4·1	..	11·9	0	3	28	0	4	4	1	4	8	7	3	0	0
	1730	,,	999·7	989·0	..	30·0	24·8	22·3	27·0	65	..	4·0	..	6·6	0	0	31	2	1	5	3	1	2	9	8	0	0
Imphal	0530	801	1006·7	918·8	..	20·6	18·9	18·0	20·6	86	..	5·4	..	1·5	0	0	9	0	2	0	0	3	3	1	0	22	0
	0830	,,	1006·4	919·8	..	25 6	20 9	18 6	21·3	66	..	5·1	..	5·1	0	0	24	2	2	2	3	2	11	1	1	7	0
	1130	,,	1002·6	918·1	..	28·9	21·7	17·8	20·6	53	..	5·1	..	16·6	0	12	18	1	1	1	1	3	18	2	2	1	1
	1730	,,	1001·7	916·1	..	27·5	21·0	17·3	20·2	56	..	4·8	..	16·2	0	1	27	1	2	0	2	3	12	6	2	3	0
	2330	,,	1005·6	917·7	..	22·7	19·7	18·1	20·7	77	..	5·3	..	2·4	0	0	12	1	1	0	1	1	6	2	0	19	0
Haflong	0830	682	1005·7	930·8	..	24·0	21·1	19·6	22·9	79	..	4·7	..	10·7	0	5	24	2	3	1	0	7	14	1	1	2	0
	1730	,,	999·6	926·0	..	26·7	22·0	19·6	23·0	67	..	4·5	..	10·3	0	4	27	2	0	0	3	3	21	0	2	0	0
Lumding	0830	149	1005·4	988·7	..	28·4	26·4	25·4	32·8	85	..	4·5	..	2·2	0	0	21	0	2	7	6	1	5	0	0	10	0
	1730	,,	1001·0	984·6	..	31·5	29·1	28·2	38·2	83	..	4·5	..	2·6	0	0	26	2	4	5	3	0	8	0	4	5	0
Sub-Himalayan West Bengal																											
Cooch-Behar	0830	43	1004·7	999·9	..	28·0	24·2	21·9	27·0	72	..	4·6	..	16·1	0	8	23	0	7	14	5	3	0	0	1	0	1
	1130	,,	1003·5	998·8	..	31·4	25·1	21·9	26·6	60	..	4 4	..	15·4	0	9	22	0	6	13	6	4	2	0	0	0	0
	1730	,,	999·8	995·1	..	31·2	25·0	21·4	26·6	61	..	3·5	..	7·5	0	1	23	0	12	7	2	0	1	1	1	7	0
Jalpaiguri	0830	83	1004·6	995·2	—1·9	27·1	23·6	21·8	27·4	74	—5	2·6	—1·2	13·8	0	6	25	2	10	13	3	1	1	0	1	0	0
	1730	,,	999·5	990·4	..	31·9	24·7	20·7	25·1	56	..	1·7	..	10·8	0	2	27	2	10	7	5	2	0	2	1	2	0
Bagdogra	0230	131	1001·7	986·9	..	25·2	21·9	20·0	23·7	75	..	3·3	..	5·4	0	0	25	5	4	12	2	1	1	0	0	6	0
	0530	,,	1002·7	987·9	..	24·4	21·8	20·3	24·1	80	..	5·0	..	7.0	0	0	28	2	5	14	5	1	0	0	1	3	0
	0830	,,	1004·2	989·5	..	28·5	23·5	20·8	24.9	65	..	5·6	..	11·2	0	1	29	0	1	23	5	0	0	1	0	1	0
	1130	,,	1003·0	988·5	..	31·8	24·4	20·4	24·5	54	..	5·5	..	12·4	0	2	29	1	3	17	8	1	0	1	0	0	0
	1730	,,	999·4	984·9	..	31·2	24·2	21·1	24·6	56	..	4·2	..	8·5	0	1	26	4	8	8	4	1	1	1	0	4	0
	2330	,,	1002·2	987·5	..	26·6	22·9	20·8	26·3	73	..	3·7	..	7·1	0	1	23	3	9	10	2	0	0	0	0	7	0
Malda	0330	31	1003·3	999·8	—1·9	30·6	24·7	21·8	26·4	63	—8	4·0	+0·6	10·1	0	0	31	1	1	14	5	4	4	1	1	0	0
	1730	,,	998·9	995·5	..	34·8	24·6	19·4	22·5	46	..	3·4	..	7·8	0	0	30	2	4	7	5	2	2	2	6	1	0
Gangetic West Bengal																											
Dum Dum	0230	6	1000·9	1000·2	..	27·7	26·1	25·4	32·5	87	..	3·4	..	9·2	0	0	30	1	3	1	6	11	7	1	0	1	0
	0530	,,	1001.8	1001·1	..	27.2	25·9	25·3	32·3	89	..	4·6	..	6·9	0	0	28	2	3	3	1	10	9	0	0	3	0

*Observations for 29 days.

†Observations for 27 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km per hour	Wind speed (km p. h.): 62 or more	Wind speed (km p. h.): 20 to 61	Wind speed (km p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal—(*Contd.*)																											
Dum Dum—(*Contd.*)	0830	6	1003·2	1002·5	..	31·2	27·2	25·6	32·9	73	..	4·0	..	11·0	0	3	28	0	2	1	2	13	9	3	1	0	0
	1130	"	1002·4	1001·7	..	34·0	27·7	25·1	31·9	61	..	3·4	..	12·4	0	5	26	0	3	2	1	16	9	0	0	0	0
	1730	"	999·7	999·0	..	31·6	26·7	24·6	31·2	68	..	4·3	..	11·0	0	2	27	0	2	2	4	17	3	1	0	2	0
	2330	"	1001·9	1001·2	..	28·1	26·3	25·5	32·9	86	..	4·3	..	10·1	0	0	31	1	1	2	6	15	6	0	0	0	0
Calcutta (Aerodrome)	0830	6	1003·1	1002·4	−1·9	31·3	26·8	25·0	31·5	70	−4	4·1	−0·1	13·0	0	5	26	0	2	2	1	10	14	1	1	0	0
	1130	"	1002·3	1001·6	..	34·8	27·4	24·1	30·6	56	..	3·4	..	12·2	0	5	26	0	1	3	0	10	15	2	0	0	0
	1730	"	999·6	998·9	..	31·6	26·5	24·4	31·3	67	..	4·3	..	13·4	0	6	25	0	1	4	2	11	11	1	1	0	0
Barrackpore	0530	7	1001·9	1001·1	..	27·8	25·7	24·5	30·0	84	..	3·5	..	8·1	0	1	22	0	3	3	2	11	4	0	0	8	0
	0830	"	1003·5	1002·7	..	31·3	26·9	24·6	31·9	70	..	3·8	..	13·7	0	5	26	0	2	3	2	15	7	1	1	0	0
	1130	"	1002·6	1001·9	..	34·8	27·4	24·3	30·3	56	..	3·4	..	12·9	0	7	23	0	3	2	11	9	4	1	0	1	0
	1730	"	999·5	998·8	..	31·7	26·3	23·5	29·9	64	..	4·0	..	13·1	0	4	25	0	2	4	4	16	2	0	1	2	0
	2330	"	1001·9	1001·1	..	29·1	26·3	25·0	31·9	79	..	2·1	..	8·5	0	1	23	0	1	3	5	13	1	1	0	7	0
Saugor Island	0830	3	1003·4	1003·1	−1·6	29·9	27·7	26·9	35·4	84	+9	5·0	0	31·4	0	24	6	0	2	1	1	10	15	1	0	1	0
	1730	"	1000·0	999·7	..	29·8	27·5	26·6	34·8	84	..	4·8	..	35·1	1	24	6	0	2	2	6	13	7	1	0	0	0
Sandheads	0530	10	1001·5	1000·4	..	28·7	27·0	26·2	34·2	86	..	4·6	..	23·7	1	20	9	0	1	2	0	5	20	1	1	1	0
	0830	"	1003·5	1002·4	−1·8	29·5	27·4	26·6	34·9	84	+5	4·2	+0·4	20·4	0	13	17	1	1	1	1	7	17	2	0	1	0
	1130	"	1003·3	1002·2	..	30·0	27·6	26·6	33·3	82	..	3·7	..	19·3	0	14	16	1	0	1	2	5	19	2	0	1	0
	1730	"	999·8	998·7	..	29·5	27·4	26·5	34·9	83	..	3·5	..	23·6	0	19	12	0	1	2	1	13	14	0	0	0	0
	2330	"	1002·2	1001·1	..	28·8	27·1	26·4	34·6	89	..	0·7	..	22·9	0	16	15	1	1	1	2	7	18	1	0	0	0
Contai	0830	11	1003·3	1002·1	..	31·0	27·3	25·7	33·4	75	..	3·3	..	12·6	0	3	27	1	3	0	0	10	15	1	0	1	0
	1730	"	1000·6	999·4	..	30·2	27·5	26·4	34·6	80	..	3·3	..	15·5	0	6	25	2	1	0	3	16	9	0	0	0	0
Midnapore	0830	45	1003·0	998·0	−1·6	32·9	26·1	22·8	28·3	58	−11	2·3	−0·6	6·0	0	0	27	0	2	0	0	16	6	1	2	4	0
	1730	"	999·0	994·0	..	34·1	26.2	22·3	26·4	55	..	4·3	..	12·0	0	5	24	0	1	0	4	18	4	2	0	2	0
Purulia	0830	255	1002·7	975·0	..	31·8	23·6	19·3	22·4	47	..	4·0	..	4·1	0	0	31	3	3	1	4	3	5	1	11	0	0
	1730	"	997·7	971·1	..	36·4	23·2	13·2	17·5	32	..	4·8	..	6·3	0	1	27	4	8	0	3	3	0	0	9	3	1
Burdwan	0830	32	1003·0	999·4	−1·7	30·5	26·3	23·9	32·5	69	−5	3·4	−0·8	12·3	0	2	28	1	2	5	1	4	16	1	0	1	0
	1730	"	998·6	995·0	..	34·9	25·3	19·8	24·3	51	..	3·5	..	14·2	0	7	24	1	1	5	4	10	4	5	1	0	0
Krishnagar	0830	15	1003·4	1001·7	−1·6	31·1	26·5	24·5	30·8	69	−6	2·5	−1·5	4·2	0	0	31	0	0	0	1	29	1	0	0	0	0
	1730	"	999·3	997·7	..	33·4	25·3	20·9	25·7	55	..	2·6	..	4·7	0	0	29	0	0	5	2	20	0	2	0	2	0
Asansol	0230	126	1000·4	986·3	..	28·2	23·6	21·0	25·3	69	..	2·5	..	7·7	0	1	22	0	2	6	5	6	1	0	3	8	0
	0530	"	1001·2	987·1	..	26·6	23·5	21·5	25·5	75	..	3·9	..	4·3	0	0	14	0	1	6	2	3	0	0	2	17	0
	0830	"	1002·8	988·8	−1·2	32·1	24·4	20·0	24·4	54	−9	3·2	+0·1	7·6	0	0	26	0	4	7	1	5	2	3	4	5	0
	1130	"	1001·4	987·7	.	36·8	24·9	17·1	21·9	40	..	3·3	..	8·3	0	0	25	0	1	9	2	1	2	2	8	6	0
	1730	"	997·8	984·2	.	36·7	24·1	15·5	19·8	37	..	3·6	..	8·8	0	0	27	1	3	7	3	1	1	3	8	4	0
	2330	"	1000·9	986·8	..	29·6	24·6	21·5	26·8	66	..	2·7	..	9·8	0	0	25	0	0	6	9	6	1	1	2	6	0
Suri	0830	77	1003·4	994·9	..	31·3	24·5	20·4	25·2	54	..	4·3	.	11·4	0	1	30	2	4	4	3	9	5	2	2	0	0
	1730	"	998·9	990·5	..	36·1	23·5	14·9	18·6	39	..	4·2	..	9·1	0	1	29	2	4	7	3	3	5	4	2	1	0
Berhampore	0830	19	1002·9	1000·7	−2·4	29·6	25·6	23·6	29·5	71	−2	4·0	−0·4	2·8	0	0	10	1	0	3	0	4	1	0	0	21	1
	1730	"	998·7	996·6	..	34·1	25·0	19·7	24·2	51	..	4·0	..	1·7	0	0	8	0	0	6	0	2	0	0	0	23	0
Orissa																											
Baripada	0830	54	1003·9	997·9	..	31·0	26·2	24·0	30·2	68	..	3·6	..	2·6	0	0	22	3	1	0	7	6	3	1	1	9	0
	1730	"	999·6	993·7	..	33·7	26·0	22·3	28·1	55	..	4·8	..	4·8	0	0	30	0	2	4	12	7	2	1	1	1	1
Balasore	0830	20	1003·0	1000·8	−1·6	30·9	26·9	25·1	34·1	72	..	3·6	+0·1	17·3	0	16	14	2	1	0	2	9	16	0	0	1	0
	1730	"	999·6	997·4	..	31·5	27·0	24·9	31·9	71	.	5·1	..	17·3	0	16	13	1	0	0	6	17	4	0	1	2	0
Chandbali	0830	6	1004·2	1003·5	−0·4	30·8	27·1	26·0	32·0	75	+2	4·3	−0·4	10·6	0	1	30	1	0	1	3	3	20	1	2	0	0
	1730	"	1001·5	1000·8	..	32·2	27·5	25·8	31·2	69	.	5·2	..	17·1	0	10	21	0	1	2	14	7	5	0	2	0	0
Cuttack	0830	27	1003·1	1000·2	−2·0	31·0	26.8	25·0	31·8	71	+1	2·8	−1·1	3·8	0	0	13	0	0	0	0	4	9	0	0	18	0
	1730	"	999·4	996·5	..	34·1	26·6	23·2	28·6	55	..	4·5	..	7·1	0	0	23	0	0	1	0	15	7	0	0	8	0
Bhubaneswar	0230	46	1001·4	996·2	..	27·9	26·0	25·3	32·1	86	..	3·8	..	23·3	0	19	8	0	0	0	0	5	20	2	0	4	0
	0530	"	1002·2	997·0	..	27·4	25·9	25·1	32·2	87	..	5·2	..	20·6	0	16	13	1	0	0	1	4	20	2	1	2	0
	0830	"	1003·8	998·6	..	31·2	26·5	24·4	30·8	68	..	3·5	..	24·0	0	13	11	0	1	0	1	4	19	2	2	2	0
	1130	"	1002·8	997·7	..	35·6	26·6	22·4	27·5	49	..	2·5	..	20·3	0	12	18	1	1	0	3	11	13	1	0	1	0
	1730	"	1000·2	995·1	..	32·7	26·4	23·3	30·9	60	..	4·4	..	32·9	0	25	6	1	1	1	1	11	16	0	0	0	0
	2330	"	1002·5	997·3	..	28·7	26·3	25·2	32·3	81	..	3·3	..	25·7	0	22	5	1	0	0	3	5	17	1	0	4	0
Puri	0830	6	1004·3	1003·6	−0·8	29·4	28·2	27·8	38·9	90	+9	4·7	+0·9	24·3	0	21	10	2	0	1	1	1	23	3	0	0	0
	1730	"	1000·7	1000·1	..	29·3	28·5	28·2	38·3	94	..	6·7	..	(a) 28·9	0	24	6	0	0	0	3	2	23	1	1	0	0
Gopalpur	0530	17	1002·2	1000·3	..	27·1	26·5	26·1	34·1	95	..	4·1	.	20·2	0	18	9	0	0	0	0	13	13	0	1	4	0
	0830	"	1003·9	1002·0	−1·1	28·9	27·1	26·4	34·3	86	+7	3·5	+1·1	19·0	0	17	12	2	0	1	0	12	14	0	0	2	0
	1130	"	1003·4	1001·5	..	30·8	28·1	27·2	35·6	81	..	3·1	..	25·4	0	14	17	0	0	1	3	15	12	0	0	0	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed, (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(Contd.)																											
Gopalpur—(*Contd.*)	1730	17	1000·9	999·0	..	28·8	27·4	26·8	35·4	90	..	5·3	..	28·3	0	25	5	1	0	0	1	14	14	0	0	1	0
	2330	,,	1002·7	1000·8	..	27·6	26·9	26·7	35·2	95	..	2·8	..	24·6	0	23	5	0	0	0	1	11	15	0	1	3	0
Koraput	0830	913	1488·1	907·9	..	25·4	20·5	17·8	20·9	63	..	2·1	..	..	0	2	29	0	0	0	0	2	23	5	1	0	0
	1730	,,	1471·6	905·3	..	29·9	19·8	13·4	15·9	38	..	5·1	..	..	0	4	27	0	0	2	3	2	9	1	9	0	0
Titilagarh	0530	211	1008·1	979·3	..	34·9	25·2	21·2	24·3	45	..	0·9	..	3·0	0	0	31	1	5	0	6	2	15	1	1	0	0
	1730	,,	997·9	975·5	..	40·0	27·3	21·3	25·9	36	..	0·7	..	3·0	0	0	31	0	6	0	8	1	14	0	2	0	0
Bolangir	0830	190	1002·4	981·9	..	33·1	27·0	24·0	30·7	61	..	3·2	..	9·7	0	2	29	4	1	2	3	11	8	0	2	0	0
	1730	,,	999·3	978·9	..	40·1	28·3	23·0	28·7	39	..	4·8	..	10·9	0	5	26	10	4	3	3	4	3	0	3	0	1
Phulbani	0830	464	1000·9	951·0	..	31·9	24·3	20·3	24·7	53	..	1·2	..	0·7	0	0	5	2	0	0	1	0	2	0	0	26	0
	1730	,,	996·5	947·6	..	37·0	25·1	19·4	23·1	36	..	3·2	..	3·8	0	0	20	4	2	4	2	0	3	4	1	11	0
Angul	0830	139	1003·7	988·3	—0·7	30·3	25·5	23·0	28·7	66	0	3·8	+0·3	3·0	0	0	27	0	3	4	6	11	1	0	2	4	0
	1730	,,	998·7	983·8	..	38·0	24·6	16·6	21·3	33	..	6·3	..	5·5	0	0	31	0	2	5	3	10	7	1	3	0	0
Keonjhar	0830	463	1002·9	950·0	..	31·0	24·1	20·8	24·8	57	..	3·0	..	5·1	0	0	29	3	3	4	4	3	5	5	2	2	0
	1730	,,	998·4	946·4	..	35·6	24·0	16·8	21·4	40	..	5·0	..	4·7	0	0	31	2	2	6	5	3	3	7	3	0	0
Sambalpur	0830	148	1002·7	986·4	—1·5	34·2	24·4	19·3	22·5	43	—5	2·8	+0·4	2·4	0	0	15	0	0	1	1	4	7	2	0	16	0
	1730	,,	997·5	981·7	..	39·6	23·9	14·9	16·8	26	..	3·6	..	2·4	0	0	12	2	0	1	2	3	2	1	1	19	0
Jharsuguda	0230	230	1000·0	974·7	..	29·1	22·2	17·7	23·5	50	..	3·0	..	4·3	0	0	24	1	2	1	7	6	6	1	0	7	0
	0530	,,	1001·2	975·8	..	28·5	21·9	17·7	20·9	54	..	4·2	..	4·1	0	0	28	2	5	3	7	6	5	0	0	3	0
	0830	,,	1002·6	977·5	..	33·6	23·7	17·9	21·1	41	..	3·3	..	6·7	0	0	30	1	4	0	7	3	11	1	3	1	0
	1130	,,	1001·1	976·5	..	38·8	23·7	14·0	17·0	25	..	3·3	..	7·6	0	0	30	1	5	1	3	2	8	4	6	1	0
	1730	,,	996·9	972·4	..	39·2	22·7	10·7	13·9	21	..	4·6	..	7·0	0	0	28	1	1	3	2	5	8	2	6	3	0
	2330	,,	1000·3	975·2	..	32·0	22·0	16·1	18·3	40	..	3·3	.	6·7	0	1	26	3	3	3	9	4	4	0	1	4	0
Bihar Plateau																											
Jamshedpur	0830	129	1002·8	988·5	—0·8	31·6	24·5	20·9	26·4	55	—3	3·2	+0·4	8·0	0	1	29	0	2	5	1	0	6	12	4	1	0
	1730	,,	997·5	983·7	..	37·5	24·0	15·0	18·8	33	..	4·5	..	9·2	0	3	27	0	1	8	5	2	1	7	6	1	0
Jamshedpur (P.B.O.)	0530	142	1001·6	985·9	..	27·8	23·4	21·0	52·2	69	..	4·0	..	3·5	0	0	13	0	4	4	0	1	1	1	2	18	0
	0830	,,	1002·8	987·1	..	32·0	24·2	20·0	23·4	52	..	3·3	..	4·8	0	0	19	0	8	0	0	2	4	2	3	12	0
	1130	,,	1001·4	986·0	..	37·2	24·2	15·9	19·5	34	..	3·2	..	8·2	0	1	30	2	4	3	0	4	8	3	5	0	0
	1730	,,	997·6	982·4	..	37·8	23·4	12·7	17·1	30	..	4·7	..	9·7	0	3	25	0	5	7	2	2	3	3	6	3	0
	2330	,,	1001·1	985·5	..	30·9	24·3	20·6	26·4	58	..	2·8	..	6·7	0	0	23	1	5	9	2	1	2	1	2	8	0
Chaibasa	0830	226	1002·6	977·9	—1·0	33·0	23·7	18·9	21·8	45	—14	3·3	+0·8	2·4	0	0	24	0	9	0	0	0	15	0	0	7	0
	1730	,,	997·4	973·1	..	37·4	22·8	12·8	15·8	29	..	4·6	..	2·7	0	0	22	0	9	0	3	0	7	0	3	9	0
Ranchi	0830	655	1003·3	933·6	+0·9	32·6	21·9	15·4	16·6	40	—7	2·2	0	0·2	0	0	2	0	1	0	1	0	0	0	0	29	0
	1730	,,	997·8	928·6	..	34·0	21·7	15·1	17·1	34	..	2·7	..	0·2	0	0	2	0	0	1	1	0	0	0	0	29	0
Ranchi (C.W.O.)	0530	652	1001·8	930·6	..	25·4	18·4	12·5	17·2	52	..	3·7	..	3·6	0	0	18	0	1	1	1	1	10	1	3	13	0
	0830	,,	1001·7	932·2	..	31·0	20·0	13·4	15·3	36	..	3·4	.	8·0	0	0	26	3	3	2	4	2	11	1	2	3	0
	1130	,,	1000·5	931·5	..	34·9	20·2	9·0	12·8	26	..	3·5	..	10·4	0	0	31	6	2	0	6	1	8	0	6	0	0
	†1730	,,	998·2	929·1	..	35·4	20·1	7·9	12·2	25	..	4·0	.	10·0	0	0	23	4	3	2	2	0	2	2	8	0	0
Daltonganj*	0830	221	1002·0	978·0	—1·1	34·3	21·7	12·5	15·6	30	—10	3·1	+1·7	..	..	..	..	..	..	..	..	.	..	..	..	..	..
	1730	,,	997·1	973·5	..	38·9	21·8	7·5	12·1	19	..	3·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	1001·8	936·5	—0·4	32·2	20·2	12·9	14·9	35	—10	3·5	+1·1	6.7	0	0	28	1	3	3	1	3	7	5	5	3	0
	1730	,,	997·2	932·8	..	35·6	20·4	8·6	13·0	25	..	3·4	..	10·2	0	1	30	6	3	5	0	2	1	3	11	0	0
Dhanbad	0830	257	1002·7	974·5	..	32·3	23·9	18·8	22·9	51	..	2·9	..	3·9	0	0	25	1	2	4	4	1	7	4	2	6	0
	1730	,,	998·5	970·7	..	35·2	24·5	18·4	22·0	43	..	(a) 3·3	..	(a) 3·2	0	0	22	1	2	4	5	0	5	3	2	8	0
Dumka	0830	149	1003·1	986·7	—1·2	31·3	24·4	20·7	26·5	60	—2	3·7	+1·0	6·5	0	0	18	0	4	4	6	0	2	1	1	13	0
	1730	,,	998·7	982·4	..	35·6	24·4	17·8	21·6	43	..	3·0	..	6·0	0	0	22	0	1	6	3	2	2	6	2	9	0
Bihar Plains—																											
Purnea	0830	38	1003·2	999·3	—1·8	28·9	24·1	21·3	26·2	67	—5	3·3	—0·1	4·3	0	0	27	1	5	19	1	0	1	0	0	4	0
	1730	,,	999·0	994·9	..	34·1	24·2	18·0	21·5	46	..	2·0	..	3·1	0	0	18	0	4	6	3	1	1	3	0	13	0
Forbesganj	0830	61	1003·4	996·7	..	29·4	24·4	21·7	26·6	66	..	3·5	..	8·3	0	0	30	0	4	21	5	0	0	0	0	1	0
	1730	,,	998·5	992·2	..	34·8	24·4	17·7	23·3	43	..	2·6	..	5·4	0	0	27	0	2	8	5	0	0	9	3	4	0
Darbhanga	0830	49	1003·6	997·8	—1·3	30·9	24·0	19·6	24·2	55	—9	1·6	—0·8	5·1	0	0	28	0	11	12	1	1	2	1	0	3	0
	1730	,,	998·6	993.1	..	36·0	24·4	16·6	21·0	39	..	1·8	..	4·6	0	0	30	3	6	7	1	0	2	5	6	1	0
Motihari	0830	66	1003·3	995.9	—0·9	31·5	25·2	20·9	26·7	57	—6	0·8	—1·0	(a) 4·3	0	0	19	0	4	7	8	0	0	0	0	11	0
	1730	,,	999·1	991·7	..	34·3	27·7	24·1	31·7	62	..	(b) 0·5	..	(b) 1·6	0	0	10	0	2	1	2	1	0	1	3	19	0
Chapra	0830	..	..	..	..	31·7	22·1	15·3	18·8	44	..	2·5	..	8·9	0	1	29	0	3	6	6	2	10	3	0	1	0
	1730	..	..	..	..	37·6	24·1	13·5	18·9	30	..	1·6	.	7·7	0	0	31	0	3	5	5	1	3	11	3	0	0
Patna	0830	53	1002·5	996·7	—1·4	32·0	22·8	16·3	20·2	44	—14	2·9	+1·1	9·4	0	0	28	1	6	10	3	0	1	6	2	2	0
	1730	,,	998·1	992·3	..	37·5	23·5	13·9	17·6	30	..	2·0	..	7·6	0	0	29	1	6	7	0	0	0	11	4	2	0
Patna (Aerodrome)	0530	60	1000·5	993·7	..	25·9	20·4	15·6	19·5	57	..	2·8	..	7·4	0	0	16	0	1	13	1	0	0	1	0	15	0
	0830	,,	1001·9	995·3	..	31·8	22·1	14·9	18·7	45	..	2·2	..	14·0	0	3	26	1	0	11	4	2	1	4	5	2	1
	1130	,,	1001·2	994·7	..	36·8	23·3	13·8	17·8	32	..	2.3		14·4	0	5	21	0	2	7	5	0	2	4	6	5	0

*Wind data not reliable. (a) Mean of 30 days. (b) Mean of 29 days. †Observations for 23 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in C: Dry bulb	Mean temperature in C: Wet bulb	Mean temperature in C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed Km. p. h.: 62 or more	Wind speed Km. p. h.: 20 to 61	Wind speed Km. p. h.: 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*)																											
Patna (Aerodrome) (*contd.*)	1730	60	997·7	991·1	..	38·2	22·9	13·2	15·4	27	..	1·4	..	12·8	0	4	23	1	5	7	0	0	0	2	12	4	0
	2330	52	1000·5	994·7	..	30·7	22·3	17·6	20·2	50	..	0·7	..	6·1	0	0	16	0	0	14	0	0	0	2	0	15	0
Dehri	0830	107	1001·9	990·2	..	34·2	21·6	11·7	15·6	31	..	1·7	..	4·0	0	0	31	1	5	6	3	1	12	3	0	0	0
	1730	,,	996.9	985·4	..	39·6	23·0	11·7	14·6	28	..	0·9	..	4·7	0	0	31	0	10	2	0	0	1	1	17	0	0
Gaya	0230	116	1000·1	987·1	..	27.9	20·1	14·1	16·5	46	..	0·8	..	4·8	0	1	25	0	1	7	4	6	6	2	0	5	0
	0530	,,	1001·0	987·9	..	36·6	19·8	14·1	18·9	51	..	2·5	..	9·0	0	2	27	0	0	10	4	8	4	2	1	2	0
	0830	,,	1002·5	989·6	−0·7	34·3	22·9	15·1	18·7	37	+1	2·6	+1·0	15·3	0	6	25	0	0	8	5	2	8	6	2	0	0
	1130	,,	1001·6	989·0	..	38·9	23·6	12·4	16·7	28	..	2·9	..	17·7	0	12	19	2	3	7	2	1	0	7	8	0	1
	1730	,,	997·7	985·2	..	39·6	23·8	12·6	16·7	25	..	2·7	..	25·8	0	15	16	3	7	4	0	0	0	6	11	0	0
	2330	,,	1000·6	987·7	..	30·7	21·0	13·6	17·0	40	..	1·2	..	10·8	0	6	17	0	2	8	5	0	1	5	2	8	0
Jamui	0830	82	1002·8	993·5	..	33·1	23·6	17·7	21·4	45	..	2·4	..	3·6	0	0	15	0	1	8	2	0	0	4	0	16	0
	1730	,,	998·4	989·3	..	37·1	24·4	16·5	19·6	36	..	1·4	..	2·6	0	0	14	0	1	5	0	0	0	7	1	17	0
Bhagalpur	0530	49	1001·8	996·3	..	26·1	21·6	18·1	22·2	67	..	3.3	..	7·3	0	8	16	1	2	12	3	3	1	1	1	7	0
	0830	,,	1003·0	997·5	..	31·1	23·5	18·7	22·7	54	..	2·3	..	9 0	0	3	23	0	1	11	5	1	2	2	4	5	0
	1130	,,	1002·4	997·1	..	35·4	24·3	16·8	21·4	42	..	3·2	..	10·5	0	13	14	1	4	11	4	0	0	4	3	4	0
	1730	,,	998·8	993·4	..	35·1	24·1	15·9	20.9	42	..	2·8	..	10·2	0	1	28	0	2	8	5	1	0	8	5	2	0
	2330	,,	1001·2	995·8	..	29·8	22 6	17·3	21·4	55	..	1·3	..	8·3	0	7	20	0	1	7	6	5	1	5	2	4	0
Sabour	0830	37	1002·9	998.7	−1·3	30·5	23·7	19·9	25·3	60	−4	3·3	−0·5	9·0	0	1	29	1	4	14	2	0	3	5	1	1	0
	1730	,,	998·3	994·3	..	35·4	25·1	18·2	23·4	45	..	2·6	..	9·2	0	1	26	2	0	10	3	1	0	3	8	4	0
Uttar Pradesh (East)																											
Gonda	0830	110	1002·2	990·0	..	32·3	22·8	16·6	18·9	42	−5	0·5	−1·0	3·5	0	0	25	2	0	13	0	0	0	5	5	6	0
	1730	,,	997·6	985·7	..	38·6	23·6	14·1	16·1	26	..	0·9	..	2·9	0	0	21	1	0	4	0	0	0	4	12	10	0
Nautanwa	0830	99	1002·7	991·7	..	30·8	20·9	16·2	18·4	45	..	1·0		7·7	0	0	30	1	0	11	11	4	0	2	1	1	0
	1730	,,	998·0	987·3	..	37·5	23·1	12·3	14·3	27	..	0·4	..	10 3	0	1	28	1	2	8	6	0	1	7	4	2	0
Gorakhpur	0830	77	1002·0	993·3	−2·1	32·7	22·0	14·3	16·3	37	−21	0·9	−0·5	3·4	0	0	27	0	1	10	2	0	0	14	0	0	0
	1730	,,	998·2	989·7	..	38·7	23·3	12·3	14·3	25	..	1.2	..	3·1	0	0	27	1	2	8	1	0		14	0	0	0
Gorakhpur (P.B.O.)	0230	78	999.5	990·8	..	29·1	21·1	15·3	17·4	47	..	0·9	..	5·3	0	0	24	3	3	7	2	1	3	4	1	7	0
	0530	,,	1000·6	991·8	..	26·5	20·3	15·3	17·4	53	..	2·2	..	4·6	0	0	24	1	6	8	0	1	3	4	1	7	0
	1130	,,	1001·7	993·1	..	36·2	22·9	13·3	15·3	31	..	1·8	..	10·3	0	1	29	1	2	8	3	5	4	4	3	1	0
	2330	,,	1000·3	991·6	..	30·6	22·0	16·2	18·4	46	..	0·8	..	7·0	0	1	25	3	2	6	2	2	4	4	3	5	0
Azamgarh	0 30	78	1001·8	993·2	..	32·6	22·5	15·7	17·8	41	..	0·8	..	3·4	0	0	31	0	0	12	0	1	0	18	0	0	0
	1730	,,	997·6	989 0	..	38·9	23·9	14·8	16·8	26	..	0·4	..	3·2	0	0	30	0	0	9	0	1	0	20	0	1	0
Ballia	0380	64	1002 7	995·0	..	31·9	22·2	15·8	17·9	43	..	1·9	..	4·7	0	1	26	0	4	7	2	0	4	8	2	4	0
	1730	,,	998·2	991 3	..	39·0	24·6	16·1	18·3	26	..	1·7	..	5·5	0	0	25	1	2	4	3	0	0	6	9	6	0
Varanasi (Banaras)	0830	76	1001·8	993·4	−1·5	32·8	24·2	19·2	22·2	48	+3	2·2	+0 3	4·5	0	0	27	2	7	3	1	3	5	5	1	4	0
	1730	,,	997 8	989·6	..	40·0	26·0	18·2	20·9	30	..	1·8	..	6.3	0	0	28	3	3	1	1	0	1	10	9	3	0
Varanasi (Banaras) (Babatpur Aerodrome)	0530	85	1001 6	992 0	..	28·5	19·6	14·4	16.4	50	..	2·0	.	9·5	0	0	29	0	3	8	1	0	12	4	1	2	0
	0830	,,	1003 0	993·6	..	33·2	22·4	14·9	16·9	38	..	1·9	..	14·5	0	1	30	1	2	7	1	1	12	6	1	0	0
	1130	,,	1002·3	993·0	..	38·8	24·0	14·6	16·6	27	.	1·7	..	17·3	0	9	22	0	4	5	1	0	2	8	9	0	2
	1730	,,	998·6	989·1	..	39·6	24·1	14·4	16·4	25	..	1·5	..	15·7	0	9	20	2	4	3	1	0	2	10	7	2	0
	2330	,,	1001·3	981·8	..	30·2	21·2	15·2	17·3	41	..	0·8	..	10·8	0	4	23	2	5	5	2	2	5	4	4	4	0
Allahabad (Bamrauli)	0230	98	999·6	988·7	..	28·7	18·8	10·8	12·9	35	..	1·2	..	3·5	0	0	18	0	1	7	1	0	4	2	2	13	0
	0530	,,	1000 5	989·5	..	27·0	18·3	11·0	13·1	40	..	2·6	.	2·8	0	0	17	1	1	7	0	1	3	4	0	14	0
	0830	,,	1002·3	991·3	−1 4	33 6	20·7	9 5	11·9	28	−8	1·5	+0 1	7·1	0	0	29	1	2	6	0	3	1	11	5	2	0
	1130	,,	1001·5	991·0	..	39.6	22.1	6 5	9.7	19	..	1 2	..	9·5	0	1	29	1	7	3	0	0	3	9	6	1	1
	1730	,,	997·6	987·1	..	40·4	21·5	3·9	8·1	15	..	1·8	.	9·8	0	0	29	3	5	1	0	0	1	7	12	2	0
	2330	,,	1000·2	989·3	..	30·9	19·7	11·1	13·2	31	..	1·4	.	4·4	0	1	13	0	2	6	0	1	1	1	3	17	0
Sultanpur	0830	97	1001·9	991·3	..	34·6	22·8	15·2	17·3	34	..	0·6	.	3·1	0	0	29	1	0	7	0	0	1	19	1	2	0
	1730	,,	999·8	989·3	..	38·6	23·2	14·1	16·1	24	..	0·6	..	2 7	0	0	28	0	0	1	0	1	0	26	0	3	0
Faizabad	0830	102	1001·9	990 7	..	31·0	21·8	15·7	17·8	42	..	1·4	..	6·1	0	0	28	0	2	5	5	0	2	12	2	3	0
	1730	,,	997·2	986·3	..	37·5	23·3	14·3	16·3	27	..	1·7	.	3·9	0	0	22	0	2	1	3	0	1	15	0	9	0
Banda	0830	121	1002·1	988·8	..	34·5	23·5	17·9	20·5	38	..	0·9	..	3·8	0	0	22	0	4	0	2	1	4	5	6	9	0
	1730	,,	998·4	985·4	..	41 6	25·9	17·8	20·4	26	..	1·8	..	5·2	0	0	31	0	6	1	0	0	8	0	16	0	0
Fatehpur	0830	114	1002·1	989·5	..	32·9	21·3	12·8	14·8	32	−12	0·9	−0·4	7·5	0	0	31	0	4	4	2	0	7	3	11	0	0
	1730	,,	997·5	985·3	..	40·0	22·6	9·1	11·5	17	..	1·1	..	12·3	0	3	26	3	5	1	1	1	2	1	15	2	0
Kanpur	0830	126	1002·1	938·5	−0·6	32·6	21·0	12·1	14·1	33	−4	1·7	+1·0	11·5	0	1	30	0	2	5	3	0	5	15	1	0	0
	1730	,,	998·0	984·5	..	40·6	23·2	10·3	12·5	18	..	1·7	.	12·7	0	2	29	3	2	1	2	0	2	18	3	0	0
Kanpur (Aerodrome)	0530	126	1000·7	986·3	..	26 6	18·2	11·0	13·1	40	..	1·5	..	6·8	0	0	27	0	0	5	3	1	2	14	2	4	0
	0830	,,	1002·1	988·1	..	33·2	21·1	11·6	13·6	30	..	1·2	..	14·2	0	7	21	0	1	5	4	0	1	11	6	3	0
	1130	,,	1001·9	987·8	..	39·0	22·3	9.6	11·9	20	..			16·6	0	13	15	1	2	4	3	0	1	8	9	3	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1960 (VAISAKHA 11—JYAISTHA 10, 1882 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Kanpur (Aerodrome) —Contd.	1730	126	997·7	984·0	..	40·3	22·0	7·7	10·5	16	..	1·7	..	15·0	0	5	25	3	2	4	1	1	0	6	13	1	0
	2330	,,	1000·3	986·2	..	31·0	19·4	11·3	13·4	31	..	1·0	..	7·7	0	1	22	0	2	4	3	0	0	8	6	8	0
Lucknow	0830	111	1003·1	990·8	−0·1	31·0	21·9	15·7	17·8	42	−1	0·8	−0·4	3·5	0	0	31	2	1	6	2	6	3	8	3	0	0
	1730	,,	998·1	986·1	..	39·1	24·7	16·5	18·8	28	..	1·0	..	4·1	0	0	27	1	1	4	0	1	0	18	2	4	0
Lucknow (Amausi Aerodrome)	0230	128	999·5	985·2	..	27·1	19·1	12·4	14·4	43	..	1·0	..	6·9	0	3	15	0	0	5	3	0	5	4	1	13	0
	0530	,,	1000·2	985·9	..	25·2	18·6	13·2	15·2	50	..	1·5	..	7·4	0	2	24	0	4	6	0	0	4	10	2	5	0
	0830	,,	1001·7	987·7	−1·4	32·2	21·5	13·3	15·3	37	+1	1·2	0	16·9	0	10	20	2	1	5	3	1	1	10	7	1	0
	1130	,,	1001·3	987·5	..	37·9	23·2	11·8	13·8	26	..	1·1	..	22·3	0	20	11	2	0	7	4	1	2	8	7	0	0
	1730	,,	997·4	983·6	..	39·3	23·1	11·2	13·3	22	..	1·3	..	37·8	0	14	15	1	3		2	2	0	11	8	2	0
	2330	,,	999·9	985·7	..	29·6	19·9	12·5	14·5	37	..	1·4	..	7·5	0	1	19	0	2	5	1	0	6	3	3	11	0
Hardoi	0830	142	1001·8	986·1	..	31·3	21·2	14·0	16·0	38	..	0·9	..	6·6	0	0	31	2	0	8	3	0	0	17	1	0	0
	1730	,,	997·3	982·0	..	39·4	22·9	11·6	13·6	22	..	1·4	..	7·4	0	0	29	3	0	1	3	3	0	15	4	2	0
Lakhimpur Kheri	0830	147	1001·5	985·1	..	28·3	21·8	17·9	20·5	54	..	0·4	..	3·8	0	0	25	0	0	9	1	0	0	15	0	6	0
	1730	,,	997·0	981·3	..	38·8	25·8	19·1	22·1	33	..	1·1	..	3·7	0	0	29	2	0	3	2	1	0	20	1	2	0
Bahraich	0830	124	1003·3	989·6	0	31·4	21·7	15·5	17·6	44	−7	0·6	−0·6	10·2	0	4	26	0	0	15	0	0	0	8	7	1	0
	1730	,,	998·2	984·8	..	37·2	22·3	12·1	14·1	24	..	1·2	..	5·8	0	2	27	0	0	11	0	0	0	17	1	2	0
Uttar Pradesh (West)																											
Orai	0830	141	1003·3	987·9	..	35·0	22·8	15·1	17·1	32	..	1·3	..	5·0	0	0	31	0	0	2	5	0	8	2	14	0	0
	1730	,,	998·1	983·0	..	40·0	24·6	15·7	17·8	27	..	1·8	..	5·8	0	0	31	5	2	0	0	0	0	2	22	0	0
Jhansi	0830	251	1002·3	975·0	−1·1	34·6	20·4	10·1	12·3	23	−7	2·2	+1·0	2·7	0	0	21	4	4	0	1	0	0	11	1	10	0
	1730	,,	997·7	971·0	..	41·7	22·6	9·6	11·9	16	..	2·8	..	3·5	0	0	28	11	2	0	0	2	0	11	2	3	0
Agra	0830	169	1000·7	984·4	−0·1	33·2	21·5	13·9	15·9	32	+5	0·6	−0·5	4·8	0	0	23	2	0	0	2	5	8	1	5	8	0
	1730	,,	998·1	980·1	..	39·6	22·7	10·7	12·9	21	..	0·6	..	3·3	0	1	12	1	1	0	0	0	5	0	5	18	0
Agra (Aerodrome)	0530	169	1000·8	981·5	..	25·6	18·1	12·1	14·1	45	..	1·6	..	4·7	0	0	23	0	0	4	2	0	2	12	3	8	0
	0830	,,	1002·4	983·4	..	32·3	21·2	13·3	15·3	34	..	1·3	..	11·6	0	2	28	0	0	2	3	2	4	14	5	1	0
	1130	,,	1001·7	983·3	..	38·6	22·4	10·8	12·9	21	..	1·0	..	13·4	0	5	24	2	0	1	2	1	1	10	12	2	0
	1730	,,	998·1	979·5	..	38·9	21·9	9·2	11·6	20	..	2·1	..	16·3	0	5	26	1	3	1	1	0	1	12	12	0	0
	2330	,,	1000·5	981·5	..	30·0	20·1	12·9	14·9	37	..	1·0	..	5·5	0	0	19	0	3	3	0	0	5	7	1	12	0
Mainpuri	0830	157	1001·7	984·4	−1·1	32·9	21·4	12·9	14·9	33	−4	1·0	−0·4	2·9	0	0	20	0	1	2	0	0	2	12	3	11	0
	1730	,,	997·0	980·3	..	40·7	23·1	11·3	13·4	20	..	1·8	..	2·4	0	0	22	0	0	1	0	0	2	18	1	9	0
Aligarh	0830	187	1002·3	981·6	..	32·1	20·4	11·3	13·4	31	0	0·7	0	5·4	0	0	30	1	0	6	1	1	2	14	5	1	0
	1730	,,	998·0	97[illegible]·8	..	39·6	22·0	8·5	11·1	17	..	2·0	..	6·0	0	0	26	7	0	1	1	0	0	8	9	5	0
Bareilly	0830	173	1001·7	982·6	−1·3	32·0	21·0	13·0	15·0	34	−12	1·2	−0·2	4·1	0	0	24	0	0	9	1	0	1	10	3	7	0
	1730	,,	997·2	978·9	..	37·7	22·8	10·7	12·9	23	..	1·5	..	3·5	0	2	12	0	0	5	0	0	0	9	0	17	0
Bareilly (P.B.O.)	0230	172	999·3	980·2	..	27·9	18·4	11·9	13·4	39	..	0·9	..	5·6	0	0	27	0	0	6	2	0	1	14	4	4	0
	0530	,,	1000·2	981·6	..	26·2	18·2	13·2	14·2	45	..	1·3	..	4·9	0	0	29	0	1	7	1	0	1	14	5	2	0
	1130	,,	1001·1	982·4	..	36·3	21·6	12·4	13·5	27	..	0·6	..	11·7	0	0	29	1	1	2	6	1	0	11	7	2	0
	2330	,,	999·4	980·4	..	30·2	19·0	11·7	12·8	34	..	0·8	..	4·3	0	0	21	1	0	3	4	0	0	9	4	10	0
Meerut	0830	222	1002·3	977·7	−0·7	32·2	20·7	12·3	14·3	32	−8	0	−1·2	5·8	0	0	27	0	3	9	1	0	1	9	4	4	0
Najibabad	0830	270	1001·8	972·3	..	30·0	19·7	11·7	13·7	33	..	0·2	..	6·0	0	4	15	0	10	0	1	0	0	0	8	12	0
	1730	,,	997·9	969·2	..	38·7	21·2	6·7	9·8	16	..	0·4	..	6·6	0	2	27	0	6	0	0	0	0	0	23	2	0
Roorkee	0830	274	1002·2	972·0	−0·9	29·7	19·9	13·3	15·3	37	−2	2·0	+0·7	3·0	0	0	10	0	0	1	2	0	0	0	7	21	0
	1730	,,	998·0	968·8	..	38·8	..	..	..	..	..	2·3	..	2·0	0	0	21	0	1	0	1	0	0	1	18	10	0
Dehra Dun	0530	682	1001·4	926·5	..	22·8	15·2	9·0	11·5	42	..	0·6	..	3·4	0	1	18	10	6	0	0	1	0	0	2	12	0
	0830	,,	1001·7	928·2	−0·9	28·9	18·2	10·5	12·7	33	−11	0·7	−1·2	2·0	0	0	2	0	0	0	0	2	0	0	0	29	0
	1130	,,	1000·3	928·2	..	34·3	19·4	8·4	11·0	22	..	1·0	..	3·5	0	0	25	1	0	1	4	6	6	6	1	6	0
	1730	,,	997·0	925·3	..	34·6	19·0	7·1	10·1	20	..	1·5	..	2·6	0	0	19	0	4	0	0	5	4	4	2	12	0
	2330	,,	1000·5	926·5	..	26·3	16·8	9·4	11·8	37	..	0·4	..	2·8	0	0	17	11	4	1	0	0	0	0	1	14	0
Punjab (India) (Including Delhi)																											
New Delhi	0230	216	1000·0	976·0	..	28·7	18·6	11·1	11·3	35	..	0·7	..	9·0	0	4	20	0	3	0	0	2	4	5	10	7	0
	0530	,,	1000·9	976·5	..	26·8	18·1	11·0	13·1	40	..	1·4	..	8·3	0	3	20	1	1	1	2	1	4	10	3	8	0
	0830	,,	1002·0	978·2	−0·9	31·4	20·4	12·4	14·4	33	+3	0·8	−0·3	16·9	0	6	25	1	0	4	3	1	3	15	4	0	0
	1130	,,	1001·6	978·1	..	37·5	22·6	12·1	14·1	24	..	0·5	..	19·4	0	13	18	2	0	3	2	1	2	5	16	0	0
	1730	,,	997·5	974·4	..	39·5	22·3	10·2	12·4	19	..	1·7	..	19·9	0	14	15	1	2	2	1	0	1	4	18	2	0
	2330	,,	1000·1	976·4	..	30·7	19·6	11·4	13·6	31	..	0·8	..	9·8	0	4	19	0	3	0	1	4	2	4	9	8	0
New Delhi (Palam Aerodrome)	0230	233	1000·0	974·1	..	28·1	17·8	8·6	11·2	33	..	0·7	..	9·3	0	1	27	2	0	1	3	6	9	5	2	3	0
	0530	,,	1000·7	974·7	..	26·2	17·4	9·9	12·2	37	..	1·2	..	9·8	0	0	31	1	1	3	2	6	13	2	3	0	0
	0830	,,	1002·0	976·3	..	31·7	19·8	9·8	12·1	29	..	1·1	..	18·5	0	12	19	1	1	4	2	1	12	8	2	0	0
	1130	,,	1001·4	976·4	..	38·2	21·0	6·6	9·7	17	..	0·5	..	23·2	0	18	13	1	1	2	1	1	3	15	7	0	0
	1430	,,	999·1	974·3	..	40·0	21·8	7·4	10·3	16	..	1·6	..	25·7	0	22	9	0	2	0	2	1	3	11	11	0	1
	1730	,,	997·3	972·5	..	40·1	22·1	8·5	11·1	17	..	1·7	..	22·5	0	19	12	0	2	2	1	0	1	9	16	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi) (*Contd.*)																											
New Delhi (Palam Aerodrome) contd.	2030	233	998·8	973·6	..	34·3	19·9	7·9	10·6	23	..	1·3	..	10·8	0	6	23	4	2	4	2	1	1	10	5	2	0
	2330	"	1000·0	974·4	..	30·6	18.9	8·9	11·4	29	..	0·7	..	8·6	0	3	22	0	0	2	5	4	4	4	6	6	0
Hissar . . .	0530	221	1000·8	976·0	..	24·8	17·8	12·3	14·3	48	..	1·3	..	6·0	0	0	29	0	0	0	3	6	12	5	3	2	0
	0830	"	1001·9	977·6	−0·9	31·2	22·1	16·5	18·8	43	+7	1 2	+0·2	6·5	0	1	29	1	1	1	1	4	15	4	3	1	0
	1130	"	1001·4	977·7	..	39·2	25·5	18·1	20·8	31	..	1·2	..	6·8	0	0	28	2	0	1	2	2	8	5	8	3	0
	1730	"	997·9	974·3	..	40 1	25·8	17·6	20·1	31	..	2·0	..	7·7	0	1	29	6	0	0	2	2	4	9	7	1	0
	2330	"	1000·2	975·9	..	29·9	20·2	13·5	15·5	39	..	0·5	..	5·8	0	0	29	1	2	1	3	4	2	2	14	2	0
Karnal . . .	0830	249	1003·1	975·4	..	30·7	20·8	13·5	15·5	37	..	0·1	..	0·4	0	0	2	0	0	0	0	0	0	0	2	29	0
	1730	"	998·2	971·8	..	..	..	..	..	..	..	0·7	..	1·2	0	0	6	0	0	0	1	0	0	0	5	25	0
Patiala . . .	0830	251	1001·9	974·3	..	31·4	19·5	10·6	12·8	29	..	1·4	..	5·9	0	0	22	0	0	0	9	0	1	1	11	9	0
	1730	"	997·7	970·9	..	38·4	20·7	6·2	9·5	15	..	1·6	..	9·6	0	2	24	1	0	0	3	0	0	0	22	5	0
Ambala . . .	0830	272	1001·1	971·3	−1·4	31·4	22·6	17·2	19·6	45	+14	0·9	−0·4	3·4	0	0	16	0	0	0	6	0	3	0	7	15	0
	1730	"	997·1	968·3	..	39·0	25·3	17·5	20·0	31	..	0·7	..	3·4	0	0	25	0	5	0	11	0	4	0	5	6	0
Ambala (P.B.O.) .	0230	278	999·1	968.4	..	28·0	17·8	11·0	13·1	36	..	0·5	..	8·9	0	0	29	2	0	3	5	1	0	2	16	2	0
	0530	"	999·7	968·8	..	26·1	17.1	10·9	13·0	41	..	1·1	..	7·9	0	1	27	2	0	2	8	4	0	1	11	3	0
	1130	"	1000·6	970.6	..	36·4	21·1	11·8	13·8	24	..	1·1	..	13 6	0	4	27	2	1	0	12	2	0	4	10	0	0
	2330	"	999·5	969·0	..	30·5	18·3	10·1	12·3	30	..	0·3	..	8·6	0	1	28	7	4	1	2	1	0	1	13	2	0
Ambala (Aerodrome)	0530	274	1000·0	969·3	..	23·9	16·4	10·1	12·3	42	..	1·1	..	10·6	0	3	23	0	0	2	5	2	1	7	9	5	0
	0830	"	1001·0	971·0	..	31·2	19·8	11·2	13·3	31	..	1·5	..	17·1	0	8	18	1	1	4	6	1	0	5	8	5	0
	1130	"	1000·7	971·0	..	37·1	21·7	10·8	12·9	23	..	1·2	..	22·3	0	18	13	0	0	4	9	0	1	9	8	0	0
	1730	"	996·9	967·6	..	38·9	21·4	7·5	10·4	17	..	1·4	..	21·3	0	17	13	1	1	0	4	1	3	12	8	1	0
	2330	"	999·6	969·3	..	28·5	18·1	8·9	11·4	30	..	0·8	..	11.7	0	3	23	2	2	0	1	1	0	7	13	5	0
Chandigarh . .	0830	347	999·7	962·0	..	32·4	19·7	9·7	12·0	27	..	1·1	..	4·8	0	0	29	0	0	1	12	0	0	0	16	2	0
	1730	"	966·9	960·1	..	37·6	20·1	5·9	9·3	15	..	0·9	..	5·0	0	0	26	0	2	0	4	0	4	3	13	5	0
Ludhiana . .	0830	247	1001·1	973·9	−1·5	30·1	20·5	13·7	15·7	37	−1	0·9	−0·3	7·4	0	2	27	3	4	4	3	2	2	4	7	2	0
	1730	"	997·3	970·9	..	39·3	22·5	10·9	13·0	20	..	1·0	..	9·7	0	0	31	1	3	0	2	0	6	5	14	0	0
Halwara (Aerodrome).	0830	242	1001·9	975·4	..	31·0	20·2	12·5	14·5	34	..	1·1	..	15·2	0	11	17	0	2	1	6	2	3	3	11	3	0
	1730	"	999·0	973·1	..	38·7	22·0	10·2	12·4	19	..	1·6	..	21.8	0	15	16	0	0	2	1	2	2	3	21	0	0
Bhatinda . .	0830	211	1001·4	978·2	..	31·6	21·5	15·0	17·0	38	..	1·1	..	7·1	0	1	28	2	1	2	3	4	7	1	9	2	0
	1730	"	997·8	975·4	..	38·7	23·9	14·9	16·4	28	..	1·2	..	9 5	0	1	29	1	3	0	1	2	4	3	16	1	0
Ferozepur . .	0830	200	1001·3	979·0	..	27·5	20·4	15·6	17·7	50	..	0·5	..	1·0	0	0	9	2	3	0	1	0	1	0	2	22	0
	1730	"	997·2	975·8	..	39·4	23·6	13·7	15·7	23	..	0·6	..	2·4	0	0	21	3	0	1	0	0	1	0	16	10	0
Amritsar . .	0530	234	1000·5	974·0	..	21·3	16·2	12·3	14·3	58	..	1·5	..	8·6	0	2	24	2	3	4	2	1	2	6	6	5	0
	0830	"	1001·5	975·6	..	29·6	19·6	12·5	14·5	36	..	1·1	..	10·3	0	5	21	2	7	4	3	1	2	2	5	5	0
	1130	"	1001·1	975·7	..	36·5	21·5	11·1	13·2	22	..	1·0	..	15·2	0	10	21	3	1	6	7	1	2	5	6	0	0
	1730	"	998·0	972·6	..	38·4	21·3	8·4	11·2	17	..	1·4	..	16·3	0	10	21	2	1	0	3	2	4	11	8	0	0
Pathankot (Aerodrome).	0830	312	1001·3	967·2	..	31·2	18·6	8·2	10·9	25	..	2·0	..	6·1	0	2	24	0	12	6	2	0	2	0	4	5	0
	1130	"	1000·7	967·3	..	36.3	20·0	6·7	9·8	17	..	2·0	..	7·6	0	3	24	2	0	1	9	4	7	2	2	4	0
	1730	"	997·2	964·1	..	38·4	19·7	2·4	7·3	12	..	2·3	..	12·0	0	4	26	2	2	0	3	1	9	7	6	1	0
Adampur (Aerodrome).	(R) 0530	238																									
	(R) 0830	"																									
	(R) 1130	"																									
	(R) 1730	"																									
	(R) 2330	"																									
Himachal Pradesh																											
Bilaspur	0830	498	1002·8	948·6	..	26·9	17·9	11·6	13·7	40	..	1·0	..	1·0	0	0	7	0	1	2	1	2	0	0	1	24	0
	1730	"	997·3	945·0	..	36·6	21·0	10·6	12·8	22	..	1·5	..	7·8	0	3	27	2	0	3	0	4	6	5	8	1	2
Mandi .	0830	761	1002·5	920·2	..	24 6	16·0	11·0	13·1	42	..	1·0	..	0·5	0	0	5	3	0	0	0	1	0	1	0	26	0
	1730	"	996·0	916·4	..	34·1	18·9	7·8	10·6	21	..	1·3	..	3·9	0	0	25	1	1	0	1	1	1	3	17	6	0
Jammu and Kashmir																											
Srinagar	0830	1587	1487·8	840·3	+0·1	15·9	12·3	9·7	12·2	68	−10	2·6	−0·3	1·3	0	0	11	0	0	0	3	1	2	3	2	20	0
	1130	"	1482·0	839·9	..	20·6	14·3	9·8	12·0	52	..	2·9	..	1·5	0	0	11	0	0	1	3	0	2	2	3	20	0
	1730	"	1451·9	837·1	..	22 9	14·7	8·9	11·1	43	..	3·9	..	1·9	0	0	15	1	1	0	2	1	1	5	4	16	0
Srinagar (Aerodrome).	0530	1666	1471·7	831·2	..	11·4	9·0	6·7	10·0	74	..	3·1	..	5·6	0	0	24	1	1	0	4	10	2	4	2	7	0
	0830	"	1480·9	832·4	..	15·7	11·7	8·5	11·2	64	..	2·8	..	7·0	0	2	24	2	3	8	2	2	0	3	6	5	0
	1130	"	1476·8	832·2	..	19·8	13·4	8·6	11·5	51	..	3·0	..	8·0	0	1	28	7	3	4	5	2	0	3	5	2	0
	1730	"	1447·3	829·5	..	22·4	13·4	5·9	9·6	38	..	4·2	..	8·9	0	3	25	2	0	1	3	1	2	4	15	3	0
	2330	"	1467·2	831·0	..	15·5	11·5	8·2	11·2	63	..	2·6	..	5·5	0	1	19	0	1	1	1	3	3	3	8	11	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—(*Contd.*)																											
Gulmerg	0830	2655				Closed during winter months																					
	1730	"																									
Leh	0530	3514	3099·9	666·0	..	4·5	−0·3	−7·6	3·2	43	..	2·2	..	(a) 2·7	0	0	17	3	13	0	0	1	0	0	0	13	0
	0830	"	3099·0	666·4	−0·9	8·9	2·7	−6·6	3·5	34	−4	2·6	−0·9	2·9	0	0	19	1	1	0	1	10	4	2	0	12	0
	1730	"	3053·3	663·1	..	14·8	5·8	−5·7	3·8	26	..	3·7	..	8·7	0	2	29	2	2	0	0	5	9	8	5	0	0
Skardu (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Misgar (R)	0830																										
(R)	1730																										
Jammu*	0830																										
Jammu (Aerodrome)	0530	292	1000·6	968·0	..	24·8	16·3	9·0	11·5	37	..	2·0	..	5.6	0	1	17	2	7	2	2	0	0	0	5	13	0
	0830	"	1010·3	969·1	..	30·5	18·8	9·6	11·9	28	..	2·0	..	6·5	0	3	15	3	9	2	4	0	0	0	0	13	0
	1130	"	1000·7	969·1	..	36·5	20·3	7·7	10·5	19	..	2·0	..	9·0	0	2	25	1	2	1	9	3	1	4	6	4	0
	1730	"	997·4	966·1	..	37·9	20·6	6·5	9·7	16	..	2·4	..	10.0	0	1	28	0	1	1	1	3	3	15	5	2	0
Rajasthan (West) Sri Ganganagar	0530	177	1000·1	980·5	..	24·4	16·3	9·4	11·8	41	..	0·6	..	2·0	0	0	14	1	1	1	2	2	4	2	1	17	0
	0830	"	1001·3	982·1	..	30·1	18·9	9·8	12·1	30	−1	0·3	−0·1	4·1	0	0	24	1	2	1	2	4	9	2	3	7	0
	1130	"	1001·5	982·3	..	38·3	21·1	6·9	9·9	17	..	0·6		8·6	0	1	28	2	3	1	3	3	8	5	4	2	0
	1730	"	997·5	978·7	..	39·9	20·8	3·4	7·8	14	..	1·3	..	4·1	0	0	23	4	1	0	1	1	6	5	5	8	0
	2330	"	1000·3	990·7	..	28·9	19·2	11·3	13·4	35	..	0·1		2·2	0	0	10	3	1	2	0	2	1	0	1	21	0
Churu	0830	291	1002.5	970·5	..	31·0	18·5	6·5	9·7	25	..	1·3	.	13·8	0	7	23	1	0	1	1	5	9	11	2	1	0
	1730	"	998·0	967·1	..	40·4	20·4	0·1	6·1	11	..	2·1		16·4	0	8	23	5	2	0	0	1	3	14	6	0	0
Bikaner	0830	224	1002·5	977·4	+0·9	29 9	17·6	5·1	8·8	25	−7	0·1	−0·8	8·3	0	0	30	0	1	0	6	2	8	9	4	1	0
	1730	"	898·2	974·7	..	40·9	20 2	1·1	6·6	9	..	0·4	..	12·8	0	1	30	3	2	0	0	0	11	5	10	0	0
Bikaner (P.B.O.)	0530	224	1001·2	976·1	..	26·3	19·3	15·3	17·4	52	..	0·8	..	6·3	0	0	20	0	0	0	1	4	10	5	0	11	0
	1130	"	1001·9	977·8	..	38·9	26·1	19·5	22·7	35	..	0·4	..	9·3	0	0	31	3	1	2	1	0	12	9	2	0	1
	2330	"	1000·7	976·1	..	31·6	22·6	17·4	19·9	43	..	0·5	..	7·6	0	1	20	0	1	0	1	3	10	2	4	10	0
Jaisalmer	0830	242	1002·3	975·6	..	29·1	20·7	14·3	16·3	46	..	0·3	..	15·6	0	10	16	1	0	0	0	12	11	2	0	5	0
	1730	"	998·1	972·4	..	41·0	23·0	11·4	13·5	20	..	0·2	..	16·0	0	7	23	3	0	0	0	11	13	2	1	1	0
Phalodi	0830	234	1003·4	977·5	..	29 9	23·8	20·2	23·7	59	..	0·4	..	17·1	0	11	17	0	1	1	1	2	17	5	1	3	0
	1730		999·2	974·3	..	41·4	29 2	24·0	29·8	41	..	0·7	..	14·4	0	6	22	1	0	0	0	1	13	10	3	3	0
Nagaur	0830	298	1002·8	970·3	..	32 0	19·1	7·8	10·6	24	..	0 5	..	14·8	0	8	21	1	2	1	3	7	10	5	0	2	0
	1730	"	998·6	966·9	..	40 5	20·3	0·7	6·4	10	..	1·0	..	15·4	0	7	24	1	1	0	0	4	9	13	3	0	0
Jodhpur	0230	224	1001·7	976·8	..	30 2	18·2	6·7	9·8	26	..	0.3	..	11.3	0	1	30	2	4	0	0	0	13	9	3	0	0
	0530	"	1002·2	977·2	..	27 5	17·5	8·0	10·7	32	..	0·7	..	8·8	0	0	26	1	2	0	0	1	11	8	3	5	0
	0830	"	1003·9	979·1	+0·9	30 4	19·2	8·5	11·1	31	−11	0 9	−0·1	12.3	0	1	27	0	3	0	0	1	17	6	1	3	0
	1130	"	1003·2	978·9	..	37·4	20·9	6·5	9·7	19	..	0·7	..	15·3	0	9	22	2	1	0	2	0	16	9	1	0	0
	1730	"	999·0	975·1	..	40 8	21·1	3·6	7·9	12	..	0 6	..	15·1	0	6	25	2	2	1	0	1	12	8	5	0	0
	2330	"	1001·9	977·2	..	32·7	19 0	7·0	10·0	23	..	0 6	..	9·0	0	1	25	1	1	0	0	1	13	7	3	5	0
Barmer	0530	194	1002·0	980·4	..	28 4	19·6	12·3	14·3	43	..	0·5	..	7·4	0	0	30	1	0	0	0	2	14	5	8	1	0
	0830	"	1003·6	982·0	−0·2	30·4	21 1	13·6	15·6	43	−18	0·9	+0·2	5·5	0	0	31	2	3	0	1	8	6	10	1	0	0
	1130	"	1003·2	982·2	..	37·7	21·5	8·1	10·8	21	..	0·5	..	6·5	0	0	31	2	2	0	2	3	8	13	1	0	0
	1730	"	999·0	978·3	..	41·4	22·4	7·9	11·5	15	..	0·7	..	6·4	0	0	31	5	1	1	2	4	5	13	0	0	0
	2330	"	1001·9	980·6	..	33·5	20·7	10·6	12·8	28	..	0·6	.	7·2	0	0	27	0	0	0	1	3	7	16	0	4	0
Rajasthan (East) Pilani	0830	301	1002·6	969·8	..	31·7	18·7	6·4	9·6	24	..	0·6	..	17·1	1	6	24	0	0	1	1	1	12	14	2	0	0
	1730	"	997·9	966·2	..	40·3	20·1	−2·3	5·1	10	..	1·0	..	14·4	0	3	28	5	1	1	0	1	6	10	7	0	1
Alwar	0830	271	1001·0	971·5	..	32·9	24 0	18·6	21·4	44	..	0·9	..	2·9	0	0	19	2	3	0	0	0	2	5	7	12	0
	1730	"	997·9	969·2	..	40·0	24·9	18·8	21·7	32	..	2·2	..	7·5	0	2	23	7	2	1	0	1	1	5	6	6	2
Sikar	0830	433	1003·3	956·3	..	31·8	25·0	20·7	24·9	57	..	1·2	..	3·0	0	0	31	1	2	2	4	1	6	14	1	0	0
	1730	"	997·9	952·2	..	38·9	28·8	23·4	28·8	46	..	2·0	..	3·0	0	0	27	2	1	0	0	1	5	16	2	4	0
Jaipur (Sanganer Aerodrome)	0230	390	1001·1	958·0	..	27·3	16·8	6·8	9·9	30	..	0·9	..	6·9	0	0	27	9	1	2	0	0	3	6	6	4	0
	0530	"	1001·9	958·7	..	25·6	16·5	7·9	10·7	34	..	1·4	..	6·8	0	0	24	6	1	1	0	0	0	5	11	7	0
	0830	"	1002·6	960·1	−1·4	32·3	19·7	9·4	11·8	27	−10	1·0	0	11·4	0	9	18	2	0	1	1	1	2	8	12	4	0
	1130	"	1001·6	959·8	..	37·3	20·3	5·1	8·8	16	..	0·9	..	18·0	0	14	17	2	1	0	2	2	3	11	10	0	0
	1730	"	997·9	956·5	..	39·2	20·3	2·4	7·3	12	..	1·3	..	13·9	0	7	23	2	2	0	0	0	2	11	13	1	0
	2330	"	1001·2	958·4	..	29·9	17·8	6·6	9·7	25	..	1·0	..	7·4	0	2	23	6	0	2	1	1	0	10	5	6	0

(R) Register not received. (a) Mean of 20 days. *Temporarily closed.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—(*Contd.*)																											
Dholpur	0830	176	1001·7	982·4	..	33·6	20·8	11·3	13·4	27	..	1·5	..	10·7	0	3	23	2	0	1	2	1	5	12	3	5	0
	1730	„	997·4	978·6	..	40·3	21·8	7·2	10·1	16	..	2·2	..	10·4	0	1	29	6	2	0	1	1	0	9	11	1	0
Tonk	0830	272	1002·0	972·1	..	31·3	22·1	15·9	18·1	43	..	1·4	..	9·5	0	3	26	2	0	0	0	0	2	16	9	2	0
	1730	„	997·1	968·3	..	40·3	23·0	11·2	14·3	19	..	1·6	..	13·6	0	4	26	2	0	0	0	0	5	8	9	1	6
Ajmer	0830	486	1003·4	950·6	−0·9	32·1	19·6	11·5	13·6	35	−4	1·1	+0·1	13·6	0	6	20	0	2	0	0	1	13	9	1	5	0
	1730	„	998·1	947·0	..	38·7	20·2	5·4	9·0	15	..	1·2	..	14·3	0	4	27	1	0	0	0	0	6	20	4	0	0
Kotah	0530	257	1001·8	973·4	..	28·9	18·8	10·5	12·7	34	..	0·8	..	3·3	0	0	15	0	0	0	0	2	3	8	2	16	0
	0830	„	1003·1	975·2	−0·7	34·1	21·1	11·1	13·2	27	−2	0·8	−0·1	4·5	0	0	23	0	0	0	0	0	4	14	5	8	0
	1130	„	1002·6	975·0	..	39·0	22·1	9·2	11·6	19	..	1·1	..	4·7	0	1	23	1	0	1	0	0	3	15	4	7	0
	1730	„	998·7	971·3	..	40·5	21·8	7·4	10·3	15	..	1·9	..	3·2	0	0	19	0	0	0	0	0	2	8	9	12	0
	2330	„	1001·4	973·4	..	32·8	19·8	9·5	11·9	25	..	0·7	..	2·7	0	0	13	0	0	0	0	1	4	7	1	18	0
Chambal	0830	351	1003·4	965·1	..	31·9	21·7	15·2	17·1	40	..	1·5	..	7·6	0	0	26	1	2	0	0	4	2	7	10	5	0
	1730	„	998·5	961·4	..	40·2	24·7	15·3	17·4	26	..	2·8	..	11·8	0	3	27	1	0	1	2	0	1	6	19	1	0
Jhalawar	0830	321	1003·4	968·3	−0·4	31·6	19·8	10·1	12·3	30	−13	1·2	+0·4	3·4	0	0	25	2	1	0	0	1	14	5	2	6	0
	1730	„	998·2	964·4	..	41·1	20·3	−0·5	5·9	9	..	1·9	..	4·2	0	0	30	6	1	0	0	1	13	5	4	1	0
Udaipur	0230	582	1003·2	939·5	..	26·1	17·7	11·7	13·7	43	..	0·8	..	2·5	0	0	8	0	1	0	0	1	3	3	0	23	0
	0530	„	1003·8	939·7	..	24·6	17·5	12·2	14·2	48	..	1·4	..	2·4	0	0	11	0	0	0	0	0	6	2	3	20	0
	0830	„	1004·0	941·2	−0·9	30·7	19·1	10·1	12·3	31	−14	0·8	+0·4	4·2	0	0	23	2	2	1	1	3	5	7	2	8	0
	1130	„	1002·8	941·1	..	35·9	19·8	7·4	10·3	19	..	1·4	..	6·0	0	0	30	0	2	3	3	1	7	8	6	1	0
	1730	„	999·3	938·0	..	37·0	20·1	7·5	10·4	19	..	2·2	..	6·2	0	0	26	3	2	0	0	2	8	8	3	5	0
	2330	„	1003·5	940·2	..	28·6	18·3	10·9	13·0	35	..	1·0	..	3·5	0	0	16	0	0	0	0	0	6	8	2	15	0
Eriapura (Jawai Dam)	0830	295	1004·3	971·8	..	30·1	23·5	19·7	22·9	56	..	0·6	..	9·2	0	3	23	0	0	1	7	9	3	6	0	5	0
	1730	„	999·5	968·0	..	39·3	27·6	21·9	26·3	39	..	0·7	..	9·7	0	2	28	3	0	0	0	2	10	15	0	1	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1000·2	977·4	..	30·0	17·1	3·7	9·1	22	..	1·2	..	7·9	0	2	23	0	1	0	0	3	7	9	5	6	0
	0530	„	1000·9	977·9	..	28·7	16·9	5·5	9·8	26	..	1·7	..	7·7	0	4	18	0	2	0	2	1	4	9	4	9	0
	0830	„	1002·1	979·6	−0·1	35·0	19·8	6·6	11·7	19	−5	1·0	+0·1	12·7	0	6	22	1	0	0	3	1	3	10	10	3	0
	1130	„	1001·6	979·4	..	39·5	20·6	3·1	8·8	13	..	1·2	..	13·3	0	5	26	5	0	0	2	1	1	3	19	0	0
	1730	„	997·8	975·8	..	40·2	20·4	3·5	7·9	12	..	2·1	..	14·3	0	6	24	3	3	0	2	0	0	9	13	1	0
	2330	„	1000·5	977·7	..	31·5	17·8	4·2	9·3	20	..	1·7	..	7·6	0	1	25	0	1	1	2	2	8	8	4	5	0
Sheopur Kalan	0830	235	1002·7	977·2	..	32·5	20·3	11·4	13·9	29	..	1·4	..	9·0	0	2	28	3	1	0	2	6	5	5	6	1	2
	1730	„	997·6	972·7	..	40·7	22·5	8·9	12·5	17	..	2·0	..	15·4	0	5	26	4	3	0	0	1	1	8	7	0	7
Guna	0530	478	1002·0	949·3	..	25·4	15·4	6·9	10·2	32	..	2·3	..	2·7	0	0	15	2	0	0	0	2	3	6	2	16	0
	0830	„	1002·7	951·1	−0·6	32·7	18·6	7·0	11·5	23	6	1·8	+1·0	5·4	0	0	28	3	1	2	0	4	2	10	6	3	0
	1130	„	1001·6	950·9	..	37·8	19·5	4·4	9·3	15	..	1·7	..	7·2	0	0	28	4	0	0	1	0	1	7	15	3	0
	1730	„	997·6	947·4	..	39·4	19·0	0·5	5·9	10	..	2·9	..	12·2	0	4	27	3	0	0	0	2	1	11	14	0	0
	2330	„	1001·4	949·4	..	29·4	16·3	4·8	8·9	22	..	1·8	..	4·7	0	0	21	3	0	3	1	1	1	12	0	10	0
Rajgarh	0830	382	1003·2	961·6	..	31·5	18·2	5·9	10·1	22	..	1·7	..	4·0	0	0	23	1	1	0	2	0	0	9	10	8	0
	1730	„	997·9	957·7	..	40·5	21·2	8·1	9·5	13	..	3·3	..	4·3	0	0	26	6	1	0	0	0	0	5	14	5	0
Neemuch	0830	496	1004·4	950·5	−0·6	30·3	19·4	9·6	14·7	38	−9	2·4	+1·6	17·0	0	11	19	3	6	0	0	0	6	13	2	1	0
	1730	„	999·1	946·9	..	38·7	19·4	2·2	8·5	13	..	2·4	..	12·5	0	2	27	2	3	0	0	1	12	10	1	2	0
Ratlam	0830	486	1005·0	951·6	..	27·6	21·5	17·9	21·3	59	..	2·7	..	11·5	0	1	24	1	3	1	0	0	8	11	1	6	0
	1730	„	999·5	948·1	..	38·3	24·1	16·8	19·5	29	..	3·0	..	9·9	0	0	29	2	2	0	0	0	5	13	7	2	0
Alirajpur	0830	293	1006·1	973·7	..	28·3	21·8	15·9	20·7	52	..	3·1	..	15·5	0	9	21	0	0	2	2	0	2	23	1	1	0
	1730	„	1000·4	969·2	..	38·4	22·3	10·1	13·9	21	..	2·1	..	13·3	0	4	26	0	1	0	0	1	9	10	9	1	0
Indore	0530	567	1003·7	941·3	..	24·8	17·3	10·5	14·3	47	..	2·5	..	19·3	0	10	17	1	3	1	0	2	10	8	2	4	0
	0830	„	1004·5	943·0	−1·0	29·3	19·8	12·5	16·3	42	−6	2·5	+1·5	27·5	0	20	10	2	4	3	0	1	5	12	3	1	0
	1130	„	1003·0	942·7	..	35·4	20·9	10·5	13·0	26	..	1·9	..	24·0	0	16	15	1	6	2	0	2	2	11	6	0	1
	1730	„	998·9	939·2	..	37·1	20·0	6·2	11·0	19	..	2·7	..	18·5	0	8	23	3	5	0	0	1	5	7	9	0	1
	2330	„	1003·1	941·5	..	28·7	17·8	8·9	12·5	33	..	2·0	..	14·8	0	7	22	1	2	2	0	0	12	8	4	2	0
Ujjain	0830	..	..	..	...	30·1	20·2	13·5	16·4	40	..	2·2	..	22·6	0	19	9	0	2	2	0	0	0	13	11	3	0
Bhopal (Bairagarh)	0230	523	1001·7	944·6	..	27·9	16·8	7·7	11·1	30	..	2·2	..	11·1	0	3	24	5	2	0	0	0	3	8	9	4	0
	0530	„	1002·5	945·1	..	26·2	16·6	8·7	11·9	36	..	3·1	..	9·3	0	1	24	2	3	1	0	0	4	6	9	6	0
	0830	„	1003·5	947·0	−0·7	31·6	19·7	11·1	14·4	32	+1	2·2	+1·3	19·2	0	15	15	4	4	1	2	0	0	5	14	1	0
	1130	„	1002·1	946·6	..	37·0	20·3	8·6	11·7	20	..	1·8	..	13·1	0	8	23	4	3	1	2	3	1	4	13	0	0
	1730	„	997·9	943·0	..	38·7	20·1	5·8	10·0	15	..	2·5	..	15·4	0	7	24	6	1	1	1	1	1	4	16	0	0
	2330	„	1001·9	945·3	..	30·1	17·5	7·2	10·8	26	..	1·9	..	9·9	0	1	23	5	2	0	0	0	4	7	6	7	0
Khandwa	0830	318	1004·7	969·8	−0·9	31·3	21·5	14·5	16·4	41	+1	3·7	+2·6	6·3	0	0	31	2	4	0	0	2	3	10	10	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(*Contd.*)																											
Khandwa—(*contd.*)	1730	318	996·1	965·0	..	39·4	22·3	9·4	12·8	20	..	2·8	..	7·5	0	0	31	4	1	1	0	0	7	3	15	0	0
Hoshangabad	0830	302	1003·6	970·6	−1·3	31·6	20·0	10·8	14·1	31	−1	2·6	+1·4	4·2	0	0	27	0	0	7	0	5	6	9	0	4	0
	1730	,,	998·0	966·0	..	40·8	21·7	5·6	10·2	14	..	2·9	..	2·6	0	0	14	0	0	0	0	0	9	5	0	17	0
Betul	0830	653	1004·1	933·8	..	30·0	19·2	11·4	14·3	35	..	3·1	..	7·3	0	0	27	3	2	0	1	0	1	15	5	4	0
	1730	,,	997·9	932·8	..	37·2	19·4	4·9	9·6	17	..	3·2	..	9·1	0	1	30	10	4	0	0	0	2	4	11	0	0
Chhindwara	0830	685	1002·5	929·6	..	32·3	21·1	14·5	16·9	35	..	3·1	..	9·8	0	2	26	2	4	2	1	2	3	5	9	3	0
	1730	,,	997·1	925·8	..	37·6	22·1	13·0	15·1	24	..	4·0	..	9·7	0	0	29	5	1	0	2	3	2	4	12	2	0
Seoni	0830	619	1002·8	936·9	−0·5	33·0	20·2	11·1	14·8	29	0	3·6	+2·0	5·4	0	0	30	7	5	2	2	3	4	0	7	1	0
	1730	,,	997·2	932·6	..	38·2	20·8	9·3	12·0	19	..	4·0	..	3·5	0	0	29	5	4	2	6	1	6	0	5	2	0
Sagar	0830	551	1002·5	943·4	−0·8	32·3	18·8	8·2	12·5	25	−6	1·6	+0·2	12·2	0	1	30	1	5	4	3	0	2	7	9	0	0
	1730	,,	997·0	939·3	..	38·9	19·7	4·2	8·9	13	..	2·4	..	6·4	0	0	28	1	3	2	2	0	0	9	11	3	0
Nowgong	0830	229	1002·5	977·5	−0·9	33·3	21·6	12·8	16·1	32	−1	1·0	−0·9	6·3	0	0	29	0	2	1	3	2	15	3	3	2	0
	1730	,,	997·8	973·6	..	41·4	25·5	13·9	19·7	27	..	2·4	..	7·4	0	0	31	0	6	0	1	0	5	1	18	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1000·9	965·7	..	26·6	17·2	8·8	12·0	35	..	3·1	..	3·3	0	0	21	0	1	5	0	1	8	2	4	10	0
	0830	,,	1002·0	967·6	−0·8	33·2	19·7	7·4	11·9	25	−5	1·5	−0·1	4·2	0	0	29	1	0	6	0	4	3	9	6	2	0
	1130	,,	1001·0	967·2	..	38·9	20·6	2·9	9·3	14	..	2·0	..	7·4	0	0	31	1	1	2	2	1	6	9	9	0	0
	1730	,,	997·3	963·8	..	39·9	20·4	1·0	8·1	12	..	2·7	..	6·0	0	0	31	2	1	4	1	0	4	9	10	0	0
	2330	,,	1000·3	965·6	..	30·6	18·5	7·9	11·6	27	..	1·8	..	3·2	0	0	19	0	1	5	0	0	10	2	1	12	0
Sidhi	0830	..	..	..	..	33·5	20·9	10·9	13·4	30	..	1·9	..	2·7	0	0	22	0	1	4	0	3	2	12	0	9	0
	1730	..	..	..	..	39·6	21·6	6·6	11·4	16	..	2·5	..	3·7	0	0	28	5	5	2	0	1	1	8	6	3	0
Umaria	0830	459	1002·0	952·7	..	33·8	21·2	13·7	15·9	31	+5	2·3	+0·3	2·6	0	0	20	2	1	2	1	0	3	11	0	11	0
	1730	,,	996·8	946·7	..	39·7	22·7	12·5	15·2	21	..	3·4	..	3·6	0	0	27	8	1	2	0	2	0	6	8	4	0
Jabalpur	0530	393	1001·8	958·4	..	25·9	17·5	10·8	13·2	40	..	3·3	..	3·1	0	0	17	0	0	1	4	1	5	6	0	14	0
	0830	,,	1002·5	960·1	−0·9	33·3	19·9	9·5	12·3	25	−4	2·3	−1·1	5·3	0	0	28	1	0	0	5	5	8	9	0	3	0
	1130	,,	1001·0	959·5	..	39·6	21·2	6·1	10·2	14	..	2·3	..	6·5	0	0	28	3	4	1	2	4	2	6	6	3	0
	1730	,,	997·0	955·8	..	40·2	21·3	6·2	9·9	14	..	3·5	..	6·0	0	0	28	4	3	2	0	2	2	9	6	3	0
	2330	,,	1000·9	958·0	..	29·7	19·3	11·9	13·9	35	..	2·4	..	3·5	0	0	19	2	1	4	1	1	6	4	0	12	0
Mandla	0830	443	1002·8	954·7	..	31·9	20·8	13·1	15·5	33	..	1·9	..	1·8	0	0	8	7	0	0	0	0	1	0	0	23	0
	1730	,,	996·9	950·3	..	39·2	22·7	10·8	14·1	21	..	3·1	..	5·2	0	0	22	9	3	0	1	0	0	0	9	9	0
Pendra	0530	625	1001·4	933·6	..	27·2	16·9	8·3	11·8	33	..	2·9	..	3·9	0	1	27	7	1	0	2	3	4	7	4	3	0
	0830	,,	1002·0	935·3	−1·2	32·2	19·2	10·3	12·7	27	−6	2·9	+1·0	6·1	0	0	30	9	1	0	1	5	5	4	5	1	0
	1130	,,	1000·5	934·9	..	36·8	19·6	5·9	10·2	17	..	2·9	..	8·2	0	1	30	11	4	0	1	0	2	4	9	0	0
	1730	,,	996·8	931·5	..	37·3	19·1	4·6	8·9	14	..	4·4	..	4·1	0	0	30	8	7	0	0	1	2	3	9	1	0
	2330	,,	1000·7	933·7	..	30·1	17·2	6·5	10·2	24	..	1·7	..	5·0	0	0	28	2	1	0	0	1	5	7	12	3	0
Ambikapur	0830	611	1002·9	937·5	..	32·0	20·1	11·9	14·8	32	..	2·5	..	5·3	0	0	28	4	5	2	2	2	6	7	0	3	0
	1730	,,	996·5	932·8	..	38·1	20·4	7·6	11·2	17	..	2·6	..	9·1	0	2	28	14	1	0	0	1	1	0	13	1	0
Champa	0830	245	1002·8	976·0	..	33·7	21·8	13·7	16·4	32	..	2·9	..	4·4	0	0	28	4	1	3	3	0	4	10	3	3	0
	1730	,,	997·1	971·0	..	41·4	22·8	9·6	12·6	17	..	4·3	..	6·5	0	2	26	7	2	1	0	0	1	7	10	3	0
Raigarh	0830	220	1002·3	978·3	..	34·4	23·0	15·8	18·8	35	..	2·5	..	4·4	0	0	28	3	5	0	5	2	3	7	1	3	2
	1730	,,	996·8	973·4	..	40·2	22·5	9·4	12·9	19	..	3·6	..	4.4	0	0	26	6	6	0	2	1	0	2	5	5	4
Raipur	0530	298	1001·2	968·6	..	30·4	20·7	14·9	16·5	39	..	4·5	..	6·9	0	0	26	1	1	0	2	8	7	5	2	5	0
	0830	,,	1002·6	970·3	−0.9	34·6	22·7	15·2	17·8	33	0	2·8	+0·7	9·5	0	1	27	3	0	0	0	1	4	17	3	3	0
	1130	,,	1001·2	969·4	..	39·6	23·2	12·4	15·1	21	..	3·2	...	8·3	0	0	29	6	0	1	0	2	3	14	3	2	0
	1730	,,	997·1	965·6	..	40·9	22·4	9·1	12·0	16	..	5·4	..	5·7	0	1	23	10	1	0	0	1	0	7	5	7	0
	2330	,,	1000·4	968·1	..	33·9	21·0	12·2	14·4	28	..	2·4	..	9·7	0	4	25	4	1	1	0	11	6	5	1	2	0
Kanker	0830	402	1003·2	960·0	0	33·1	24·8	20·7	24·5	49	+9	2·5	−0·6	3·0	0	0	17	1	0	2	0	0	4	7	3	14	0
	1730	,,	997·4	955·2	..	39·2	26·0	19·4	22·8	33	..	3·8	..	1·5	0	0	14	0	7	0	0	0	4	0	3	17	0
Jagdalpur	0530	553	1003·0	942·4	..	25·0	21·5	19·8	23·1	73	..	5·2	..	1·2	0	0	8	0	1	0	0	5	1	1	0	23	0
	0830	,,	1004·0	944·1	−0·7	29·1	22·6	19·4	22·6	56	+1	3·4	+0·7	3·8	0	0	22	0	0	0	0	7	13	1	1	9	0
	1130	,,	1002·3	943·5	..	34·0	23·5	18·4	21·2	41	..	2·6	..	5·3	0	0	27	1	0	1	0	3	12	9	1	4	0
	1730	,,	999·3	940·4	..	32·9	23·2	18·5	21·3	44	..	6·3	..	5·5	0	0	25	2	0	0	4	7	5	5	2	6	0
	2330	,,	1002·6	942·4	..	27·2	21·9	19·4	22·4	64	..	4·4	..	2·4	0	0	12	0	1	0	1	6	3	0	1	19	0
Gujarat																											
Deesa	0830	156	1005·4	99·01	−1.0	29·1	21.1	14·2	16·2	48	..	1·5	..	5·8	0	0	28	2	5	0	2	10	5	2	2	3	0
	1730	,,	1000·3	985·7	..	40·0	21·5	5·8	9·2	14	..	0.8	..	5·4	0	0	31	2	2	0	0	2	10	10	5	0	0
Radhanpur	0830	30	1005·4	1002·1	..	29·4	24·0	21·0	24·9	62	..	0·8	..	6·8	0	2	28	3	0	0	0	4	8	14	1	1	0
	1730	,,	1001·5	998·3	..	40·2	27·0	20·6	24·3	34	..	0·8	..	5·7	0	0	31	2	0	1	1	3	4	17	3	0	0
Idar	0830	219	1005·4	981·1	..	30·0	21·4	12·8	14·8	47	..	1·8	..	11·2	0	1	30	4	3	1	1	0	3	16	3	0	0
	1730	,,	1000·4	976·9	..	39·5	21·6	7·3	10·2	17	..	1·4	..	12·2	0	1	30	0	1	1	0	0	6	21	2	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed Km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat—(*Contd.*)																											
Ahmeda ad	0230	55	1003·4	997·2	..	28·7	20·8	14·7	16·7	47	..	0·8	..	12·4	0	3	27	3	0	0	0	4	7	8	8	1	0
	0530	"	1004·0	997·7	..	26·7	20·5	16·6	18·9	54	..	1·6	..	9·7	0	0	28	2	1	2	1	2	7	8	5	3	0
	0830	"	1005·6	999·4	−1·6	29·9	22·1	16·0	18·2	50	−20	2·4	+0·8	14·1	0	9	19	3	2	2	0	1	8	8	4	3	0
	1130	"	1005·4	999·3	..	36·3	22·8	12·7	14·7	30	..	1·2	..	15·5	0	8	23	2	0	3	2	1	8	8	7	0	0
	1730	"	1000·9	994·8	..	40·4	22·6	9·1	11·5	18	..	1·7	..	15·4	0	6	25	1	1	0	0	5	7	9	8	0	0
	2330	"	1003·9	997·7	..	30·7	22·3	16·5	18·8	46	..	1·1	..	13·1	0	3	25	4	1	0	0	7	6	5	5	3	0
Dohad	0830	333	1005·0	968·4	..	30·0	21·0	13·8	15·8	43	−17	2·1	+0·7	21·8	0	18	13	1	1	2	2	1	8	14	2	0	0
	1730	"	999·9	964·5	..	39·4	22·3	7·9	10·7	19	..	1·8	..	19·3	0	12	19	2	2	0	1	0	9	15	2	0	0
Baroda	0530	34	1004·3	1000·3	..	26·8	22·3	19·2	22·2	66	..	1·5	..	3·3	0	0	26	1	2	0	1	2	14	5	1	5	0
	0830	"	1006·2	1002·3	..	30·6	23·6	19·0	22·0	54	−10	2·3	+0·9	4·4	0	0	24	0	1	1	0	1	11	8	2	7	0
	1130	"	1005·8	1002·0	..	36·7	23·9	15·1	17·1	33	..	1·4	..	6·3	0	0	31	1	4	2	0	1	9	10	4	0	0
	1730	"	1001·4	997·6	..	40·2	24·4	14·3	16·3	25	..	1·2	..	5·6	0	0	29	1	2	0	0	0	12	11	3	2	0
	2330	"	1004·5	1000·6	..	29·8	23·3	19·0	22·0	56	..	1·1	..	8·6	0	0	28	0	1	1	0	0	20	3	3	3	0
Baroda (Aerodrome)	0830	38	1005·9	1001·7	..	30·3	22·9	17·7	20·2	53	..	2·9	..	12·4	0	3	27	3	2	1	0	5	11	6	2	1	0
	*1130	"	1007·3	1003·2	..	36·7	21·8	9·2	11·6	25	..	2·3	..	11·7	0	4	13	2	3	1	1	1	4	3	2	1	0
	1730	"	1001·2	997·1	..	39·2	23·1	11·3	13·4	23	..	1·8	..	11·5	0	2	28	1	1	0	0	3	11	8	6	1	0
Broach	0830	17	1005·8	1003·8	..	29·2	24·0	20·7	24·4	64	..	3·6	..	7·0	0	0	31	1	2	0	1	4	12	4	7	0	0
	1730	"	1001·6	999·7	..	37·0	24·7	16·9	19·3	33	..	1·0	..	11·3	0	0	31	2	1	0	0	0	18	3	7	0	0
Surat	0530	12	1004·5	1003·2	..	27·4	23·8	21·4	25·5	73	..	2·2	..	9·6	0	0	28	2	1	1	1	5	16	0	2	3	0
	0830	"	1006·4	1005·1	−1·4	30·0	24·6	21·4	25·5	64	−2	3·5	+0·5	6·7	0	0	30	4	2	0	2	4	14	4	0	1	0
	1130	"	1006·4	1005·1	..	34·3	25·3	19·1	22·1	48	..	2·8	..	10·4	0	0	31	3	2	1	1	1	18	1	4	0	0
	1730	"	1002·8	1001·5	..	34.3	25·0	19·1	22·1	48	..	2·0	..	11·9	0	2	29	0	0	0	0	4	18	1	8	0	0
	2330	"	1005·3	1004·0	..	29·2	25·0	22·5	27·3	70	..	1·5	..	12·5	0	3	27	2	0	0	0	6	16	1	5	1	0
Saurashtra and Kutch																											
Naliya	0830	..	..	..	..	27·8	24·5	22·8	27·7	75	..	2·9	..	13·6	0	6	25	3	0	0	0	2	14	8	4	0	0
	1730	..	..	..	..	33·4	24·5	19·3	22·4	49	..	1·7	..	22·4	0	14	17	0	0	0	0	1	21	6	3	0	0
Bhuj (Aerodrome)	0230	80	1003·6	994·6	..	25·8	22·4	20·2	23·7	73	..	0·4	..	9·9	0	0	25	0	0	0	0	0	12	12	1	6	0
	0530	"	1003·8	994·7	..	24·5	22·0	20·3	23·8	80	..	1·3	..	9·3	0	2	21	0	0	0	0	0	13	10	0	8	0
	0830	"	1005·2	996·1	−0·9	29·1	23·8	20·7	24·4	63	+2	0·9	−0·1	14·7	0	7	21	3	1	0	0	0	11	10	3	3	0
	1130	"	1005·0	996·2	..	36·2	24·8	18·5	21·3	38	..	0·8	..	20·4	0	13	18	4	2	1	0	0	9	12	3	0	0
	1730	"	1001·7	992·9	..	37·4	25·3	18·1	20·8	36	..	0·5	..	22·4	0	18	13	2	1	1	0	1	10	12	3	0	1
	2330	"	1004·5	995·6	..	27·8	23·0	19·8	23·1	66	..	0·3	..	13·2	0	5	20	0	0	0	0	0	13	11	1	6	0
Bhutakia Bhimasar	0830	47	1004·9	999·6	..	29·1	24·4	21·7	25·9	67	..	1·2	..	24·6	0	18	13	5	1	0	0	1	11	10	3	0	0
	1730	"	1001·3	996·1	..	39·7	26·7	20·2	23·7	34	..	1·2	..	26·1	0	20	11	4	1	1	0	2	9	10	4	0	0
New Kandla	0830	14	1006·0	1004·4	..	28·6	23·6	20·4	24·0	65	..	2·1	..	20·4	0	14	17	5	0	0	0	0	14	9	3	0	0
	1730	"	1002·5	1000·9	..	34·9	24·7	17·5	20·0	44	..	1·1	..	30·9	0	25	6	4	0	0	1	1	21	3	1	0	0
Mandvi	0830	9	1005·9	1004·8	..	28·8	25·2	23·3	28·6	75	..	2·7	..	22·8	0	20	11	0	2	0	0	0	17	3	5	0	4
	1730	"	1003·5	1002·4	..	30·5	27·3	26·1	33·8	78	..	3·1	..	35·4	0	27	4	0	0	0	0	0	18	12	0	0	1
Dwarka	0830	11	1006·0	1004·7	−1·2	28·6	25·5	24·0	29·8	78	−5	2·7	+0·4	17·1	0	6	25	4	1	0	0	0	9	11	6	0	0
	1730	"	1003·7	1002·4	..	30·2	26·8	25·4	32·4	76	..	2·4	..	19·9	0	11	20	1	0	0	0	0	10	13	7	0	0
Porbander	0830	7	1006·5	1005·7	..	28·5	24·9	23·1	28·3	74	..	1·7	..	13·4	0	0	31	0	0	0	0	0	4	13	14	0	0
	1730	"	1004·0	1003·2	..	30·9	26·9	25·3	32·2	73	..	3·3	..	19·5	0	10	21	0	0	0	0	0	8	17	6	0	0
Porbander (Aerodrome)	0830	7	1006·1	1005·3	..	30·0	24·1	21·3	25·3	62	..	1·8	..	18·3	0	12	19	5	1	0	0	1	16	3	5	0	0
	1130	"	1006·3	1005·5	..	33·6	24·6	19·5	22·7	51	..	1·2	..	22·4	0	17	14	3	1	0	0	3	10	12	2	0	0
	1730	"	1003·5	1002·7	..	31·7	25·3	22·2	26·7	61	..	1·5	..	24·3	0	22	9	1	0	0	0	0	12	16	2	0	0
Jamnagar	0530	23	1004·2	1001·6	..	25·4	23·2	22·0	26·4	82	..	1·6	..	13·8	0	5	26	1	0	0	0	3	14	12	1	0	0
	0830	"	1005·8	1003·3	−0·9	29·3	24.2	21·7	25·9	66	0	2·6	+1·0	20·5	0	16	14	1	1	0	0	0	6	21	1	1	0
	1130	"	1005·7	1003·2	..	34·6	24·9	19·7	22·9	45	..	1·1	..	25·6	0	23	8	4	2	0	0	0	2	19	4	0	0
	1730	"	1002·5	1000·0	..	34·3	25·1	19·4	22·5	48	..	0·8	..	35·0	0	28	3	3	2	0	0	0	0	22	4	0	0
	2330	"	1005·1	1002·5	..	27·9	24·3	22·6	27·4	73	..	0·9	..	21·3	0	16	15	1	0	0	0	0	6	23	1	0	0
Rajkot (Aerodrome)	0830	138	1005·8	990·4	−1·2	28·8	24·8	22·6	27·4	71	+2	1·3	−0·9	22·5	0	18	13	4	0	0	0	0	16	4	7	0	0
	1130	"	1005·2	990·2	..	35.8	26·6	21·3	25·3	48	..	0·6	..	25·8	0	24	7	4	1	1	0	0	16	5	4	0	0
	1730	"	1001·2	986·4	..	38·5	26·7	20·5	24·1	39	..	1·1	..	26·9	0	22	8	1	0	1	0	0	7	14	6	1	1
Surendranagar	0830	74	1005·7	997·3	..	30·0	21·9	18.1	20·8	54	..	1·8	..	14·9	0	7	24	3	1	1	0	1	9	10	6	0	0
	1730	"	1000·7	992·6	..	40·4	24·3	14·4	16·4	24	..	1·8	..	11·7	0	3	28	3	0	0	0	3	4	10	11	0	0
Bhavnagar	0830	17	1006·2	1004.3	−1·3	30·4	24·6	21·8	26·1	61	0	1·6	−0·2	9·1	0	0	31	2	0	0	0	0	11	7	11	0	0
	1730	"	1001·5	999·7	..	38·3	27·9	23·5	28·9	44	..	1·5	..	14·0	0	5	26	0	5	1	2	15	7	1	0	0	0

*Observations for 18 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount Oktas: Mean amount	Cloud amount Oktas: Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—*Contd.*																											
Bhavnagar (Aerodrome).	0830	11	1005·1	1004·9	..	30·4	23·1	18·5	21·3	53	.	1·6	..	17·9	0	7	24	5	0	1	0	1	9	8	7	0	0
	1130	"	1005·9	1004·7	..	26·1	24·3	17·5	20·0	36	..	1·8	..	16·4	0	4	27	2	4	8	0	0	8	6	3	0	0
	1730	"	1001·6	1000·5	..	37·6	25·9	19·3	22·4	38	..	1·8	..	32·2	0	22	9	1	1	6	1	14	8	0	0	0	0
Mahuva	0830	9	1006·2	1005·2	..	29·9	21·7	22.0	26·8	65	..	2·4	..	10·2	0	3	27	5	1	1	1	1	10	8	3	1	0
	1730	"	1003·0	1002·0	..	32·3	26·5	23.2	29·5	61	..	1·7	..	22·0	0	18	13	0	1	0	3	10	16	1	0	0	0
Keshod	0830	51	1006·5	1000·8	..	29·0	24·1	21·0	25·9	64	..	1·8	..	18·8	0	11	18	5	3	0	1	1	8	9	2	2	0
	1130	"	1006·2	1000.5	..	35·0	24·6	18·2	22·3	42	..	1·4	..	22·9	0	20	11	5	3	0	1	2	9	9	2	0	0
	1730	"	1003·2	997·5	..	35·4	25·2	19·4	23·6	45	..	1·0	..	33·1	0	29	2	0	0	0	0	0	10	18	3	0	0
Veraval	0230	8	1004·7	1003·8	..	26·8	24·5	23·0	28·1	82	..	1·7	..	14·5	0	5	23	7	0	0	0	0	4	12	5	3	0
	0530	"	1004·6	1003·7	..	26·3	23·8	22·0	26·4	81	..	2·3	..	13·0	0	4	26	9	0	0	0	0	5	13	3	1	0
	0830	"	1006·2	1005·3	−1·9	29·2	24.9	22·1	26·4	71	−11	2·4	0	14·7	0	8	20	6	1	0	0	1	8	7	5	3	0
	1130	"	1006·6	1005·7	..	32·1	26·3	22·6	27·4	67	..	2·9	..	16·0	0	9	20	2	2	0	0	0	6	13	6	2	0
	1730	"	1003·7	1002·8	..	29·7	27·3	26·3	34·2	82	..	2·4	..	29·7	0	18	13	0	0	0	0	1	7	13	10	0	0
	2330	"	1005·7	1004·8	..	27·5	25·7	24·9	31·5	87	..	1·5	..	13·0	0	5	22	2	1	0	0	0	3	11	10	4	0
Konkan																											
Dahanu	0830	5	1005·4	1004·9	−2·2	30·2	26·4	24·8	31·3	73	−4	5·1	+0·7	10·9	0	3	27	0	1	5	7	4	8	4	1	1	0
	1730	"	1003·4	1002·9	..	31·6	28·1	26·6	34·8	74	..	4·3	..	21·8	0	17	14	3	1	0	0	0	9	13	5	0	0
Bombay (Colaba)	0830	11	1006·6	1005·4	−2·3	30·2	26·6	25·1	31·8	74	0	3·7	+0·4	5·5	0	0	29	2	1	4	5	2	4	8	3	2	0
	1130	"	1006.6	1005.4	..	32·7	27·3	25·1	32·0	65	..	2.4	..	8·0	0	1	29	1	0	0	2	6	6	9	6	1	0
	1730	"	1003·7	1002·5	..	32·0	27·1	25.0	31·8	67	..	3·2	..	10.3	0	0	31	0	0	0	0	0	6	14	11	0	0
Bombay (Santacruz Aerodrome).	0230	15	1004·9	1003·3	..	28·3	25·1	23·9	29·7	77	..	3·0	..	5·8	0	2	14	3	0	0	1	0	5	4	3	15	0
	0530	"	1005·0	1003·4	..	27·7	24·9	23·7	29·3	79	..	3·5	..	4·3	0	0	16	2	0	1	2	1	6	2	2	15	0
	0830	"	1006·4	1004·8	−2·5	30·5	25·6	23·4	28·8	67	−5	4·0	+0·7	9·5	0	1	27	1	3	3	5	2	2	6	6	3	0
	1130	"	1006·4	1004·8	..	32·8	26.0	22·9	27·9	57	..	3·5	..	16·3	0	5	25	0	0	0	0	0	8	14	8	1	0
	1730	"	1003.5	1001·9	..	31·8	25·8	22·9	27·9	61	..	3·6	..	19·1	0	9	22	1	0	0	0	0	4	12	14	0	0
	2330	"	1006·2	1004·6	..	28.8	25·3	23·5	28·9	73	..	2·8	..	7·7	0	0	26	4	1	1	1	4	6	5	4	5	0
Alibag	0830	7	1006·5	1005·7	−2.0	29·7	26.1	24·6	30·9	75	+3	4·1	+0.6	6·2	0	8	23	1	2	3	1	4	3	3	6	8	0
Harnai	0830	20	1006.7	1004.4	−1·1	29·2	26·7	25·4	32.4	81	+2	5.4	..	10·2	0	2	24	5	1	1	4	5	0	3	6	5	1
	1730	"	1004·0	1001·7	..	30.3	27·4	26·2	34·0	79	..	5·6	..	17·8	0	7	24	0	0	0	0	1	6	15	9	0	0
Ratnagiri	0830	35	1006·9	1002·9	−2·1	29·3	26·0	24·7	31·1	76	..	4·7	..	..	..	..	..	0	3	20	2	0	0	4	2	0	0
	1730	"	1004·3	1000·4	..	31·1	27·1	25·4	32·4	72	..	5·2	..	..	..	..	..	0	0	0	0	0	6	25	0	0	0
Devgad	0830	36	1006·9	1002·9	−1·5	28·8	26·1	24·9	31·5	80	+6	5·8	+1.2	8·7	0	0	31	1	0	7	11	6	1	0	5	0	0
	1730	"	1004·3	1000·3	..	31·0	27·3	25·9	33·4	74	..	5·5	..	22·0	0	15	16	0	0	0	0	1	12	8	10	0	0
Vengurla	0230	9	1005·6	1004·6	..	26·8	25·2	24·5	30·7	88	..	5·0	..	2·1	0	1	6	1	2	1	3	0	0	0	0	24	0
	0530	"	1005·6	1004·6	..	26·9	25·0	24·4	30·5	90	..	5·8	..	2·9	0	0	19	4	1	6	7	1	0	0	0	12	0
	0830	"	1007·2	1006·2	..	28·7	25·9	24.7	31·1	80	..	5·7	..	4·7	0	0	26	2	2	5	9	2	1	2	3	5	0
	1130	"	1007·3	1006·3	..	31·1	26·8	25·0	31·7	71	..	5·0	..	6·0	0	0	30	3	0	1	2	4	13	5	2	1	0
	1730	"	1004·5	1003·5	..	30·7	26·9	25·3	32·2	73	..	6·2	..	7·6	0	0	30	2	0	0	1	4	11	5	7	1	0
	2330	"	1007·1	1006·1	..	27·6	25·7	24·8	31·3	85	..	5·3	..	4·5	0	0	18	5	1	3	4	0	4	0	1	13	0
Maharashtra (Including Marathwada)																											
Nandurbar	0830	206	1005·8	982·9	..	29·7	24·0	21·0	24·9	62	..	0·5	..	13·0	0	3	28	0	0	1	0	0	2	28	0	0	0
	1730	"	1000·8	978·3	..	37·8	25·2	18·8	21·7	35	..	0·8	..	11·8	0	1	30	1	0	0	0	0	3	25	2	0	0
Jalgaon	0830	201	1005·2	983·0	..	31·3	21·8	14·7	16·7	44	..	2·3	..	31·4	0	20	11	1	0	2	1	1	1	15	10	0	0
	1730	"	999·1	977.7	..	40·5	22·2	8·3	10·2	17	..	2·7	..	20·3	0	12	19	0	1	3	1	0	2	19	5	0	0
Malegaon	0830	437	1005·1	957·3	−1·6	29·8	20·9	14·4	16·4	43	−4	2·9	+1·5	5·6	0	0	28	3	0	0	0	0	6	6	13	3	0
	1730	"	999·5	953·1	..	37·9	22·0	10·0	12·3	23	..	4·1	..	19·3	0	1	28	9	3	0	0	0	4	4	9	2	0
Deolali	0830	571	1006·7	944·3	..	27·9	21·7	18·2	20·9	59	..	3·8	..	14.0	0	8	23	1	3	0	0	0	14	11	2	0	0
	1730	"	1001·9	941·0	..	34·2	22·6	16·1	18·3	38	..	4·3	..	18·5	0	14	15	2	2	0	0	0	9	7	9	2	0
Aurangabad	0830	581	1005·5	942·5	−1·4	29·5	22·0	18·3	21·0	52	+8	3·0	+1·3	10·5	0	4	22	2	1	3	1	0	1	17	1	5	0
	1730	"	999·8	938·0	..	36·8	23·7	16·9	19·3	34	..	5·0	..	8·9	0	2	25	8	4	2	0	1	1	6	5	4	0
Aurangabad (Chikalthana Aerodrome)	0230	579	1003·4	940·2	..	27·2	20·1	15·6	17·7	53	..	3·6	..	13·8	0	5	24	3	0	0	3	0	1	14	8	2	0
	0530	"	1004·0	940·5	..	25·5	19·2	15·0	17·0	56	..	3·8	..	14·8	0	8	21	2	1	1	0	1	1	13	10	2	0
	0830	"	1004·9	942·2	..	29·5	21·3	16·2	18·4	49	..	3·1	..	15·2	0	9	20	4	0	3	2	0	1	12	7	2	0
	1130	"	1003·3	941·7	..	34·8	22·5	15·4	17·5	34	..	2·8	..	16·7	0	10	20	6	2	0	2	0	1	6	13	1	0
	1730	"	998·7	937·7	..	36·9	22·5	14·3	16·3	29	..	5·2	..	16·0	0	6	22	12	1	1	1	0	3	1	9	3	0
	2330	"	1003·5	940·8	..	29·5	21·0	15·9	18·1	48	..	4·0	..	18·5	0	10	19	4	0	1	0	0	6	6	12	2	0
Ahmednagar*	0830	657	1005·7	934·4	−1·3	27·8	20·4	15·5	17·6	53	+12	3·3	+1·9	3·2	0	0	18	1	1	0	1	0	0	2	10	13	0
	1730	"	999·1	930·0	..	35·9	21·5	13·3	15·3	28	..	5·2	..	5·8	0	0	27	2	5	0	0	1	4	3	9	4	0
Bhir	0830	519	1005·3	949·5	..	29.6	24·4	22·0	26·4	66	..	3·6	..	11·5	0	0	31	3	0	1	1	4	4	4	14	0	0
	1730	"	999·3	945·2	..	37·6	25·5	2.00	23·4	38	..	4·8	..	12·9	0	4	27	9	5	2	6	0	2	0	7	0	0

*Wind Directions for 28 days

Division and station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Maharashtra (Including Marathwada)—Contd.																											
Parbhani	0830	423	1005·2	959·1	..	30·7	21·4	15·2	17·3	43	..	3·7	..	17·0	0	10	21	0	1	1	2	3	1	14	9	0	0
	1730	„	998·6	954·0	..	38·8	22·0	10·0	12·3	19	..	5·3	..	11·5	0	2	28	4	1	6	3	1	3	5	7	1	0
Nanded	0830	350	1004·2	965·0	..	30·8	22·4	17·5	20·0	47	..	1·2	..	9·5	0	1	27	3	3	2	2	2	5	6	5	3	0
	1730	„	999·2	961·1	..	38·5	23·0	13·3	15·3	23	..	1·8	..	8·9	0	3	25	3	5	1	4	2	3	7	3	3	0
Poona	0530	559	1005·2	943·5	..	24·2	21·4	19·9	23·5	78	..	4·5	..	1·2	0	0	5	0	0	0	0	0	3	2	0	26	0
	0830	„	1006·0	944·9	−1·8	27·5	22·3	19·7	22·7	64	+6	3·7	+1·7	3·0	0	0	18	1	0	1	2	1	3	5	5	13	0
	1130	„	1004·3	944·3	..	33·0	22·9	17·7	20·7	43	..	2·7	..	6·3	0	0	23	3	5	3	1	2	2	3	4	8	0
	1730	„	1001·1	941·3	..	32·9	23·3	18·3	21·0	46	..	5·5	..	9·0	0	0	25	2	3	0	0	2	8	7	3	6	0
	2330	„	1005·7	944·4	..	26·3	22·1	20·0	23·6	69	..	4·1	..	4·3	0	0	16	1	0	0	3	0	5	6	1	15	0
Poona (Lohagaon Aerodrome)	0230	593	1005·1	939·9	..	24·6	20·6	18·2	20·9	71	..	3·4	..	7·5	0	0	26	1	1	0	0	0	1	22	1	5	0
	0530	„	1005·5	940·0	..	23·6	20·7	19·0	22·0	77	..	4·0	..	6·5	0	0	27	0	0	1	0	0	0	17	9	4	0
	0830	„	1006·2	941·5	..	26·5	21·5	18·5	21·3	63	..	4·3	..	11·1	0	6	22	1	0	0	0	2	0	19	6	3	0
	1130	„	1004·6	940·9	..	32·2	22·0	15·9	18·1	42	..	3·6	..	14·2	0	7	22	0	0	5	2	0	0	15	7	2	0
	1730	„	1001·1	937·7	..	32·5	22·1	15·8	17·9	43	..	5·8	..	23·7	0	17	14	2	1	2	1	0	1	15	9	0	0
	2330	„	1005·8	940·7	..	25·8	21·4	18·9	21·8	68	..	4·3	..	13·8	0	8	20	0	0	0	1	0	0	22	5	3	0
Baramati	0830	551	1005·7	945·7	..	28·0	22·2	19·0	22·0	62	..	4·0	..	10·1	0	1	30	5	2	1	0	0	5	9	9	0	0
	1730	„	999·9	941·5	..	34·5	22·7	16·3	18·5	38	..	5·4	..	17·2	0	10	21	4	2	3	1	2	6	9	4	0	0
Jeur	0830	521	1005·4	948·5	..	28·3	21·9	18·3	21·0	59	..	3·3	..	14·4	0	5	25	1	1	2	0	3	2	7	14	1	0
	1730	„	999·0	943·9	..	36·5	22·9	15·5	17·6	30	..	4·8	..	12·0	0	5	25	4	2	4	2	3	3	5	7	1	0
Sholapur	0530	479	1004·6	951·9	..	26·2	21·8	19·6	22·8	69	..	5·1	..	4·4	0	0	22	1	2	1	2	0	4	4	8	9	0
	0830	„	1005·8	953.4	−1·2	28·9	22·8	19·8	23·1	60	+12	4·5	+2·3	8·4	0	0	28	1	4	0	5	0	7	4	7	3	0
	1130	„	1004·1	952·8	..	34·6	24·2	19·2	22·2	42	..	3·9	..	6·8	0	0	27	5	3	0	4	0	3	4	8	4	0
	1730	„	999·3	948·7	..	37·0	24·1	17·6	20·1	33	..	5·4	..	7·5	0	0	26	1	4	1	5	0	9	0	6	5	0
	2330	„	1004·1	952·1	..	30·5	22·9	19·1	22·1	55	..	5·3	..	8·6	0	1	25	0	2	0	5	0	8	7	4	5	0
Miraj	0830	554	1006·2	945·5	−1·5	26·2	23·7	22·6	27·4	80	+4	4·8	+2·1	..	..	..	..	4	1	1	1	0	1	4	3	16	0
	1730	„	1000·8	941·7	..	33·4	26·2	23·2	28·4	58	..	5·4	..	..	..	..	..	4	3	0	1	0	2	12	4	5	0
Kolhapur	0530	570	1005·4	942·5	..	23·2	21·5	20·7	24·4	86	..	5·0	..	6·0	0	0	26	1	1	1	0	0	4	18	1	5	0
	0830	„	1006·5	944·0	−1·4	26·1	22·6	21·0	24·9	75	+2	5·2	+2·5	7·8	0	0	26	0	1	0	0	0	6	15	4	5	0
	1130	„	1004·8	943·5	..	31·3	23.2	19·1	22·1	51	..	4·8	..	11·4	0	0	31	1	3	2	3	0	5	11	6	0	0
	1730	„	1001·7	940·5	..	30·8	23·4	19·8	23·1	54	..	5·9	..	19·6	0	12	18	0	2	0	1	1	4	20	2	1	0
	2330	„	1006·5	945·7	..	24·5	22·0	20·8	24·6	81	..	4·9	..	10·6	0	0	31	0	0	1	1	1	5	20	3	0	0
Vidarbha Buldhana	0830	650	1003·9	933·8	..	27·3	19·9	14·8	17·8	48	−4	3·6	..	4·6	0	0	30	0	9	0	1	0	0	0	20	1	0
	1730	„	998·7	930·1	..	36·6	21·7	12·7	15·1	25	..	4·3	..	2·8	0	0	23	0	12	0	0	0	0	0	11	8	0
Akola	0830	282	1004·2	975·3	−1·1	31·3	22·8	17·5	20·7	43	+7	2·8	+1·0	6·7	0	0	29	1	1	0	1	0	4	13	9	2	0
	1130	„	1002·7	972·5	..	36·9	24·6	17·6	20·9	34	..	2·3	..	8·2	0	1	27	2	1	2	0	0	6	8	9	3	0
	1730	„	997·9	968·1	..	40·6	24·9	15·6	18·8	25	..	4·2	..	5·5	0	0	28	4	0	1	0	0	1	13	9	3	0
Akola (Aerodrome)	0530	309	1002·8	968·6	..	28·5	19·4	12·0	15·1	39	..	3·1	..	8·5	0	3	24	1	1	0	0	0	5	16	3	4	1
	2330	„	1001·6	968·0	..	33·2	20·5	10·6	13·8	29	..	3·3	..	7.6	0	3	25	0	1	3	0	0	7	12	5	3	0
Amravati	0830	370	1003·5	963.2	−1·4	31·7	23·3	18·6	21·9	47	+12	3·0	+1·4	16·5	0	7	24	0	2	0	1	3	11	9	5	0	0
	1730	„	997.4	958·3	..	39·8	24·6	16·0	18·4	26	..	4·9	..	11·3	0	1	30	2	2	2	0	1	7	4	13	0	0
Yeotmal	0830	451	1002·7	954·4	..	32·1	20·9	13·3	15·8	34	..	2·3	..	13·5	0	3	28	1	0	0	1	3	7	15	4	0	0
	1730	„	997·2	949·9	..	40·2	21·5	7·4	10·5	15	..	5·0	..	8·2	0	1	29	3	2	4	2	1	2	14	2	1	0
Nagpur	0230	310	1000·5	966·5	..	30·3	19·5	11·8	13·9	33	..	2·2	..	6·8	0	0	27	5	1	0	1	2	5	4	9	4	0
	0530	„	1001·7	967·5	..	28·7	19·4	12·7	15·1	38	..	3·2	..	7·6	0	3	19	3	0	0	2	1	3	6	7	9	0
	0830	„	1003·1	969·4	..	33·7	21·8	14·0	16·4	32	+2	2·8	+0·7	15·3	0	10	19	3	2	1	1	2	3	7	10	2	0
	1130	„	1001·6	968·6	1·1	39·2	22·6	11·2	12·8	20	..	2·5	..	12·3	0	5	26	1	2	1	2	1	1	5	18	0	0
	1730	„	997·1	964·4	..	40·9	22·3	8·8	11·7	16	..	4·3	..	7·5	0	1	24	2	3	1	5	0	0	5	9	6	0
	2330	„	1000·9	967·0	..	32·6	20·5	12·0	14·3	30	..	3·0	..	5·1	0	0	23	6	0	0	0	2	3	7	5	8	0
Gondia	0830	313	1003·2	969·1	..	33·6	22·6	15·5	18·3	36	..	2·1	..	7·9	0	0	29	0	0	0	2	0	8	0	7	2	12
	1730	„	997·4	964·4	..	41·0	23·9	12·2	15·7	21	..	3·7	..	6·6	0	0	28	1	2	0	1	1	3	0	13	3	7
Brahmapuri	0830	229	1003·9	978·8	..	33·8	23·3	14·9	20·0	42	..	2·3	..	4·0	0	2	25	0	0	0	1	7	9	6	4	4	0
	1730	„	997·8	973·5	..	41·5	23·6	11·7	15·5	18	..	3·2	..	3·8	0	0	24	2	2	0	0	5	4	7	4	7	0
Chanda	0830	193	1003·8	982·6	−1·1	33·6	23·1	17·2	19·6	38	+5	3·3	+1·3	12·7	0	7	24	1	0	2	2	5	1	10	10	0	0
	1730	„	997·8	977·3	..	40·7	23·7	13·0	15·5	20	..	4·9	..	6·6	0	0	28	4	0	4	3	3	3	3	8	3	0
Sironch	0830	123	1004·8	991·2	..	32·8	24·1	19·6	22·8	47	..	2·9	..	7·2	0	0	31	1	1	3	7	6	4	9	0	0	0
	1730	„	998·8	984·7	..	40·8	24·7	15·5	17·9	23	..	2·9	..	5·8	0	0	30	1	3	2	3	5	8	4	4	1	0
Costal Andhra Pradesh—																											
Nellore	0530	20	1003·8	1001·6	..	27·8	24·6	23·3	28·6	78	..	3·2	..	4.0	0	0	29	0	1	4	7	3	5	8	1	2	0

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity miles per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—*contd.* Nellore—*contd.*	0830	20	1005·5	1003·3	−0·5	32·1	25·8	22·9	27·9	59	−1	4·2	+0.4	6.4	0	0	31	0	0	2	7	7	0	13	2	0	0
	1130	,,	1004·7	1002·5	..	36·4	25·8	20·7	24.4	41	..	4·1	.	6·3	0	0	31	0	2	1	8	5	3	8	4	0	0
	1730	,,	1001·7	999·5	..	33·9	26·3	22·9	27·9	53	..	4·5	..	5·4	0	0	30	0	2	9	13	2	1	3	0	1	0
	2330	,,	1004·7	1002·5	..	29·0	26·0	24·7	31·1	78	..	2·2	..	3·2	0	1	21	0	0	4	7	1	7	2	1	9	0
Ongole	0830	12	1005·1	1003·7	..	31·4	27·1	25·8	33·2	71	..	5·1	..	5.0	0	0	25	0	1	0	17	0	1	4	2	6	0
	1730	,,	1001·5	1000·2	..	33·3	28·2	26·0	33·6	68	−..	5·0	..	5·7	0	0	29	0	1	2	24	1	0	0	1	2	0
Rentichintala	0830	106	1005·2	993·4	..	32·0	24·6	21·4	25·5	53	0	4·2	0	5·9	0	0	27	0	0	1	2	8	2	14	0	4	0
	1730	,,	999·6	988·5	..	38·7	24·2	16·2	18·4	78	..	4·1	..	5.5	0	0	31	1	0	8	6	3	1	11	1	0	0
Gannavaram	0230	24	1003·3	1000·6	..	29·1	25·8	24·3	30·4	77	..	3.1	..	4·2	0	3	16	0	0	1	3	5	8	2	0	12	0
	0530	,,	1003·8	1001·1	..	28·1	25·5	24·2	30·2	81	..	4·3	..	5·2	0	1	18	0	0	0	5	3	6	3	2	12	0
	0830	,,	1005·5	1002·8	..	31·8	26·7	24·5	30·7	67	..	5·1	..	13·4	0	5	26	2	0	0	6	8	3	8	4	0	0
	1130	,,	1004·5	1001·9	..	36·1	27·3	23·4	28·4	49	..	4·1	..	14·7	0	8	23	1	1	0	4	7	6	7	5	0	0
	1730	,,	1000·8	998·2	..	37·3	27·1	22·4	27·1	44	..	4.0	..	15·8	0	8	21	1	0	0	7	11	2	4	4	2	0
	2330	,,	1004·4	1001·8	..	30·6	26·3	24·5	30·7	71	..	2·9	..	12·3	0	5	25	1	0	1	7	12	6	3	0	1	0
Masulipatnam	0830	3	1005·6	1005·3	−0·4	31·6	26·6	24·4	30·5	67	−5	4·4	+0·7	8·4	0	0	31	0	0	0	0	20	0	5	6	0	0
	1730	,,	1001·3	1000·9	..	33·2	27·2	24·6	30·9	63	..	3·3	..	10·0	0	0	30	1	0	0	0	26	0	3	0	1	0
Nidadavolu	0830	12	1005·6	1004·2	..	30·8	26·8	25·2	32·1	73	..	6·6	..	9·1	0	0	30	0	3	1	3	8	6	8	1	1	0
	1730	,,	1001·0	999·3	..	35·4	27·1	23·5	28·9	51	..	5·1	..	13·5	0	3	28	0	0	1	7	16	3	2	2	0	0
Kakinada	0830	8	1005·3	1004·4	−0·9	32·8	27·6	25·4	32·4	65	−6	4·5	+0·1	10·0	0	0	31	0	0	3	9	0	18	0	1	0	0
	1730	,,	1001.2	1000·3	..	34·5	28·6	26·3	34·2	64	..	4·1	..	12·0	0	0	31	0	0	0	21	0	10	0	0	0	0
Visakhapatnam	0230	3	1003.1	1002·7	..	29·1	26·9	26·0	33·6	84	..	2·9	..	6·6	0	2	18	0	0	2	0	2	16	0	0	11	0
	0530	,,	1003·4	1003·0	..	28·6	26·7	25·9	33·4	86	..	4·5	..	5·5	0	0	19	1	0	0	0	0	14	2	0	12	2
	0830	,,	1004·6	1004·3	−1·1	31·8	27·3	25.5	32·6	70	−4	3·6	−1·1	11·5	0	4	24	0	0	0	0	1	22	3	1	3	1
	1130	,,	1004·0	1003·6	..	35·1	28·3	25·6	32·8	59	..	3·3	..	18·2	0	15	16	0	0	1	1	10	18	0	0	0	1
	1730	,,	1001·6	1001·2	..	32·1	27·9	26·4	34·4	73	..	5·7	..	14·6	0	3	28	0	0	1	3	8	19	0	0	0	0
	2330	,,	1003·9	1003·5	..	29.8	27·3	26·3	34·2	82	..	4·6	..	7·5	0	1	20	0	0	0	1	2	15	1	0	10	2
Calingapatam	0830	6	1005·2	1004·5	−0.3	30·3	27·6	26·5	34·6	80	+8	3·3	−0·2	18·2	0	13	18	0	0	0	0	10	9	2	3	0	7
	1730	,,	1001·8	1001·1	..	30·6	28·4	27·4	36·5	84	..	4·5	..	19·5	0	11	20	1	1	1	3	12	10	1	0	0	2
Telangana Ramagundam	0830	156	1004·3	986·9	..	32·4	24.1	19·7	22·9	48	..	3·8	..	7.2	0	1	28	3	1	0	5	4	3	6	7	2	0
	1730	,,	998·5	981·8	..	40·5	24·9	16·3	18·5	25	..	3·7	..	4·4	0	0	30	4	6	2	5	8	3	0	2	1	0
Nizamabad	0830	381	1004·3	962·7	−1·3	30·2	21·8	17·5	20·0	46	+5	2.2	0	1·9	0	0	14	1	0	0	0	1	2	9	1	17	0
	1730	,,	998·6	958·2	..	38·3	24·0	16·9	19·3	29	..	2·8	..	0·6	0	0	6	0	0	0	1	0	2	3	0	25	0
Mahbubnagar	0830	505	1005·3	950·3	..	29·7	25·3	18·2	20·9	52	..	5.4	..	10·7	0	1	29	4	0	2	2	1	9	6	6	1	0
	1730	,,	999·5	949·2	..	36·3	22·3	14·2	16.2	29	..	5.4	..	8·5	0	1	27	1	1	6	4	2	2	5	7	3	0
Hyderabad (Begumpet Aerodrome)	0230	545	1002·9	943·7	..	27·9	21·1	17·5	20·0	54	..	3·6	..	14·7	0	7	23	1	0	1	10	1	3	9	5	1	0
	0530	,,	1003·9	944·3	..	26·2	20·9	18·1	20·8	62	..	4·5	..	11.2	0	6	19	1	2	0	5	1	1	10	5	6	0
	0830	,,	1004·9	945·8	−0·5	29·3	21·5	17·3	19·7	50	−1	4·5	+1·5	13·8	0	7	23	5	0	0	3	3	6	8	5	1	0
	1130	,,	1003·3	945·3	..	34·5	22·1	15·0	17·0	33	..	3.9	..	12·3	0	4	26	3	2	1	4	4	2	7	6	1	1
	1730	,,	999·1	941·6	..	36·1	21·9	13·4	15·4	28	..	4·6	..	10·5	0	1	28	3	5	2	9	1	4	4	1	2	0
	2330	,,	1003·1	944·4	..	30·6	21·5	16·5	18.8	44	..	4·1	..	12·9	0	4	24	0	0	0	11	2	7	5	3	3	0
Hakimpet	0530	613	1003.7	936·8	..	25·6	21·5	19·4	22.5	69	..	4·7	..	13·8	0	10	21	2	1	2	4	6	3	9	4	0	0
	0830	,,	1004·4	938.1	..	28·7	22·3	19·1	22·1	57	..	4·0	..	15·0	0	9	22	2	2	0	4	2	6	10	5	0	0
	1130	,,	1003·0	937·8	..	33·1	23·2	17·8	20·4	40	..	3·8	..	13.4	0	7	24	3	2	0	5	4	2	8	6	0	1
	1730	,,	999·6	934·9	..	35·1	23·1	17·0	19·4	35	..	4·4	..	10·7	0	3	27	2	3	4	7	3	3	7	1	1	0
Hanamkonda	0830	269	1004·5	975·0	−1·0	31·2	24·9	21·9	26·3	58	+11	1·6	−1.4	6·0	0	0	31	2	0	2	5	7	3	5	7	0	0
	1730	,,	999·6	970·9	..	38·7	25·9	19·7	22·9	34	..	2·5	..	4·5	0	0	30	0	0	5	13	2	0	6	4	1	0
Bhadrachallam	0830	111	1005·3	993·0	..	31·6	25·7	22·9	27·9	61	..	3·8	..	5·8	0	0	30	0	0	4	4	2	8	8	4	1	0
	1730	,,	999·2	987·3	..	39·3	25·9	19·2	22·2	33	..	4·2	..	4·9	0	1	30	2	4	4	4	2	6	7	2	0	0
Khammameth	0830	112	1005·2	992·8	..	31·4	26·0	23·6	29·1	64	..	4·9	..	8·7	0	0	28	1	1	3	8	4	4	6	1	3	0
	1730	,,	999·3	987·3	..	39·2	26·2	19·9	23·2	33	..	5·0	..	7·8	0	0	29	0	1	4	5	7	2	10	0	2	0
Rayalaseema Arogyavaram	0830	701	1006·1	930·1	..	26·4	21·2	18·4	21·1	62	..	4·7	..	6·7	0	0	27	2	0	0	3	5	1	6	10	4	0
	1730	,,	1000·5	926·4	..	33·0	21·3	14·4	16·5	35	..	5·3	..	6·8	0	0	31	4	3	8	3	0	1	4	8	0	0
Cuddaphah	0630	130	1006·3	991·9	−0·8	32·1	27·2	25·1	31·9	67	+13	2·5	−0·7	2·3	0	0	11	0	0	3	0	0	0	1	7	20	0
	1730	,,	1000·6	986·5	..	38·1	28·3	24·3	30·4	46	..	3·5	..	6·2	0	0	22	0	0	13	0	0	0	5	4	9	0
Anantapur	0530	350	1004·7	965·9	..	26·3	21·3	18·2	20·9	62	..	4.3	..	6·1	0	1	19	1	0	0	1	0	4	13	1	11	0
	0830	,,	1006·3	967·7	..	29·0	22·8	19·4	22·5	57	..	5·0	..	10·7	0	2	28	0	1	1	4	0	7	11	6	1	0
	1130	,,	1005·0	967·1	..	33·8	22·9	16·5	18·8	37	..	3·8	..	8·3	0	0	29	2	1	3	2	1	4	9	7	2	0
	1730	,,	1000·7	963·2	..	35·9	22·5	13·5	15·5	30	..	5·5	..	12·9	0	4	25	0	2	10	1	0	5	7	4	.	0
	2330	,,	1004·8	966·5	..	30·3	21·8	16·3	18·5	46	..	3·6	..	17·8	0	10	20	0	0	7	3	0	6	12	2	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind velocity, miles per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rayalaseema—*contd.*																											
Kurnool	0830	281	1005·9	975·0	—0·8	30·3	24·8	22·2	26·7	63	+8	4·7	+1·6	7·2	0	0	29	0	0	2	1	3	4	13	6	2	0
	1730	,,	999·5	969·5	..	38·1	24·8	17·5	20·0	31	..	5·0	..	8·8	0	0	30	2	1	9	8	2	0	7	1	1	0
Mardas State Palayamacottai	0830	51	1007·4	1001·7	..	28·9	24·6	22·6	27·4	70	..	6·5	..	9·1	0	0	28	2	0	2	2	1	1	11	9	3	0
	1730	,,	1004·5	998·8	..	30·7	24·9	22·2	26·9	63	..	7·0	..	14·7	0	2	29	1	0	0	6	3	2	12	7	0	0
Tuticorin	0830	4	1007·6	1007·2	..	29·5	25·1	23·1	28·3	69	..	6·2	..	12·8	0	3	28	1	1	1	1	4	8	13	2	0	0
	1730	,,	1004·6	1004·2	..	31·1	25·3	22·6	27·4	62	..	4·4	..	13·6	0	8	23	0	0	0	6	5	5	15	0	0	0
Pamban	0830	11	1007·3	1006·0	—0·6	28·4	25·8	24·6	30·9	80	+2	5·4	+2·7	9·8	0	1	27	0	0	0	0	5	18	5	0	3	0
	1730	,,	1004·6	1003·3	..	29·6	26·1	24·6	30·9	75	..	5·0	..	12·3	0	5	26	0	0	1	0	17	11	2	0	0	0
Tondi	0830	5	1007·2	1006·6	..	29·0	25·0	22·7	27·6	69	..	6·1	..	7·3	0	3	14	0	0	0	2	4	8	3	0	14	0
	1730	,,	1003·9	1003·3	..	30·4	26·4	24·6	30·9	72	..	6·1	..	24 2	0	22	8	1	0	0	6	15	6	1	1	1	0
Mathurai	0830	133	1007·0	992·1	—0·9	28·5	24·6	22·7	27·6	72	+9	7·0	+2.7	4·1	0	0	29	1	1	1	3	0	9	0	14	2	0
	1730	,,	1003·3	988·6	..	31·7	24·9	21·5	25·6	57	..	7·5	..	8·3	0	0	31	0	3	0	11	0	14	0	3	0	0
Mathurai (Aerodrome).	0530	131	1005·3	990·5	..	25·6	23·5	22·3	26·9	83	..	6·0	..	4·7	0	0	23	4	2	3	3	3	5	3	0	8	0
	0830	,,	1007·0	992·3	..	28·7	24·3	22·1	26·6	68	..	6·0	..	8·3	0	0	30	6	1	3	4	4	7	3	2	1	0
	1130	,,	1006·1	991·6	..	32·4	24·6	20·7	24·4	51	..	6·0	..	10·5	0	1	29	1	2	2	4	2	12	5	2	1	0
	1730	,,	1003·5	989·0	..	31·5	24·2	20·5	24·1	54	..	6·8	..	14·2	0	5	26	2	0	3	4	6	7	8	1	0	0
Adirampattinam	0830	..	..	..		29·8	25·5	23·6	29·1	69	..	4·0	..	10·8	0	0	31	0	0	0	0	10	11	2	8	0	0
	1730	..	..	..		30·7	26·6	24·8	31·3	71	..	5·3	..	26·1	0	25	5	0	0	0	3	16	9	0	2	1	0
Nagapattinam	0830	9	1007 0	1006·0	—0·5	30·2	25·3	23·0	28·1	66	—3	5·7	+1·9	14·9	0	8	23	0	0	0	5	1	10	12	3	0	0
	1730	,,	1003·5	1002·5	..	31·2	26·2	23·8	29·5	66	..	6·0	..	19·9	0	12	19	0	0	0	11	9	8	3	0	0	0
Tiruchirapalli	0230	88	1004·8	994·9	..	27·1	23·8	22·2	26·7	75	..	4·1	..	19·1	0	11	19	0	0	0	3	5	0	20	2	1	0
	0530	,,	1005·0	995·1	..	26·5	23·7	22·3	26·9	78	..	4·8	..	15·8	0	10	20	0	0	0	2	5	3	18	2	1	0
	0830	,,	1006·8	996·9	—1.1	29.0	24·4	22·1	26·6	67	+2	5·2	+1.8	19·2	0	11	20	0	0	0	1	5	3	21	1	0	0
	1130	,,	1005·8	996·1	..	33.1	25·0	21·1	25·0	50	..	5·1	..	21·9	0	15	16	0	0	1	2	5	1	21	1	0	0
	1730	,,	1002·8	993·1	..	33·5	25·0	20·9	24·7	49	..	6·5	..	22·7	0	12	19	0	0	1	6	5	3	15	1	0	0
	2330	,,	1006·2	996·3	..	28·1	24·0	22·1	26·6	70	..	4·6	..	21·7	0	12	19	1	0	1	5	5	2	17	0	0	0
Coimbatore	0830	409	1007·5	962·2	—0·7	25·9	23·3	22·0	26·4	79	+1	6·9	+3·5	18·0	0	6	25	0	2	2	0	13	14	0	0	0	0
	1730	,,	1003·9	959·2	..	28·4	23·6	21·2	25·2	66	..	7·2	..	16·7	0	7	24	0	2	1	1	10	14	3	0	0	0
Coimbatore (Peelamedu Aerodrome).	0530	400	1006·1	961·5	..	23·4	22·3	21·7	25·9	90	..	5·4	..	15·0	0	7	23	1	2	1	0	2	23	1	0	1	0
	0830	,,	1007·4	963·2	..	26·2	23·5	22·2	26·7	79	..	5·7	..	19·7	0	14	17	0	7	0	1	1	20	2	0	0	0
	1130	,,	1006·3	962·7	..	30·2	24·1	21·0	24·9	59	..	5·9	..	26·2	0	19	12	0	4	4	2	3	16	2	0	0	0
	1730	,,	1003·9	960·2	..	28·4	23·5	21·0	24·9	66	..	6·6	..	35·1	0	26	5	0	3	1	1	5	19	2	0	0	0
	2330	,,	1007·3	962·7	..	24·3	22·6	21·8	26·1	86	..	5·6	..	25·3	0	21	10	0	1	0	0	13	14	1	2	0	0
Salem	0530	278	1005·5	974·4	..	25·4	22·6	21·3	25·3	79	..	5·9	..	1·9	0	0	18	0	0	4	0	1	8	5	0	13	0
	0830	,,	1006·8	975·7	—1·3	28·0	23·5	21·2	25·2	67	—4	5·9	+2·5	3·3	0	0	22	0	0	3	1	2	8	7	1	9	0
	1130	,,	1005·5	975·2	..	32·5	24·3	20·2	23·7	49	..	6·6	..	6.5	0	0	31	0	1	7	1	4	7	8	3	0	0
	1730	,,	1002·1	971·7	..	33.1	24·1	19·4	22·5	46	..	6·6	..	7·2	0	0	30	0	0	7	3	9	5	5	1	1	0
	2330	,,	1006·4	975·4	..	27.3	23·3	21·4	25·5	71	..	4·5	..	4·0	0	0	22	0	1	5	1	5	6	4	0	9	0
Kallakurichi	0830	127	1015·9	991·9	..	30.1	26·9	25·5	32·6	77	..	4·1	..	8·0	0	1	29	2	2	1	5	11	7	0	2	1	0
	1730	,,	1001.7	987·8	..	34.6	29·6	26·5	34·6	64	..	5·5	..	13·5	0	3	27	0	1	6	10	2	10	1	0	1	0
Cuddalore	0530	12	1004·5	1003·2	..	27.3	24·8	23·6	29·1	81	..	5·8	..	2·4	0	0	10	0	0	0	0	0	8	1	1	21	0
	0830	,,	1006·3	1005·0	—9.0	30.4	25·9	23·8	29·5	69	+1	6·1	+2.8	5·0	0	0	25	0	0	1	4	7	11	2	0	6	0
	1130	,,	1005·7	1004·4	..	33.9	26·7	23·4	28·8	55	..	5·6	..	6·1	0	1	29	0	1	2	12	1	9	2	2	1	1
	1730	,,	1002·5	1001·2	..	32.4	27·1	24·8	31·3	67	..	6·8	..	9·0	0	0	31	0	0	3	19	3	6	0	0	0	0
	2330	,,	1005·7	1004·4	..	29.1	25·9	24·4	30·5	76	..	5·5	..	5.1	0	1	21	0	0	0	8	6	8	0	0	9	0
Tirupattur	0830	390	1006·6	963·7	..	28·0	23.0	20·4	24·0	64	..	4·9	..	1·3	0	0	13	6	0	0	1	1	2	3	0	18	0
	1730	,,	1001·2	959·3	..	34·3	24·1	18·8	21·7	43	..	5·4	..	5·8	0	0	30	6	1	7	3	6	3	4	0	1	0
Vellore	0530	214	1004·9	981·0	..	27·1	23·4	21·5	25·6	72	..	5·1	..	4·0	0	0	21	0	1	2	3	3	3	9	0	10	0
	0830	,,	1006·1	982·4	—0.2	30·1	24·1	21·1	25·0	59	—4	4·5	—0·9	4·7	0	0	23	0	0	0	4	2	5	11	1	8	0
	1130	,,	1004·9	981·6	..	34·8	24·6	19·4	22·5	41	..	5.5	..	10·0	0	0	31	4	2	1	5	3	1	11	4	0	0
	1730	,,	1001·0	977·9	..	35·5	24·2	18·2	20·9	37	..	5·5	..	7·8	0	0	27	0	2	1	10	3	3	6	2	4	0
	2330	,,	1005·7	982.0	..	29·6	24·4	21·8	26·1	64	..	4·2	..	8·4	0	0	27	1	1	1	11	1	5	7	0	4	0
Tambaram (Aerodrome)	0830	29	1005·7	1002·5	..	31·5	25·8	23·2	28·4	62	.	4·7	..	16·2	0	6	25	1	0	1	1	9	6	9	4	0	0
	1730	,,	1002.2	999·1	..	33.4	26.5	23.4	28.8	87	..	4.8	..	23.7	0	20	11	1	1	3	15	6	3	1	1	0	0
Madras	0230	16	1004·0	1002·3	..	28·9	25.1	23·4	28·8	73	..	3·1	..	9·2	0	0	28	0	0	0	1	15	7	4	1	3	0
	0530	,,	1004·5	1002·7	..	28·3	24·6	22·8	27·7	74	..	4·0	..	8·5	0	0	28	2	0	0	0	10	7	7	2	3	0
	0830	,,	1006.1	1004·4	—0.5	31·3	25·2	22·4	27·1	60	0	4·6	+1·2	16·7	0	9	22	1	0	1	1	10	5	11	2	0	0
	1130	,,	1005·3	1003·6	..	35·2	25·6	21·0	24·9	45	..	5·4	..	18·9	0	12	18	2	1	1	6	6	4	8	2	1	0
	1 30	,,	1002·5	1000.8	..	32.7	26·2	23.3	28.6	59	..	5·6	..	19.0	0	11	20	0	0	11	11	7	1	1	0	0	

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity miles per hour	Wind speed (km. p.h.): 61 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*contd.*																											
Madras	2330	16	1005·4	1003·7	..	29·6	26·0	24·3	30·4	74	..	3·5	..	13·0	0	6	25	0	0	0	8	15	5	3	0	0	0
Madras (Nungambakkam)	0830	6	1006·2	1005·5	..	31·0	25·6	23·2	28·4	64	..	4·4	..	10·6	0	2	28	1	0	0	0	3	17	8	1	1	0
Coastal Mysore																											
Karwar	0830	4	1007·4	1006·7	−1·9	28·1	25·8	24·9	31·5	83	..	6·4	..	5·0	0	0	25	0	5	5	4	4	4	1	2	6	0
	1730	,,	1004·9	1004·4	..	29·9	26·9	25·7	33·0	78	..	5·7	..	14·1	0	5	25	0	1	0	2	4	5	8	10	1	0
Hanavar	0830	26	1007.5	1004.6	−1·4	27·3	25·2	24·2	30·2	84	+7	7·3	+1.9	3·1	0	0	25	0	2	18	1	0	2	1	1	6	0
	1730	,,	1004·8	1001.9	..	30·3	26·5	25·0	31·7	74	..	6·4	..	13·1	0	2	29	0	1	3	1	9	5	9	3	0	0
Mangalore	0830	22	1007·7	1005·2	−1·8	27·6	25·4	24·4	30·5	83	+9	6·3	+1·4	8·7	0	1	30	4	3	13	9	0	0	1	1	0	0
	1730	,,	1005·0	1002·5	..	29·9	26·5	25·0	31.7	76	..	6·7	..	8·2	0	0	31	2	0	0	2	3	9	7	8	0	0
Mangalore (Bajpe Aerodrome)	0230	102	1006·1	994·7	..	25·1	24·1	23·7	29·3	92	..	6.3	..	5·2	0	1	22	3	2	7	6	0	2	1	2	8	0
	0530	,,	1006·1	994·6	..	24·8	24·1	23·7	29·3	93	..	6·9	..	5·2	0	0	26	3	1	10	9	1	0	1	1	5	0
	0830	,,	1007·6	996·2	..	26·8	25·0	24·2	30·2	86	..	6·0	..	5.7	0	0	30	1	4	11	11	0	0	1	2	1	0
	1130	,,	1007·5	996·2	..	29·6	25·6	23·9	29·7	72	..	6·3	..	8.1	0	0	30	3	1	3	5	1	6	6	5	1	0
	1730	,,	1004·9	993·6	..	28·7	25·5	24·1	30·0	77	..	6·9	..	11·5	0	3	27	1	0	1	1	3	5	9	10	1	0
	2330	,,	1007·7	996·2	..	25·8	24·6	24·0	29·8	90	..	6·7	..	5.7	0	1	23	0	4	6	4	4	1	2	3	7	0
Interior Mysore (North)																											
Bidar	0830	664	1004·8	932·9	..	27·8	21·2	17·6	20·1	56	+9	4·6	+2·2	15·0	0	6	25	1	2	1	0	1	13	4	9	0	0
	1730	,,	998·3	928·9	..	34·6	21·7	14·7	16·7	32	..	5·3	..	12·9	0	6	25	3	6	2	3	2	6	3	6	0	0
Gulbarga	0830	458	1005·6	955·6	−0 8	29·8	22·3	18·3	21·0	53	+2	4·5	+2·4	13·5	0	4	27	1	5	0	3	4	7	5	6	0	0
	1730	,,	999·4	950·7	..	35·9	22·3	14·5	16·5	32	..	6·4	..	24·9	0	18	13	2	4	8	1	2	5	4	5	0	0
Bijapur	0830	594	1006·1	941·3	−1.2	27·2	22·0	19·4	22·5	65	+6	5·9	+3·5	6·5	0	0	31	5	0	0	1	1	5	11	8	0	0
	1730	,,	999·3	936.5	..	35·7	23·5	17·1	19·5	36	..	5·9	..	6·1	0	0	31	3	3	2	2	2	5	10	4	0	0
Belgaum	0830	753	1006·7	924·9	−1.6	24·9	21·8	20·2	23·7	76	0	4·9	+1·7	4·0	0	0	24	1	1	1	1	2	4	10	4	7	0
	1730	,,	1002·4	921·8	..	28·4	22·9	20·2	23·7	64	..	6·1	..	11·7	0	0	31	1	1	1	0	1	5	18	4	0	0
Belgaum (Sambre Aerodrome)	0530	747	1006·3	924·3	..	22·1	20·7	20·0	23·4	88	..	5·5	..	8·2	0	2	22	0	0	0	1	2	8	11	2	7	0
	0830	,,	1007·0	925·6	..	24·6	21·5	19·9	23·2	76	..	5·7	..	11·8	0	8	18	0	1	1	0	1	8	14	1	5	0
	1130	,,	1005·4	925·4	..	29·6	21·9	17·6	20·1	51	..	4·3	..	13·5	0	10	15	1	2	1	0	2	7	11	1	6	0
	1730	,,	1002·4	922·6	..	29·2	22·2	18·4	20·6	57	..	5·2	..	20·9	0	20	10	0	1	3	1	0	9	16	0	1	0
Gadag	0530	650	1005·8	934·3	..	23·2	21·9	21·3	25·3	90	..	5·2	..	9·4	0	1	27	0	1	0	0	0	10	16	1	3	0
	0830	,,	1006·9	935·8	−1.0	25·7	22·9	21·6	25·8	79	+5	5·1	+2·1	7·5	0	0	26	0	1	0	0	0	11	13	1	5	0
	1130	,,	1005·1	935·5	..	31·3	23·6	19·9	23·2	53	..	4·9	..	10·1	0	0	31	2	2	3	1	1	4	11	7	0	0
	1730	,,	1001·5	932·1	..	31·5	23·1	18·7	21·6	52	..	5·7	..	10·1	0	0	29	0	7	0	1	0	9	8	4	2	0
	2330	,,	1006·6	935·5	..	25·2	22·3	21·0	24·9	80	..	5·1	..	15·9	0	3	28	0	0	0	2	2	11	14	2	0	0
Raichur	0830	400	1005·8	962·4	−0·6	29·6	23·7	20·4	24·0	60	+4	2·8	+0.5	12·1	0	4	24	0	8	0	7	0	6	0	7	3	0
	1730	,,	1000·4	957.5	..	37·0	24·8	18·1	20·8	35	..	3.5	..	8·8	0	2	26	0	8	0	8	0	4	0	8	3	0
Interior Mysore (South)																											
Bellary	0830	449	1005.9	956·8	−1·2	28·8	24.9	23·2	28·4	73	+18	4·0	+0·6	5·3	0	0	31	1	1	7	2	0	2	5	13	0	0
	1730	,,	999·8	951·9	..	35·6	25·6	20·6	24·3	44	..	5·0	..	6·0	0	0	30	0	1	7	5	0	6	3	8	1	0
Chitaldrug	0830	733	1006·6	926 8	−1·4	25·1	22·0	20·4	24·0	76	+5	6·1	+1·9	7.1	0	0	30	0	0	1	1	1	12	15	0	1	0
	1730	,,	1001·2	923·3	..	31·2	21·9	16·6	18·9	47	..	5·6	..	6·1	0	1	26	1	0	8	0	0	6	12	0	4	0
Shimoga	0830	571	1006·9	944·2	..	25·5	22·3	21·0	24·9	76	..	4·3	..	4·1	0	0	25	0	0	0	0	5	8	10	2	6	0
	1730	,,	1002·5	940·9	..	29·5	22·7	19·1	22·1	58	..	5·3	..	6·9	0	0	31	0	0	3	1	3	12	11	1	0	0
Balehonnur	0830	..	..	..	..	21·6	20·7	20·3	23·8	92	+6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1489·6	903.7	..	22·4	20.7	19·9	23·2	86	+11	6·1	+2.3	8·2	0	0	26	1	0	0	3	1	8	12	1	5	0
	1730	,,	1469·9	900·9	..	26·1	21·3	18·6	21·4	68	..	6·7	..	12·1	0	2	26	0	0	3	2	0	8	15	0	3	0
Mysore	0830	767	1007·7	924·2	−0·9	23·7	21·4	20·3	23·8	82	+7	5·2	+0·6	5·5	0	0	21	0	0	3	1	2	5	9	1	10	0
	1730	,,	1003·4	921·1	..	28·1	21·6	18·1	20·8	58	..	5·6	..	7·9	0	1	27	0	2	2	1	5	10	8	0	3	0
Bangalore (Central Observatory)	0230	921	1470·5	905·9	..	22·1	19·9	18·8	21·7	82	..	3 8 (a)	..	11·3	0	3	27	0	0	3	4	0	8	14	1	1	0
	0830	,,	1489·9	907·6	−1·0	23·9	20·7	19·1	22·1	75	+2	6·1	+2·2	10·9	0	1	29	0	0	1	3	1	7	12	6	1	0
	1130	,,	1494·0	907·1	..	28·6	21·3	17·3	19·7	51	..	5·4	..	15·5	0	9	22	2	2	2	5	0	4	10	6	0	0
	1730	,,	1468·3	904·2	..	29·5	20·7	15·5	17·6	47	..	6·1	..	14·7	0	5	26	0	2	5	5	1	4	8	3	0	0
Bangalore (Aerodrome)	0530	897	1469·6	908·4	..	21·7	20·3	19·6	22·8	88	..	4·1	..	13·2	0	13	13	0	0	3	1	0	9	13	0	5	0
	0830	,,	1489·6	901·0	..	24·2	21·1	19.6	22·8	76	..	5·5	..	17·7	0	11	20	1	0	1	4	1	8	13	3	0	0
	1130	,,	1494·5	909.5	.	29·1	22·1	18·5	21·3	54	..	5·2	..	18·4	0	13	17	1	1	2	3	2	4	12	5	1	0
	1730	,,	1468·2	906·5	..	30·3	21·9	17·3	19·7	49	..	5·7	..	18·8	0	13	17	1	1	10	2	0	5	11	0	1	0
	2330	,,	1484·9	909·6	..	23·8	20.9	19·4	22·5	77	..	3·5	..	16·3	0	14	14	0	0	3	5	0	11	9	0	3	0
Kerala																											
Kozhikode	0530	5	1006·8	1006·2	..	25·2	24·3	23·9	29·7	92	..	6·4	..	7·0	0	1	30	1	11	16	1	1	1	0	0	0	0
	0830	,,	1008·4	1007·8	−0·9	27·1	25·1	24·2	30·2	85	+5	6·1	+1·1	4·7	0	1	29	3	3	16	1	2	2	1	2	1	0
	1130	,,	1008·4	1007·8	..	29·4	26·1	24·7	31·1	77	..	6·3	..	7·8	0	0	29	1	0	0	2	4	9	8	5	2	0

(a) Mean of 30 days

Division and station.	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity miles, per hours	Wind speed (km. p.h.): 61 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*contd.*																											
Kozhikode—*contd*	1730	5	1006·0	1005·4	..	28·6	26·0	24·8	31·3	80	..	7·0	..	12.3	0	2	29	1	1	3	0	4	4	9	9	0	0
	2330	,,	1008·5	1001·9	..	26·0	24.8	24·2	30·2	90	..	6·4	..	9.6	0	3	26	5	7	9	1	0	2	3	2	2	0
Palghat	0830	97	1008·2	997·2	..	26·8	24·6	23·6	29.1	83	..	6·7	..	7.9	0	0	29	0	0	2	1	0	4	19	3	2	0
	1730	,,	1005·5	994.6	..	27·5	24.9	23.8	29·5	81	..	7.2	..	7.5	0	1	30	0	0	0	0	0	7	21	3	0	0
Fort Cochin	0830	3	1008·6	1008·3	−0·1	27·0	25·3	24·5	30·7	86	+6	7·5	+2·5	6·3	0	1	27	2	5	8	6	4	1	1	1	3	0
	1730	,,	1006·2	1005·9	..	27·9	25·6	24·6	30·9	83	..	7·7	..	7·4	0	0	30	2	2	1	2	1	6	11	5	1	0
Cochin (Naval Air Station)	0230	3	1007·3	1007·0	..	25·4	24·5	24·2	30·2	93	..	7·0	..	5·9	0	0	30	2	4	17	1	3	1	1	1	1	0
	0530	,,	1007·0	1006·7	..	25·2	24·4	24·0	29·8	93	..	6·6	..	5·1	0	0	28	0	2	12	5	6	2	1	0	3	0
	0830	,,	1008·7	1008·4	..	26·9	25·0	24·2	30·2	86	..	6·9	..	4·9	0	0	22	0	1	4	10	4	0	1	2	9	0
	1130	,,	1008·7	1008·4	..	28·9	25·7	24·4	30·5	78	..	7·0	..	9·7	0	3	25	2	0	1	1	7	7	5	5	3	0
	1730	,,	1006·5	1006·2	..	28·1	25·4	24·3	30·4	80	..	7.3	..	15·8	0	0	29	2	0	0	1	4	7	8	7	2	0
	2330	,,	1008·8	1008·4	..	25·8	24·7	24.3	30·4	91	..	6·9	..	5·7	0	0	27	1	2	8	8	3	1	2	2	4	0
Alleppey	0830	4	1018·2	1007·8	..	26·9	25·4	24·8	31·3	89	..	7·1	..	8·3	0	3	27	1	3	8	8	0	3	2	5	1	0
	1730	,,	1006·0	1005·6	..	28·0	26·0	25·2	32·1	85	..	7·1	..	17·6	0	17	14	3	1	0	1	1	3	8	14	0	0
Punalur	0830	34	1008·4	1004·6	..	25·3	24·4	23·9	29·7	92	..	6·5	..	0·5	0	0	3	0	0	1	0	0	1	0	1	28	0
	1730	,,	1006·0	1002·3	..	28·0	25·1	23·9	29·7	80	..	6·6	..	4·5	0	0	23	0	0	0	1	2	10	1	9	8	0
Trivandrum	0230	64	1007·1	999·7	..	24·5	23 9	23·5	28 9	94	..	5·7	..	6·5	0	2	24	9	1	5	1	0	0	0	10	5	0
	0530	,,	1007·1	999·8	..	24·3	23·8	23·5	28·9	95	..	6·6	..	5·3	0	0	26	9	3	2	3	1	0	1	7	5	0
	0830	,,	1008·9	1001·5	−0·6	25·6	24·5	24·0	29.8	91	+10	6·6	+1·2	5 0	0	0	26	7	0	2	5	0	0	0	12	5	0
	1130	,,	1008·6	1001·3	..	27·8	25·3	24·2	30·2	82	..	7·0	..	9·3	0	2	26	1	1	1	1	3	2	4	15	3	0
	1730	,,	1006·1	999·2	..	26·5	24.8	23·9	29·7	85	..	7·2	..	8·0	0	0	31	1	0	1	2	4	0	4	19	0	0
Trivandrum (Aerodrome)	2330	,,	1008·7	1001·4	..	25·0	24·2	23·8	29·5	93	..	6·3	..	7·2	0	0	27	12	3	2	1	0	0	1	8	4	0
	0830	8	1008·7	1007·8	..	26·7	25·0	24·2	30·2	87	..	6·7	..	7·5	0	0	30	10	2	1	4	1	1	3	8	1	0
Arabian Sea Islands																											
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Amini Divi*	0830	4																									
Hill Stations excluding Kashmir																											
Walong (R)	0830																										
(R)	1730																										
Kohima	0830	1406	1542·8	863·7	..	22·2	20·1	19·8	22·2	89	..	5·0	..	..	0	0	29	3	2	4	1	1	2	2	14	2	0
	1730	,,	1541·5	863·1	..	22·4	19·3	17·4	20·1	76	..	4·0	..	..	0	0	31	3	0	1	0	1	5	13	8	0	0
Aizal	0830	..	..	..	..	22·5	19·9	16·8	21·6	79	..	4·5	..	4·5	0	0	31	0	1	8	0	5	5	12	0	0	0
	1730	..	..	..	..	25·4	20·4	16·5	20·4	64	..	4 5	..	5·3	0	0	31	3	0	2	0	6	2	18	0	0	0
Shillong	0830	1500	1474·5	847·6	−0·2	21·9	16·9	13·1	15·6	63	−5	4·7	−0·3	1·8	0	0	11	0	1	0	1	4	4	1	0	20	0
	1730		1442·0	844·6	..	22·1	17.6	14·3	16·9	65	..	5·7	..	1.1	0	0	8	0	0	0	0	2	5	1	0	23	0
Cherrapunji	0830	1313	1474·1	866·1	−0·7	20·0	18·4	17·4	19·9	84	+5	5·2	−0·6	3·8	0	0	29	1	7	1	3	3	11	2	1	2	0
	1730	,,	1442·1	863·0	..	22·0	19·5	18·2	20·9	80	..	3·6	..	4·0	0	0	31	0	5	2	3	2	13	6	0	0	0
Darjiling (Raj-Bhawan)	0830	2128	1492·2	790·3	+2·8	17·4	14·7	12·7	15·0	77	−3	6·4	+0·8	0.5	0	0	5	2	0	0	0	1	1	0	1	26	0
	1730	,,	1469·9	787·8	..	17·2	14·5	13·1	14·3	79	..	6 5	..	2·8	0	0	16	0	0	0	1	0	12	2	1	15	0
Kalimpong	0830	1209	1487·2	878·8	+1·4	21·5	19·9	19·4	21·6	86	+7	1·5	−2·7	3·0	0	0	31	0	0	0	0	0	0	0	31	0	0
	1730	,,	1475·0	877·3	..	20·9	19·5	19.0	21·1	85	..	1·7	..	3·0	0	0	31	0	0	0	30	0	0	0	1	0	0
Mukteswa (Kumaon)	0830	2311	3136·0	771·4	−0.4	18·6	10·6	2·5	7·5	38	..	0·9	−1·1	11·5	0	2	25	9	1	2	0	1	2	12	0	4	0
	1730	,,	3120·3	769·6	..	21·4	12·5	4·6	8·8	37	..	2·1	..	24·9	0	24	7	11	1	1	0	0	3	15	0	0	0
Nainital	0830	1953	1450.8	802·6	..	21·3	13·2	6·0	9·9	41	..	1 3	..	6·8	0	0	21	1	1	7	6	0	0	4	2	10	0
	1730	,,	1429·8	800·9	..	22·5	13·8	6·4	10·6	38	..	1·5	..	10·1	0	1	30	9	3	10	3	1	1	4	0	0	0
Joshimath	0830	..	..	..	..	20·6	11·4	2·3	7·6	33	..	1·3	..	6·0	0	0	31	0	10	16	2	0	1	1	0	0	1
	1730	..	..	..	..	24·2	12·8	1·9	7·4	24	..	4·3	.	4·3	0	0	31	4	4	[illegible]	3	3	1	1	4	0	4
Badrinath	0830	..	..	..	..	10.4	6.9	3.6	7.9	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpul	0830	..	..	..	..	−0·8	−3·4	−7·6	3.2	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooriee	0830	2042	1448.8	794·3	−2·5	21·0	12·3	3·6	8·8	34	−11	0·8	−1·4	1.5	0	0	15	2	0	0	3	5	3	0	2	16	0
	1730	,,	1432·7	793·0	..	21·9	12·2	3·9	7·9	33	..	2·0	..	4·5	0	1	29	4	1	0	4	11	7	0	3	1	0
Simla	0830	2202	1454·4	780·3	−0·2	20.5	10·8	1·2	6·7	30	−5	1.2	−0.9	3.1	0	0	31	3	2	1	9	6	7	1	2	0	0
	1730	,,	1439·5	779·3	..	21·7	11·5	1·7	7·0	27	..	1·7	..	3·2	0	0	31	2	3	1	3	6	11	1	4	0	0
Dalhousie (R)	0830	1959																									
(R)	1730	,,																									

*Data given as addenda in December, 1960 issue.

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (kms. p.h.): 62 or more	Wind speed (kms. p.h.): 20 to 61	Wind speed (kms. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir —(*contd.*)																											
Dharamshala	0830	..	..	..	..	27·3	15·6	5·4	9·0	26	..	1·5	..	2·5	0	0	24	0	16	4	1	1	1	1	0	7	0
	1730	..	..	..	..	30·6	16·8	5·1	8·9	21	..	2·4	..	3·8	0	0	31	1	3	0	1	3	22	1	0	0	0
Abu	0830	1195	1477·2	878·0	−1·2	24·8	16·0	8·7	11·2	39	+3	0·6	−0·2	2·1	0	0	14	0	0	0	0	1	7	6	0	17	0
	1730	,,	1467·1	876·5	..	30·7	18·3	7·9	10·6	28	..	0·9	..	2·2	0	0	18	0	0	0	0	5	9	3	1	13	0
Pachmarhi	0830	1075	1487·4	890·5	−1·0	29·3	17·8	9·2	11·9	29	−6	2·7	+0·7	4·3	0	0	28	0	3	2	0	2	0	13	8	3	0
	1730	,,	1456·8	886·6	..	34·7	19·4	7·1	11·4	19	..	3·6	..	3·6	0	0	26	1	6	0	0	0	0	5	14	5	0
Mahabaleshwar	0830	1382	1490·5	860·9	−1·0	21·6	17·8	15·0	17·0	73	+20	5·0	+2·1	9·2	0	0	29	2	10	2	0	2	5	2	6	2	0
	1730	,,	1470·5	859·0	..	22·9	20·0	18·4	21·1	78	..	5·6	..	7·7	0	0	31	1	3	1	0	0	6	2	18	0	0
Mercara	0830	1152	1490·0	884·2	−0·7	20·1	19·1	18·5	21·3	91	+7	4·1	−1·0	6·4	0	0	31	2	0	21	0	0	0	4	4	0	0
	1730	,,	1471·4	882·3	..	22·5	20·6	19·5	22·7	81	..	6·0	..	5·3	0	0	30	1	4	4	0	0	1	10	9	1	1
Kodaikanal	0830	2343	3140·1	770·0	−0·8	15·2	13·0	11·4	13·5	80	+17	5·4	..	13·5	0	8	23	2	3	3	2	2	0	4	15	0	0
	1130	,,	3148·7	770·2	..	17·5	15·0	13·5	15·5	78	..	6·1	..	13·0	0	6	24	5	2	2	5	2	1	2	11	1	0
	1730	,,	3124·0	765·9	..	15·3	14·0	13·5	15·5	88	..	6·5	..	11·3	0	4	25	5	2	1	4	3	0	2	12	2	0
Ootacamund	0830	2249	1486·6	778·2	−1·1	15·5	13·1	11·6	13·7	77	+13	4·6	+0·7	4·9	0	1	17	0	3	4	2	0	3	6	0	13	0
	1730	,,	1469·9	776·9	..	16·5	14·1	12·5	14·5	79	..	6·9	..	2·9	0	0	12	0	0	3	0	0	5	4	0	19	0
Coonoor	0830	1747	1492·8	825·8	..	20·3	16·6	14·3	16·3	69	+12	5·2	+1·0	9·0	0	2	29	3	0	2	11	7	3	0	5	0	0
Nepal																											
Katmandu	0830	1324	1468·7	864·2	..	21·3	16·3	12·5	14·9	60	..	2·9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1459·3	863·2	..	28·0	18·0	9·8	13·4	39	..	2·7	..	0·8	0	0	4	0	0	0	0	0	1	0	3	27	0
	1730	,,	1435·4	861·0	..	25·8	18·0	11·7	15·0	48	..	3·3	..	2·4	0	0	13	4	0	0	0	1	1	3	4	18	0
Sikkim																											
Lachen	0830	..	..	..	..	13·7	11·6	10·0	11·9	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet																											
Yatung (Chumbi)*																											
Ceylon																											
Colombo	0830	7	1009·3	1008·5	−0·5	27·3	24·8	23·5	28·9	80	−5	7·0	+1·1	11·0	0	1	28	0	0	1	6	1	10	10	1	2	0
	1730	,,	1007·4	1006·6	..	28·3	24·8	23·0	28·1	74	..	6·9	..	10·8	0	0	30	0	0	0	0	3	16	9	2	1	0
Trincomalee	0830	3	1007·2	1006.9	−0·2	28·5	24·8	23·2	28·4	73	−6	(a) 6·0	+2.6	(a) 16·6	0	6	22	0	0	0	0	4	21	3	0	2	0
	1730	,,	1004·8	1004.4	..	30·1	25·0	22·8	27.7	69	..	6·2	..	16·9	0	10	19	0	0	2	2	2	19	4	0	2	0
Batticoloa	0830	3	1007·7	1007·4	..	28·8	25·4	23·8	29·5	75	..	5·3	..	16·7	0	0	22	2	2	0	3	6	4	2	3	9	0
	1730	,,	1005·2	1004.9	..	30·2	26·0	24·1	30·0	71	..	6·6	..	13·5	0	4	23	0	5	4	5	3	3	6	1	4	0
Hambantota	0830	15	1008·4	1006.8	−0.1	27·8	25·0	23·8	29.4	79	−7	5·7	+1.8	20·7	0	16	15	0	0	0	0	0	13	17	1	0	0
	1730	,,	1006.2	1004.4	..	28·6	24·8	23·2	28·4	73	..	6·7	..	23.0	0	22	9	1	0	0	0	0	11	17	2	0	0
Mannar	0830	4	1007.7	1007·3	..	28·6	26·0	25·0	31·7	81	..	6·0	..	12·6	0	1	30	0	1	0	8	5	17	0	0	0	0
	1730	,,	1005.2	1004.8	..	29·2	26·4	25·3	32·2	79	..	6·7	..	14·2	0	1	30	0	0	0	3	8	20	0	0	0	0
Hydrometeorological Observatories																											
Damodar Catchment																											
Bokaro	0830	242	1002.5	976.0	..	32·6	24·7	20·7	24·8	52	..	..	..	3·0	0	0	30	0	1	5	5	0	7	6	6	1	0
	1730	,,	997.5	971.6	..	37·4	26·2	20·6	25·3	40	..	..	..	6·1	0	0	30	1	2	5	4	0	0	5	13	1	0
Hazaribagh	0830	615	1001.3	935.5	..	31·6	19·7	12·8	14·1	31	..	2·6	..	6·3	0	0	28	2	0	8	0	3	4	6	5	3	0
	1730	,,	997·0	932·2	..	34·8	20·1	10·4	11·4	26	..	3·5	..	8·8	0	0	30	6	0	5	0	0	0	10	9	1	0
Tilaiya	0830	..	..	..	..	32·5	20·8	13·0	15·1	35	..	8·0	..	10·6	0	0	31	1	2	4	6	0	4	11	3	0	0
	1730	..	..	..	..	36·6	20·7	8·4	11·7	19	..	8·0	..	12·6	0	1	30	0	2	4	3	0	0	7	15	0	0
Ramgarh	0830	..	..	..	..	32·6	24·5	20·0	24·1	49	..	2·2	..	3·0	0	0	26	2	3	5	1	1	8	2	4	5	0
	1730	..	..	..	..	38·4	26·0	19·5	23·0	35	..	3.1	..	2·6	0	0	26	7	5	1	0	0	2	7	4	5	0
Panchet Hills	0830	..	..	..	..	32·8	24·1	18·5	23·8	47	..	5·0	..	10.5	0	0	29	2	3	8	1	1	12	1	1	2	0
	1730	..	..	..	..	36·2	23·6	15·5	18·9	36	..	6.5	..	9·0	0	0	27	2	1	11	2	1	2	2	6	4	0
Durgapur	0830	..	..	..	..	31·6	26·3	23·9	30·1	66	..	..	..	13.7	0	4	27	0	1	4	5	13	3	3	2	0	0
	1730	..	..	..	..	35·6	26.4	22·1	26·9	50	..	..	..	(a) 14.4	0	8	21	1	1	4	3	10	0	2	8	1	0
Maithon *	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Konar*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mahanadi Catchment																											
Hirakud	0830	159	1002·5	985.2	..	34·1	24·7	19·8	23·4	44	..	2·3	..	6·7	0	0	27	0	1	1	3	7	11	2	2	4	0
	1730	,,	997.2	980.3	..	39·6	23·7	14.7	16·3	25	..	3·2	..	5·8	0	1	23	2	1	3	2	4	2	1	9	7	0
Khijrawan	0830	..	..	..	..	32·9	23·4	17·9	21·2	43	..	2·1	..	6·6	0	0	28	1	1	1	0	3	11	9	1	3	1
	1730	..	..	..	..	39·1	22·7	11·5	14·2	21	..	(a) 3·5	..	(a) 5·9	0	0	29	3	0	0	5	2	4	10	3	1	2
Sonepur	0830	..	..	..	..	35·3	25·2	20·1	23·7	42	..	..	..	10·5	0	1	29	1	2	6	1	3	3	12	2	1	0
Ginabahar	0830	..	..	..	..	32·3	21·0	12·1	15·7	32	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhimkund	0830	..	..	..	..	29·8	24·6	22·1	26·6	65	..	4·1	..	1·2	0	0	11	0	1	0	4	2	2	0	2	20	0
	1730	..	..	..	..	34·5	24·4	18·9	22·4	44	..	5·4	..	2·7	0	0	19	2	1	1	6	1	6	0	2	12	0

*Data not available.

(a)—Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in kms. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Narbada Catchment																											
Punasa	0830	..	..	..	..	32·0	27·9	26·3	34·3	73	..	..	..	9·6	0	2	28	5	5	0	0	0	10	6	4	1	0
	1730	..	..	..	..	40·1	33·8	31·7	47·3	62	..	..	..	10·6	0	2	29	2	4	0	0	0	7	11	7	0	0
Bagra Tawa	0830	..	..	..	..	33·3	20·0	8·1	12·5	24	..	1·6	..	9·4	0	0	27	0	3	0	0	1	13	10	0	4	0
	1730	..	..	..	..	40·5	21·4	5·9	9·9	13	..	2·4	..	7·0	0	0	25	0	2	0	1	0	8	12	2	6	0
Thikri	0830	..	..	..	..	30·8	22·7	17·6	21·0	49	..	3·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Jhadol	0830	..	..	..	..	27·2	25·7	24.9	31·5	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharoi	0830	..	..	..	..	29·3	23·6	20·5	24·1	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	39·4	25·5	19·9	19·3	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	..	..	..	21·1	12·1	4·6	8·3	33	..	0·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·9	12·4	3·1	7·7	27	..	2·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	24 9	16·2	9·2	12·1	39	..	0·5	..	0·8	0	0	6	4	1	1	0	0	0	0	0	25	0
	1130	..	..	..	..	33·7	18·5	6·4	10·2	20	..	0·9	..	2·7	0	0	19	3	6	3	4	1	1	0	1	12	0
	1730	..	..	..	..	34·5	18·5	4·8	9·6	19	..	2·5	..	6·6	0	0	29	3	8	3	2	3	2	5	3	2	0
Gandak Catchment																											
Gorkha	0830	..	..	..	..	24·7	19·6	16·7	19·1	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·9	20·3	17·6	19·8	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	25·7	19·1	14·6	16·6	55	..	2·6	..	2.1	0	0	16	0	2	1	5	2	4	0	2	15	0
	1130	..	..	..	..	29·8	19·9	13·1	15·1	42	..	2·5	..	5·3	0	0	30	1	0	4	18	5	2	0	0	1	0
Nawakot	1730	..	..	..	..	28·4	19·9	13·9	15·9	50	..	4·2	..	4·2	0	0	25	5	0	2	12	4	0	0	2	6	0
	0830	..	..	..	..	25·4	18·7	14·8	16·8	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom	1730	..	..	..	..	28·5	18.9	12.8	14.9	38	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	..	..	..	..	16·7	12·2	9·4	11·7	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	1730	..	..	..	..	17·0	13·0	10·7	12.8	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	..	..	..	..	25·3	19·1	16·2	17·6	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	28·7	19·5	15·1	16·0	44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	20·8	14·1	9·3	11·8	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·4	15·1	9·6	11·8	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region).																											
Dailekh*	0830																										
	1730																										
Gogra Catchment																											
Dandeldhura	0830	..	..	..	..	21·6	13·8	7·5	10·4	43	..	1·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·3	14·3	6·9	9·9	38	..	2·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Munsuari	0830	..	..	..	..	19·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	...	..	..	..	20·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	‡0830	..	..	..	..	32·1	22·5	17·1	19·4	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	35·3	23·5	17·0	19·3	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu†	0830	1324																									
	1130	"																									
	1730	"																									
Kosi Catchment																											
Chautara	0830	..	..	..	..	20·9	16·3	13·6	15·6	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·9	17·3	13·1	14·8	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	19·0	14·8	12·9	14·5	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·5	14·6	12·8	14·0	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga*	0830	..	..	..	..	20·6	15·6	12·0	13·2	63	..	4·1	..	1·6	0	0	9	2	0	0	0	0	2	3	2	22	0
	1130	..	..	..	..	23·7	16·3	11·1	13·2	51	..	4·3	..	4·6	0	0	24	1	0	1	0	4	6	9	3	7	0
	1730	..	..	..	..	20·8	15·6	11·7	13·7	62	..	5·5	..	6·9	0	0	26	2	2	0	1	2	3	11	5	5	0
Barahkshetra	0830	146	1003·6	987·4	..	29·0	22·3	17·9	21·6	57	..	3·3	..	7·4	0	0	30	0	2	1	0	1	15	8	3	1	0
	1130	"	1002·8	986.9	..	32·7	24·2	19·4	23·3	50	..	3·4	..	11·9	0	1	29	0	0	1	2	0	13	13	1	1	0
	1730	"	998·7	982·6	..	33·3	23·7	17·6	21·5	46	..	4·0	..	6·4	0	0	29	0	3	1	1	0	12	9	3	2	0
Angbung	0830	..	..	..	..	21·5	18·5 (a)	16·8 (a)	19·1 (a)	75 (a)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·5	19·3	15·7	17·8	55	..	(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	20·7	16·5	13·8	15·8	67	..	5·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	22·8	17·0	12·9	14·9	58	..	4·9 (d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·3	16·4	13·4	15·4	63	..	6·4 (c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	20·6	16·5	13·8	15·8	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·1	17·7	13·6	15·6	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(a) Mean of 30 days (c) Mean of 28 days *Data not available †Data included under 'Nepal' ‡Observations for30 days (d) Mean of 27 days

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1960 (VAISAKHA 11—JYAISTHA 10, 1882 SAKA)

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*concld.*																											
Kosi Catchment—*contd.*																											
Wallungchung Gola	0830	..	..	..	..	12·0	8·6	5·8	9·3	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·8	8·6	6·9	9·9	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur*	0830	..	..	..	..	19·3	17.6	16·9	19.1	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·3	18·3	17·5	19·9	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	23·3	18·2	15·3	17·2	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·1	18·6	15·2	17·3	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment																											
Gangtok	0830	1812	1466·8	816·8	..	17·7	15·6	14.1	16·3	81	..	4·4	..	0·9	0	0	5	2	1	1	0	1	0	0	0	26	0
	1130	,,	1458·3	816·3	..	20·7	17·3	15·2	17·6	74	..	5·3	..	2·1	0	0	16	0	0	0	3	5	8	0	0	15	0
	1730	,,	1438·6	814·1	..	18·2	16·1	14·8	17·0	82	..	6·7	..	1·8	0	0	12	1	1	1	1	6	1	0	1	19	0
Geyzing	0830	..	..	..	..	20·3	17·7	16·2	18·6	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·7	18·0	16·4	18·9	7 1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Observations for 16 days.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 13 stations some observations were made by means of pilot balloons and the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9·0 km. a.m.s.l. are given under Table IV and data above 9·0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second* irrespective of direction;

v—represents the resultant mean velocity in metres per second*;

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0·15 km. a.g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a.m.s.l. Of these, the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1 and 16·2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

*Values obtained by converting the original data in knots.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flights (I S.T)			
1	Agartala	23° 53′	91° 15′	17	28th November 1951	0530	1130	1730	2330
2	Ahmedabad	23° 04′	72° 38′	61	19th May 1928	0530	1730	2330	
3	Amausi	26° 45′	80° 53′	133	20th November 1950	0530	1730	2330	
4	Ambala	30° 23′	76° 46′	279	1st April 1941	0530	1730	2330	
5	Anantapur	14° 41′	77° 37′	365	12th February 1946	0530	1730	2330	
6	Asansol	23° 41′	86° 59′	135	29th May 1942	0530	1130	1730	2330
7	Baghdogra	26° 38′	88° 19′	140	7th June 1953	0530	1130	1730	2330
8	Bairagarh	23° 17′	77° 21′	532	26th February 1943	0530	1730	2330	
9	Bajpe	12° 55′	74° 53′	104	25th May 1959	0530	1730	2330	
10	Bamrauli	25° 27′	81° 44′	103	28th February 1930	0530*	1130	1730*	2330
11	Bangalore	12° 58′	77° 35′	936	19th May 1915	0530	1730	2330	
12	Bareilly	28° 22′	79° 24′	181	12th January 1943	0530	1730		
13	Begumpet	17° 27′	78° 28′	543	1st September 1929	0530	1730	2330	
14	Bhagalpur	25° 14′	86° 57′	61	19th May 1950	0530	1130	1730	
15	Bhubaneshwar	20° 15′	85° 50′	54	5th December 1942	0530	1130	1730	2330
16	Bhuj	23° 15′	69° 48′	90	14th September 1937	0530	1730	2330	
17	Bikaner	28° 00′	73° 18′	229	18th October 1946	0530	1730	2330	
18	Chikalthana	19° 51′	75° 24′	583	7th October 1951	0530	1730	2330	
19	Cochin†	09° 56′	76° 14′	13	16th March 1942	0530	1730	2330	
20	Darjeeling	27° 03′	88° 16′	2115	21st May 1956	0530	1730		
21	Dehra Dun	30° 19′	78° 03′	692	1st October 1958	0530	1730		
22	Dum Dum	22° 39′	88° 27′	13	14th May 1921	0530*	1130	1730*	2330
23	Gadag	15° 25	75° 38′	650	3rd May 1943	0530	1730	2330	
24	Gannavaram	16° 32′	80° 48′	32	8th April 1942	0530	1730	2330	
25	Gauhati	26° 05′	91° 43′	55	12th Mach 1955	0530*	1130	1730*	2330
26	Gaya	24° 45′	84° 57′	119	19th March 1937	0530	1130	1730	2330
27	Gopalpur	19° 16′	84° 53′	24	15th February 1946	0530	1730	2330	
28	Gorakhpur	26° 45′	83° 22′	83	5th January 1943	0530	1730		
29	Gwalior	26° 14′	78° 15′	208	7th May 1938	0530	1730	2330	
30	Imphal	24° 51′	93° 58′	805	8th March 1952	0530	1130	1730	2330
31	Jabalpur	23° 10′	79° 57′	402	30th July 1928	0530	1730	2330	
32	Jagdalpur	19° 05′	82° 02′	562	25th March 1948	0530	1730	2330	
33	Jaipur	26° 49′	75° 48′	403	6th June 1953	0530	1730	2330	
34	Jamshedpur	22° 49′	86° 11′	144	23rd July 1942	0530	1130	1730	
35	Jharsuguda	21° 55′	84° 05′	240	1st May 1944	0530	1730	2330	
36	Jodhpur	26° 18′	73° 01′	229	15th October 1934	0530*	1130	1730*	2330
37	Madras	13° 00′	80° 11′	29	8th April 1926	0530*	1130	1730*	2330
38	Minicoy	08° 18′	73° 00′	15	14th April 1941	0530	1730	2330	
39	Mohanbari	27° 29′	95° 01′	112	1st June 1948	0530	1130	1730	2330
40	Nagpur	21° 06′	79° 03′	316	23rd April 1943	0530*	1130	1730*	2330
41	Nanpara	27° 50	81° 30′	112	23rd April 1957	0530	1730		
42	New Delhi	28° 35′	77° 12′	227	20th October 1936	0530*	1130	1730*	2330
43	Poona	18° 32′	73° 51′	593	5th January 1925	0530	1730	2330	
44	Port Blair	11° 40′	92° 43′	93	29th October 1945	0530*	1130	1730*	2330
45	Raipur	21° 14′	81° 39′	308	15th July 1944	0530	1730	2330	
46	Raxaul	26° 59′	84° 51′	83	28th October 1957	0530	1130	1730	
47	Santa Cruz	19° 07′	72° 51′	27	14th May 1933	0530*	1130	1730*	2330
48	Tezpur	26° 37′	92° 47	79	12th August 1932	0530	1130	1730	2330
49	Tiruchirapalli	10° 46′	78° 43′	96	22nd June 1936	0530	1730	2330	
50	Trivandrum	08° 29′	76° 57′	73	8th December 1928	0530*	1130	1730*	2330
51	Udaipur	24° 35′	73° 42′	587	24th June 1947	0530	1730	2330	
52	Vengurla	15° 52′	73° 38′	8	22nd November 1941.	0530	1730	2330	
53	Veraval	20° 54′	70° 22′	17	13th October 1941	0530*	1130	1730*	2330
54	Visakhapatnam	17° 43′	83° 14′	10	24th September 1928	0530	1730	2330	

*Radiowind ascents.
†Naval Meteorological Office.

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Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	AGARTALA																AHMEDABAD							
Time in I.S.T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2.9	2.2	149	31	3.5	2.6	177	31	3.4	2.4	186	31	6.3	2.7	168	31	2.6	1.4	275	31	3.8	2.2	25
0.15 a.g. .	27	6.8	5.5	150	29	5.6	4.1	184	28	6.3	5.2	186	30	6.9	5.9	176	31	7.2	1.7	273	31	4.1	2.6	25
0.3 a. m. s. l. .	27	7.7	6.7	179	29	6.1	4.0	180	28	7.0	6.3	189	30	8.1	7.3	185	31	8.4	4.3	285	31	4.4	2.8	26
0.6 „ .	27	9.0	8.1	187	29	6.2	5.1	178	28	7.9	7.2	193	29	8.7	6.1	192	31	8.0	5.2	290	31	4.6	3·3	26
0.9 „ .	27	9.1	7.8	198	28	7.0	5.7	183	27	8.0	7.4	195	29	7.5	6.2	201	31	7.2	5.3	290	31	4.7	3.7	26
1.5 „ .	27	8.2	6.0	224	22	6.2	5.5	198	25	6.3	4.7	223	29	6.7	6.3	221	31	5.3	4.4	280	31	4.7	3.7	27
2.1 „ .	24	8.0	5.5	233	15	8.0	5.7	217	25	8.0	5.0	251	23	5.6	3.4	248	27	4.5	3.5	269	31	5.0	4.2	27
3.0 „ .	19	8.2	6.7	267	6	5.9	5.5	271	23	9.0	6.2	272	21	7.2	6.1	279	19	5.9	3.7	253	30	5.8	4.5	27
3.6 „ .	15	9.5	8.1	281					22	9.9	7.1	288	7	7.3	6.3	285	3	7.7	6.1	250	30	6.3	4.0	27
4.5 „ .	6	6.5	4.2	259					18	10.2	9·2	297	1	25.2	25.2	290	1	6.7	6.7	275	30	7.1	3.7	27
5.4 „	2	3.9	1.8	196					10	7·9	6.2	276	1	7.7	7.7	255	1	9.3	9.3	280	27	7.1	4.0	29
6.0 „ .	2	5.7	4.3	215					10	7·9	6·2	270	1	7.7	7.7	240					27	7.7	4.6	29
7.2 „ .	2	6.9	6.2	203					7	11.3	9.8	268									20	8.6	6.1	290
9.0 „ .									2	14.7	14.7	265									2	12.1	11.6	320

Station	AHMEDABAD				AMAUSI												AMBALA							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4.4	3.0	229	31	2.2	0.5	226	31	4.3	2.6	306	31	2.2	0.4	360	31	2.5	0.2	356	31	3.6	2.1	312
0.15 a.g. .	31	7.8	5.1	239	31	8.2	2.0	313	30	5.9	4.1	302	31	7.5	2.9	314	31	8.0	1.9	359	31	6.8	4.4	300
0.3 a. m. s. l .	31	8.4	5.7	243	31	8.5	2.1	310	30	5.9	4.1	299	31	7.6	2.9	313	31	4.0	1.1	343	31	4.7	2.8	303
0.6 „ .	31	8.6	6.8	258	31	8.0	2.9	305	30	6.1	3.9	294	31	8.1	3.7	313	31	8.5	2.6	329	31	7.4	4.9	303
0.9 „	31	7.4	6.1	093	31	7.4	4.1	300	30	6.3	5.5	292	31	7.5	4.7	312	31	8.7	3.6	327	31	7.7	5 6	302
1.5 „	31	5.1	3·7	277	31	7.8	6.9	305	30	6.9	6.1	300	30	7.7	6 6	300	31	7.5	4.3	317	31	6.4	5.2	292
2.1 „ .	30	3.8	2.8	292	31	9.0	8.4	301	26	8.1	7.5	293	25	8.9	7.7	299	31	6.6	4.8	310	28	7.3	6.2	302
3.0 „ .	29	5.0	1.9	288	25	9.0	8.7	302	26	10.3	9.5	298	12	6.5	6.3	300	31	6.8	5.8	306	27	8.2	6.5	299
3 6 „ .					16	8.7	7.6	289	23	10.5	9.9	297	5	6.3	5.7	306	26	7.5	6.3	298	22	7.5	6.1	305
4.5 „ .					13	7.9	7.6	287	22	12.5	11.5	298	2	4.6	4.6	305	19	8.0	6.9	298	15	8·3	7·3	286
5.4 „ .					7	7.7	7.4	266	20	13.0	12.5	297	1	5.7	5.7	315	14	10.4	8.7	297	13	10·4	9·6	284
6.0 „ .					3	8.1	7.9	268	18	12.6	11.7	293					11	10.5	8.9	284	9	9·2	8·4	283
7.2 „ .					2	9.3	8.6	259	15	13.1	9.2	284					7	16.5	15.7	265	1	5.1	5·1	245
9.0 „ .									7	17.7	16.7	268					5	26.1	25.4	266				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	AMBALA				ANANTAPUR												ASANSOL							
Time in I.S.T	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.5	1.4	330	31	3.0	2.4	251	31	4.7	1.4	260	31	5.7	2.3	243	31	0.9	0.3	099	31	1·6	0.1	102
0.15 a.g.	31	9.3	6.6	327	31	6.3	4.8	247	30	6.7	1.5	256	31	9.1	2.4	208	29	5.0	0.1	204	30	4.5	0.3	260
0.3 a.m.s.l.	31	4.2	2.7	323													29	5.2	0.2	231	30	4.7	0.5	256
0.6 ,,	31	9.8	7.3	325	31	6.6	4.9	252	30	6.9	1.6	259	31	9.5	3.0	204	28	6.3	2.9	278	30	4.3	0.5	263
0.9 ,,	31	9.9	7·1	322	31	7.8	5.1	262	30	6.3	1.1	280	31	9.7	3.1	226	27	6.8	4.3	298	30	4.3	0.3	255
1.5 ,,	31	8.9	7·5	315	31	7.1	2.2	283	30	6.3	1.2	057	31	5.7	1.2	191	26	6.5	4.9	298	27	5.6	2.3	276
2.1 ,,	28	8 2	6.8	307	31	5.8	2.9	075	30	6.2	2.0	069	31	4.6	1.9	082	25	8.2	6.8	290	25	6.4	4.8	281
3.0 ,,	23	7.2	5.3	285	31	6.7	5.0	074	29	5.9	3.7	070	29	5.9	4.0	080	19	10.6	9.1	286	13	9.2	8.8	284
3.6 ,,	7	7.2	5.8	307	30	7.4	6.0	076	25	7.8	6.7	078	21	7.2	5.7	08.	13	10.6	10.3	278				
4.5 ,,	2	7.5	6.3	291	26	7.2	6.3	079	19	9.0	8.4	080	11	6.3	3.4	077	6	10.9	10.4	278				
5.4 ,,	1	5.7	5.7	230	20	7.1	4.9	100	15	6.7	4.7	099	1	7.7	7.7	095	2	11.3	11.3	288				
6.0 ,,	1	7.2	7.2	245	18	6.9	4.7	113	10	6.1	3.0	118	1	5.7	5.7	080	1	16.0	16.0	275				
7.2 ,,					11	6.4	2.4	104	8	5.7	4.1	083												
9.0 ,,					1	3.1	3.1	060	1	3.1	3.1	240												

Station	ASANSOL								BAGHDOGRA															
Time in I.S.T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.4	0.2	076	31	2.6	1.7	139	31	2.8	2.4	079	31	3.5	2.9	093	31	3.2	1.7	076	31	2.2	1.9	058
0.15 a. g.	30	5.0	0.4	338	31	6.8	3.4	168	28	6.1	5.8	073	27	5.0	3·4	098	29	4.4	2.5	076	28	5.5	4.5	065
0.3 a.m.s.l.	30	5.1	0.4	326	31	7.1	3.5	168	28	6.1	5.8	077	27	5.1	4.3	096	29	4.4	2.2	086	28	5.5	4.7	074
0.6 ,,	30	6.1	0.5	295	31	7.2	2.7	168	28	7.4	6.8	083	27	4.9	4.0	097	29	4.0	2.0	099	28	5.7	4.9	086
0.9 ,,	30	5.8	1.4	283	29	6.8	1.6	254	24	6.8	5.6	079	26	4.9	4.1	096	29	4.1	1.6	108	27	5.1	4.2	095
1.5 ,,	30	6.1	3.6	291	29	6.5	3.7	304	21	6.0	3.4	085	17	4.9	2.9	095	24	4.6	2.3	233	26	5.4	1.3	186
2.1 ,,	29	7.6	6.3	290	28	6.9	5.3	297	14	5.5	2.0	268	9	5.4	0.9	245	21	7.4	5.0	258	23	7.3	4.5	260
3.0 ,,	24	8.3	7.5	293	21	8.3	6.6	285	12	8.2	5.9	281	5	5.2	1.7	198	17	9.6	7.2	273	16	6.8	5.3	267
3.6 ,,	23	9.8	8.9	293	15	7.5	5.8	291	11	10.6	8.2	281					10	10.4	8.9	280	6	10.7	3.3	226
4.5 ,,	12	12.5	11.2	302	6	7.2	5.0	286	5	6.9	6.3	274					4	13.0	12.9	284				
5.4 ,,	10	13.5	10.9	308	2	3.9	1.6	308	3	12.7	11.9	271					2	12.1	12·1	291				
6.0	6	13.4	11.4	305	2	3.1	1.6	281	1	4.6	4.6	195					1	12·4	12.4	290				
7.2	2	18.5	18.5	303					1	4.6	4.6	225												
9.0									1	14.9	14.9	225												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	BAIRAGARH												BAJPE											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3.5	2.1	290	31	3.2	2.4	294	31	3.3	2.2	286	31	1.9	1.0	105	31	4.2	2.9	276	31	1.9	0.6	100
0.15 a.g. . .	31	9.0	6.1	300	31	4.5	3.7	294	31	8.0	6.1	294	29	4.0	0.6	143	30	5.8	4.4	262	27	4.8	1.6	208
0.3 a. m. s. l. .													29	4.1	0.8	222	30	6.1	4.8	265	27	5.1	2.0	223
0.6 „ .	31	7.8	5.1	300	31	4.0	3.1	293	31	7.5	5.6	293	29	4.9	1.9	250	30	6.7	4.9	268	27	6.0	3.0	230
0.9 „ .	31	9.7	7.7	317	31	4.8	4.1	293	31	7.6	6.0	297	26	5.6	2.9	263	28	5.9	3.5	274	25	5.9	3.4	242
1.5 „ .	31	6.6	5.5	321	31	4.6	4.0	295	31	5.5	4.2	303	18	6.3	1.9	254	19	6.0	1.4	294	14	5.8	3.0	250
2.1 „ .	31	4.8	3.1	301	31	4.6	3.9	300	31	4.8	3.3	319	12	7.1	1.7	069	15	8.0	0.4	090	10	7.4	2.7	260
3.0 „ .	31	5.2	3.5	272	31	5.6	4.4	303	30	5.0	2.9	316	8	7.5	5.6	074	8	9.1	3.0	104	7	9.4	1.7	015
3.6 „ .	28	6.1	3.8	259	31	6.7	5.0	302	12	4.3	2.0	274	3	6.2	2.1	050	7	11.7	6.6	096	3	5.3	2.0	073
4.5 „ .	21	5.2	3.2	264	26	7.7	5.8	283	1	4.6	4.6	275					2	6.9	6.1	067	2	3.9	2.8	100
5.4 „ .	19	6.6	3.9	281	20	7.8	6.3	287													1	3.6	3.6	115
6.0 „ .	11	7.5	6.5	280	20	8.0	6.2	293																
7.2 „ .	3	9.4	8.8	325	15	9.4	8.1	276																
9.0 „ .	2	9.3	9.0	255	10	11.2	9·6	274																

Station	BAMRAULI																BANGALORE							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.0	0.1	040	31	2.5	1.3	300	29	3.5	2.2	310	31	1.0	0.5	063	31	3.9	2.8	252	31	4.1	1.1	219
0.15 a.g. . .	30	6.1	1.6	317	29	4.7	2.6	305	28	6.5	4.2	316	31	7.1	3.0	345	28	7.4	5.3	247	31	6.5	1.2	219
0.3 a. m. s.l. .	30	6.1	1.7	320	29	4·9	2·7	305	28	6.5	4·2	316	31	7.6	3·2	343								
0.6 „ .	30	6.5	2.7	298	29	5.5	3.7	299	28	7.2	4·5	310	31	7.9	4.5	315								
0.9 „ .	30	6.8	3.8	306	30	5·8	4·1	304	28	6·1	4.5	311	31	7.2	4.2	315								
1.5 „ .	30	7.3	6.0	309	29	6.6	5.6	304	28	5.9	5.2	298	31	7.7	6 8	303	28	9.6	5.7	263	31	7.3	1.4	257
2.1 „ .	30	9.5	8.7	304	29	8.0	7.3	302	28	7.9	7.6	294	25	8.5	7.6	300	28	8.2	1.1	348	30	7.2	0.8	330
3.0 „ .	28	10.5	9.7	293	26	11.4	10.6	301	28	9.8	9.1	285	15	9.2	8.6	283	27	7.8	4.9	073	27	6.5	2.7	064
3.6 „ .	28	10.8	10.0	292	25	11.4	10.5	299	28	10.3	9.8	287	3	10.1	9.7	286	20	7.1	5.0	087	25	7.2	4.5	072
4.5 „ .	26	10·9	10.3	288	22	11.0	9.7	285	28	11.2	10.5	288	1	6.2	6.2	345	13	5.9	5.0	099	19	7.2	6.1	081
5.4 „ .	25	10·0	9·3	290	19	9.7	9.1	289	28	11·0	10.1	292					6	4.2	2.6	127	15	6.4	4.5	095
6.0 „ .	24	10·6	9.8	290	15	9.3	8.7	281	28	10.7	9.8	289					4	6.5	5.4	116	13	5.8	3.7	099
7.2 „ .	23	12.7	11·8	282	11	12.1	11.2	276	26	12.4	11.1	286					3	2.9	0.7	171	9	3.0	1.9	103
9.0 „ .	20	15.4	14.7	270	4	13·4	12.6	286	24	16.4	14.1	269					2	3·1	2·1	103	6	5.0	3.4	155

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level.

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	BANGALORE				BAREILLY								BEGUMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4.3	2.7	231	31	2.0	0.3	009	31	3.1	2·3	299	31	2.8	1.7	272	31	3.2	0.6	150	31	3.9	2.2	198
0.15 a.g.	28	8.0	5.2	221	31	7.4	2.2	317	31	5.5	4.4	286	30	6.5	3.9	268	31	4.2	0.1	070	31	7.6	4.0	195
0.3 a.m.s.l.					31	6·8	2·0	314	31	5.2	4.2	284												
0.6 ,,					31	9.7	3.7	300	31	7.1	5.5	292	30	4.7	2.5	264	31	4.0	0.5	158	31	5.1	2.5	195
0.9 ,,					31	8.6	4.6	294	31	7.3	6.4	291	30	8.9	4.8	282	31	4 5	0.5	019	31	8.6	4.7	201
1.5 ,,	28	9.1	4.6	238	30	7.4	5.9	299	30	6.9	6.4	288	30	7.2	3.4	281	31	4.2	0.8	030	31	5.8	1.6	207
2.1 ,,	28	7.4	0.6	230	30	8.5	7.9	303	30	7.7	7.2	286	30	4.8	0.6	050	31	3.9	1.0	048	30	4.0	1.5	040
3.0 ,,	25	7.6	2.9	067	26	8.8	8.3	298	30	9.1	8.3	293	30	5.3	4.0	071	30	4.6	2.9	060	30	5.4	4.5	052
3.6 ,,	24	8.2	4.7	073	20	9.6	9.2	303	30	10.0	9.4	297	30	7.0	5.9	065	27	5.1	3.3	073	17	5.2	4.5	053
4.5 ,,	18	7.8	5.2	084	14	7.7	6.8	296	29	12.1	11.7	297	27	6.9	5.6	072	25	5.4	3.5	067	6	6.3	5.6	030
5.4 ,,	7	5.1	2.4	126	12	7.6	6.6	271	25	12.4	11.5	295	21	5.5	3.4	093	19	5.1	3.0	069	1	4.6	4.6	040
6.0 ,,	6	2.7	1.9	136	9	8.6	8.3	270	21	11.5	10.6	286	20	6.2	3.0	088	18	5.1	3.0	063				
7.2 ,,	3	4.6	4.2	213	5	13.4	11.3	281	19	14.6	13.6	279	14	7.7	0.9	065	11	6.0	0.3	333				
9.0 ,,					2	14.7	14.0	279	14	18.4	17·3	274	4	9·7	2.4	095	9	6.8	1.0	156				

Station	BHAGALPUR												BHUBANESHWAR											
Time in I.S.T.	0530				1130				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.7	1.5	090	31	2.8	1.2	059	31	3.1	0.5	349	31	5.4	4.9	217	31	5.7	4.5	212	31	7.5	6.4	199
0.15 a.g.	30	6.0	3.0	093	31	4.6	2.4	048	30	6.1	1.2	354	27	7.9	6.8	205	31	6.5	5.6	204	30	8.0	7.2	192
0.3 a. m.s.l.	30	6.6	2.4	090	31	4.6	2.3	053	30	6.7	1.4	340	27	8.8	7.9	218	31	6.1	5.1	209	30	8.9	7.7	194
0.6 ,,	30	7.6	0.9	100	31	5.5	1.9	081	30	7.3	1.1	304	26	8.7	7.5	223	31	6.5	5.1	220	30	8.3	6.7	199
0.9 ,,	28	7.9	2.0	277	29	6.2	0.4	161	30	7.3	2.5	285	23	8.1	6.5	239	30	6.5	4.6	254	29	6.1	4.3	209
1.5 ,,	26	8.0	4.9	291	25	8.3	5.4	274	29	7.2	4.9	275	21	5.8	3.5	284	26	6.5	5.0	294	29	4.5	2.6	290
2.1 ,,	26	8.9	6.4	290	22	9.9	8.1	278	27	9.0	8.0	274	20	4.9	3.6	319	21	5.7	4.7	297	29	5.5	4.5	316
3.0 ,,	19	9.4	7.6	278	14	10.7	9.6	284	24	9.7	8.6	278	18	6.4	5.6	355	14	3.9	2.5	310	28	7.3	6.3	330
3.6 ,,	16	10.1	8.8	280					19	10.3	9.3	287	13	5.4	4.4	354					25	8.4	7.1	330
4.5 ,,	9	9.4	8.2	278					16	10.9	9·9	290	8	3.8	2.3	347					18	6.0	5.2	315
5.4 ,,	7	10.1	7.3	294					13	10.2	9.2	297	7	4.2	2.2	290					15	8.1	6.7	303
6.0 ,,	4	7.8	2.6	298					10	11.5	9.3	290	7	4.1	3.0	257					12	8.1	6.4	297
7.2 ,,	3	3.6	2.2	185					7	11.6	9·8	292	4	7.5	7.2	246					8	8.4	6.9	295
9.0 ,,	2	6.7	6.1	217					2	15·7	13.1	249	2	13.6	13.6	215					1	3.1	3.1	335

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	BHUBANESHWAR				BHUJ												BIKANER							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	6.7	5·8	209	31	2.6	2.4	245	31	4.9	3.9	250	31	4.0	3.4	238	31	2.2	1.9	230	31	2.3	1.2	296
0.15 a.g.	30	8.6	7·7	197	31	6·1	5.8	260	31	7.4	5.7	249	31	8.0	6.8	252	31	9.9	5.9	233	30	4.9	3.8	268
0.3 a.m.s.l.	30	9.7	9·1	205	31	8·4	6·4	254	31	7.7	5.9	249	31	8·2	6·8	254	31	6·5	3·8	230	30	4.5	3.3	272
0.6 ,,	30	11.6	10·8	207	31	8·9	7·2	278	31	7.7	6.2	256	31	8·0	6·5	266	31	9.6	5.7	257	30	5.1	4.0	267
0.9 ,,	28	10.5	9·1	207	30	7.1	5.7	286	31	7.2	6.1	259	31	6.5	4.7	274	31	8.4	5.3	265	30	5.5	4.3	264
1.5 ,,	26	5.5	3.1	240	30	5.7	3.8	277	30	6.1	4.9	269	31	5.6	2.7	282	29	6·8	4.5	283	30	6.3	5.0	266
2.1 ,,	24	4.5	2.8	300	29	5.0	2.6	268	30	5.6	4·2	275	30	5.1	2.1	307	28	6.4	4.5	282	29	6.2	5.1	265
3.0 ,,	22	7.2	6.1	332	21	5.4	2.5	260	29	6.7	4.5	280	30	5.3	2.9	299	19	5.6	3.4	295	28	6.4	5.4	262
3.6 ,,	6	6.3	5.9	344	9	6.6	5.9	239	28	7.2	4.4	274	22	5.2	2.0	324	14	5.9	3.9	325	26	6.7	5.8	269
4.5 ,,	2	8.5	8.0	326	4	5·4	4.2	203	28	8.0	4.0	284	14	6 2	3 0	348	8	5.5	1.3	293	17	7.8	6.6	273
5.4 ,,	2	4.4	3.9	309	1	8.7	8.7	280	27	8.0	3.9	298	1	8.7	8.7	015	6	7.3	3.1	334	14	9.8	8.1	268
6.0 ,,	1	8.7	8.7	305	1	7.7	7.7	320	27	8.5	3.7	317	1	11.3	11.3	010	5	10.8	6.9	351	10	9.1	7.0	272
7.2 ,,									22	10.0	4.3	305					3	9·6	6·4	305	6	9·9	8·1	292
9.0 ,,									7	9.3	6.5	334									4	17·8	13·8	281

Station	BIKANER				CHIKALTHANA												COCHIN							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.9	1.1	221	31	4.3	4.0	281	31	3.8	2.5	323	31	5.7	4.7	287	31	2.0	1.3	108	31	3.9	2.3	256
0.15 a.g.	30	8.3	3.5	264	31	7.1	5.5	282	31	5.3	3.2	343	31	8.2	6.5	292	24	3·6	1·6	149	19	5.3	3.2	261
0.3 a.m.s.l.	30	6.1	2.5	263													24	4.0	1.5	189	19	6.0	4.0	261
																	24	6.0	3.1	256	18	6.8	4.9	273
0.6 ,,	30	9.1	4.3	264																				
0.9 ,,	29	7.9	4.2	265	31	8.1	5.8	299	31	5.5	4.0	337	31	8.6	7.0	309	23	7.2	3·9	265	18	7.7	5.8	275
1.5 ,,	28	5.9	4.0	267	31	6.0	3.3	342	31	4.1	3.2	338	31	6.5	5·5	331	19	7.2	3.7	272	16	9.0	6.1	282
2.1 ,,	25	5.7	4.4	278	31	4.3	2.0	021	31	4.2	3.3	347	31	4.4	2·8	022	16	8.4	3.5	269	16	9.1	5.6	286
3.0 ,,	22	6.1	4·9	290	31	4.2	2.0	063	22	3.6	2.6	359	31	5.0	3.1	081	9	9.5	2.6	264	9	8.7	4.5	293
3.6 ,,	6	7.2	6.8	310	12	4.4	2.4	081	14	4·0	2.6	035	23	6.0	3.6	102	4	7.6	5.6	279	6	9.4	4.2	292
4.5 ,,	2	5.7	4.7	304	3	4.8	4.2	253	10	5.1	3.0	089	8	4.7	2.8	085	4	11.1	5.8	313	3	3.1	2.5	032
5.4 ,,	1	5.7	5.7	280					9	6.6	4.7	079	2	6.2	4.9	053	3	6.8	3.5	355	3	4.8	4.1	352
6.0 ,,									9	6.1	4.1	077	1	2.1	2.1	250	1	4.6	4.6	035	2	4.4	3.7	320
7.2 ,,									4	6.9	1.8	069					1	4.6	4.6	025				
9.0 ,,									1	2.6	2.6	220												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	COCHIN				DARJEELING								DEHRA DUN								DUM DUM			
Time in I. S. T.	2330				0530				1730				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.1	1.0	126	31	0.5	0.1	199	31	2.0	1.9	239	31	0.8	0.8	020	31	2.5	1.2	262	31	2.6	1.3	181
0.15 a. g.	18	4.2	1.6	176	12	2.0	0.8	206	3	4.3	4.3	237	31	2.2	1.5	066	30	5.0	2.4	266	31	7.5	5.0	192
0.3 a. m. s. l.	18	5.4	2.5	194																	31	8.2	5.9	202
0.6 ,,	18	7.4	4.9	242																	31	9.2	6.8	216
0.9 ,,	18	8.9	6.0	252									31	2.3	1.2	084	30	5.2	3.2	265	31	8.0	5.3	228
1.5 ,,	17	10.0	6.3	261									31	2.3	0.8	318	30	5.1	3.9	271	31	6.4	3.7	255
2.1 ,,	14	10.3	7.7	259									31	3.5	2.2	298	30	4.8	4.2	271	31	5.7	2.9	279
3.0 ,,	7	10.3	3.9	255	11	5.8	3.9	265	3	3.6	2.6	279	30	5.5	4.7	292	30	5.2	4.4	280	31	7.1	5.0	295
3.6 ,,	3	10.3	4.9	298	10	9.6	7.8	280	3	4.1	2.8	298	30	6.7	5.9	288	28	5.8	4.5	307	31	9.0	6.9	296
4.5 ,,	1	5·1	5.1	075	5	8.3	7.7	275	1	4.1	4.1	150	24	7.9	5.7	277	25	6.4	4.8	330	31	9.0	7.1	294
5.4 ,,					2	2.3	1.3	001	1	5.7	5.7	155	14	8.4	7.4	281	20	9.3	7.7	302	31	8.2	5.7	286
6.0 ,,					2	2.1	1.1	123	1	5.7	5.7	175	11	10.8	10.2	266	19	11.5	10.1	285	30	7.9	5.8	288
7.2 ,,					2	5.9	2.2	012					6	13·3	12.2	269	8	16.2	13.9	281	28	9.5	6.6	274
9.0 ,,													2	23.4	22.9	276	2	29.3	29·2	258	23	12.0	9.0	265

Station	DUMDUM												GADAG											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.1	2.2	185	31	3.5	2.7	179	31	2.8	2.2	182	31	3.4	3·0	241	31	4.3	1.9	233	31	4.9	3.6	240
0.15 a. g.	30	5.7	4.0	188	31	7.9	6.1	183	29	6.7	5.7	189	31	6.9	5.6	251	29	7.1	3.8	235	31	8.5	5.8	245
0.3 a. m. s. l.	30	6.1	4.7	190	31	7.8	6.3	187	29	8.4	7.2	198												
0.6 ,,	30	6.2	4.3	202	31	7.2	5.9	182	28	9.8	8.5	208												
0.9 ,,	30	6.0	3.2	216	31	6 3	4 6	246	27	7.5	5 9	218	31	7.2	4.7	267	29	7.0	3 2	240	30	9.3	6.0	254
1.5 ,,	23	6.2	4.6	273	31	5.9	3.1	275	23	6.1	3.7	250	26	6 4	1.0	307	29	6.2	1.6	239	29	6.9	2.2	231
2.1 ,,	22	6.7	5.3	281	31	6.5	3.8	305	21	5.0	3.8	306	24	5.0	2.4	084	26	5.7	1.3	074	27	5.3	2.1	096
3.0 ,,	20	7.4	6 6	286	31	8.0	6.3	300	18	7.2	4.1	316	24	6.3	5.3	087	23	6.1	3.5	085	23	6.6	5.4	093
3.6 ,,	18	9.0	8.3	294	31	9.6	7.9	300	3	4.8	4.6	321	23	8.1	6.2	081	20	6.7	4.6	088	22	6.5	4.7	083
4.5 ,,	15	11.1	10.6	298	31	9.2	7.5	298	1	7.2	7.2	280	16	7.0	2.3	085	14	7.3	4.8	082	16	6.0	3.7	082
5.4 ,,	14	11.0	10.4	297	31	10.2	7.2	294					13	6.1	4.1	112	9	5.2	1.7	078	9	5.0	1.9	094
6.0 ,,	14	11.2	10.8	288	31	9.4	6.6	297					9	4.9	3.7	141	7	6.0	2.9	070	9	5.7	1.9	115
7.2 ,,	5	13.1	12.6	281	31	9.6	6.6	297					5	3.9	2.1	225	2	5.4	1.8	056	2	4.9	1.9	291
9.0 ,,	1	13.4	13.4	300	26	10.8	7.8	258					2	5.9	5.6	215	1	10.8	10.8	250				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	GANNAVARAM												GAUHATI											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.3	1.3	267	31	3.9	2.1	218	31	3.6	2.9	187	31	1.2	0.8	075	31	2.7	1.8	038	31	2.2	0.6	030
0.15 a. g.	30	4.9	3.1	242	31	4.7	2.4	218	31	6.1	4.7	183	31	3.7	2.2	091	31	4.0	3.2	044	31	4.2	1.1	077
0.3 a. m. s. l.	30	6.5	4.4	237	31	4.7	2.4	224	31	6.9	5.3	188	31	3.8	2.2	091	31	4.0	3.0	055	31	4.3	1.4	077
0.6 ,,	30	8.4	5.6	241	31	4.3	2.1	237	31	7.1	4.6	195	31	4.0	1.5	073	29	3.6	1.9	065	31	4.5	1.3	101
0.9 ,,	30	7.9	4.6	246	31	3.4	1.2	244	31	5.4	2.3	206	31	4.8	0.1	059	29	3.8	0.4	189	31	4.9	1.6	170
1.5 ,,	30	5.1	0.8	293	31	3.9	1.2	314	31	4.4	0.6	005	31	6.2	4.0	249	24	6.1	4.6	230	31	6.5	5.0	232
2.1 ,,	29	4.4	1.8	059	29	5.3	2.4	035	30	4.8	2.8	049	30	9.3	7.6	249	22	10.1	9.5	241	31	8.6	4.4	222
3.0 ,,	28	5.7	4.8	063	29	6.9	5.3	052	30	6.1	4.6	069	30	11.3	9.6	264	18	11.7	10.7	261	30	10.6	8.6	260
3.6 ,,	23	6.2	5.4	054	28	7.3	5.6	056	27	6.3	4.6	068	28	12.0	10.6	265	16	15.3	14.2	268	30	11.7	9.7	268
4.5 ,,	21	6.5	4.4	050	28	6.6	4.4	067	17	5.1	3.5	026	28	12.4	10.5	266	13	18.3	17.6	266	30	11.6	10.2	273
5.4 ,,	18	5.1	1.8	056	28	5.5	2.1	054	10	4.3	1.7	022	27	12.6	10.7	268	8	14.4	13.7	283	28	11.2	9.2	265
6.0 ,,	14	5.7	0.7	066	28	5.4	1.9	020	7	5.3	1.6	022	27	13.4	11.6	267	6	16.7	16.0	281	28	11.8	10.1	263
7.2 ,,	10	4.9	0.7	358	22	6.1	2.0	020	1	4.6	4.6	250	27	13.8	10.9	268	3	17.3	17.3	276	28	14.2	12.7	265
9.0 ,,	5	6.1	3.4	247	16	5.1	0.8	018					24	17.2	15.3	266	1	21.1	21.1	315	17	16.0	13.0	273

Station	GAUHATI				GAYA																GOPALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.5	0.9	060	31	2.8	1.5	130	30	5.0	0.8	306	31	5.7	2.8	316	31	3.0	1.5	095	31	5.7	5.4	297
0.15 a. g.	29	4.0	2.8	078	31	6.3	1.4	212	30	4.3	1.0	323	31	6.1	3.3	328	31	6.9	1.7	008	30	12.0	11.3	214
0.3 a. m.s. l.	29	4.1	2.7	086	31	6.5	1.2	230	30	4.6	0.8	321	31	6.2	3.4	326	31	7.4	1.8	006	30	10.8	10.4	225
0.6 ,,	29	4.1	2.3	087	31	6.6	1.7	280	30	4.5	1.1	298	31	6.9	4.2	323	31	7.7	1.5	339	30	7.4	6.6	230
0.9 ,,	28	4.1	0.9	133	31	6.2	2.6	292	30	5.1	2.3	280	31	7.1	4.6	317	31	6.6	2.0	313	30	6.7	5.5	238
1.5 ,,	24	5.6	3.7	236	31	6.5	5.1	296	29	6.8	4.7	286	31	7.2	6.0	299	31	6.9	4.9	294	27	5.4	3.7	255
2.1 ,,	18	7.1	5.2	246	29	9.2	7.8	293	20	8.0	5.1	298	29	8.5	7.4	293	25	8.2	6.5	292	27	5.1	2.7	317
3.0 ,,	4	12.6	11.6	259	20	11.6	9.3	290	5	6.9	4.8	304	26	10.7	9.2	296	12	8.2	5.7	308	26	6.6	5.9	359
3.6 ,,					14	13.4	8.9	296					22	11.4	10.6	262	2	6.9	3.8	130	19	6.3	5.3	009
4.5 ,,					9	13.9	8.2	306					17	12.9	12.1	289	1	9.3	9.3	310	13	4.3	3.0	355
5.4 ,,					4	11.7	9.8	312					8	11.0	10.7	295					10	5.8	2.0	300
6.0 ,,					2	10.8	8.1	279					1	23.7	23.7	280					10	5.9	3.4	293
7.2 ,,					1	1.0	1.0	200					1	11.3	11.3	265					5	5.7	2.8	259
9.0 ,,					1	5.1	5.1	190													2	3.6	3.4	322

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I. S. T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	7.9	7.5	205	31	7.2	6.6	206	31	1.6	0.8	058	31	2.4	0.5	288	31	1.9	1.4	273	31	3.4	2.2	315
0.15 a. g.	31	12.4	11.7	203	30	14.2	12.6	214	31	7.6	0.9	002	31	5.3	1.7	285	31	7.2	4.1	275	31	6.4	4.3	317
0.3 a.m. s. l.	31	12.8	11.7	206	30	12.7	12.0	217	31	8.9	1.4	016	31	5.6	2.1	286	31	5.7	3.5	271	31	5.7	3.9	318
0.6 "	30	7.7	5.6	214	30	9.5	8.6	219	31	9.1	0.5	311	31	6.4	3.0	282	31	9.5	5.8	300	31	6.7	4.5	316
0.9 "	30	5.3	2.5	228	29	6.9	5.9	225	31	8.4	2.4	288	31	6.3	3.7	280	31	9.4	6.3	303	31	6.5	4.4	309
1.5 "	28	4.1	1.8	288	28	5.3	3.5	228	30	7.5	5.0	298	30	6.7	9.5	280	31	8.0	6.2	301	31	6.9	5.8	296
2.1 "	28	4.6	3.0	331	28	3.4	1.2	275	29	8.5	7.1	302	29	8.7	7.6	280	31	7.8	6.7	297	31	6.7	6.0	292
3.0 "	26	6.4	5.1	342	26	5.5	4.3	346	23	9.9	8.8	296	26	10.5	9.7	293	27	7.7	7.3	293	28	7.3	6.6	285
3.6 "	19	5.7	3.8	330	5	10.5	8.3	353	16	10.5	9.5	289	22	10.7	10.0	300	24	7.6	7.1	300	26	9.2	8.1	283
4.5 "	16	5.6	3.0	322	2	1.5	1.5	146	11	9.8	8.0	290	20	10.9	10.5	305	20	7.9	6.9	303	23	10.1	9.1	290
5.4 "	12	5.7	4.4	321					7	8.5	6.7	267	19	10.4	9.9	300	19	9.7	8.6	296	20	11.2	10.6	292
6.0 "	10	4.7	3.1	306					6	9.1	7.1	264	13	9.5	8.6	288	15	10.7	9.1	288	17	13.3	12.5	289
7.2 "	5	7.8	4.8	260					4	6.8	6.4	235	12	13.0	12.0	282	10	10.3	9.5	285	13	14.4	13.1	289
9.0 "	1	16.5	16.5	260					3	11.3	11.2	232	10	15.5	15.1	282	5	12.6	11.1	283	9	19.0	18.1	272

Station	GWALIOR				IMPHAL																JABALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.2	1.4	275	30	0.2	0.1	180	31	3.7	3.2	224	31	2.0	1.2	226	31	0.7	0.4	231	31	1.1	0.8	240
0.15 a.g.	31	6.8	3.9	314	23	1.6	0.7	179	30	4.0	2.9	236	29	4.1	2.8	246	18	2.9	2.2	239	31	5.0	2.4	252
0.3 a. m. s. l.	31	5.7	3.6	304																				
0.6 "	31	7.7	4.5	310																	31	5.7	2.6	272
0.9 "	31	7.5	4.6	303	3	1.5	0.6	166	30	3.8	2.7	233	29	3.6	2.4	240	18	2.9	2.2	230	31	6.8	3.7	320
1.5 "	31	6.9	5.8	292	23	4.7	2.9	256	29	5.8	5.0	255	29	5.8	4.1	267	18	6.4	5.9	263	31	6.3	4.2	330
2.1 "	31	7.3	6.6	290	21	7.2	5.3	256	23	7.7	6.7	260	27	6.9	5.6	265	18	7.9	6.5	264	31	5.6	4.4	316
3.0 "	26	6.8	5.5	286	15	7.5	7.1	275	9	9.0	8.4	271	26	9.7	7.3	267	11	9.4	8.1	276	31	6.8	5.4	291
3.6 "	12	6.6	6.1	302	9	7.7	7.2	275					20	9.8	7.5	272	1	9.3	9.3	285	30	7.3	5.8	281
4.5 "					4	5.9	1.9	279					8	12.6	12.0	270					22	7.5	6.4	288
5.4 "					1	10.3	10.3	200					4	16.7	15.4	275					15	6.0	4.9	321
6.0 "													2	17.0	14.4	251					13	6.2	4.9	305
7.2 "																					7	8.7	7.8	303
9.0 "																					3	9.1	8.8	283

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	JABALPUR								JAGDALPUR												JAIPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.4	1.9	293	31	1.0	0.4	242	31	0.6	0.5	203	31	2.1	0.9	208	31	0.8	0.6	195	31	1.9	1.4	310
0·15 a. g.	31	4.7	3.7	295	31	6.1	1.3	322	31	5.6	5.0	213	31	5.5	2.7	210	30	6.7	5.3	203	31	8.2	4.8	291
0·3 a. m.s. l.																								
0·6 ,,	31	4·9	3.9	300	31	6.7	1.7	322	31	3.0	2.7	210	31	4.0	2.0	211	30	4 8	3.8	198	31	9.7	6.3	285
0·9 ,,	31	5.3	4.1	310	31	6.7	2.5	329	31	7.6	6 8	236	31	5.3	2.8	214	30	6.9	5.3	214	31	10 7	8.8	289
1·5 ,,	31	5.1	4 2	305	31	4.7	3.0	319	31	6.8	5.6	273	29	3.4	2.5	268	30	5.1	3.5	254	31	8.4	7·4	294
2·1 ,,	31	4.8	4.2	303	31	4.9	4.0	309	30	5.2	3.7	319	27	3.8	2.9	313	29	4.4	3.0	301	27	7.6	6.4	289
3 0 ,,	31	6.5	5 6	300	30	6.0	4.5	294	27	5.8	4.7	017	23	5.5	4.0	350	27	5.3	4.0	357	21	7.9	6.4	292
3·6 ,,	30	7.1	5.9	294	26	7.3	5.9	278	26	6.4	5.4	024	20	6.4	4.5	355	15	6.5	4.0	019	14	8.7	7.7	290
4·5 ,,	29	7.3	6.3	295	5	8.0	7.3	283	18	5.6	4.0	016	14	6·6	5·1	003	4	5.1	4.1	009	4	8·0	7·1	274
5 4 ,,	21	6.3	5.6	294					8	4.4	2.2	299	9	5·8	2·5	329	4	5.5	2.0	333	4	12·6	12·5	262
6·0 ,,	20	7.6	6.9	290					5	4.6	1.3	244	9	7·1	2·3	329					3	11·3	11·2	264
7·2 ,,	15	10·7	9·9	282									5	8·1	4.7	305					1	20·6	20·6	265
9·0 ,,	7	11·3	8.6	279																				

Station	JAIPUR								JAMSHEDPUR												JHARSUGUDA			
Time in I. S. T.	1730				2330				0530				1130				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4.0	3.4	299	31	1.9	0.7	300	31	1.4	0.3	328	31	1.6	0.2	240	31	2.3	0.2	074	31	1·4	0.8	153
0.15 a. g.	31	5.5	4.6	289	31	7.5	4.5	279	31	2.9	1.1	219	31	2.7	0.8	253	31	4.3	0.7	093	31	4·8	3.0	179
0.3 a.m.s.l.									31	3.0	1.3	222	31	2.7	0.7	248	31	4.3	0.7	083	31	4·2	2.6	173
0.6 ,,	31	5.7	4.8	288	31	9.3	5.3	274	31	5.3	3.1	240	31	3.4	0.9	271	31	5.5	0.8	039	31	5.4	2.9	248
0.9 ,,	31	6.1	5.3	290	31	9.4	4.6	280	30	6.5	4.0	272	31	4.2	1.3	270	31	4.9	1.1	340	31	5.8	3.3	261
1.5 ,,	31	6.8	5.9	285	31	7.8	6.7	285	29	6.0	3.5	297	29	5.6	2.8	294	31	5.1	3.0	308	31	6.1	3.2	296
2.1 ,,	31	7.7	6.1	282	31	6.9	6.4	287	27	6.1	4.3	305	27	7.5	5.1	297	27	5.3	4.3	319	31	6.4	4.1	318
3.0 ,,	30	8.5	7.8	260	27	6.8	5.9	288	24	8.2	7.6	294	17	6.0	5.3	287	22	6.7	6·1	303	29	7.4	6.4	315
3.6 ,,	29	9.2	8.7	276	20	6.5	5.1	298	21	10.4	10.0	288					17	7.8	7·4	297	24	7.1	6.4	313
4.5 ,,	26	10.2	8.7	282	7	7.1	4.8	285	11	8.7	8.4	298					13	11.0	10·6	298	15	6.5	5.5	312
5.4 ,,	24	13.0	10.7	288	2	14.4	14.4	258	4	7·5	7.0	271					10	10.2	10·2	293				
6.0 ,,	22	14.7	12.3	281	1	5.1	5.1	260	2	10.8	10.6	274					9	10.6	10·2	297				
7.2 ,,	12	16.8	14.0	296	1	9.3	9.3	275									7	14.4	13·8	297				
9.0 ,,	4	18.0	17.4	271													2	17.0	16·9	263				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	JHARSUGUDA								JODHPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·2	0·6	266	31	2·3	1·2	166	31	3·0	2·2	243	31	3·9	3·2	247	31	4·5	2·3	236	31	3·0	2.3	230
0·15 a.g.	31	4·5	1·6	247	31	6·7	3·7	182	31	7·7	4·6	253	31	5·9	5·1	241	31	7·2	5·0	270	31	9·4	7·0	236
0·3 a. m. s. l.	31	4·3	1·4	249	31	5·8	3·7	181	31	7·5	4·4	254	31	5·9	5·0	248	31	6·1	4·7	259	31	7·3	5·3	236
0·6 ,,	31	4·7	1·6	265	31	6·5	2·9	193	31	8·5	5·5	253	31	5·9	5·0	244	30	6·9	5·1	255	31	9·8	7·9	207
0·9 ,,	31	4·5	1·7	282	31	5·9	2·4	221	31	8·7	6·3	254	31	6·9	5·5	247	30	7·1	6·4	256	31	9·3	7·6	251
1.5 ,,	31	4·8	3·0	315	31	4·6	2·5	295	31	7·8	5·9	258	30	7·7	5·8	260	30	7·1	5·9	256	30	7·2	6·1	262
2·1 ,,	30	5·4	4·3	329	31	5·2	4·0	318	31	6·7	4·7	260	30	7·2	5·6	259	30	6·4	5·3	261	26	5·0	4·0	290
3·0 ,,	28	7·3	6·7	323	30	6·2	5·1	313	31	6·3	4·1	276	27	7·0	5·3	261	29	6·8	5·6	270	21	4·4	3·3	308
3·6 ,,	27	8·3	7·6	321	24	7·2	6·6	318	31	6·9	4·0	276	27	7·9	5·2	265	29	7·3	5·6	272	9	4·7	4·3	310
4·5 ,,	18	7·2	5·1	309					29	8·2	5·6	280	25	8·4	5·0	265	28	7·4	4·4	283	3	2·1	1·2	315
5·4 ,,	5	7·6	7·4	304					29	9·9	7·4	285	19	10·1	7·6	294	28	9·1	7·2	283	2	4·9	4·9	275
6·0 ,,	2	9·3	9·3	287					28	11·3	8·9	280	15	11·1	9·3	283	27	10·9	8·4	279	1	8·2	8·2	265
7·2 ,,									27	13·8	9·4	275	8	16·2	13·4	285	24	13·6	10·7	278				
9·0 ,,									26	18·9	17·0	268	1	14·9	14·9	274	20	18·4	16·7	270				

Station	MADRAS																MINICOY							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·8	2·1	230	31	4·8	1·7	230	31	5·3	3·7	138	31	4·0	3·2	185	31	4·8	3·6	271	31	4·8	4·3	273
0·15 a.g.	31	6·9	5·2	242	31	5·7	2·2	221	31	7·5	5·4	142	31	6·4	5·1	182	29	8·3	6·9	273	27	8·0	7·2	271
0·3 a. m. s. l.	31	7·4	5·5	245	31	6·1	2·8	229	31	7·1	4·7	138	31	7·1	5·6	188	29	8·9	7·5	279	27	8·1	7·3	271
0·6 ,,	31	8·0	5·9	252	30	5·6	2·9	237	31	6·0	3·3	161	31	7·2	5·0	205	29	9·9	8·9	274	27	10·4	9·4	274
0·9 ,,	31	7·3	5·1	256	30	5·8	3·1	245	31	5·3	2·0	192	31	6·3	4·0	229	29	10·5	9·0	275	27	11·4	10·5	275
1·5 ,,	30	6·3	2·9	276	29	6·6	2·2	258	31	5·7	1·9	277	31	5·1	1·7	267	28	9·5	7·2	277	26	11·0	9·8	276
2·1 ,,	30	7·0	1·7	018	27	6·8	0·9	333	31	7·4	0·9	335	30	5·4	1·3	043	25	9·3	4·2	287	23	10·9	9·8	278
3·0 ,,	31	7·1	4·1	073	24	7·9	2·6	060	31	8·0	2·2	300	22	6·1	3·8	078	18	9·2	5·7	262	21	22·1	16·1	284
3·6 ,,	31	7·6	4·8	072	23	8·2	3·4	061	31	7·2	3·0	063	15	5·7	4·4	073	12	8·6	5·5	282	16	9·7	5·9	278
4·5 ,,	31	6·5	3·2	088	20	8·4	2·5	046	30	6·9	3·1	073	5	4·0	2·7	117	8	7·9	6·1	300	11	8·9	4·9	292
5·4 ,,	29	6·2	1·5	115	15	6·5	0·3	160	28	6·0	1·4	103	1	3·1	3·1	185	3	4·6	4·6	348	6	7·5	7·1	294
6·0 ,,	29	6·5	1·7	140	12	8.4	1·3	179	28	6·1	0·8	106	1	1·0	1·0	140	3	3·1	2·8	358	5	7·5	6·4	295
7·2 ,,	27	6·0	2·4	131	8	10·6	2·0	147	29	6·0	0·5	050					1	3·6	3·6	015	5	6·4	5·3	290
9·0 ,,	26	6·1	1·4	112	4	5·1	2·4	303	27	4·6	0·5	023									2	8·2	8·2	271

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	MINICOY				MOHANBARI																NAGPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface	31	5·5	4·6	276	31	1·0	0·7	045	31	1·3	1·0	052	31	1·4	1·3	050	31	1·1	0·8	040	31	2·2	1·6	29
0·15 a.g.	28	8·2	7·1	273	26	5·0	4·1	050	26	3·2	1·7	047	29	3·4	2·3	055	27	4·4	3·0	038	31	8·9	4·9	28
0·3 a. m.s.l.	28	8·7	7·7	272	26	5·0	3·9	051	26	3·2	1·7	042	29	3·4	2·3	058	27	4·4	3·1	046				
0·6 ,,	28	9·7	8·9	271	26	4·5	3·0	057	26	3·2	1·6	053	29	4·3	2·9	069	27	4·5	2·8	064	31	8·3	7·8	29
0·9 ,,	25	10·0	9·1	225	26	3·7	2·1	062	25	3·0	0·8	086	28	4·2	2·6	073	27	4·0	2·1	083	31	8·4	6·6	31
1·5 ,,	25	9·2	7·9	274	25	3·3	1·5	197	22	3·6	2·6	220	25	3·9	1·7	214	24	3·5	1·3	200	31	6·7	3·5	31
2·1 ,,	21	8·1	5·8	277	22	4·5	3·3	223	15	4·8	4·8	216	24	5·8	4·9	231	20	5·7	4·8	229	31	5·5	2·1	31
3·0 ,,	14	7·1	3·7	287	17	4·0	3·4	241	9	6·4	5·4	217	20	7·3	6·4	236	13	7·9	6·3	259	31	3·9	1·2	32
3·6 ,,	9	6·6	4·3	294	12	5·1	4·2	236					14	7·4	6·7	246	3	5·5	4·1	248	31	3·9	1·1	30
4·5 ,,	2	6·7	1·7	356	5	4·5	1·8	222					5	5·3	4·6	270	1	5·7	5·7	205	31	5·8	2·7	30
5·4 ,,					3	5·2	4·8	234					4	5·9	5·4	250					30	6·9	2·6	32
6·0 ,,					2	7·7	7·5	252					4	7·3	5·3	257					30	7·6	3·5	31
7·2 ,,													2	8·2	4·3	266					29	8·0	4·6	28
9·0 ,,													1	13·4	13·4	250					29	8·7	5·7	26

Station	NAGPUR												NANPARA								NEW DELHI			
Time in I.S.T.	1130				1730*				2330				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface	31	2·9	2·4	297	31	2·8	1·6	299	31	2·3	1·3	275	31	1·6	0·9	100	31	2·4	1·4	261	31	3·2	1·9	29
0·15 a.g.	31	4·7	3·5	298	31	5·3	3·3	321	31	6·7	2·1	287	31	7·2	0·6	080	31	6·5	4·2	283	31	7·9	4·5	29
0·3 a. m.s.l.													31	7·4	0·5	115	31	6·6	4·4	280	30	7·1	3·4	28
0·6 ,,	31	4·8	3·0	302	31	4·6	3·0	318	31	7·2	2·2	291	31	8·8	0·8	139	31	6·7	4·6	277	31	8·2	5·2	29
0·9 ,,	31	4·2	3·0	305	31	3·8	2·3	309	31	6·4	1·7	303	31	8·0	1·0	261	31	6·7	5·2	278	31	8·9	6·2	29
1.5 ,,	31	4·5	2·9	305	31	3·3	2·1	299	31	4·5	1·4	333	31	6·1	4·6	300	31	7·2	6·6	282	31	8·0	6·4	29
2·1 ,,	31	4·2	2·2	321	31	3·2	2·3	311	31	3·5	1·6	328	31	8·2	7·7	306	31	8·3	7·9	290	31	7·8	6·3	30
3·0 ,,	31	4·0	1·5	343	31	4·0	2.7	310	29	4·1	1·3	312	27	9·9	9·9	298	29	9·3	8·6	300	31	8·4	7·6	29
3·6 ,,	29	4·9	1·4	314	31	4·4	3·1	298	13	4·0	1·4	314	23	9·6	9·3	298	29	10·1	9·5	303	31	8·8	8·0	29
4·5 ,,	28	5·1	2·2	312	31	5·9	3·5	301	4	3·8	2·5	285	16	8·8	8·3	301	29	12·0	11·2	302	31	9·4	8·1	29
5·4 ,,	23	5·9	2·5	318	31	6·4	4·0	307					13	9·7	8·7	288	24	12·4	11·8	299	31	9·5	7·8	28
6·0 ,,	22	6·3	3·2	307	31	6·5	4·6	297					10	12.1	11·5	266	23	12·5	11·8	296	31	10·7	9·1	28
7·2 ,,	18	7·5	4·4	301	30	8·1	5·1	290					7	14·6	13·6	261	17	15·0	12·9	286	30	14·0	12·6	27
9·0 ,,	6	9·4	6·3	340	29	8·6	5·7	269					1	11·8	11·8	235	12	19·4	18·4	278	28	20·7	18·3	27

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	NEW DELHI												POONA											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·0	3·6	305	31	3·0	2·5	302	31	2·6	1·0	302	31	1·0	0·9	250	31	2·1	1·4	287	31	1·6	1·2	245
0·15 a. g.	30	6·3	4·5	300	31	7·6	5·9	310	31	7·6	3·7	308	30	4·0	3·3	272	31	6·4	5·0	276	31	6·0	5·3	257
0·3 a. m. s. l.	30	6·0	4·2	308	31	6·0	4·8	309	31	6·0	2·7	309												
0·6 „	30	6·0	4·1	287	31	7·3	5·7	308	30	8·3	4·5	317	30	2·4	1·8	250	31	4·2	3·1	274	31	3·5	2·8	247
0·9 „	30	6·2	6·2	282	31	6·8	5·3	307	30	7·9	4·8	308	30	5·1	3·7	288	31	6·3	4·9	280	31	6·4	5·3	271
1·5 „	30	7·6	5·9	292	31	7·1	6·0	300	30	7·8	5·9	294	30	5·6	2·3	010	31	5·6	4·2	287	31	5·8	3·9	328
2·1 „	30	8·0	6·7	300	31	7·1	6·4	293	26	8·4	7·2	292	28	5·3	3·6	069	31	4·2	2·1	327	29	4·3	2·5	046
3·0 „	27	9·8	7·6	300	31	7·8	7·1	284	18	8·2	7·6	289	23	5·7	4·9	081	28	5·3	3·4	067	27	4·6	3·4	097
3·6 „	26	10·3	6·9	300	31	8·7	7·8	285					16	5·7	4·7	100	24	5·9	3·9	080	23	5·3	3·9	098
4·5 „	22	10·3	8·9	292	31	9·9	8·7	287					8	5·6	4·5	107	19	6·8	3·9	091	14	4·8	3·3	128
5·4 „	22	11·4	9·9	290	31	10.9	9·6	290					4	8·2	5·5	094	8	8·7	8·7	064	7	7·7	5·3	065
6·0 „	22	12·9	11·8	290	31	11.7	10·6	285					3	6·8	2·1	102	7	10·2	10·2	069	2	8·2	6·5	041
7·2 „	11	15.4	14.7	278	31	14·4	12·2	280					2	6·2	5·3	088	3	13·4	13·4	107				
9·0 „	3	26.6	25.9	255	30	20·8	18·9	272									1	6·2	6·2	015				

Station	PORT BLAIR																RAIPUR							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	1·4	239	31	4·6	2·8	229	31	2·6	2·1	247	31	3·1	2·3	242	31	2·8	2·1	231	31	2·7	1·7	297
0·15 a. g.	30	6·5	5·0	229	30	11·6	4·0	224	30	6·1	4·0	239	29	5·7	4·2	239	31	7·8	5·6	242	31	5·0	1·7	347
0·3 a. m. s. l.	30	6·6	5·0	229	30	6·4	3·5	242	30	6·2	4·1	239	29	6·1	4·7	241								
0·6 „	30	7·6	5·2	241	30	7·2	5·3	238	30	7·0	4·8	238	29	6·9	5·2	243	31	8·5	6·0	251	31	5·5	4·0	304
0·9 „	30	7·6	6·1	239	27	7·1	5·1	231	30	7·7	5·3	244	29	6·3	4·4	240	31	7·9	4·9	263	31	4·7	3·4	310
1·5 „	30	7.5	5·0	233	21	7·4	5·1	239	30	6·7	4·2	242	27	5·6	3·0	234	31	6·0	5·5	300	31	4·6	3·4	308
2·1 „	30	6·7	3·5	232	13	6·4	1·5	217	30	6·4	3·3	240	22	5·1	1·6	216	31	5·1	4·1	333	31	4·6	3·4	308
3·0 „	29	7·3	3·1	234	8	7·9	3·2	091	29	6·2	2·3	242	18	4·7	0·9	240	29	4·8	3·3	335	30	4·8	3·9	307
3·6 „	29	6·6	3·2	253	6	5·7	4·9	110	29	6·5	1·1	210	12	3·6	0·2	216	18	5·3	4·0	325	25	5·3	4·0	321
4·5 „	28	6·5	3·8	249	1	5·1	5·1	095	29	2·3	2·7	245	2	4·1	4·1	028	6	6·8	5·8	316	15	4·9	3·2	292
5·4 „	28	6·4	2·7	260	1	5·1	5·1	100	28	7·4	2·8	250					2	5·9	5·5	360	9	5·3	4·5	288
6·0 „	28	7·7	2·7	259					28	8·1	4·0	260					1	1·0	1·0	245	8	7·1	6·2	290
7·2 „	27	6·1	3·0	261					27	6·1	2·3	293									6	8·9	8·9	277
9·0 „	25	5·0	2·1	140					25	5·8	1·7	167									2	6·2	5·3	266

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	RAIPUR				RAXAUL												SANTA CRUZ							
Time in I.S.T.	2330				0530				1130				1730				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·3	1·8	206	31	1·3	1·0	085	31	1·9	1·6	098	31	1·5	0·2	170	31	0·9	0·5	250	31	3·5	2·7	257
0·15 a. g.	31	7·4	2·7	227	31	6·6	4·7	095	31	4·4	3·1	124	31	6·1	1·1	245	31	5·6	2·6	270	31	4·2	3·3	262
0·3 a. m.s. l.					31	7·7	5·1	094	31	4·5	3·1	126	31	6·0	1·0	254	31	4·9	1·9	275	31	3·8	2·3	266
0·5 ,,	31	7·6	2·0	252	31	8·8	3·6	103	31	5·6	3·4	126	31	6·2	1.6	248	31	4·9	1·0	282	31	3·7	0·7	269
0·9 ,,	31	6·5	2·1	271	31	8·5	1·3	130	31	6·5	3·2	133	31	6·7	1·8	251	31	5·0	0·8	333	29	4·4	0·7	010
1·5 ,,	31	5·5	2·9	302	29	7·9	2·5	268	27	6·8	2·2	243	29	5·8	2·6	269	31	5·7	1·9	353	26	4·5	1·8	026
2·1 ,,	31	4·9	3·3	317	21	7·7	5·6	278	19	7·7	6·0	274	29	6·3	4·2	275	31	4·9	1·4	035	24	4·6	2·4	066
3·0 ,,	30	5·5	3·2	322	12	8·3	7·7	281	8	8·7	7·6	281	20	8·5	7·6	287	30	4·9	3·3	079	23	5·1	3·7	105
3·6 ,,	21	5·5	3·8	334	8	9·5	9·3	284					12	7·9	6·7	289	30	5·3	3·3	093	20	6·1	4·7	098
4·5 ,,	3	6·7	5·9	299	5	12·0	11·8	280					7	11·1	10·8	289	30	6·0	3·6	114	16	5·4	3·2	102
5·4 ,,	1	3·6	3·6	285	3	10·3	10·0	278					6	10·5	10·0	281	30	5·3	1·7	088	14	4·9	2·4	103
6·[illegible] ,,					1	10·3	10·3	275					6	10·8	10·6	283	30	6·0	0·8	046	14	5·3	2·0	127
7·2 ,,					1	9·8	9·8	290					2	16·5	14·4	277	30	7·1	6·7	222	10	7·2	3·3	195
9·0 ,,													1	12·9	12·9	240	28	8·5	2·8	228	3	7·1	2·0	131

Station	SANTA CRUZ								TEZPUR															
Time in I. S.T.	1730*				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	6·3	5·4	292	31	2·7	1·5	246	30	1·0	0·8	070	31	1·8	1·4	084	31	1·3	1·0	081	31	1·3	1·2	094
0.15 a. g.	31	7·9	6·7	294	31	4·6	2·8	252	28	6·2	5·3	076	29	5·1	3·7	073	31	5·8	3·9	080	25	7·9	6·3	091
0.3 a. m.s. l.	31	7·3	5·8	291	31	4·8	2·9	256	28	6·9	6·1	083	29	5·6	4·1	069	31	6·5	4·3	081	25	7·6	6·1	093
0·5 ,,	31	6·2	4·6	287	31	5·5	2·7	267	28	5·4	4·0	094	28	5·4	3·7	083	31	4·6	2·2	083	25	5·9	3·9	098
0·9 ,,	31	5·1	3·1	282	30	5·3	1·7	292	26	5·1	2·1	120	27	4·5	1·3	115	31	4·2	0·9	236	24	4·9	1·3	142
1·5 ,,	21	3·5	1·0	305	30	4·9	2·1	003	21	6·6	3·9	260	23	5·3	3·5	229	31	7·1	6·1	245	20	6·3	2·8	234
2·1 ,,	31	4·1	1·9	071	25	4·3	1·7	021	18	7·4	5·8	257	19	7·6	5·9	237	28	9·6	8·5	245	16	8·4	4·4	245
3·0 ,,	31	5·1	2·8	096	24	4·8	3·0	093	14	9·5	8·9	265	9	8·7	7·2	251	23	12·0	11·2	250	9	8·6	4·0	261
3·6 ,,	31	6·1	3·9	106	10	5·9	4·3	104	7	7·1	6·9	274					13	8.9	6·9	243	3	10·5	5·3	265
4·5 ,,	31	6·0	3·1	110	2	3·9	3·9	158	3	5·7	5·3	250					7	4·8	4·3	243	1	13·9	13·9	280
5·4 ,,	31	5·9	2·8	104	1	9·3	9·3	195	2	4·4	3·5	203					6	5·7	4·5	250				
6·[illegible] ,,	31	5·7	1·9	122					2	3·6	3·3	244					6	6·4	6·0	253				
7·2 ,,	31	6·8	0·1	065					1	3·1	3·1	160					2	7·7	6·7	250				
9·0 ,,	27	8·2	3·2	246																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	TIRUCHIRAPALLI												TRIVANDRUM											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·3	3·5	263	31	5·8	3·0	249	31	5·8	3·3	250	31	2·3	1·1	325	31	2·5	1·3	283	31	3·3	2·5	283
0·15 a. g.	31	7·4	6·1	265	30	6·3	3·1	236	28	7·9	5·3	253	27	6·2	3·7	316	21	5·6	3·5	283	29	6·8	5·1	293
0·3 a. m. s. l.	31	8·1	6·6	266	30	6·5	3·3	237	28	8·5	5·8	253	27	6·3	3·7	316	21	6·5	4·3	283	29	7·2	5·3	293
0.6 ,,	31	10·0	8·3	266	30	6·9	4·1	237	28	9·6	6·9	252	27	7·6	4·9	292	19	7·5	4·9	292	29	8·9	6·8	290
0·9 ,,	30	9·6	7·4	267	30	6·3	3·9	246	28	8·9	6·2	255	27	9·5	6·2	281	19	8·5	5·0	288	29	9·2	7·1	288
1·5 ,,	30	7·1	4·0	275	30	6·0	3·2	258	27	6·9	4·0	266	27	9·5	6·9	287	13	10·1	5·8	279	29	9·6	6·8	287
2·1 ,,	30	7·5	2·1	290	30	6·8	2·6	275	26	7·1	2·1	297	26	9·2	5·5	286	10	10·7	2·9	262	29	9·9	7·2	281
3·0 ,,	28	7·7	0·4	050	28	8·6	1·7	326	22	8·0	1·5	083	26	9·4	4·6	276	6	8·9	0·8	317	29	10·8	6·2	277
3·6 ,,	27	7·3	0·6	070	26	8·8	0·8	026	20	8·5	1·6	097	26	8·9	4·4	273	5	8·1	3·0	090	29	10·6	5·8	275
4.5 ,,	20	6·1	0.3	176	21	8·6	2·7	073	10	6·6	4·0	135	26	8·5	4·1	260	2	9·8	8·3	142	29	10·7	6·5	272
5·4 ,,	11	6·7	1·5	217	16	7·3	1·5	105	1	5·7	5·7	085	25	8·2	3·1	258	1	9·3	9·3	115	29	9·0	5·8	265
6·0 ,,	2	6·4	6·4	264	11	6·1	3·2	110	1	5·7	5·7	080	25	6·5	2·7	248					29	8·1	4·8	261
7·2 ,,					6	6·3	2·6	183					25	5·3	2·2	240					28	5·8	2·6	264
9·0 ,,					2	5·9	3·9	171					23	5·0	2·1	157					26	4·9	1·4	160

Station	TRIVANDRUM				UDAIPUR												VENGURLA							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·4	1·6	356	31	0·8	0·6	248	31	2·0	1·4	267	31	1·2	1·0	259	31	1·3	0·8	082	31	2·9	2·2	244
0·15 a. g.	24	6·4	3·3	317	31	3·9	2·8	284	31	4·2	3·0	262	31	4·4	3·4	259	31	4·0	0·9	116	31	5·0	4·0	247
0·3 a. m. s. l.	24	7·3	3·9	304													31	4·3	0·5	249	31	5·8	4·1	250
0·6 ,,	24	9·2	6·2	294													31	5·0	1·3	279	30	5·9	4·0	254
0·9 ,,	23	10·3	7·9	289	31	5·8	4·1	289	31	4·9	3·7	271	31	5·9	4·6	267	28	5·5	1·9	317	27	5·5	3·1	257
1·5 ,,	21	11·6	9·2	289	31	6·3	5·1	285	31	5·4	4·4	271	31	6·5	5·1	279	25	5·6	2·0	009	25	3·8	0·6	231
2·1 ,,	16	10·3	7·1	276	31	4·9	3·1	260	31	5·7	4·7	274	31	4·8	3·5	280	21	4·4	2·1	080	21	3·9	2·0	068
3·0 ,,	10	6·8	2·7	273	30	5·9	3·7	252	31	5·9	4·8	270	31	4·8	3·0	276	17	5·9	3·6	102	16	6·8	4·7	093
3·6 ,,	9	6·5	3·4	295	19	6·1	2·3	260	31	6·5	4·5	272	26	4·6	2·2	281	2	9·0	3·4	078	8	9·4	8·4	082
4·5 ,,	3	5·0	3·1	311	4	4·9	0·8	215	29	7·3	4·8	276	15	5·8	3·4	297					4	11·8	10·5	084
5·4 ,,					1	6·2	6·2	260	27	9·7	6·8	282	5	4·6	2·7	273					3	8·1	4·3	078
6·0 ,,					1	10·8	10·8	270	26	11·5	8·3	279	2	6·4	4·4	238					2	7·5	7·4	106
7·2 ,,					1	9·8	9·8	270	17	12·6	10·0	275												
9·0 ,,					1	7·7	7·7	285	9	13·7	12·7	263												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Station	VENGURLA				VERAVAL																VISAKHAPATNAM			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.3	0·3	095	31	4.1	2.5	285	31	4.9	3.1	285	31	6.5	5.7	266	31	4.3	3.4	280	31	2.6	2.4	232
0.15 a. g. .	31	4.2	0.9	250	31	7.6	4.3	296	31	4.9	2.8	275	31	9.0	8.3	268	31	7.0	5.5	286	31	5.1	4.7	240
0·3 a. m.s. l. .	31	4·6	1·5	271	31	7.9	4.5	303	31	5.5	2.9	283	31	8.3	7.6	270	31	7.8	6.0	292	31	6.4	6.1	238
0·6 ,, .	30	5·1	2·0	293	31	6.5	4.2	305	31	5.8	2.7	293	31	7.0	5.8	271	31	7.8	5.8	292	31	7.5	6.9	239
0·9 ,, .	26	6.1	2.2	314	31	7.1	4.0	300	31	5.3	2.8	296	31	6.4	4.4	281	30	6.8	4.6	292	31	7.2	6.5	247
1·5 ,, .	23	4.6	1.5	331	30	4.8	2.7	280	30	4.5	1.7	308	31	5.1	2.9	326	30	4.8	2.4	303	30	5.5	3.5	250
2·1 ,, .	15	4.3	1.3	015	30	5.0	1.7	269	27	4.2	1.0	272	31	4.9	1.7	319	29	3.9	0.3	060	29	4.6	0.9	333
3·0 ,, .	13	5.9	4.6	088	30	5.1	1.3	248	27	5.3	0.3	203	31	5.7	1.2	335	29	4.5	0.4	139	28	5.2	3.2	028
3.6 ,, .	1	5.1	5.1	185	30	6·1	0.5	199	25	5.7	1.0	165	31	6.6	0.3	300	22	5.7	1.0	153	24	6.1	4.1	028
4·5 ,, .					31	7·6	0.8	086	25	7.0	1.0	175	31	7.4	0.2	063	12	6.5	2.7	113	20	5.6	2.4	020
5·4 ,, .					31	7.2	1.0	013	24	6.8	0.5	245	31	7·4	1.3	345	4	7.5	1.5	120	16	4.0	0.6	008
6·0 ,, .					31	7·1	1·7	350	24	7.9	1.1	262	31	7·7	1.2	337	2	9.5	3.3	333	12	5.0	0.5	022
7·2 ,, .					31	8·5	2·5	294	19	9.5	2.7	219	31	8·5	1.3	313					8	5.8	1.4	250
9·0 ,, .					29	10·5	5.3	252	9	9.3	3·7	240	28	9.9	5.6	266					2	8.7	7.9	237

Station	VISAKHAPATNAM							
Time in I.S.T.	1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D
Surface. . .	31	5.3	4.6	220	31	2.7	2.6	224
0.15 a. g. .	31	5.8	4.7	202	31	4.3	4.2	222
0.3 a. m. s. l. .	31	5.4	4.2	203	31	5.4	5.1	226
0.6 ,, .	31	5.5	4.1	222	30	6.2	5.6	238
0.9 ,, .	31	4.7	3.3	241	29	5.2	4.2	254
1.5 ,, .	30	4.5	2.2	302	29	3.5	1.0	275
2·1 ,, .	30	4.2	2.5	359	29	3.8	1.4	030
3·0 ,, .	29	5.9	3.8	034	26	6.0	3.3	022
3·6 ,,	29	7.1	4.2	039	24	7.3	5.5	014
4·5 ,, .	26	7.3	3.9	018	9	5.3	1.8	006
5·4 ,,	20	6.3	1.9	009	4	5.4	2.9	252
6·0 ,, .	18	6.3	1.8	008	3	6.7	6.4	267
7·2 ,, .	13	6.3	2.2	312				
9·0 ,, .	8	6.7	2.1	288				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Ht. in Km.	n	V	v	D
AGARTALA				
1730 hrs.				
10.5	1	10·3	10·3	230
AMAUSI				
1730 hrs.				
10.5	6	18.8	18.4	264
12.0	1	26.2	26.2	270
BAIRAGARH				
1730 hrs.				
10.5	5	15.1	14.7	258
12.0	4	16.1	16.1	259
14.1	1	13.9	13.9	220
BAMRAULI				
0530 hrs.*				
10.5	16	14.6	13.5	263
12.0	10	15.2	13.4	251
14.1	2	15.7	10.0	236
16.2	2	6.9	6.4	245
18.0	1	12.9	12.9	290
1730 hrs.*				
10.5	20	17.5	16 0	269
12.0	12	19.8	18.4	262
14.1	4	22.5	20.3	242
16.2	2	17.5	16.7	238
BANGALORE				
0530 hrs.				
10.5	1	2.1	2.1	055
12.0	1	7.0	7.0	050
1730 hrs.				
10.5	3	7.1	5.6	097
12.0	2	9.5	8.0	091
14·1	1	7.7	7.7	120
BAREILLY				
1730 hrs.				
10.5	6	18.3	14.5	283
12.0	4	23.8	22.1	274
BEGUMPET				
0530 hrs.				
10.5	3	9.6	1.6	255
12.0	2	8 2	8.0	243
14.1	1	7.7	7.7	110
16.2	1	10.8	10.8	085
1730 hrs.				
10.5	8	8.7	3.5	220
12.0	6	6.3	2.7	107

Ht. in Km.	n	V	v	D
BEGUMPET				
1730 hrs.				
14.1	3	11.5	9.6	123
16.2	3	17.0	16.5	120
BHAGALPUR				
0530 hrs.				
10.5	2	10.0	8.0	211
12.0	2	8.7	8.6	224
14.1	1	8.7	8.7	220
1730 hrs.				
10.5	1	22.7	22.7	295
12.0	1	31.9	31.9	290
BHUBANESHWAR				
0530 hrs.				
10.5	1	15.4	15.4	230
1730 hrs.				
10.5	1	5.1	5.1	295
12.0	1	10.3	10.3	280
14.1	1	9.8	9.8	280
16.2	1	1.0	1.0	350
18.0	1	4.1	4.1	160
21.0	1	2.6	2.6	100
BHUJ				
1730 hrs.				
10.5	2	10.6	7.4	355
12.0	1	23.2	23.2	015
14.1	1	12.4	12.4	010
16.2	1	11.3	11.3	345
BIKANER				
1730 hrs.				
10.5	2	24.2	24.1	255
DUM DUM				
0530 hrs.*				
10.5	20	11.3	8.8	257
12.0	12	12.3	8.0	247
14.1	4	13.0	6.2	231
16.2	2	5.7	3.6	210
1730 hrs.*				
10.5	19	11.5	7 7	247
12.0	15	10.1	5.9	250
14.1	10	11.1	5.8	228
16.2	5	10.4	5.0	218
18.0	2	5.7	2.9	126

Ht. in Km.	n	V	v	D
GADAG				
0530 hrs.				
10.5	1	8.7	8.7	255
12.0	1	7.7	7.7	220
1730 hrs.				
10.5	1	14.9	14.9	230
12.0	1	12.9	12.9	230
14.1	1	12.9	12.9	045
GANNAVARAM				
0530 hrs.				
10.5	1	6.2	6.2	125
1730 hrs.				
10.5	9	6.5	2.1	315
12.0	4	8.6	2.2	224
14.1	2	7.2	4.7	123
16.2	1	2·1	2.1	155
GAUHATI				
0530 hrs.*				
10.5	21	18.6	16.7	261
12.0	17	19.7	18.8	260
14.1	7	18.2	16.8	267
16.2	3	13.7	13.0	262
1730 hrs.*				
10.5	11	16.7	15.4	268
12.0	8	19.9	18.6	273
14.1	2	19.0	18.5	273
GAYA				
0530 hrs.				
10.5	1	6.7	6.7	210
12.0	1	10.8	10.8	195
GOPALPUR				
0530 hrs.				
10.5	1	10.3	10.3	315
GORAKHPUR				
0530 hrs.				
10.5	2	11.1	11.0	249
12.0	1	7.7	7.7	235
1730 hrs.				
10.5	6	19.2	17.4	265
12.0	5	18.7	15.4	260
14.1	4	16.0	13.7	240
16.2	2	8.2	4.9	238
18.0	2	14.7	8.9	197
GWALIOR				
0530 hrs.				
10.5	3	18.5	14.2	297

Ht. in Km.	n	V	v	D
GWALIOR				
1730 hrs				
10.5	2	22.7	19.8	295
12.0	1	18.0	18.0	345
JAIPUR				
1730 hrs.				
10.5	1	27.8	27.8	265
JODHPUR				
0530 hrs.*				
10.5	22	25.0	20.5	263
12.0	15	28.9	26.7	263
14.1	6	26.2	22.2	265
1730 hrs.*				
10.5	13	20.7	19.0	263
12.0	6	32.4	29.7	262
MADRAS				
0530 hrs.*				
10.5	22	5.7	3.0	116
12.0	17	7.3	5.5	107
14.1	11	11.6	6.9	086
16.2	3	11.2	8.2	082
1130 hrs.				
10.5	1	2.1	2.1	120
12.0	1	5.1	5.1	150
1730 hrs.*				
10.5	25	5.0	1.9	139
12.0	17	7.8	4.6	123
14.1	12	8.3	5.3	097
16.2	4	10.5	10.4	144
18.0	1	5.7	5.7	060
NAGPUR				
0530 hrs*.				
10.5	28	10.6	6.8	250
12.0	27	10.7	6.1	253
14.1	16	11.7	1.8	205
16.2	5	12.1	7.7	081
18.0	3	6.8	6.5	069
21.0	1	10 8	10.8	105
1130 hrs.				
10.5	4	5.8	3.5	295
12.0	2	17.2	10.7	303
14.1	1	7.7	7.7	010
16.2	1	10.8	10.8	040
18.0	1	16.5	16.5	095

Ht. in Km.	n	V	v	D
NAGPUR				
1730 hrs.*				
10.5	26	10.6	6.2	259
12.0	25	11.3	6.1	246
14.1	15	11.9	3.7	218
16.2	10	10.5	3.5	169
18.0	7	11·6	9.3	070
21.0	2	10.3	8.3	107
NANPARA				
0530 hrs.				
10.5	1	17.0	17.0	220
1730 hrs.				
10.5	10	24.2	23.2	274
12.0	7	28·8	26·8	273
14.1	1	25.2	25.2	300
NEW DELHI				
0530 hrs.*				
10.5	27	24.1	22.5	273
12.0	25	27.6	25.9	263
14.1	21	26.1	19.4	260
16.2	16	18.8	13.2	264
18.0	10	13.8	7.4	308
21.0	4	13.9	10.8	115
24.0	2	12.9	12.9	080
1730 hrs.*				
10.5	28	26.0	24.6	270
12.0	24	28.3	25.7	263
14.1	22	25.0	23.4	261
16.2	14	15.7	14.1	259
18.0	7	11.1	6.8	271
21.0	3	6.8	3.9	085
24.0	2	6.7	5.3	076
POONA				
1730 hrs.				
10.5	1	6.2	6.2	245
PORT BLAIR				
0530 hrs.*				
10·5	22	5.3	3.3	106
12.0	19	8.6	3.4	108
14.1	9	11.8	10.9	090
16.2	4	17.1	16.9	101
18.0	1	3.6	3.6	080
1730 hrs.*				
10.5	22	7·1	3·2	130
12.0	14	9·3	7·2	100

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Ht. in m.	n	V	v	D
		PORT BLAIR		
		1730 hrs.*		
14.1	6	14.1	11.9	101
16.2	2	147.	14.6	120
18.0	1	15.4	15.4	090
		RAIPUR		
		1730 hrs.		
10.5	1	6.2	6.2	240
12.0	1	4.6	4.6	295
14.1	1	6.2	6.2	190
16.2	1	6.7	6.7	125
18.0	1	7.2	7.2	090
		RAXAUL		
		1730 hrs.		
10.5	1	13.9	13.9	240
12.0	1	14.9	14.9	250
		SANTA CRUZ		
		0530 hrs.*		
10.5	19	7.8	3.3	224
12.0	13	10.5	3.1	281
14.1	5	15.0	4.0	325
16.2	1	14.9	14.9	335
18.0	1	14.9	14.9	045
21.0	1	6 7	6.7	110
24.0	1	10.8	10.8	075
		1130 hrs.		
10.5	3	8.2	2.7	250
12.0	2	9.6	2.5	347
14.1	2	11.8	8.9	091
		1730 hrs.*		
10.5	24	9.9	4 2	250
12.0	17	10.6	3.7	363
14.1	7	13.8	3.4	287
16.2	3	16.1	11.2	075
18.0	2	18.5	17.1	080
		TRIVANDRUM		
		0530 hrs.*		
10.5	23	6·3	1·5	090
12.0	22	8·4	4·6	075
14.1	14	14·9	13·5	084
16.2	5	13·1	12·9	087
18.0	3	12·4	7·7	122
21.0	1	6.2	6·2	320
		1730 hrs.*		
10.5	25	6·0	1·5	093

Ht, in Km.	n	V	v	D
		TRIVANDRUM		
		1730 hrs.*		
12.0	24	8·1	5·8	081
14.1	17	15·5	14·2	087
16.2	7	17·2	13·9	085
18 0	2	21·6	17·7	082
		UDAIPUR		
		0530 hrs.		
10.5	1	11·8	11·8	250
		1730 hrs.		
10.5	5	17.6	17.4	263
12.0	2	17·2	17·2	249
14 1	1	20·1	20·1	250
16·2	1	42·2	42·2	260
18·0	1	64·8	64·8	255
21·0	1	82·9	82·9	245
		VERAVAL		
		0530*		
10·5	28	14·0	7·1	252
12·0	22	15·2	7·9	251
14.1	8	18·3	6.2	230
16·2	2	30·8	21·7	202
		1130 hrs.		
10.5	2	11·6	2·5	034
		1730 hrs.*		
10.5	24	13·0	7·5	260
12.0	22	15·7	5·8	244
14.1	14	16·2	9·1	256
16.2	6	10·6	5·2	077
18.0	1	20·6	20·6	105
21.0	1	14·9	14·9	080
		VISHAKHAPATNAM		
		1730 hrs.		
10.5	5	6·9	0·6	295
12.0	2	10·3	7·4	109
14·1	1	22·1	22·1	090
16·2	1	19·0	19·0	105
18·0	1	20·6	20·6	090

RADIOSONDE DATA

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad . . .	Clock type	1st October, 1944	00 and 12	
2	Amritsar . .	Clock type	21st June, 1957	00 and 12	
3	Bombay . . .	Clock type	7th September, 1954	00 and 12	
4	Calcutta . . .	Clock type	13th December, 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November 1947.
5	Gauhati . . .	Clock type	22nd July, 1955	00 and 12	
6	Jodhpur . . .	Clock type	17th April, 1946	00 and 12	
7	Madras . . .	Fan type	29th June, 1946	00 and 12	
8	Nagpur . . .	Fan type	1st October, 1946	00 and 12	
9	New Delhi . . .	Clock type	3rd December, 1943	00 and 12	
10	Port Blair . . .	Fan type	4th December, 1949	00 and 12	
11	Trivandrum . . .	Fan type	1st July, 1947	00 and 12	
12	Veraval . . .	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam . .	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G.M.T.

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (989 mb.)						AMRITSAR (977 mb.)						BOMBAY (1003 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	24	98	300.1	304	294	285.7	19	230	295.2	300	289	286.1	31	13	300.8	304	298	297.0
1000	24	00	..	..	..	..	19	21	..	..	..	..	31	41	..	..	..	..
900	24	938	302.5	306	297	276.2	19	946	300.1	307	289	275.2	31	971	297.3	304	293	288.2
850	24	1444	299.3	302	295	272.1	19	1446	296.6	304	292	272.5	31	1472	295.4	303	290	283.5
800	24	1973	295.4	299	292	270.5	19	1970	292.6	299	283	269.3	31	1998	293.3	302	287	280.5
700	24	3115	287.1	294	283	263.2	19	3100	283.5	289	278	260.9	30	3136	285.6	290	281	275.7
600	24	4392	277.7	285	271	249.3	19	4359	273.7	278	269	252.5	30	4410	276.8	282	273	267.9
500	24	5852	268.8	276	263	..	17	5796	263.3	267	259	..	30	5868	268.1	273	264	..
400	23	7581	258.6	266	252	..	16	7477	252.6	257	245	..	30	7593	258.8	262	253	..
300	20	9697	245.0	255	238	..	14	9547	239.0	245	233	..	25	9721	246.0	250	243	..
250	20	10980	236.7	248	230	..	13	10795	230.8	239	225	..	23	11014	237.3	241	232	..
200	18	12513	227.1	239	220	..	10	12260	225.6	233	220	..	21	12534	227.0	232	222	..
175	16	13377	221.1	235	214	..	8	13164	223.4	231	218	..	18	13414	221.1	225	215	..
150	10	14359	214.0	221	209	..	7	14151	220.3	233	214	..	11	14378	214.8	221	209	..
125	5	15477	207.4	215	204	..	6	15328	216.2	235	210	..	11	15515	208.7	216	202	..
100	..	..	..	..	..	..	..	..	..	..	..	..	9	16880	204.2	211	194	..
80	..	..	..	..	..	..	..	..	..	..	..		5	18296	201.0	206	195	..

Standard Pressure Surface mbs.	CALCUTTA (1001 mb.)						GAUHATI (999 mb.)						JODHPUR (978 mb.)					
Surface	31	06	300.5	302	299	298.5	30	49	299.1	302	297	296.3	30	218	300.7	305	292	283.9
1000	31	16	..	..	..	..	30	39	..	..	..	..	30	20	..	..	..	..
900	31	915	298.1	304	294	288.7	30	961	291.6	298	290	291.7	30	955	301.0	306	297	277.0
850	31	1446	295.9	300	291	285.4	30	1456	292.3	297	288	288.8	30	1459	298.5	303	293	272.8
800	31	1971	292.5	296	287	281.6	30	1976	289.6	294	286	285.4	30	1988	294.6	299	288	271.3
700	31	3106	284.8	288	281	274.9	30	3101	283.0	288	280	278.4	30	3127	286.1	292	283	264.5
600	31	4375	275.8	281	269	267.7	30	4368	275.9	281	272	271.7	30	4400	276.1	279	271	255.9
500	28	5831	268.2	273	261	265.0	30	5826	268.8	275	263	..	29	5852	266.9	273	264	..
400	28	7556	258.9	266	253	..	30	7555	259.3	267	249	..	28	7567	256.6	263	250	..
300	24	9678	245.2	252	235	..	26	9688	246.8	254	235	..	25	9675	243.4	251	237	..
250	20	10963	236.9	243	229	..	22	10992	239.2	247	230	..	19	10948	235.4	243	228	..
200	13	12472	225.4	234	216	..	21	12527	231.2	237	224	..	15	12453	226.6	234	222	..
175	10	13329	218.2	229	207	..	15	13441	226.0	233	218	..	14	13337	222.1	228	218	..
150	7	14341	213.6	226	209	..	9	14438	219.0	223	213	..	11	14309	215.6	222	212	..
125	5	15526	208.0	221	201	..	6	15585	210.7	215	205	..	9	15426	208.1	212	204	..
100	5	16868	202.8	217	193	..	6	16626	205.0	211	199	..	7	16801	203.7	207	198	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1003 mb.)						NAGPUR (968 mb.)						NEW DELHI (977 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	15	301·7	304	299	296·5	31	311	301·8	306	297	286·2	30	210	298·7	304	292	283·7
1000	31	40	..	..	..	..	31	17	..	..	..	..	30	04	..	..	..	..
900	31	970	297·1	301	294	289·5	31	958	302·8	306	299	282·6	30	939	302·7	309	292	279·5
850	31	1469	295·0	298	292	285·4	31	1465	299·6	305	295	278·5	30	1446	299·8	304	294	275·8
800	31	1993	292·2	295	290	281·6	31	1996	295·5	301	291	277·8	30	1976	295·7	299	291	273·9
700	31	3126	284·6	291	281	273·7	31	3137	285·6	290	281	274·3	30	3117	286·2	290	282	267.8
600	31	4396	275·7	281	272	267·7	31	4406	274·5	281	269	267·8	30	4391	276·5	284	272	258·6
500	31	5850	267·8	272	263	..	30	5849	266·3	273	259	..	30	5841	266·1	275	261	..
400	31	7567	257·0	260	253	..	29	7561	257·1	262	252	..	30	7549	256·1	263	250	..
300	29	9675	241·9	249	237	..	29	9665	242·2	247	237	..	29	9656	243·9	253	237	..
250	26	10941	232·2	240	225	..	28	10933	232·6	237	224	..	28	10941	235·7	245	228	..
200	21	12425	220·7	228	214	..	25	12423	221·7	226	217	..	26	12455	227·6	236	219	..
175	19	13260	213·8	221	207	..	22	13269	214·1	220	208	..	26	13336	222·6	231	214	..
150	17	14225	206·9	214	196	..	20	14232	208·0	217	199	..	23	14350	217·4	225	212	..
125	10	15367	202·6	209	195	..	13	15324	203·2	212	197	..	23	15490	211·1	218	205	..
100	5	16727	198·2	201	195	..	11	16659	199·0	211	194	..	21	16856	206·0	213	201	..
80	..	..	..	..	..	..	11	18001	200·0	210	193	..	17	18209	205·0	210	198	..

Standard Pressure Surface mbs.	PORT BLAIR (997 mb.)						TRIVANDRUM (999 mb.)						VERAVAL (1004 mb.)					
Surface	30	79	298·9	301	297	297·7	30	64	298·1	300	295	296·3	31	8	299·3	301	294	295·6
1000	30	56	...	..	..	..	30	60	..	..	..	..	31	40	..	..	..	..
900	30	982	294·9	298	292	291·1	30	984	294·0	296	291	290·4	31	969	297·9	305	291	284·1
850	30	1477	292·3	295	290	287·7	30	1478	291·9	293	289	287·5	31	1470	296·1	301	288	277·8
800	30	1997	289·7	293	287	285·0	30	1997	288·7	291	286	284·3	31	1996	293·6	298	288	276·5
700	30	3124	283·7	288	281	277·5	30	3122	283·4	287	278	278·2	31	3130	285·4	291	279	272·5
600	30	4393	276·2	280	273	269.2	30	4390	276·3	280	272	271·6	31	4401	276·4	281	268	266·0
500	30	5850	268·0	273	265	..	29	5850	268·4	271	265	..	31	5855	267·4	272	261	..
400	30	7575	257·7	263	253	..	29	7563	258·7	262	255	..	31	7569	256·3	264	246	..
300	26	9700	244·3	251	240	..	29	9693	243·9	249	239	..	29	9680	242·7	253	234	..
250	25	10987	235·0	242	228	..	29	10969	235·8	239	227	..	28	10948	233·4	245	226	..
200	21	12494	224·0	239	216	..	29	12460	222·1	231	216	..	25	12451	223·6	236	214	..
175	15	13369	218·3	235	206	..	27	13299	214·4	223	209	..	20	13331	218·5	230	213	..
150	13	14378	213·5	230	201	..	26	14269	207·1	215	202	..	17	14297	212·4	219	205	..
125	12	15492	207·0	226	194	..	19	15372	202.5	211	196	..	15	15392	206·1	220	196	..
100	9	16874	204·7	222	196	..	12	16709	198·8	207	191	..	11	16790	203·3	216	197	..
80	6	18151	203·2	217	193	..	8	18011	199.0	204	194	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (998 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	301.6	303	299	297.8
1000	31	31	..	..	..	..
900	31	966	298.8	302	293	288.9
850	31	1470	297.5	301	291	283.3
800	31	2000	294.6	298	289	280·8
700	31	3141	285.6	291	281	275.3
600	31	4414	276.0	280	274	269.0
500	31	5867	266.9	271	263	..
400	31	7582	257.1	263	252	..
300	25	9701	243.5	251	235	..
250	20	10978	233.8	241	226	..
200	19	12470	221.2	233	212	..
175	15	13334	213.9	225	208	..
150	14	14279	206.6	216	202	..
125	13	15343	200.8	210	195	..
100	10	16657	196.1	200	191	..
80	5	17965	199.2	204	196	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G.M.T.

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (987 mb.)						AMRITSAR (975 mb.)						BOMBAY (1002 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	27	98	313.5	317	309	283.7	18	230	310.1	314	305	285.1	31	13	305.3	309	303	296.3
1000	27	—24	..	..	..	..	18	2	..	..	..	..	31	30	..	..	..	..
900	27	937	306.2	310	301	278.3	18	957	305.0	309	297	276.9	31	969	300.2	307	295	288.0
850	27	1448	302.1	306	298	273.2	18	1464	300.3	308	292	274.5	31	1473	297.7	307	293	283.9
800	27	1981	297.3	302	293	270.8	18	2000	295.9	305	288	272.2	31	2002	294.9	302	290	280.5
700	27	3127	288.0	293	283	264.0	18	3135	283.9	293	275	262.1	31	3145	287·4	291	283	274.9
600	27	4407	278.4	283	274	249.2	18	4407	276.2	282	270	249.7	31	4427	278.9	284	274	269.1
500	27	5870	269.2	273	262	..	18	5859	266.4	271	261	..	31	5898	270.7	275	265	256.8
400	27	7598	258.9	265	253	..	18	7562	254.5	262	249	..	31	7638	260.7	266	254	..
300	26	9719	245.2	251	239	..	16	9639	240.3	249	235	..	27	9777	247.1	255	241	..
250	24	11006	237.0	243	230	..	14	10897	233.4	242	229	..	24	11079	238.4	250	231	..
200	21	12526	226.9	234	222	..	10	12415	227.4	234	220	..	20	12585	227·7	232	223	..
175	20	13417	221.7	229	216	..	9	13308	222.8	227	214	..	20	13464	221·3	226	212	..
150	16	14413	216.3	222	212	..	9	14300	217·7	223	210	..	18	14450	214.9	221	208	..
125	14	15547	210.5	215	203	..	8	15462	213·0	216	209	..	14	15607	209·6	219	199	..
100	9	16884	202.8	209	193	..	7	16856	208·3	212	204	..	10	16961	203.8	210	191	
80													8	18304	203.7	210	197	

	CALCUTTA (999 mb.)						GAUHATI (995 mb.)						JODHPUR (976 mb.)					
Surface	31	6	304.7	309	298	297·8	31	49	303.4	309	297	297.8	28	218	313.9	319	310	284.0
1000	31	—1	..	..	..	..	31	3	..	..	..	..	28	—10	..	..	..	..
900	31	937	299.5	307	295	290·6	31	939	298.5	305	291	293.1	28	995	307.3	312	303	275.9
850	31	1440	297.0	303	293	285·4	31	1439	295.5	301	289	289.5	28	1468	302.7	306	298	273.9
800	31	1967	293.7	299	288	282.8	31	1970	291.9	297	285	286.5	28	2007	298.0	303	293	272.9
700	31	3107	285.7	290	281	274.3	31	3096	284·8	288	279	278.6	28	3155	288.8	293	284	266.4
600	31	4382	277.4	281	271	266.6	31	4369	277.4	283	270	271.4	28	4441	279·4	284	275	256.4
500	31	5847	269.6	275	263	..	31	5832	269.6	276	263	..	27	5909	269·9	276	264	..
400	31	7582	260.5	266	251	..	31	7565	260.0	267	249	..	27	7641	259.4	269	252	..
300	22	9727	247.6	255	240	..	21	9705	247.1	253	238	..	24	9773	245.9	254	237	..
250	18	11019	237.8	243	233	..	16	10993	238.6	243	230	..	19	11065	238.4	246	229	..
200	15	12530	226.6	233	221	..	14	12524	229.4	237	221	..	13	12558	227.9	235	222	..
175	13	13391	220.1	226	215	..	8	13467	224.0	227	220	..	12	13475	222.3	229	217	..
150	12	14383	214.4	223	208	..							10	14490	217.2	223	212	..
125	7	15484	208.4	223	202	..							5	15578	210.6	216	209	..
100	7	16833	203.3	221	193	..												
80																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1001 mb.)						NAGPUR (964 mb.)						NEW DELHI (975 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max	Min	Dew point
Surface	31	15	305.5	312	302	297.2	30	311	313.2	316	307	285.6	31	210	311.9	316	306	285.2
1000	31	22	..	..	..	..	30	—23	..	..	..	..	31	—19	..	..	..	..
900	31	963	300.0	305	297	289.3	30	943	307.9	315	299	282.5	31	940	306.5	312	301	278.5
850	31	1466	296.5	301	293	287.3	30	1458	303.6	310	297	279.6	31	1452	302.4	308	297	275.9
800	31	1993	293.1	298	288	284.0	30	1994	298.1	302	292	278.8	31	1986	297.7	303	292	273.7
700	31	3130	285.6	289	281	276.3	30	3145	287.1	293	284	275.1	31	1333	287.8	292	284	269.0
600	31	4404	277.3	281	273	268.7	30	4422	276.0	282	273	269.0	31	4411	277.1	281	274	259.4
500	31	5864	268.4	273	264	..	30	5874	267.7	271	264	..	31	5863	267.3	273	263	..
400	31	7586	257.9	263	252	..	30	7595	257.4	261	253	..	31	7579	256.6	263	251	..
300	29	9704	243.4	249	239	..	29	9712	243.2	249	239	..	30	9690	243.7	250	235	..
250	28	10977	233.5	241	224	..	27	10987	234.0	239	229	..	29	10969	235.6	245	225	..
200	23	12469	221.2	233	212	..	27	12482	222.3	232	217	..	28	12480	226.5	233	217	..
175	21	13305	214.7	225	206	..	23	13335	215.0	218	211	..	28	13356	221.3	227	212	..
150	17	14261	208.3	216	201	..	20	14292	208.4	213	202	..	28	14343	215.7	221	208	..
125	11	15335	202.9	210	198	..	19	15374	202.1	208	197	..	26	15484	209.9	215	203	..
100	7	16660	201.9	212	195	..	18	16695	197.1	204	192	..	24	16831	204.7	212	199	..
80						..	16	18018	199.2	205	192	..	21	18179	203.4	209	198	..

	PORT BLAIR (997 mb.)						TRIVANDRUM (999 mb.)						VERAVAL (1003 mb.)					
Surface	31	79	300.8	304	296	297.7	30	64	300.1	305	296	297.4	31	8	303.3	305	301	299.6
1000	31	49	..	..	..	..	30	54	..	..	..	..	31	38	..	..	..	..
900	31	976	295.3	297	293	292.1	30	982	295.0	298	293	290.5	31	375	300·2	310	294	283.3
850	31	1471	292.8	296	289	288.9	30	1477	292.0	295	290	287.8	31	1478	297.5	306	291	278.4
800	31	1992	290.0	293	287	285.5	30	1998	289.4	291	287	284.6	31	2005	294.3	300	289	277.1
700	31	3120	284.2	292	281	278.5	30	3125	284.1	283	274	278.8	31	3144	286.4	290	283	273.4
600	31	4391	277.0	280	273	271.7	30	4397	277.1	281	274	272.0	31	4418	277.3	282	274	265.3
500	31	5852	269.5	277	265	..	30	5858	269.2	273	266	..	31	5877	268.5	273	263	..
400	30	7581	258.0	265	251	..	30	7587	259.3	268	253	..	31	7599	257.6	264	253	..
300	27	9707	244.9	252	238	..	30	9710	244.2	249	239	..	30	9718	243.9	249	238	..
250	25	10983	235.5	242	227	..	30	10985	233.9	242	226	..	27	10999	235.2	241	229	..
200	14	12484	222.9	233	215	..	30	12478	221.5	228	212	..	25	12498	224.9	234	217	..
175	12	13333	216.7	227	208	..	29	13317	214.6	224	203	..	23	13357	219.2	230	210	..
150	11	14315	210.0	221	200	..	28	14295	208.2	217	195	..	21	14332	212.0	222	202	..
125	8	15434	205·9	211	198	..	25	15375	202.5	212	194	..	16	15471	205.9	214	198	..
100						..	20	16696	198.3	206	193	..	11	16827	200.1	209	192	..
80						..	14	18011	199.4	208	193	..	8	18109	200.7	206	192	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G.M.T.

May 1960 (Vaisakha 11—Jyaistha 10, 1882 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (996 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	304.2	306	302	299.2
1000	31	- 15	..	..	..	..
900	31	956	300.8	305	297	290.7
850	31	1463	299.0	303	294	285.3
800	31	1998	295.5	301	291	281.7
700	31	3140	286.9	293	283	276.4
600	31	4418	276.9	283	270	269.7
500	31	5878	269.0	275	265	..
400	31	7606	258.9	265	253	..
300	28	9725	243.6	252	239	..
250	27	11003	233.4	241	228	..
200	24	12496	222.0	230	213	..
175	21	12346	214.7	223	206	..
150	19	14316	208.2	217	198	..
125	15	15409	202.5	210	193	..
100	12	16754	197.3	204	191	..
80	6	18148	202.7	214	195	..

NOTE.—Number of observations refer to those of dynamic height.

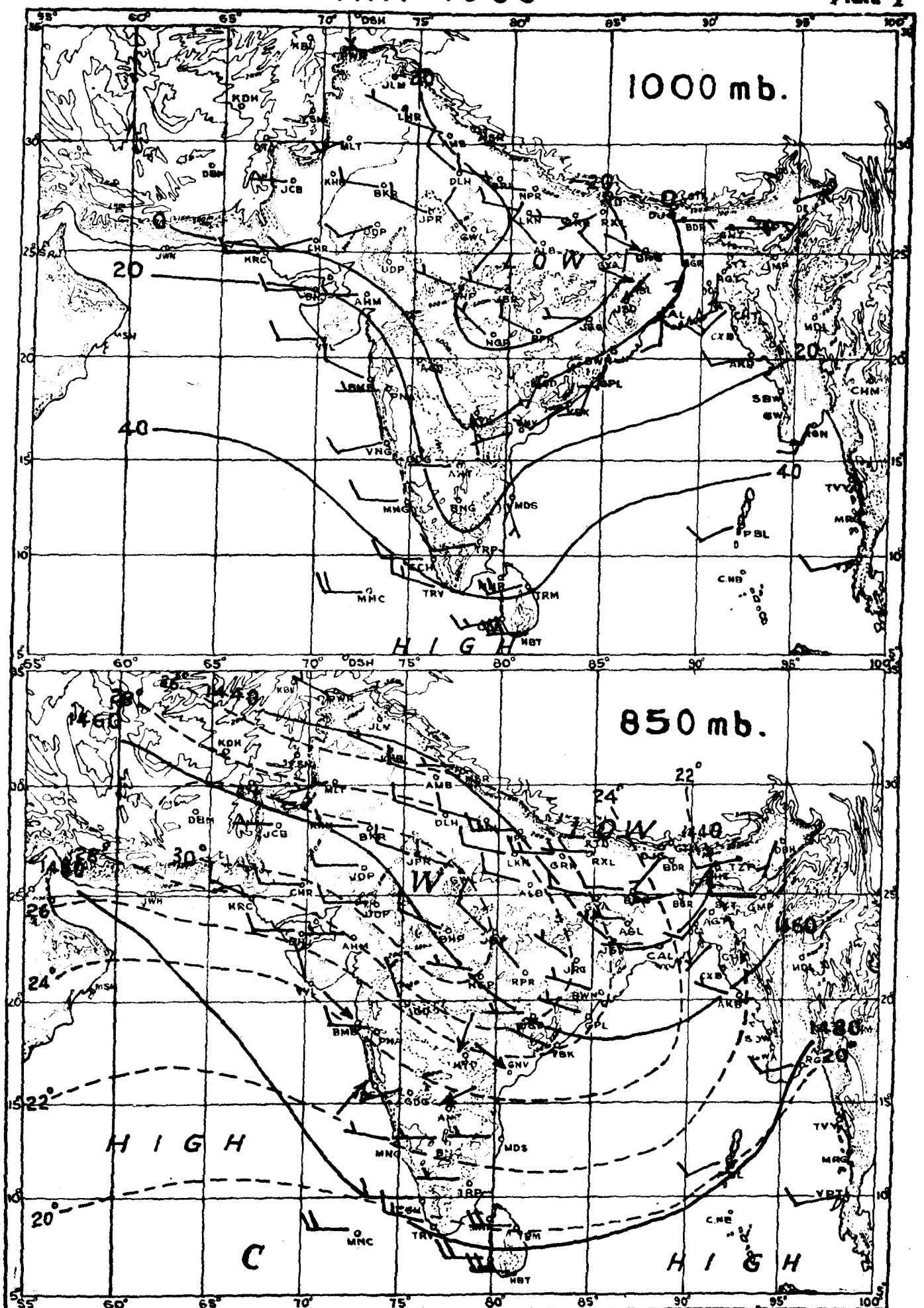
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

Means are not worked out for less than five observations at standard pressure surfaces.

GIPN —S5—22 D. D. G. Obs. (Poona)/61—28-4-65—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

MAY 1960



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

-------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

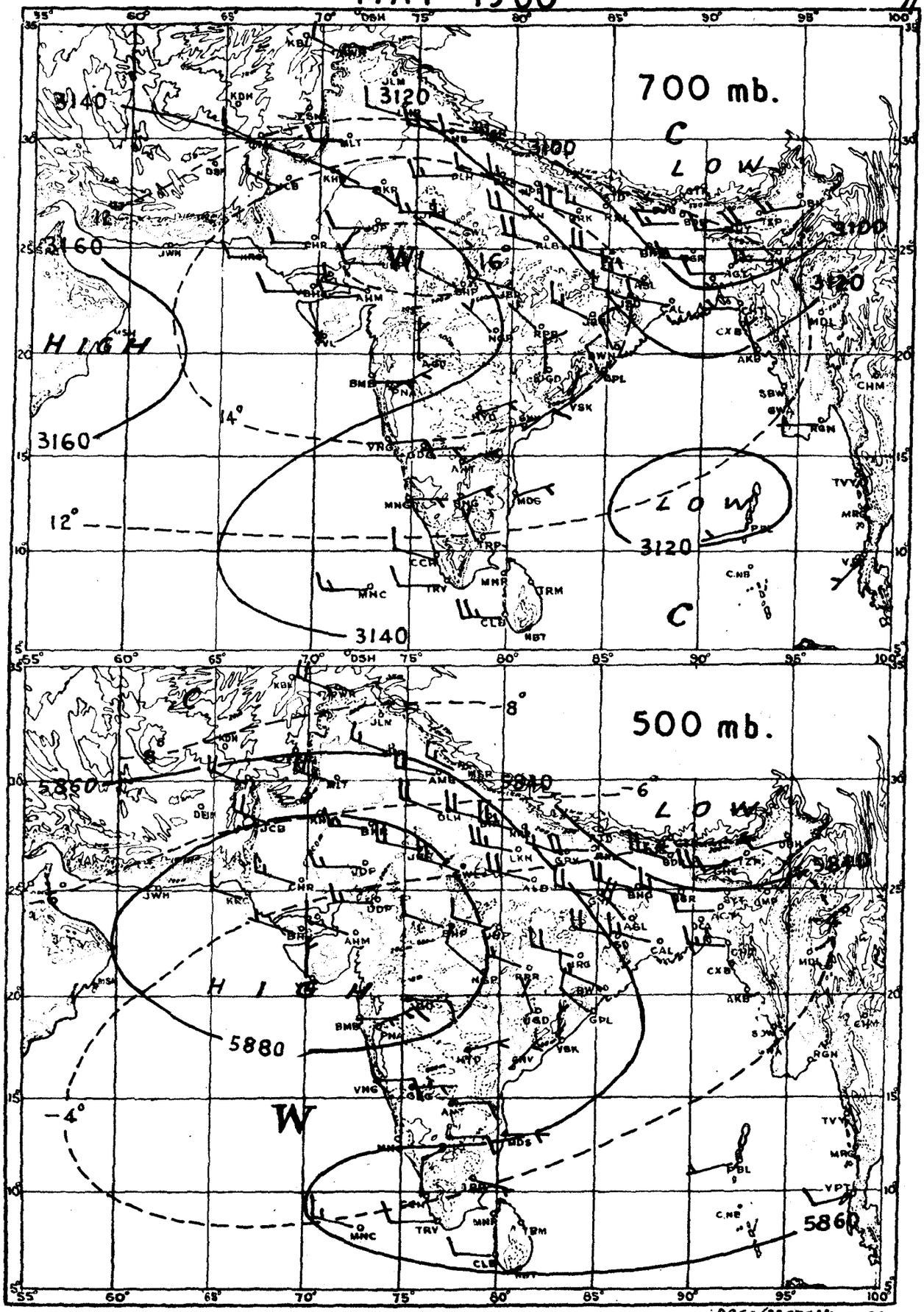
G.P.P. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

MAY 1960

Plate II



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

-------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

G.P.Z.P. POONA, 1963

Registered No. B-3097

INDIA WEATHER REVIEW, 1960

Monthly Weather Report

June

Published by authority of the Government of India

Chief features—

Extension of the southwest monsoon into the different parts of the country about the normal dates and sustained activity over most of the country during the last three weeks of the month.

The Bay branch of the monsoon as well as the Arabian Sea branch of the monsoon both remained feeble during the first six days of the month. The Bay branch which had temporarily advanced into Gangetic West Bengal on 28th May and into Assam on 29th May receded temporarily.

A general revival of the monsoon activity took place on 7th June and this activity was maintained more or less throughout the rest of the month. The Arabian Sea branch advanced into the South Konkan on 8th, North Konkan on 13th and South Gujarat State on 14th; into south Madhya Pradesh on 16th, Orissa on 17th and north Gujarat State on 19th. The Bay branch of the monsoon established itself over lower Assam on 10th, upper Assam and Sub-Himalayan West Bengal on 13th and over Gangetic West Bengal and Bihar State on 17th.

A low pressure area developed over the head Bay of Bengal on 20th. Moving in a westerly direction, it was over southwest Madhya Pradesh and neighbourhood on 23rd and became unimportant thereafter. Under its influence, monsoon advanced into east Uttar Pradesh and north Madhya Pradesh on 22nd and into west Uttar Pradesh and southeast Rajasthan on 23rd. The monsoon was vigorous over the Konkan and adjoining south Gujarat State on 23rd. Under the influence of a westerly trough which moved across West Pakistan on 27th and 28th, the monsoon advanced into northeast Rajasthan, the Punjab (I) and Himachal Pradesh on 27th. An upper air cyclonic circulation over Gujarat State brought about the on set of monsoon in west Rajasthan and a strengthening of the monsoon over Saurashtra and Kutch on 29th. On the last day of the month, a depression had just formed in the head Bay of Bengal.

During this month, active or vigorous monsoon conditions prevailed along the west coast from 12th to 14th and again from 26th to 29th. A few noteworthy amounts of rainfall along the west coast were: Harnai 28 cm, Ratnagiri 26 cm and Karwar 21 cm on 13th; Ratnagiri 20 cm on 14th and Dahanu 38 cm and Bombay (Colaba) 24 cm on 28th. In Assam, Cherrapunji reported 31 cm. on 12th and 27 cm on 15th.

Day temperatures were above normal over the region extending from Orissa and West Bengal to the Punjab (I) during the first half of June. They were appreciably to markedly above normal over Uttar Pradesh, north Madhya Pradesh and Bihar State on a number of days during this period when according to press reports, about one hundred deaths occurred due to heat strokes in that area.

The rainfall for the month was in large excess in the Punjab (I), Saurashtra and Kutch and the Konkan, in moderate excess in east Gujarat State, in slight excess in east Rajasthan, Deccan (including Marathwada), Vidarbha and Telangana. It was in slight defect in west Rajasthan, Madhya Pradesh, coastal and south Interior Mysore and Kerala, in moderate defect in Sub-Himalayan West Bengal, Bihar Plateau, west Uttar Pradesh, Rayalaseema and the Arabian Sea Islands and in large defect in Gangetic West Bengal, Bihar Plains, east Uttar Pradesh and Jammu & Kashmir. The rainfall during the month was normal over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Bihar State, Uttar Pradesh, the Punjab (I) and east Madhya Pradesh and normal over the rest of the county outside Himachal Pradesh. The mean minimum temperature was above normal in east Uttar Pradesh, below normal in Vidarbha and normal over the rest of the country outside Himachal Pradesh.

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1 --23 D.D.G. Obs. P/64

The mean relative humidity in the morning was above normal in Saurashtra and Kutch, Vidarbha and Rayalaseema, below normal in Jammu and Kashmir & normal over rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in the Madras State and north Interior Mysore, below normal in west Uttar Pradesh & Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, relative humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column. Similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,

The 31st March, 1961.

R. ANANTHAKRISHNAN,

for *Director General of Observatories.*

Errata to M.W.R. for June 1960, (Jyaistha 11 - Asadha 9, 1882 Saka)

Page No.	Station	Hour	Column	For	Read
Table I - Division					
287	13. Mysore		7	26	66
Table II					
288	Dibrugarh (Mohanbari Aerodrome)		18	2.6(e)	2.6 (c)
288	Sibsagar		15	24	15
288	Silchar		12	-5.1	-52.1
288	Jalpaiguri		3	+0.9	-0.9
288	Krishnagar		17	5.0(c)	5.9(c)
288	(Foot Note)		-	(e) Mean of 28 days.	(c) Mean of 28 days.
290	Lucknow (Amausi Aerodrome)		7	+0.4	-0.4
290	Meerut		16	+1.1	-1.1
290	Hissar		3	+1.0	+1.9
290	Gulmarg		3	(Not clear)	+0.7
290	Sonemarg		11	(Not clear)	0.9
290	Leh		8	9.5	3.5
290	Jammu (Aerodrome)		10	(Not clear)	2.3
291	Jodhpur		11	88.5	38.5
291	Pilani		10	28.2	26.2
291	Sikar		11	81.4	41.4
291	Tonk		20(a)	1	0
291	Pendra		3	-2.4	+2.4
291	Baroda (Aerodrome)		6	(Not clear)	26.7
291	Broach		8	(Not clear)	24.2
291	(Foot Note)		-	(Not given)	(c) Mean of 28 days.
292	Surat		10	190.4	190.8
292	Jamnagar		11	(Not clear)	166.8
292	Rajkot (Aerodrome)		7	(Not clear)	-0.4
292	Ratnagiri		10	(Not clear)	1319.1
292	Khandala		11	872.46	872.6
292	Parbhani		13	25.5	25.4
292	Poona		5	-6	6
292	Poona		7	+0.4	-0.4
292	Nagpur		18	14.9	14.9 (c)
292	Gondia		18	7.2 (c)	7.2
293	Visakhapatam		3	-1.1	+1.1
293	Ramagundam		17	3.9	9.3
293	Palayamcottai		2	25.1	35.7
294	Cochin (Naval Air Station)		4	89.9	31.9
294	Cochin (Naval Air Station)		28	1	0
294	Trivandrum		2	31.8	29.8
294	Trivandrum		3	-0.3	+0.3
294	Kalimpong		3	-2.9	+2.9
294	Abu		3	-0.6	+0.6
296	Taplethok		8	16.6	16.9
296	Taplethok		15	34	24
Table III					
297	Sibsagar	0830	21	(Blank)	1
297	Sibsagar	0830	28	(Blank)	0
297	Jorhat	2330	4	1010.8	1000.8
297	Jorhat	2330	7	28.1	26.2
297	Golaghat	0830	7	28.4	28.1
298	Haflong	1730	4	908.1	998.1

Contd.2

Page No.	Station	Hour	Column	For	Read
299	Asansol	0230	4	998.8	998.7
299	Asansol	1730	4	996.9	996.6
301	Gorakhpur (P.B.O)	0530	20	4	14
302	Hardoi	0830	21	4	8
302	Agra (Aerodrome)	1730	13	2.0	4.0
303	Patiala	1730	8	24.4	24.5
303	Ambala	0830	12	+1.3	+3
303	Ambala (Aerodrome)	1730	11	28	27
303	Chandigarh	0830	15	3.1	3.6
303	Ludhiana	0830	14	+0.2	-0.2
303	Amritsar	0530	15	14.5	5.8
303	Srinagar	0830	12	+16	-16
303	Srinagar	0830	14	-16	-0.6
305	Jaipur (Sanganer Aerodrome)	0830	12	(Blank)	+11
305	Jaipur (Sanganer Aerodrome)	0830	14	+14	--
306	Jagdalpur	0830	27	16	11
307	Surat	2330	8	20.0	26.0
308	Dahanu	0830	6	+0.7	+0.8
308	Vengurla	1730	8	25.8	25.7
309	Amravati	1730	25	2	1
310	Nellore	0830	5	1000.6	1002.6
310	Rentachintala	0830	11	50	59
310	Gannavaram	0830	20	0	1
310	Kakinada	0830	12	2	-2
310	Visakhapatnam	0530	19	1	0
310	Visakhapatnam	0830	12	12	-12
310	Khammameth	1730	13	(Blank)	12.2
311	Nagapattinam	0830	2	1730	0830
311	Nagapattinam	1730	2	0830	1730
311	Tiruchirapalli	0230	7	27.4	27.9
311	Tiruchirapalli	2330	5	996.4	996.3
311	Coimbatore (Peelamedu) (Aerodrome)	2330	27	3	0
311	Salem	0530	27	0	3
311	Salem	1130	8	22.4	23.4
311	Cuddalore	2330	10	26.7	30.7
312	Balehonnur	0830	8	(Not clear)	19.7
313	Bangalore (Central Observatory)	1730	14	-1.3	..
313	Trivandrum	0530	4	1003.6	1008.6
314	Mercara	0830	5	884.4	884.6
314	Ootacamund	0830	11	84	85
315	Ramgarh	1730	27	3	8
316	Barahkhetra	0830	10	36.8	30.6

Contd.3

Page No.	S t a t i o n	Time in I.S.T	Height in Km.	Entry under Column	Existing entry	Correct entry
Table IV						
317	First para, 2nd line		-	-	42	43
317	First para, 3rd line		-	-	12	11
318	Bamrauli	1730	-	Approximate time of flights	1730	1730*
318	Bamrauli	2330	-	-do-	2330*	2330
319	Ambala	1730	7.2	D	30	300
320	Ambala	-	0.3	Ht. in Km.	a.s.l.	a.m.s.l.
324	Dum Dum	0530*	7.2	D	1.8	148
324	Dum Dum	0530*	9.0	D	153	135
326	Imphal	2330	3.6	V	5.4	5.2
327	Jabalpur	1730	3.6	V	9.5	9.0
327	Jamshedpur	1130	0.3	D	224	244
328	Jharsuguda	1730	0.3	V	4.5	4.4
328	Jodhpur	0530	2.1	v	6.9	1.7
332	Trivandrum	2330	5.4	D	083	003
334	Bamrauli	1730*	12.0	V	00	8
334	Bamrauli	1730*	16.2	Ht. in Km.	16.0	16.2
334	Bangalore	0530	-	Time of ascent	530	0530
334	Gopalpur	0530	10.5	v	5.6	5.7
335	Tiruchirapalli	1730	12.0	Ht. in Km.	12.1	12.0

<u>RADIOSONDE DATA</u>

338	Nagpur	00 GMT	Surface Pr.	1008	966
339	Allahabad	12 GMT	1000 mb. No.of Obs.	92	29

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<u>SG.14-9</u>

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	380·8	90	31·7	25·0	86	79	6·4	5·0
	−40·7		+0·4	+0·6	+2		+0·1	
2. West Bengal	168·0	47	34·2	26·8	79	73	5·2	4·8
	−186·8		+0·6	+0·2	0		−0·4	
3. Orissa	199·1	92	35·0	26·9	75	72	5·9	6·1
	−16·5		+0·8	+0·3	0		+0·6	
4. Bihar	98·4	52	36·6	26·9	68	58	4·7	4·5
	−91·5		+1·4	+0·8	−3		−0·1	
5. Uttar Pradesh	49·3	41	40·6	28·4	53	37	2·7	3·2
	−69·8		+2·2	+1·0	−5		−0·5	
6. Punjab (India) (Including Delhi)*	83·3	152	41·7	28·1	49	29	1·7	2·0
	+28·5		+1·4	+0·3	+1		−0·4	
7. Jammu and Kashmir.	17·3	39	24·1	9·0	46	35	2·1	3·7
	−26·9		+0·3	−0·4	−16		−0·6	
Division—*contd.*								
8. Rajasthan	58·7	103	40·1	27·7	58	35	2·0	2·9
	+2·0		+0·6	+0·1	+2		−0·2	
9. Madhya Pradesh	132·8	79	37·9	26·4	62	47	4·5	5·7
	−36·2		+1·2	+0·5	+2		+0·3	
10. Maharashtra	387·2	164	34·1	25·0	79	64	5·3	5·4
	+151·5		−0·2	−0·5	+5		+0·8	
11. Andhra Pradesh	98·7	99	35·9	26·4	68	56	5·7	6·3
	−0·5		−0·3	−0·2	+1		+0·3	
12. Madras State	40·9	103	35·7	26·0	65	55	5·3	6·1
	+1·2		+0·2	+0·3	−1		+1·0	
13. Mysore	231·5	79	30·5	22·1	82	26	6·5	6·6
	−61·3		−0·3	+0·4	+4		+0·8	
14. Kerala	517·5	82	29·6	23·8	89	81	6·7	7·0
	+115·3		+0·4	−0·1	+2		+0·1	
Sub-Division								
1. Bay Islands	545·8	99	29·4	24·3	85	89	7·0	6·9
	−6·7		+0·3	+0·4	+3		+0·3	
2. Assam (Including Manipur, Tripura)	380·8	90	31·7	25·0	86	79	6·4	5·0
	−40·7		+0·4	+0·6	+2		+0·1	
3. Sub-Himalayan West Bengal.	302·8	51	32·3	25·5	83	73	5·7	4·7
	−286·1		+0·1	+0·5	−1		+0·9	
4. Gangetic West Bengal.	117·4	44	34·8	27·2	78	73	5·0	4·9
	−149·6		+0·7	+1·0	0		−0·8	
5. Orissa	199·1	92	35·0	26·9	75	72	5·9	6·1
	−16·5		+0·8	+0·3	0		+0·6	
6. Bihar Plateau	112·8	56	37·3	26·9	63	54	5·0	5·7
	−88·6		+1·6	+0·8	−4		+0·1	
7. Bihar Plains	89·5	49	36·0	26·9	72	62	4·5	3·5
	−93·3		+1·2	+0·8	−1		−0·3	
8. Uttar Pradesh (East).	32·1	26	40·7	29·1	56	41	3·1	3·5
	−90·7		+2·5	+1·5	−5		−0·3	
9. Uttar Pradesh (West).	66·4	58	40·4	27·7	51	33	2·3	3·0
	−48·9		+1·9	+0·5	−5		−0·6	
10. Punjab (India) (Including Delhi).	83·3	152	41·7	28·1	49	29	1·7	2·0
	+28·5		+1·4	+0·3	+1		−0·4	
11. Himachal Pradesh.	108·1	..	38·3	20·7	48	34	1·9	3·0
	..		..	..	..		..	
12. Jammu and Kashmir.	17·3	39	24·1	9·0	46	35	2·1	3·7
	−26·9		+0·3	−0·4	−16		−0·6	
13. Rajasthan (West)	29·7	77	41·5	28·0	59	27	1·7	1·8
	−9·1		+0·9	+0·1	+2		−0·3	
14. Rajasthan (East)	87·6	117	38·9	27·5	57	42	2·3	3·9
	+13·0		+0·3	0	+3		−0·2	
15. Madhya Pradesh (West).	106·7	75	38·2	26·5	62	44	4·2	5·2
	−36·4		+0·8	+0·4	+1		+0·4	
Sub-Division—*contd.*								
16. Madhya Pradesh (East).	170·0	83	37·5	26·2	63	52	5·0	6·3
	−35·9		+1·8	+0·5	+3		+0·3	
17. Gujarat	211·7	150	36·0	26·3	75	55	5·1	4·0
	+70·6		−0·3	−0·3	−1		0	
18. Saurashtra and Kutch.	155·3	197	35·7	26·5	79	68	4·0	4·2
	+76·5		−0·2	−0·3	+6		+0·1	
19. Konkan	1039·8	200	30·9	25·4	86	81	6·7	6·3
	+520·9		−0·1	−0·5	+5		+0·6	
20. Maharashtra (Including Marathwada).	211·4	111	32·9	22·7	78	62	5·4	6·2
	+21·3		−0·2	−0·1	+5		+0·2	
21. Vidarbha	207·9	113	36·9	24·7	71	52	5·5	6·4
	+24·0		−0·5	−1·5	+10		+0·8	
22. Coastal Andhra Pradesh.	98·7	103	36·3	27·4	68	59	5·8	6·5
	+2·9		0	−0·2	−1		+0·1	
23. Telangana	157·2	114	35·0	24·8	69	51	5·7	6·1
	+19·8		−0·5	−0·3	+3		+0·7	
24. Rayalaseema	40·1	59	35·9	25·3	63	51	5·3	6·2
	−27·7		−1·0	0	+6		+0·1	
25. Madras State	40·9	103	35·7	26·0	65	55	5·3	6·1
	+1·2		+0·2	+0·3	−1		+1·0	
26. Coastal Mysore	739·4	75	30·1	23·9	89	82	7·5	7·3
	−244·8		+0·8	−0·1	+1		+0·7	
27. Interior Mysore (North).	113·3	102	32·4	22·7	79	61	6·3	6·6
	+1·7		−0·3	+0·3	+4		+1·3	
28. Interior Mysore (South).	95·7	75	28·8	21·0	84	65	6·2	6·3
	−32·5		−0·5	+0·5	+5		+0·2	
29. Kerala	517·5	82	29·6	23·8	89	81	6·7	7·0
	+115·3		+0·4	−0·1	+2		+0·1	
30. Arabian Sea Islands.	176·8	53	31·0	25·5	77	76	5·1	6·4
	−154·7		+0·7	+0·3	−5		−0·9	

NOTE—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	29·8	..	32·7	16	24·5	..	22·7	23, 24	403·6	689·2	..	212·0	7	20	..	16·5	12·3	..	0	25	0	0	6	0	0	0	0	0	0
Long Island	30·4	..	32·8	11	24·4	..	21·9	8	312·0	642·1	..	116·0	6	21	..	3·2	2·4	..	0	24	0	0	2	0	0	0	0	0	0
Port Blair	29·4	+0·3	32·2	14	24·3	+0·4	21·6	23	46·7	545·8	−6·7	75·2	24	22	+0·5	21·2	16·4	−5·6	0	25	0	0	4	0	0	0	0	0	0
Car Nicobar	29·9	..	31·5	13	24·4	..	22·2	7	138·0	394·1	..	71·6	20	16	..	9·1	6·7	..	0	21	0	0	8	0	0	0	0	0	0
Nancowry	29·7	..	30·6	4 days	25·1	..	22·4	19	62·1	212·5	..	54·4	25	13	..	..	..	..	1	16	0	0	2	0	0	0	0	0	0
Kondul	29·3	..	30·6	8,9,16	24·9	..	22·2	23	115·8	338·8	..	80·2	23	16	..	13·7	11·9	..	0	24	0	0	6	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	30·0 (k)	..	36·1	9	23·3 (k)	..	21·7	13	208·1 (k)	653·9 (k)	..	104·4	13	19	..	5·8	7·3	..	2	23	0	0	1	0	0	0	0	0	0
Digboi	30·7	..	..	..	24·2	..	..	..	86·4	214·8	..	..	..	..	..	..	..	..	..	18	0	0	0	0	0	0	0	0	0
Dibrugarh	30·7	+0·1	37·0	9	23·9	+0·5	21·7	1	83·1	419·8	−79·8	70·7	13	18	−1·6	2·9 (b)	2·3 (c)	+0·4	0	20	0	0	1	0	0	0	0	0	0
Dibrugarh (Mohanbari Aerodrome)	30·7	..	36·1	9	24·0	..	22·1	1	116·3	379·8	..	48·0	13	17	..	3·7	2·6	..	2	21	0	0	9	0	0	0	0	0	0
North Lakhimpur	30·7	..	35·7	10	24·0	..	22·7	1	93·4	680·1	..	83·2	13	21	..	..	..	..	1	24	0	0	10	0	0	0	0	0	0
Sibsagar	31·9	+0·5	36·3	9	25·1	+0·6	22·9	1	119·2	402·7	+18·4	70·2	24	15	−2·1	6·7	4·7	+1·2	0	23	0	0	0	0	0	0	0	0	0
Jorhat	31·5	..	35·4	10	24·4	..	21·9	15	128·8	457·4	..	99·9	15	18	..	..	..	..	0	20	0	0	9	0	0	0	0	0	0
Golaghat	32·2	..	36·7	9	24·8	..	22·2	15	55·2	301·6	..	71·6	15	13	..	..	..	..	0	19	0	0	0	0	0	0	0	0	0
Gohpur (R)		..				..					..				..														
Tezpur	31·7	+0·3	35·8	9	25·3	+0·6	22·8	1,15	28·8	342·4	+34·0	78·0	21	14	−2·0	5·1	5·0	+1·9	1	24	0	0	5	0	0	0	0	0	0
Tezpur (P.B.O.)	31·7	..	35·5	9	24·9	..	22·9	1	29·8	324·7	..	75·7	21	16	..	..	..	..	3	23	0	0	16	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	30·0	455·8	..	97·8	21	17	..	7·2	4·4	..	0	20	0	0	10	0	0	0	0	0	0
Chaparmukh	32·9	..	36·9	9	25.5	..	23.6	5	118·0	285·6	..	45.0	30	13	..	..	..	..	2	15	0	0	14	0	0	0	0	0	0
Tangla	31.9	..	36·6	9, 10	24·8	..	22·2	4	69·1	405·3	..	105·6	15	13	..	3·7	1·5	..	0	14	0	0	0	0	0	0	0	0	0
Gauhati	32·1	+0·5	36·2	9	25·7	+1·0	22·3	4,8	36·4	224·3	−88·1	60·2	19	12	−2·7	1·1	1·1	−1·2	0	13	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor Aerodrome)	31·9	..	34·5	9	25·4	..	22·3	4	106·6	180·9	..	92·8	15	12	..	7·3	4·8	.	2	20	0	0	17	0	0	0	0	0	0
Rangiya	32·6	..	35.8	9	23·8	..	20·6	16	86·0	416·5	..	135.3	13	12		..	..	..	0	14	0	0	0	0	0	0	0	0	0
Goalpara	32·4	..	35·2	5	23·6	..	19·8	4	117·8	295·0	..	84·5	15	15	..	..	..	..	0	16	0	0	0	0	0	0	0	0	0
Dhubri	30·9	+1·1	36·9	3	25·2	+0·7	20·2	4	44·2	491·4	−121·0	124·4	15	16	−2.1	4·5	4·0	−2·9	0	19	0	0	0	0	0	0	0	0	0
Dhubri (Rupsi Aerodrome)	31.9	..	35·2	10	24.5	..	20·4	4	32·6	392·4	..	94·9	15	15	..	6·0	4·3	..	0	18	0	0	14	0	0	0	0	0	0
Tura	29·2	..	34·2	9	20.7	..	18·4	16	76·7	522·2	..	121·0	15	16	..	9·1	2.2	..	0	19	0	0	0	0	0	0	0	0	0
Agartala	32·4	..	34·9	9	25·0	..	21·7	15	84·3	518·2	..	150·7	10	17	..	10·7	9·1	..	1	19	0	0	10	0	0	0	0	0	0
Kailashar	32·3	..	35·6	5, 9	24·6	..	21·5	13	207·6	804·7	..	214·3	14	23	..	5·7	4·6	..	1	25	0	0	23	0	0	0	0	0	0
Silchar	30·9	−0·9	35·1	9	24·7	+0·1	22·4	14, 15	109·8	536·4	−55·1	76·8	20	13	−3·8	−2·2	0	−0.5	0	25	0	0	14	0	0	0	0	0	0
Silchar (Kumbhigram Aerodrome)	31·9	..	36·2	9	24·0	..	21·6	14	41·8	921·8	..	154·0	14	21	..	9·6	6·8	..	1	23	0	0	17	0	0	0	0	4	0
Imphal	29·5	..	33·5	8	21·2	..	18·9	6	72·1	319·8	..	57·4	27	12	..	9·8	6·4	..	1	15	0	0	10	0	0	0	0	0	0
Haflong	28·4	..	31·7	8	21·5	..	17·6	15	196·6	622·5	..	242·8	14	16	..	10·6	10·0	..	0	18	0	0	3	0	0	0	0	0	0
Lumding	33·5	+1·4	37·8	10	24·8	+0·7	23·1	21	40·5	248·5	+3·4	75·0	12	11	−2·7	4·4	3·2	..	0	13	0	0	2	0	0	0	0	0	0
Sub-Himalayan West Bengal																													
Cooch Behar	31·3	..	36.3	10	24·3	..	21·1	1,13	55·4	514·4	−343·9	109·8	3	15	−5·6	5·8	3·7	..	1	20	0	0	20	0	0	0	0	2	0
Jalpaiguri	30·5	+0·9	34·9	10	24·6	+0·3	22·4	13	22·4	314·2	−314·7	126·4	29	14	−5·1	11·3	7·4	+4·0	0	22	0	0	15	0	0	0	0	0	0
Bagdogra	31·5	..	36·0	10	23·9	..	20·4	23	95·0	641·2	..	107·0	25	21	..	13·1	10·5	..	1	22	0	0	23	0	0	0	0	0	0
Malda	34·2	+1·1	38·3	15	26·4	+0·7	21·2	5	10·4	49·8	−199.6	30.8	5	3	8.5	10·6	8·3	−0·4	2	7	0	0	9	0	0	0	0	1	0
Gangetic West Bengal																													
Dum Dum	34·4	..	36·6	7	26·8	..	24·3	22	67·0	77·6	..	19·0	11	10	..	13·4	10·3	..	1	11	0	0	10	0	0	0	0	1	0
Calcutta	34·8	+1·2	37·6	8	27·7	+1·8	25·6	19	58·3	70·0	−226·9	15·0	24	8	−5·2	13·2	8·9	+2·0	0	13	0	0	12	0	0	0	0	0	0
Barrackpore (Aerodrome)	34·9	..	38·1	9	27·1	..	24·9	19	49·6	66·2	..	22·1	21	6	..	..	..	..	0	11	0	0	7	0	0	0	0	1	0
Saugor Island	31·7	−0·3	32·9	7	27·6	+0·4	24·2	13	27·8	172·1	−123·3	42·0	18	10	−2·1	27·9	26·3	+5·1	0	16	0	0	5	0	0	0	0	0	0
Sandheads	31·9	..	32·8	21	27·8	..	24·9	12	74·8	185·5	−14·4	82·0	20	6	−3·4	..	..	..	0	10	0	0	3	0	0	0	0	0	0
Contai	32·2	..	33·9	11	27·3	..	23·7	12	51·5	127·4	..	47·0	23	9	..	18·9	15·1	..	0	12	0	0	0	0	0	0	0	0	0
Midnapore	34·9	+0·3	40·0	13	27·1	+0·9	23·3	7	121·5	141·6	−117·7	44·5	19	9	−3·4	6·7	6·6	+1·1	0	12	0	0	2	0	0	0	0	0	0
Purulia	37·1	..	43·4	15	27·0	..	23·9	19, 27	50·2	97·4	..	35·4	20	6	..	9·8	7·7	..	0	9	0	0	3	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	45·8	−221·7	17·4	6	4	−7·1	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Burdwan	..	..	..	..	27·2	+1·2	24·7	17	3·7	7·7	−259·5	3·9	17	1	−11·4	10·2 (c)	8·3 (c)	+3·3	1	5	0	0	0	0	0	0	0	0	0
Krishnagar	35·5	+1·7	39·0	16	27·2	+1·4	23·9	17	281·5	309·7	+47·3	126·0	17	8	−4·7	5·0	4·5	−3·5	0	15	0	0	4	0	0	0	0	0	0
Asansol	36·7	+0·1	44.8	15	26·9	+0·7	22.1	7	61·2	93·9	−147.6	26·4	19	8	−3·7	10·9	8·8	+0·3	0	10	0	0	12	0	0	0	0	2	0
Suri	35·8	..	41·8	15	26·6	..	24·6	19	87·2	124·4	..	43·0	19	7	..	10·2	9·8	..	0	9	0	0	6	0	0	0	1	0	0

(b) Mean of 29 days (c) Mean of 28 days. (k) Total of Mean of 20 days. (R) Register not received

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days upto (2·5mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—*contd.*																													
Berhampore	35·1	+1·4	38·9	14	26·5	+0·7	24·0	12, 17	58·2	98·4	−147·2	31.5	12	6	−6·3	3·8	2·6	−3·4	0	8	0	0	1	0	3	0	0	0	0
Orissa																													
Baripada	35·0	..	40·3	13	26·5	..	22·5	8	110·6	173·0	..	36·2	20	13	..	4·3	3·1	..	0	15	0	0	13	0	9	0	1	0	0
Balasore	34·7	+0·7	42·0	13	27·2	+1·0	22·8	7	(b) 60·5	160.1	−72·8	83·1	20	9	−2·1	(b) 3·9	8·6	+0·9	0	12	0	0	8	0	0	0	0	0	0
Chandbali	34·8	+0·4	40·0	7 8	26·1	−0·4	23·3	20	108·2	170·9	−51·1	59·5	30	11	−0·3	16·0	13·4	+0·5	0	13	0	0	2	0	0	0	0	0	0
Cuttack	36.5	+1·2	43·7	6	26·8	+0·4	24·4	8, 17	153·6	298·4	+45·7	79·8	30	14	+2·6	8·7	7·4	+2·6	0	17	0	0	7	0	0	0	0	0	0
Bhubaneswar	35·3	..	43·1	6	26·8	..	23.9	20, 8	147·1	167·4	..	41·4	17	12	..	17·9	16·5	..	0	16	0	0	15	0	0	0	0	0	0
Puri	32·1	+0·4	37·5	5	27·6	+0·4	24·5	8	161·8	139·3	−50·2	52·4	30	11	+2.9	23·2	20·6	+1.1	0	14	0	0	4	0	0	0	0	0	0
Gopalpur	32·4	+0·3	34·5	7	27·1	+0·3	24·6	22	38·5	68·6	−70·1	25·3	27	7	−0·6	17·9	16·3	−0·8	3	11	0	0	6	0	0	0	0	0	0
Koraput	29·8	..	36·7	2,4	22·0	..	18·9	21	28·9	262·3	..	48·0	29	14	..	..	..	..	0	14	0	0	0	0	0	0	0	0	0
Titilagarh	35·9	..	44·4	4	25 8	..	21·8	22, 21	62·0	476.8	..	102·0	19	15	..	5·1	4·7	..	0	15	0	0	5	0	0	0	0	0	0
Bolangir	37·1	..	44·7	4	27·2	..	21·6	21	15·6	155.8	..	52·2	21	10	..	11·2	9·8	..	0	14	0	0	0	0	0	0	0	0	0
Phulabani	34.9	..	41·8	4	25·3	..	21·7	20	30·8	123·6	..	44·1	30	7	..	7·2	5·9	..	0	13	0	0	5	0	0	0	0	0	0
Angul	37·2	+1·7	43·4	6	26·9	+0·8	22·2	18	163·8	240·6	+23.7	57·3	15	9	−2·6	12·6	9·9	+1·5	0	11	0	0	13	0	0	0	0	0	0
Keonjhar	35·1	..	40·7	4	25·0	..	22·3	22	100·8	168·7	..	31·0	20	14	..	11·3	8·5	..	0	15	0	0	7	0	0	0	0	0	0
Sambalpur	37·3	+0·9	44·7	4	26·5	−0·4	21·8	19, 20	90·5	315·9	+59·6	68·8	17	9	−1·7	9·0	7·8	+1·4	0	12	0	0	14	0	0	0	0	0	0
Jharsuguda	38·1	..	44·4	4	27.2	..	22·8	20	70·1	260·6	..	68·4	19	8	..	10·7	9·7	..	1	11	0	0	20	0	0	0	0	0	0
Bihar Plateau																													
Jamshedpur	37·4	+1·3	43·9	4	27·7	+1·0	23·4	19	76·7	114·3	−76 4	33·5	19	9	−1·7	12·2	9·9	+2·5	0	11	0	0	8	0	1	0	0	0	0
Jamshedpur (P.B.O.)	37·3	..	43·9	4	27·3	..	22·7	19	74·6	172·3	..	55·8	19	9	..	12·4	9·8	..	0	10	0	0	16	0	0	0	0	1	0
Chaibasa	37·7	+1.6	43·6	6	27·4	+1.2	23·4	12	31·7	122·4	−75·5	54·0	19	6	−4·7	5·9	4·0	−0·3	0	10	0	0	5	0	2	0	0	0	0
Ranchi	35·7	+2·4	41·6	3	23·8	−0·3	16·5	21	32·8	62·5	−155·7	23·4	21	4	−7·4	7·4	5·6	−3·3	1	7	0	0	1	0	0	0	0	0	0
Ranchi (C.W.O.)	34·7	..	41·0	2	24·8	..	22·2	17, 19	(j) 78·0	128·2	..	46·3	12	7	..	(j) 11·9	10·2	..	2	10	0	0	7	0	1	0	0	0	0
Daltonganj	39·9	+2·0	45·4	15	28·3	+1·1	24·2	21	84 0	92·0	−60 9	53·4	21	6	−2·2	..	..	..	0	7	0	0	0	0	0	0	0	0	0
Hazaribagh	36·0	+2·1	42·5	15	25.4	+0·9	21·7	20	72·1	102 2	−109·4	64·8	20	5	−5·7	13·0	10·0	−0·9	0	9	0	0	8	0	0	0	0	0	0
Dhanbad	36·7	..	44·5	15	26 8	..	24·3	19	48·2	53 3	..	21·3	22	6	..	6·9	5·5	..	0	8	0	0	7	0	2	0	0	0	0
Dumka	35·7	+1·2	43·3	2	25·8	0	23·8	19	98·2	133.0	−121·0	20·8	21	7	−4·9	10·6	8·5	+4.0	0	7	0	0	7	0	0	0	0	0	0
Bihar Plains.																													
Purnea	33·3	+0·3	35·8	1	25·2	0	21·1	5	14 4	88·2	−171·6	26·2	7	6	−5·8	(c) 7·6	(c) 5·0	+0·2	0	7	0	0	2	0	0	0	0	0	0
Forbesganj	34·4	..	38·4	10	24·7	..	21·1	5	43·8	307·8	..	106·0	12	7	..	11·2	8·5	..	0	15	0	0	15	0	0	0	0	2	0
Darbhanga	35·4	+1·6	41·7	1	26·5	+0 7	21·7	5	4·3	103·6	−86·9	32·2	16	8	−0·8	11·2	9·7	+2·8	0	9	0	0	11	0	0	0	0	0	0
Motihari	33·8	−0·4	41.7	1	26 2	+0·8	18·3	11	33·7	165·8	−55·4	53·0	11	8	−2·4	(b) 3.7	(c) 2·9	−4·8	0	10	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	.	50·8	−144·8	35·6	21	2	−6·1	..	..	..	0	2	0	0	0	0	0	0	1	0	0
Chapra	37·9	..	44·8	4	27·5	..	20·4	17	19 4	169 5	+18·9	84 3	18	6	−1·2	8·4	7·9	..	0	7	0	0	4	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	3·0	−154·5	1·7	17	0	−7·5	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Patna	39·1	+3·4	44·4	2	27·7	+1·1	23·6	11	20·2	74·0	−107·4	38·2	17	4	−4·0	8·4	8·9	+0·9	0	5	0	0	3	0	2	0	0	0	0
Patna (Aerodrome)	37·7	..	44·4	4	27·6	..	23·2	11	11·3	143·1	..	86·0	17	4	..	11·1	9 7	..	0	7	0	0	3	0	0	0	0	1	0
Dehri	40·2	..	46·1	15	29·1	..	24·6	1,17	12·9	26·3	−110·1	11·3	22	4	−2·9	10·8	8·1	..	0	4	0	0	0	0	0	0	0	0	0
Gaya	39·8	+2·3	45·9	15	29·0	+1·6	25·0	11	1·8	24·3	−139·5	21·4	21	1	−6·5	15·8	12 7	+2·9	2	3	0	0	8	0	2	0	0	2	0
Jamui	38·3	..	45·3	15	27·4	..	20·5	7	86·3	98·5	..	62·5	19	5	..	8·6	6·3	..	0	6	0	0	1	0	0	0	0	0	0
Bhagalpur	35·0	..	38·7	1	26·0	..	22·1	5	50·8	82·6	..	34.2	20	6	..	8·7	7·0	..	0	8	0	0	9	0	0	0	0	0	0
Sabour	34·6	−0·1	38·9	1	26·7	+0·5	22·2	5	25·0	64·2	−92·3	17·0	12	5	−2 8	12·1	9·3	+0·1	0	7	0	0	9	0	0	0	0	2	0
Uttar Pradesh (East)																													
Gonda	39·5	+2·9	45·6	4	28·3	+1·6	25·0	17	11·2	12·8	−172·9	8·6	30	2	−6 3	10.6	8·0	0	0	3	0	0	1	0	0	0	0	0	0
Nautanwa	35·3	..	42·6	4	25·6	..	20·1	17	27·7	185·2	..	47·2	30	8	..	10·7	8·9	..	0	11	0	0	0	0	0	0	0	0	0
Gorakhpur	38·2	+2·1	44·4	4	27·0	+1·0	19·8	30	59·0	225·0	+33·2	89·0	30	6	−2·1	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Azamgarh	40·0	..	47·9	6	25·4	..	21·4	11	56·4	63·0	..	29·6	18	3	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Ballia	39·1	..	45·2	4	27·4	..	22·5	11	24·1	117·9	..	72·6	17	5	..	7·9	7·2	..	0	5	0	0	0	0	0	0	0	0	0
Varanasi (Banaras)	40·6	+2·3	45·1	14,15	29·7	+1·9	26·1	17	13 2	20·0	−95·8	13·2	18	2	−4·0	10·2	8·7	+2·3	0	3	0	0	0	0	0	0	0	0	0
Varanasi (Banaras) (Babatpur Aerodrome)	40·3	..	45·6	4	29·4	..	25 7	18	16·0	34·0	..	10·4	22	4	..	15·7	12·8	..	0	4	0	0	3	0	2	0	0	0	0
Allahabad (Bamrauli).	42·0	+2·7	46·0	2,4,5	29·9	+1·6	25·2	30	32·1	45.3	−82·7	31·9	30	3	−1·3	11·4	9·0	+0·5	0	5	0	0	10	0	2	0	0	1	0
Sultanpur	40 8	..	45·6	15,16	29·3	..	24·9	17, 18	0	2·2	..	2·2	17	0	..	9·2	7·5	..	0	1	0	0	0	0	0	0	0	0	0
Faizabad	39·1	..	44·0	4	26·4	..	23·2	1	40·7	52·0	..	47·5	29	1	..	7·8	6·4	..	0	4	0	0	7	1	0	0	0	0	0
Banda	41·6	..	46 1	12,13, 15	28·7	..	23·1	15	49·8	49·8	..	38·6	15	3	..	8·6	6·0	..	0	3	0	0	0	0	0	0	0	0	0
Fatehpur	41·9	+2·5	46·1	11	30·8	+2·5	25·7	30	42·4	47·0	−40·4	44·4	30	2	−5·8	12·8	9·5	+2·3	0	2	0	0	1	0	0	0	0	0	0
Kanpur	41·3	+2·0	45·5	11	30·3	+2·0	25·0	28	26 8	37·4	−43·6	17·8	26	3	−1·5	20·2	14·4	+1·2	0	4	0	0	3	0	0	0	0	0	0
Kanpur (Aerodrome)	41·7	..	45·7	11	30·2	..	25·6	28	9·6	12·1	..	6·1	29	3	..	..	..	..	0	3	0	0	7	0	3	0	0	0	0

(c) Mean of 28 days. (b) Mean of total for 29 days. (j) Mean of 21 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunderheard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—*contd.*																														
Lucknow	39.9	+2·0	43.5	4	28.8	+1.2	24.5	27	37.0	45.2	−68.1	20.6	26	4	−1.5	9.0	5.9	+1.7	0	4	0	0	4	0	0	0	0	0	0
Lucknow (Amausi Aerodrome)	40·8	+2·9	45·0	4	26·8	+0·4	23.0	28	25·1	28·6	−83·7	11·1	26	3	−2·5	17.3	13·5	..	0	5	0	0	7	0	4	0	0	2	0
Hardoi	40·5	..	45·1	4	29·0	..	23·3	28,29	66·6	155·4	..	114·6	28	3	..	12·8	9·3	..	0	4	0	0	1	0	0	0	0	0	0
Lakhimpur Kheri	39·7	..	44·6	4	28·0	..	22·4	27	33.8	86·9	..	46·0	22	6	..	7·8	5.7	..	0	7	0	0	4	0	0	0	0	0	0
Bahraich	39·4	+2·3	45·5	4	28·4	+1·7	23·7	27	15·8	19 2	−138 3	8·6	27	2	−4·1	12·4	10.6	+5·1	0	6	0	0	1	0	0	0	0	0	0
Uttar Pradesh (West)																														
Orai	41·1	..	45·6	15	28·9	..	24·4	15,28	18.6	42·0	..	12.4	26	4	..	13·9	10·1	..	0	6	0	0	0	0	0	0	0	0	0
Jhansi	41·2	+1·2	46·2	11	29.1	−0·1	22·2	30 17	108·5	145.3	+29.4	103·5	23	4	−1·5	6·3	(c) 4·9	−3·1	0	6	0	0	2	0	0	0	0	0	0
Agra	41·7	+1·7	45·6	8	29·6	+1·0	24·9	15,28	10.1	10.1	−51·9	10·1	28	1	−2·8	8·2	7·0	−1·0	0	1	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	41·7	..	46·0	10	29·4	..	25·0	28	17.7	17·7	..	17·7	28	1	..	..	..	..	0	1	0	0	5	0	1	0	0	0	0
Mainpuri	41·3	+0·9	46·2	11	29.0	+0·8	24·6	18	8.1	29·5	−37.6	16·4	18	3	−0·8	3·1	2.4	−2·1	0	4	0	0	0	0	0	0	0	0	0
Aligarh	41·5	+2.5	45·4	10,11	28·1	[illegible]	22·4	26	0	40·0	−96.9	40·0	26	1	−3·6	14·9	11·3	+2.3	0	1	0	0	3	0	2	0	0	0	0
Bareilly	40·6	+2·1	45·6	10,11	28·2	+1·3	22·2	28	39·6	96·8	−36·0	41·2	26	5	−0·4	10.1	6·6	+1·9	0	6	0	0	3	0	1	0	0	0	0
Meerut	40·2	+1·7	44·7	10	27.9	+0·9	21·2	16	..	44·2	−42·2	18·2	26	3	+1·1	..	9·5	..	0	4	0	0	0	0	0	0	0	0	0
Najibabad	39·4	..	45·2	11	26·5	..	21·1	1	52·6	124·5	..	49·4	25	4	..	9.9	7·0	..	1	4	0	0	7	0	0	0	0	0	0
Roorkee	40·0	+2·1	45·6	11	26 1	+0·1	19·7	15	8·9	35·5	−78·8	17·0	15	3	−2·4	10·4	7.6	+2·5	0	6	0	0	6	0	1	0	0	0	0
Dehra Dun	37·0	+2·7	41·6	11	23·6	+0·2	16.9	15	16·0	130·1	−87·1	38·2	26	6	−3·4	6·0	3·9	+0·8	0	7	0	0	7	0	0	0	0	0	0
Punjab (India) (Including Delhi)																														
New Delhi	40·7	+0·5	44·6	10	29·4	+0.7	22·2	16	26.6	35·6	−41·4	15·8	30	4	−0·2	22·3	18·6	+3·8	0	4	0	0	3	0	2	0	0	3	0
New Delhi (Palam Aerodrome)	41·7	..	45·6	10	28·0	..	21·7	16	0·3	13·4	..	12·6	5	1	..	..	..	..	0	3	0	0	3	0	2	0	0	0	0
Hissar	42·8	+1·0	46·1	9	[illegible]	−0·6	21·8	18	16·2	91·0	+59·0	64·4	30	4	+1·1	12.5	11·8	+2.3	0	6	0	0	8	0	3	0	0	0	0
Karnal	40·4	..	44·7	11	24.9	..	19.0	20	18·0	54·0	..	36·0	15	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Patiala	41·0	..	45·6	11	26·6	..	20·8	15	5·0	107·0	+77·0	71·4	27	3	+1·0	12·3	9·9	..	0	3	0	0	2	0	2	0	0	0	0
Ambala	40·9	+1·1	45·3	10,11	26.9	−0·2	20·1	15	10.0	137·2	−60·0	95·0	27	3	−1·4	9·3	9·3	+3·0	0	3	0	0	2	0	0	0	0	0	0
Ambala (Aerodrome)	40·8	..	45·8	11	26·7	..	20·0	15	15.4	127·5	..	85·0	27	3	..	..	..	..	0	4	0	0	6	0	3	0	0	0	0
Chandigarh	40·5	..	44·2	11,12	26·2	..	20·0	15	3·6	55·3	..	34·6	27	4	..	..	..	.	0	4	0	0	0	0	0	0	0	0	0
Ludhiana	42·5	+2.1	47·2	8	28·7	+1.5	22.7	18	0	45·9	−12·0	29.1	27	3	−0·5	9·6	6·7	+2·8	0	3	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	41·3	..	45·6	8	25·6	..	20·3	15	0	23·9	..	9·4	14	3	..	..	..	..	0	3	0	0	6	0	4	0	0	0	0
Bhatinda	42·7	..	45·7	4 days	27.3	..	23.3	1	7·5	51·6	..	41·0	27	3	..	11·8	8·7	..	0	3	0	0	4	0	0	0	0	0	0
Ferozepur	41·7	..	45·7	8	26·1	..	21·2	27	0	99·0	..	93·6	27	2	..	5·7	3·6	..	0	2	0	0	2	0	0	0	0	0	0
Amritsar	41·5	..	45·9	9	24.7	.	20·8	15	10·2	54·5	..	32·3	27	3	..	13·1	10·6	..	0	3	0	0	6	0	3	0	0	1	0
Pathankot (Aerodrome)	41·7	..	46·1	11	26·5	..	19.8	15	0	38·2	..	24·0	27	3	..	13·0	11·1	..	0	3	0	0	6	0	7	0	3	1	0
Adampur (Aerodrome) (R)																														
Himachal Pradesh																														
Bilaspur	39 6	..	43·4	11	23·5	..	19·7	1	1.6	21·7	..	6·5	14	4	..	10·8	7.8	..	0	4	0	0	7	0	1	0	0	0	0
Mandi	38·3	..	42·3	8	20.9	..	17·4	17	38·9	108.1	..	44.0	26	6	..	5·1	3·8	..	0	8	0	0	13	0	0	0	0	0	0
Jammu and Kashmir																														
Srinagar	29·6	−0·1	33·3	10,11	14·1	0	10.9	15	0	20·4	−15·2	18.4	14	1	−2·4	4·8	4·0	−0·2	0	2	0	0	6	0	0	0	0	0	0
Srinagar (Aerodrome)	28·7	..	32·7	10	14.1	..	10·7	15	0	16·9	..	14·4	15	2	..	..	..	..	0	2	0	0	4	0	0	0	0	0	0
Gulmarg	20.6	+0.7	26.2	11	5.5	−1·8	2.1	16	23.7	54.3	−35.9	21.8	15	4	−3.8	10·4	6·8	+0·8	0	10	0	2	14	0	0	0	0	0	0
Sonemarg	..	..	..	..	..		..	..	..	0.	−72.5	0.9	15	0	−7.2	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Dras	..	..	..	..	..	..	..	..	..	10·2	−7·1	10·2	15	1	−1·0	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Leh	22·0	+0·2	28·9	25	7.4	+0.6	9·5	1	0	0·8	−3·8	0·8	15	0	−0·7	10.1	8·0	+4·0	0	1	0	0	0	0	0	0	0	0	0
Skardu (R)																														
Gilgit (R)																														
Misgar (R)																														
Jammu*																														
Jammu (Aerodrome)	41·7	..	45·7	10	26·7	..	20·5	15	·3	37·6	..	20·3	27	3	..	..	..	..	0	4	0	0	9	0	9	0	0	0	0
Rajasthan (West)																														
Sri Ganganagar	42·7	+1·1	47·3	26	29·4	+2·0	24·1	27	0·6	35·5	−40·4	20·9	27	2	−0.7	10·3	7·5	−6.2	0	3	0	0	4	0	2	0	0	0	0
Churu	41·6	..	45·3	9	28·9	..	22·7	16	24.7	31·9	..	26·8	16	2	..	19·7	16·7	..	0	3	0	0	6	0	2	0	0	0	0

(c) Mean of 28 days. (R) Registered not received. * Temporarily closed.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more.)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Rajasthan (West) —*contd.*																														
Bikaner	42·2	+0·9	45·2	9	28·5	−0.8	20·0	16	0	61 3	+30·6	60·0	16	1	−1·2	13·4	12·0	−0·1	0	2	0	0	3	0	0	0	0	0	0
Jaisalmer	41·5	..	44.6	24	26.9	..	24.9	12 13 17	0	0	..	0	..	0	..	28·5	27.0	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	41·7	..	44.2	9	28·2	..	21·7	16	0	0	−23 4	0	..	0	−1·6	29·1	24·1	..	0	0	0	0	3	0	1	0	0	0	0
Nagaur	41·1	..	44.1	9	28·2	..	19·7	16	14.0	14.4	..	14.4	16	1	..	18.1	16.6	..	0	1	0	0	3	0	2	0	0	0	0
Jodhpur	40 4	+0·6	43·0	23	27·5	−0·4	19·6	16	14.0	88.5	+2 4	15·3	16	3	+0·9	19·6	17·8	−2.5	0	4	0	0	7	0	1	0	2	0	0
Barmer	40·9	+1.2	43·2	23	26·6	−0·2	23·3	16	2 0	13.4	−14 5	12·8	25	1	−0·5	..	..	..	0	2	0	0	5	0	5	0	0	0	0
Rajasthan (East)																														
Pilani	42·1	..	46·1	9	28·8	..	21·6	16	28·2	27·9	..	21·7	16	2	..	23.6	20.8	..	0	3	0	0	0	0	8	0	0	0	0
Alwar	41·7	..	45·5	9,10, 11	31.0	..	25.2	16	1·8	6.8	..	3·6	4	1	..	11·3	10·6	..	0	3	0	0	2	0	1	0	0	0	0
Sikar	37·1	..	42·1	9	27 0	..	19·6	16	5·8	81·4	..	25·4	16	2	..	13·7	13·2	..	0	3	0	0	1	0	0	0	0	0	0
Jaipur (Sanganer Aerodrome)	40·0	+0·7	43·2	9	27·7	+0·8	22·3	16	50·5	61·6	+4 7	50.6	16	3	−0·9	..	..	..	0	3	0	0	7	0	4	0	0	3	0
Dholpur	42.0	..	47·1	11	30·5	..	24·9	16	18·8	20·9	..	14·0	28	2	..	12.5	9·8	..	0	3	0	0	8	0	2	0	0	0	0
Tonk	41·2	..	44·6	5	38·2	..	22·6	16	23·8	65·4	..	36·2	27	3	..	15·3	11·1	..	1	3	0	0	12	0	0	0	0	0	0
Ajmer	38·2	+0·2	40·3	9	27·1	−0·6	18·1	16	75·4	105·2	+43·5	81·2	16	3	+0·3	16·9	15·5	+3·8	0	3	0	0	5	0	0	0	0	0	0
Kotah	40·7	+0·3	44·9	9,10	29·8	+0·3	23·5	16	46·8	54·6	−12·5	22.4	16	4	−0·1	13·1	11.7	+3·7	0	8	0	0	7	0	0	0	0	0	0
Chambal	39·8	..	44·2	10	28·3	..	23·3	16	63.4	80·6	..	24.6	28	7	..	15·1	12·6	..	0	8	0	0	12	0	0	0	0	0	0
Jhalawar	39·6	+0.9	44·7	10	27·9	+0·6	23·8	16	46·4	116·7	+3.9	29·6	16	7	−0·1	12·4	11 8	+1·7	0	9	0	0	10	0	0	0	0	0	0
Udaipur	35·9	−0·7	38·8	8	25·0	−1·1	21·4	16	63·0	102·8	+25·6	24·6	29	8	+3·4	8·2	6·3	..	1	10	0	2	13	0	0	0	0	0	0
Erinpura (Jawai Dam)	38·4	..	40·0	18,19	27·3	..	23·4	23	1·8	18.4	..	6.2	23	3	..	12·3	11·3	..	2	5	0	0	0	0	0	0	0	0	0
Madhya Pradesh West)																														
Gwalior (P.B.O.).	41·5	+0·3	47 0	11	30·7	+0·4	24 2	16	62·2	72·2	+26·2	45·6	16	5	+1·2	15·3	12·2	..	0	6	0	0	9	0	1	0	0	0	0
Sheopur Kalan	41·0	..	45·4	11	28 7	..	23·0	16	46.2	71·6	..	42·6	16	5	..	14·2	11·9	..	0	8	0	0	11	0	0	0	0	0	0
Guna	39 2	+1·3	44·8	11	27·0	+0·8	22·9	16	68.3	102·9	−50·3	35·6	30	6	−1·2	18·0	15·0	..	0	9	0	0	9	0	0	0	0	1	0
Rajgarh	39·6	..	46·7	1	27·1	..	21·1	16	97.4	258.4	..	93·0	16	8	..	16 5	12 8	..	0	9	0	0	0	0	0	0	0	0	0
Neemuch	37·1	+0·2	40·7	10	25·6	+0·2	22·7	27	43·2	93·1	−14·3	24·4	10	8	+3·2	15·8	14·9	−0·2	0	11	0	0	10	0	0	0	0	0	0
Ratlam	36·3	..	39·0	9	24·5	..	22·1	17	49·8	122·1	..	44·8	23	4	..	13·8	12·6	..	1	10	0	0	8	0	0	0	0	0	0
Alirajpur	35·3	..	33 8	29	24.9	..	21.0	23 20	37·6	213·2	..	73·0	23	8	..	15·1	13·9	..	0	9	0	0	2	0	0	0	0	0	0
Indore	35·3	−0·5	39·8	10	24·2	+0·1	20·7	21	55·0	148·4	+1·1	27.1	21	11	+3·7	24·1	22·9	..	0	12	0	0	10	0	0	0	0	0	0
Ujjain	36·8	..	40·4	10	25.0	..	22·6	29	..	96.5	..	66.7	29	4	..	..	19.9	..	1	4	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	37·6	+1·1	43·0	10	25·7	+0·7	22·2	15	131·1	130·0	−43·5	52·7	30	8	−1·4	23·3	18·1	+3·9	1	10	0	0	11	0	0	0	0	1	0
Khandwa	36·7	−0·4	41·2	9	25·3	−0·7	18·2	23	36·8	173·9	+31·7	35·2	22	10	+3·0	17·6	14·5	+1·3	0	12	0	0	9	0	1	0	0	0	0
Hoshangabad	38·7	+1.6	43·9	10	26·5	0	21·6	21	18·2	41·2	−107·9	10·2	21	5	−3.2	9·8	8·6	+2·3	0	7	0	0	10	0	0	0	0	0	0
Betul	34·8	..	39·6	10	24·0	..	20·3	17	42·4	96·0	..	18·8	17	10	..	10·6	8·2	..	1	12	0	0	15	0	0	0	0	0	0
Chhindwara	35·6	..	40·7	9	24·7	..	20·9	26	157·9	223·7	..	60·5	26	11	..	12·1	9·4	..	0	16	0	0	17	0	0	0	0	0	0
Seoni	36·2	+1·1	42·8	2	23·2	−0·9	16·0	16	40·3	139·5	−77·9	28.2	15	10	−1·1	11·7	7·3	+0·2	0	14	0	0	15	0	0	0	0	0	0
Sagar	38·4	+1 7	44·0	11	28·3	+3·0	24·2	27	40·0	67.5	−89·7	17.0	26	7	−1·1	13·8	11·5	..	0	9	0	0	11	0	0	0	0	0	0
Nowgong	41·1	+1 8	46·2	11	28·9	+0·7	23·4	30 20	83·0	98·4	−39.8	23·6	15	6	−0·1	11·1	8.1	+2.3	0	9	0	0	7	0	0	0	0	0	0
Madhya Pradesh (East)																														
Sutna	40·8	+2·7	45·2	11	28·4	+0·7	23·5	30	51.4	128·0	−12·7	49.0	30	7	+0·7	12·9	9·1	−0.1	0	9	0	0	12	0	0	0	0	0	0
Sidhi	40·7	..	44·7	11	28·5	..	24·1	1	0·6	46.2	..	27.4	11	3	..	12·1	8·8	..	0	3	0	0	7	0	1	0	0	0	0
Umaria	39·5	+2·9	44·5	2,10	27·0	+0·6	22·8	10	24·9	89·8	−91·0	18·6	22	10	0	4·2	3·0	−4·1	0	13	0	0	12	0	0	0	0	0	0
Jabalpur	39·6	+2·9	45·2	11	27·1	+1·2	23·1	30	70·2	78.1	−100·5	25·8	19	8	−0·8	10·5	8·1	+2·3	0	12	0	0	10	0	0	0	1	0	0
Mandla	37·6	..	43·4	2	25·5	..	22·2	26	213.4	276·9	..	87.7	30	12	..	6·2	3·8	..	0	18	0	0	22	0	0	0	0	0	0
Pendra	36·3	−2·4	42·0	2	25·1	+0·8	21·6	15	137·0	196·4	−5·0	54·8	18	12	+0·3	11·9	9·6	..	0	15	0	0	14	0	0	0	0	0	0
Ambikapur	37·2	..	42·2	2	25·6	..	21·3	21	49.7	80·1	..	21·6	18	9	..	13·4	10·3	..	1	13	0	0	14	0	0	0	0	0	0
Champa	39·4	..	45·8	4	27·1	..	22·8	17	15.4	78·0	..	24·8	29	8	..	10·9	8·5	..	0	13	0	0	15	0	0	0	0	0	0
Raigarh	38·6	..	45·5	4	27·0	..	22·5	19	56·2	161·6	..	32 4	21	10	..	7·9	6·7	..	0	12	0	0	6	0	0	0	0	0	0
Raipur	38·0	+1·4	44·3	2	26·1	−0·1	22·2	22	69.7	148.5	−81·6	34·1	21	13	+3·3	12·8	12·2	−1·2	1	17	0	0	15	0	3	0	0	0	0
Kanker	35·3	+0·4	41·6	2	25·7	+0·2	20·8	21	24.0	236.9	−27·3	62.0	21	10	−0·3	13·0	9·9	+1·4	0	14	0	0	12	0	0	0	1	0	0
Jagdalpur	32·9	−0.3	39·5	2	24·1	+0.4	20·2	21	121·9	312·2	+66.6	57·4	21	14	+2·7	9·1	5·8	..	2	17	0	0	19	0	0	0	1	0	0
Gujarat																														
Deesa	38·7	..	40·7	18	26·6	..	23·1	23	0	35·4	..	16.8	23	3	..	13·3	12·5	..	0	4	0	0	1	0	0	0	0	0	0
Radhanpur	39·2	..	41·0	4	24·2	..	19·5	23	0	31·6	..	28.3	23	2	..	12·3	10·7	..	0	2	0	0	1	0	0	0	0	0	0
Idar	37·7	..	40·2	1	26·0	..	22·2	17	81·6	99·4	..	35.4	24	6	..	12·8	10·5	..	0	8	0	0	9	0	0	0	0	0	0
Ahmedabad	38·0	−0·8	41·3	1	26·7	−0·4	23 0	18	68·9	154·1	+61·1	46.6	18	6	+1·3	9·6 (c)	8·8	−2.5	0	7	0	0	10	0	0	0	0	0	0
Dohad	35·8	−0.4	39·0	10,11	24·6	−1·2	21·8	17	58·2	172·4	+82·7	59.2	24	5	0	25.8	26.2	..	0	8	0	0	11	0	0	0	0	0	0
Baroda	37·1	+0·6	40·0	2	27·0	+0.4	23·9	23	42·0	75·0	−87·8	32.4	30	5	−1.7	8·0	6·9	−3·7	0	11	0	0	3	0	0	0	0	0	0
Baroda (Aerodrome).	36.6	..	39·1	12 13	6·7	..	23·4	18	52·9	90.0	..	29·5	29	4	..	14·2	14·3	..	2	7	0	0	4	0	0	0	0	0	0
Broach	34·9	..	38·0	7	26·6	..	4·2	24	71·8	173.2	..	48.0	23	10	..	13·4	11·4	..	0	16	0	0	0	0	0	0	0	0	0

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Gujarat (contd.)																													
Surat	33·1	−0·7	36·1	9	28·8	+0·2	23·0	23	190·4	445·4	+228·5	145·9	23	12	+4·0	11·6	12·5	+0·6	0	18	0	0	4	0	0	0	0	0	0
Saurashtra and Kutch																													
Naliya	34·2	..	35·4	26,27	27·2	..	23·5	23	49·5	112·9	..	49·7	29	4	..	24·0	19.5	..	1	6	0	0	4	1	0	0	0	0	0
Bhuj (Aerodrome)	37·2	+0·4	39·5	18	26.7	0	29·1	23	1·4	7·6	−27·5	4·0	28	1	−0·9	20·6	17·8	−3·9	0	3	0	0	4	0	0	0	0	0	0
Bhutakia Bhimasar	38·7	..	41·0	1	26·7	..	22·0	23	25·0	33·0	..	31·0	20	3	..	23·4	23·2	..	1	4	0	0	1	0	0	0	1	0	0
New Kandla	35·4	..	37·7	22	27·3	..	22·8	23	17·6	84·4	..	33·8	23	5	..	26·8	24·6	..	0	7	0	0	5	0	0	0	0	0	0
Mandvi	32·9	..	34·0	23	27·9	..	23·3	23	17·0	92·0	..	48·0	24	5	..	25·9	26·9	..	0	5	0	0	0	0	0	0	0	0	0
Dwarka	32·2	+0·4	33·6	19	27·5	−0·5	23·3	23	109·0	145·0	+93.9	76·4	29	7	+4·7	17·9	18·5	−2·6	0	7	0	0	0	0	0	0	0	0	0
Porbandar	32·5	..	33·8	6 days	27·9	..	25·0	24	29·8	66·6	..	17·8	30	6	..	19·5	15·6	..	0	8	0	0	0	0	0	0	0	0	0
Porbandar (Aerodrome)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21·8	18·3	..	..	..	0	0	3	0	0	0	0	0	0
Jamnagar	35·9	0	37·8	5	26·4	−0·5	22·8	24	45·3	1 .8	+101·5	66·6	28	9	+6·0	..	..	..	0	10	0	0	7	0	0	0	0	1	0
Rajkot (Aerodrome)	36·9	−0.5	40·4	1	25·3	0·4	21·6	24	115·3	286·1	+162.0	66·2	20	11	+6·2	23·5	22·1	..	1	11	0	0	12	0	2	0	2	0	0
Surendranagar	38·1	..	41·2	1	26·8	..	22·3	23	66·6	127·8	..	49·0	30	5	..	18·9	16·2	..	1	7	0	0	2	0	2	0	0	0	0
Bhavnagar	36·5	−1·2	41·0	8	26·5	−0·3	23·4	23	72·8	91·8	−7·3	28·4	28	6	+1·3	15.5	12·6	−0·1	0	10	0	0	3	0	0	0	0	0	0
Bhavnagar (Aerodrome)	36·5	..	40·6	8	26.9	..	24·2	25	70·5	109·7	..	38·4	28	7	..	26·1	22·5	..	0	12	0	0	3	0	0	0	1	0	0
Mahuva	33·1	..	..	..	25·9	..	23·5	23	105·1	128·0		48·0	21	9	..	18·0	13·6	..	0	11	0	0	0	0	0	0	0	0	0
Keshod	34·6	..	36·8	10	26·1	..	23·9	24	21·8	78·4	..	28·4	26	8	..	26.6	20·9	..	0	11	0	0	3	0	0	0	0	0	0
Veraval	32·0	..	34·5	7	27·4	..	24·1	24, 28	97·4	254·5	+136·1	121·9	28	7	+3·1	24·8	25.0	..	1	10	0	0	3	0	0	0	2	0	0
Konkan																													
Dahanu	31·6	−1·0	34·5	11	25·7	−1·1	22·6	20	516·5	1203·2	+959·6	376·0	26	19	+10 0	17·6	14·8	−5·0	0	21	0	0	2	0	0	0	0	0	0
Bombay (Colaba)	31·6	+0·2	34·9	2	25·8	−0·1	23·2	25	352·2	1011·	+527·0	236·3	26	21	+7·4	13·2	12·1	−3·0	0	25	0	0	5	0	0	0	0	7	0
Bombay (Santacruz Aerodrome)	31·2	−0·2	35·2	14	25·4	−0·5	23·2	24	299·2	925·0	+357·1	121·2	26	21	+6 8	18·9	14·9	..	1	24	0	0	8	0	0	0	0	0	0
Alibag	30.8	+0·2	33·6	6	25·2	−0·6	23·6	17	..	872·9	+273·7	130·5	13	22	+5·3	..	18·6	−1·5	0	26	0	0	4	0	0	0	0	0	0
Harnai	30·1	+0·2	32·0	1	25·2	−0·1	22·4	24	301·8	1179·0	+672·0	281·8	13	24	+5 0	14·8	15.0	−0·3	0	26	0	0	4	0	0	0	0	0	0
Ratnagiri	30·2	..	32·3	4	24·5	..	22·4	13, 27	504.7	1319	+545·9	248·6	13	21	+0·5	..	..	..	1	25	0	0	0	0	0	0	0	0	0
Devgad	30·3	−0.1	32·6	2	25.0	−0·7	22·5	9,13	309·7	788.1	+310·9	173·0	13	20	+1·4	21.5	20·8	+0·4	0	25	0	0	2	0	0	0	0	0	0
Vengurla	30·3	..	32·0	2,4,11	24·2	.	21·4	14	429·9	917·2	..	180·7	13	25	..	10.9	8·8	..	1	27	0	0	10	0	0	0	0	1	0
Maharashtra (including Marathwada)																													
Nandurbar	35·9	..	39·4	11	25·7	..	22·2	23	18·1	111·4	..	69·4	23	6	..	15.5	13·5	..	0	8	0	0	0	0	0	0	0	0	0
Jalgaon	37·5	..	41·9	7	25·7	..	22.4	2223	79·6	311·2	+181·7	106·4	22	9	+1·7	24.1	22·5	..	0	11	0	0	8	0	0	0	0	0	0
Malegaon	35·3	−0·4	39·1	9	24·0	+0·1	20·1	23	87·9	162·3	+49·8	85·0	23	5	−1·7	15.6	13.3	−1·8	0	6	0	0	1	0	0	0	0	0	0
Deolali	32·0	..	35·4	6	22·7	..	20·9	29	10·7	34·6	..	9·7	3	5	..	23.6	19·8	..	0	8	0	0	3	0	0	0	0	0	0
Aurangabad	34·2	−0·4	39 6	8	..	..	...	..	32·1	147·7	+9·5	34.6	22	11	+3·3	19·9	17·4	−0·6	0	17	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome)	33·9	..	39·1	7	22·9	..	20·4	22	80·8	196·8	..	60·4	24	10	..	20.1	17·9	..	0	16	0	0	10	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	872·46	+31 1	169·0	29	22	+1·7	..	..	..	0	24	..	..	..	..	..	..	..	..	..
Ahmednagar	33·4	−0·1	37·2	7	22·2	0	20·8	20	45·7	90·9	−41·9	28.1	21	8	+0·5	12·3	8·8	−4·6	1	13	0	0	1	0	0	0	0	0	0
Bhir	35·4	..	38.9	7	23·6	..	21·2	22	(b) 3.6	89·9	..	27·0	3	6	..	(b) 14.4	11·4	..	0	10	0	0	0	0	0	0	0	0	0
Parbhani	36·0	..	39·4	8	23·4	..	21·6	24	11·2	134.	−5·1	25·5	27	10	+2·2	17·3	14·2	..	0	12	0	0	8	0	0	0	0	0	0
Nanded	36·2	..	40·0	1,10	24·0	..	20·9	22	25·9	221·	..	43·3	26	11	..	14.0	10·6	..	0	12	0	0	8	0	0	0	0	0	0
Poona	31·8	−0·1	35·6	−6	22·7	+0·4	20·8	24	48·4	118·9	+4·8	54·2	29	7	−0·3	8.7	6 3	−9·5	1	14	0	0	2	0	0	0	0	0	0
Poona (Lohagaon Aerodrome)	31·4	..	35·3	6	22·1	..	20·0	24	43·3	70·3	..	29·3	29	7	..	..	..	..	0	13	0	0	3	0	0	0	0	0	0
Baramati	31·8	..	35·5	2,6,10	23·0	..	21·8	2	9·6	90·2	...	74.4	2	5	..	19·1	16·4	..	0	6	0	0	4	0	0	0	0	0	0
Jeur	34·1	..	37·3	7	22·7	..	21·3	20	38·2	108.7	..	47.1	2	7	..	19·4	15·7	..	1	12	0	0	6	0	0	0	0	0	0
Sholapur	34·4	−0·7	39·4	7	23·3	+0·1	21·2	27	15·7	111·3	−1·5	34·2	2	9	+2·5	13·5	11·3	−4·3	0	16	0	0	7	0	0	0	0	0	0
Miraj	31·8	+0·6	36·0	3	22·2	0	19·9	28	8·6	28·0	−40·8	7·8	18	3	−2·9	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Kolhapur	29·7	−0·1	34.5	3	21·7	−0·5	20.4	27	58·4	138·6	+25·1	45·6	29	9	+1·2	22·0	16·9	−1·4	0	16	0	0	0	0	0	0	0	1	0
Vidarbha																													
Buldhana	33·3	..	37·5	9	22·7	..	19·5	22	30·6	137.2	..	34·8	18	9	..	13·3	13·1	..	0	14	0	0	0	0	0	0	0	0	0
Akola	36·4	−0·8	41·3	9	24·0	−1·7	20·7	22	26·6	120·6	+80·1	70·9	24	9	+0·9	16·5	13·6	+1·2	0	12	0	0	4	0	0	0	0	0	0
Amravati	36·6	−0·2	41·9	9	23·4	−2·0	20·1	22	104·0	231·4	+65·0	73·4	30	12	+3·3	19·0	16·6	+4·7	0	15	0	0	16	0	0	0	0	0	0
Yeotmal	36·0	..	41·2	9	24 2	..	21.2	22	38·2	197·1	..	72·0	30	12	..	21·7	19·0	..	0	12	0	0	1	0	0	0	0	0	0
Nagpur	38·0	−0·3	43·6	2	25·4	−1·5	21·0	20	114.7	140·5	−83·5	23·4	19	10	−0·2	17·6	14·9	..	0	16	0	0	18	0	0	0	0	13	1
Gondia	33.8	..	44·5	2	·5	..	22·9	22	80·7	149·7	..	51·1	18	11	..	8·1	(c) 7·2	..	0	12	0	0	1	0	0	0	0	0	0

(b) Mean of 29 days. (c) Mean of 28 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Vidarbha—*contd.*																													
Brahmpuri	37·5	..	44·5	2	26·2	..	22·5	22	30·3	227·2	..	85·6	18	12	..	11·1	9·6	..	0	14	0	0	5	0	0	0	0	0	0
Chanda	36·7	−0·9	42·7	2	25·9	−0·7	21·7	12	16·0	239·0	+34·5	51·4	12	14*	+4·2	14·6	11·2	+2·7	0	15	0	0	15	0	0	0	0	0	0
Sironcha	35·3	..	41·8	1	25·9	..	22·2	22	27·2	340·8	..	58·5	2	14	..	7·5	6·3	..	0	18	0	0	7	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Nellore	38·0	−0·6	41·3	4	28·6	+0·7	24·1	27	3·1	7·9	−24·4	3·5	27	1	−1·9	14·1	11·2	+1·9	1	3	0	0	0	0	0	0	0	0	0
Ongole	37·6	..	43·0	4	28·5	..	23·9	27, 28	52·0	75·3	..	45·8	27	4	..	(k) 13·8	(k) 10·4	..	0	7	0	0	0	0	0	0	0	0	0
Rentichintala	37·3	−0·3	41·6	4	27·7	−0·1	23·3	27	10·4	71·6	−20·6	26·0	27	5	−1·6	17·5	13·9	−3·0	0	8	0	0	3	0	0	0	0	0	0
Gannavaram	37·0	..	43·0	2	27·9	..	22·6	27	117·6	269·0	..	150·4	27	9	..	26·2	19·2	..	2	9	0	0	5	0	0	0	1	0	0
Masulipatam	36·1	−0·7	42·3	2	27·5	+0·4	22·1	27	106·0	236·1	+128·9	112·0	27	9	+2·8	17·7	13·7	+1·6	0	11	0	0	1	0	0	0	0	0	0
Nidadavolu	36·4	..	43·7	4	..	..	..	..	53·0	134·0	..	28·0	16	8	..	21·1	14·3	..	1	11	0	0	1	0	0	0	0	0	0
Kakinada	36·4	+0·4	43·9	4	27·3	+0·1	22·7	27	15·4	95·3	−23·6	24·2	28	6	−1·1	15·7	12·3	+2·5	1	11	0	0	2	0	0	0	0	0	0
Visakhapatnam	36·4	−1·1	42·9	6	27·0	0	22·6	16	12·5	91·8	−13·4	67·3	16	4	−2·5	19·5	14·3	+2·4	0	7	0	0	7	0	0	0	0	1	0
Calingapatam	33·9	+0·1	43·0	6	26·2	−0.7	19·8	9,23	23·9	89·7	−29·[illegible]	30·0	30	8	+1·7	16·0	12·8	−0·1	1	9	0	0	0	0	0	0	0	0	0
Telangana																													
Ramagundam	36·4	..	43·0	2	..	..	..	..	18·0	356·8	..	73·6	27	10	..	3·9	7·5	..	0	10	0	0	6	0	1	0	0	0	0
Nizamabad	35·5	−0·6	39·9	1	24·7	−0·5	20·5	22	8·2	212·6	+65·0	49·6	26	10	+1·3	10·5	7·6	−1·7	0	11	0	0	1	0	0	0	0	0	0
Mahbubnagar	33·5	..	38·0	3, 4	23·9	..	21·0	27	30·5	152·1	..	55·7	8	9	..	15·5	13·9	..	0	11	0	0	3	0	0	0	0	0	0
Hyderabad (Begumpet Aerodrome).	33·4	−0·9	37·4	2	23·8	+0·2	21·0	6	17·6	72·2	−39·8	26·3	27	6	−0·5	26·8	24·6	+4·8	1	9	0	0	8	0	0	0	0	3	0
Hakimpet	32·1	..	36·8	2	22·9	..	20·3	22	11·7	91·0	..	18·6	27	7	.	..	..	..	0	10	0	0	9	0	0	0	0	0	0
Hanamkonda	36·2	−0·1	41·6	2	25·9	−0·5	21·5	22	19·6	186·8	+34·1	40·8	27	12	+3·8	16·4	13·8	+2·4	0	12	0	0	4	0	0	0	0	0	0
Bhadrachallam	36·3	..	42·7	2	27·3	..	23·4	25, 27	75·2	189·2	..	55·0	27	12	..	9·8	8·5	..	0	14	0	0	2	0	0	0	0	0	0
Khammamett	36·8	..	43·0	2	27·0	..	23·1	27	52·6	160·5	..	56·8	27	8	..	13·7	11·5	..	0	9	0	0	5	0	0	0	0	0	0
Rayalaseema																													
Arogyavaram	32·3	..	35·1	6	22·8	..	21·7	8	3·6	19·4	..	14·0	8	1	..	16·7	14·0	..	2	6	0	0	2	0	0	0	0	0	0
Cuddapah	36·8	−0·9	39·7	6	..	..	..	..	2·6	51·2	−23·7	29·0	7	4	−0·8	7·1	5·0	−5·9	0	5	0	0	0	0	0	0	0	0	0
Anantapur	35·3	..	38·0	6	25·0	..	22·1	27	6·6	18·6	−35·3	7·8	27	2	−1·3	22·4	19·6	..	0	6	0	0	2	0	0	0	0	0	0
Kurnool	35·1	−1·1	38·9	4	25·3	0	22·1	27	30·8	50·4	−24·0	23·4	8	3	−2·5	25·9	22·1	+5·8	0	6	0	0	2	0	0	0	0	0	0
Madras State																													
Palayamcottai	35·1	..	37·1	5, 15	23·3	..	20·4	28	0	0	−10·4	0	..	0	−1·1	23·1	16·3	..	0	0	0	0	0	0	0	0	0	0	0
Tuticorin	35·9	..	38·5	4	27·4	..	24·8	19	0	0	..	0	..	0	..	(g) 24·5	(h) 21·2	..	0	0	0	0	0	0	0	0	0	0	0
Pamban	32·0	−0·3	33·0	4, 10	27·6	+0·8	26·0	28	0	0	−3·8	0	..	0	−0·3	18·2	16·7	−2·5	0	0	0	0	0	0	0	0	0	0	0
Tondi	33·9	..	38·6	8	26·4	..	23·2	29	3·6	39·4	..	24·7	8	4	..	21·6	16·1	..	0	4	0	0	4	0	0	0	0	0	0
Mathurai	37·4	+1·2	39·7	4, 16	26·1	+0·5	22·9	16	9·4	15·6	−24·3	15·6	16	1	−1·5	9·3	7·3	−0·6	0	1	0	0	0	0	0	0	0	0	0
Mathurai (Aerodrome)	37·2	..	39·1	4	26·2	..	22·8	16	0	11·0	..	8·0	16	1	..	20·5	17·4	..	0	3	0	0	1	0	0	0	2	0	0
Adhiramapattinam	34·5	..	38·8	8	25·8	..	24·7	29	3·2	6·2	..	3·0	16	1	..	21·4	15·2	..	0	3	0	0	0	0	0	0	0	0	0
Nagapattinam	37·3	+0·8	40·2	5	26·8	+0·2	23·3	9	26·9	92·1	+60·9	39·4	9	4	+1·8	16·8	13·0	+2·5	0	5	0	0	3	0	0	0	0	0	0
Tiruchirapalli	37·4	+0·3	39·1	4	27·0	+0·9	25·3	28	0	0·3	−40·8	0·3	16	0	−2·4	35·2	31·4	+5·3	0	1	0	0	1	0	0	0	3	0	0
Coimbatore	31·5	−0·1	33·1	10	22·7	+0·5	21·0	30	1·6	1·6	−37·0	1·1	2	0	−4·2	22·4	17·3	+7·3	0	2	0	0	0	0	0	0	0	0	0
Coimbatore (Peelamedu Aerodrome)	32·6	..	34·6	10	22·3	..	20·3	30	0	2·2	..	1·6	30	0	..	43·3	34·2	..	0	2	0	0	0	0	0	0	6	0	0
Salem	34·4	−0·8	37·4	3	24·9	+1·1	23·8	10	4·8	28·2	51·3	12·2	12	2	−3·4	10·9	9·6	+2·5	3	6	0	0	7	0	0	0	0	0	0
Kallakurichi	37·8	..	40·4	4	26·8	..	23·7	22	12·4	43·2	..	18·4	22	4	..	11·9	10·6	..	0	8	0	0	4	0	0	0	0	0	0
Cuddalore	37·3	+0·3	39·7	2	26·2	−0·6	23·3	27	3·1	76·9	+41·6	38·8	22	6	+4·4	10·1	8·8	+0·3	0	7	0	0	4	0	0	0	0	0	0
Tirupattur	36·2	..	39·1	4, 16	25·8	..	23·0	28	0	5·6	..	3·0	17	2	..	9·8	6·4	..	0	2	0	0	5	0	0	0	0	0	0
Vellore	36·6	+0·4	40·3	7	25·5	−0·4	21·5	26	14·0	100·2	+29·8	29·2	8	6	+1·1	14·6	11·2	+2·7	0	10	0	0	9	0	0	0	0	0	0
Tambaram (Aerodrome)	..	..	..	..	27·2	..	21·9	23	1·8	82·1	..	37·6	23	4	..	..	..	..	0	6	0	0	1	0	0	0	0	0	0
Madras	37·3	−0·3	40·9	6	27·2	−0·1	22·9	16, 23	2·5	94·6	+47·4	54·4	16	6	+2·3	21·3	16·0	−1·5	0	10	0	0	7	0	0	0	0	4	0
Madras (Nungambakkam).	37·3	..	40·7	6	26·9	..	22·8	23	..	44·9	..	10·4	26	6	..	..	9·4	..	0	6	0	0	2	0	0	0	0	0	0
Coastal Mysore																													
Karwar	30·2	..	34·0	3	24·8	..	22·4	13	488·4	816·7	−123·9	214·1	13	23	0	18·7	15·7	..	0	26	0	0	0	0	0	0	0	0	0
Honavar	30·1	+0·6	31·8	5	24·0	−0·1	22·2	23	218·8	745·6	−324·5	86·4	12	26	+0·2	12·8	12·0	+6·4	0	30	0	0	9	0	0	0	0	0	0
Mangalore	30·2	+1·0	32·5	15	23·8	0	21·2	23	268·6	665·9	−285·9	138·7	12	25	+0·4	10·5	9·3	+0·6	2	27	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe Aerodrome).	29·0	..	30·6	5	23·4	..	21·5	23	462·1	1042·8	..	208·2	12	25	..	10·3	8·7	..	1	28	0	0	10	0	0	0	0	2	0
Interior Mysore (North)																													
Bidar	32·7	−1·1	36·5	2	22·5	+0·1	18·9	22	32·8	229·9	+112·8	110·0	27	10	+2·9	23·2	21·0	+0·7	1	14	0	0	7	0	0	0	0	0	0
Gulbarga	33·9	−1·5	38·0	4	23·4	0	21·2	27	61·2	127·4	+14·6	63·0	8	6	−0·9	21·3	19·0	+2·7	0	7	0	0	4	0	0	0	5	0	0
Bijapur	33·6	+0·2	37·7	2	22·7	+0·4	21·2	13	27·1	75·7	−1·0	22·4	9	7	+1·6	15·6	13·5	−0·3	0	9	0	0	1	0	0	0	0	0	0
Belgaum	27·8	+0·2	31·9	3	21·5	+1·2	20·1	2	59·4	123·7	−79·0	26·4	30	9	−3·9	16·3	11·5	−1·5	0	11	0	0	0	0	0	0	0	0	0

(g) Mean of 24 days. (h) Mean of 23 days. (k) Mean of 20 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days, (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	precipitation (0·1 and 0·2mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Tree Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Interior Mysore North—(*Contd.*)																													
Belgaum (Sambre Aerodrome).	28·7	.	32·3	4	21·1	..	20·0	18	39·0	86·3	..	18·3	30	6	..	..	..	..	0	14	0	0	0	0	0	0	0	0	0
Gadag	31·3	+0·2	35·3	3	21·8	0	20·1	27	49·0	55·1	−12·7	27·6	28	5	−0·6	17·7	19·2	+1·8	0	10	0	0	0	0	0	0	0	0	0
Raichur	35·1	−0.1	39·0	7	24·2	+0·4	21·4	27	29·1	67·7	−24·2	12·2	8	8	+2·0	20·8	20·1	+3.8	0	10	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	34·0	−0·8	36·7	6	24·9	+0·5	21·6	27	19·6	41·0	−2 2	35·0	8	2	−1·3	17·2	15·1	+2·4	0	2	0	0	2	0	0	0	0	0	0
Chitaldrug	29·7	−0·9	32·8	4,7	21·9	+0·7	20·1	23	38·4	47·6	−18·2	12·8	22	7	+1·8	14·3	13 8	+1·4	0	10	0	0	2	0	0	0	0	0	0
Shimoga	29·2	..	32·1	3	21·6	..	19·8	24	43 3	101·5	..	43·4	30	6	..	10·7	7·0	..	4	11	0	0	0	0	0	0	0	0	0
Balehonnur	24·3	−0·6	26.9	2,3,7	18·9	+0·1	17·7	24	..	360·6	−72·2	86·4	30	21	−0·1	..	..	..	0	29	0	0	0	0	0	0	0	0	0
Hassan	26.4	−0·8	29·3	11	19·6	+0·5	18·6	30	30·4	36·6	−55·1	18·2	30	3	−6·3	17 2	12·9	+1·6	0	14	0	0	1	0	0	0	0	0	0
Mysore	29·1	−0·3	31·3	4	20·3	+0·2	19·3	19,24	29·0	31·4	−31·1	23·2	12	2	−3·8	11·0	8·9	−5·3	0	7	0	0	0	0	0	0	0	0	0
Bangalore (Central Observatory)	29·3	+0·2	32·3	7	20·3	+1·0	19·1	24	25·3	56·4	−16·3	10·4	13	7	+1·1	20·1	17·3	+4·1	1	11	0	0	4	0	0	0	0	0	0
Bangalore (Aerodrome).	29·7	..	32·5	7	20·5	.	19·4	24	40·6	63·7	..	32·4	7	3	..	..	..	..	2	8	0	0	1	0	0	0	0	1	0
Kerala																													
Kozhikode	29·8	+0·5	31·4	5	23·3	−0·6	21·4	24,30	163·2	768·2	−72·0	166·6	12	23	−1·1	10·3	9·0	+0.1	0	25	0	0	5	0	0	0	0	0	0
Palghat	29·4	..	31·7	4	23·2	..	20·8	30	171·9	351·2	..	35·8	27	20	..	15·2	12·1	..	0	26	0	0	0	0	0	0	0	0	0
Fort Cochin	29·3	+0·3	31·4	30	24·4	+0·5	23·3	23,30	159·3	584·9	−138·5	100·0	11	23	−1·3	8·7	7·7	+0 1	0	26	0	0	8	0	0	0	0	0	0
Cochin (Naval Air Station).	30·0	..	39·9	1	24·4	..	22·8	30	168·8	602·6	..	108·4	11	26	..	9 9	8 3	.	0	27	0	0	14	0	0	0	0	1	0
Alleppey	29·9	..	31·7	5	24.4	..	22·7	13	51·0	424·8	..	86·6	7	17	..	11·8	11·1	..	0	22	0	0	6	0	0	0	0	0	0
Punalur	31·0	..	32·5	1	24·0	..	22·8	24	52·8	272·2	..	99·8	12	17	..	7·1	4·4	..	0	17	0	0	0	0	0	0	0	0	0
Trivandrum	31.8	−0·3	31·0	30	23·6	−0·1	22.0	12	63·1	199·5	−135·3	121·9	12	20	+2·9	15·1	9·8	+1·3	1	19	0	0	0	0	0	0	0	0	0
Trivandrum (Aerodrome)	30.1	..	32·5	1	24·0	..	22·2	24	..	186·1	..	102·8	12	10	..	..	6·3	..	0	17	0	0	0	0	0	0	0	0	0
Arabian Sea Islands																													
Minicoy*																													
Amini divi*																													
Hill Stations excluding Kashmir																													
Walong (R).																													
Kohima	24.7	..	28·0	10	18·6	..	17·2	8,25	107.8	302·0	..	81·2	29	20	..	..	..	..	0	22	0	0	0	0	0	0	0	0	0
Aijal	25·8	..	28·4	6,8	19·6	..	16·1	13	150·9	506·5	..	75·2	30	19	..	1·2	0.8	..	0	21	0	0	0	0	0	0	0	0	0
Shillong	24·0	+0·4	26·7	10	17·5	+0·3	16·0	7	247·2	395·0	−66·3	77·6	13	21	+1·0	4·4	4.8	+0·3	0	26	0	0	6	0	0	0	0	0	0
Cherrapunji †	22·6	+0·4	..	..	18·1	+0·2	..	..	305·9	1532·4	..	..	..	14	..	12 1	12·2	+2·7	0	14	0	0	0	0	0	0	0	0	0
Darjiling (Raj Bhawan)	19·6	+0·8	23·2	10	15·1	+0·6	13·9	6	76·4	224·6	−389·6	42·1	11	17	−4·0	2·6	2·2	−1·0	0	21	0	0	4	22	0	0	0	0	0
Kalimpong	26.9	−2·9	31·1	28	17·7	−1·4	14·7	15	19·8	151·1	−218·5	48·3	25	12	−4·4	10·1	8·6	−0.7	0	14	0	0	0	3	0	0	0	0	0
Mukteswar (Kumaon).	24.8	+1·9	29·3	8	15·0	+0·6	10·2	16	54·0	88·4	−98·0	27·2	23	8	−2·1	18·2	16·2	+6·2	0	13	0	0	11	0	0	0	0	0	0
Nainital	24·5	..	27·8	15	16·8	..	13·9	15,16	92·0	124·5	..	31·0	29	10	..	10·5	7·5	..	0	13	0	0	0	0	0	0	0	0	0
Joshimath	28 1	..	32·5	8	16·4	..	12·1	16	27·3	211·5	..	55·8	25	13	..	8·7	7·4	..	0	15	0	0	0	0	0	0	0	0	0
Badrinath	18.6	...	22·0	7	11·8	..	6·1	14	..	37·7	..	6·0	17, 30	6	..	..	..	..	0	13	..	..	..	..	..	..	..	..	..
Lokpal	8·6	..	11·7	10	1·3	..	−1·0	15	..	185·0	..	37·0	28	15	..	..		..	2	15	..	..	..	..	..	..	..	..	..
Mussooree	25·4	+1·5	29·2	11	16·4	+0·3	9·1	15	49·9	118·2	−104·8	28·4	15	8	−2.2	10·8	8·8	−0·1	0	8	0	0	8	0	0	0	0	0	0
Simla	25·8	+1·9	29·8	12	16·3	+0·7	8·5	15	21·9	165·9	+12·5	40·5	23	12	+2·2	5·9	4·3	+2·0	0	13	0	0	7	0	0	0	0	0	0
Dharampore	...	..	..	..	..	..	..	..	..	108·3	−18.7	42·0	15	7	+0·5	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Dalhousie	30·1	..	35·5	9	18·6	..	11·4	15	..	145·7	+15·9	99·5	14	4	−2·1	3.7	4.8	..	0	4	0	0	0	0	0	0	0	0	0
Dharamshala	33·6	..	38·2	8	23·2	..	18·4	27	84·4	153·6	..	58·8	25	8	..	10·3	7.2	..	0	9	0	0	14	0	0	0	0	0	0
Abu	29·3	−0 6	31·2	2,9	20·4	+0·1	17·6	21	25·2	101·2	−16.9	39·2	21	6	+0·2	6·4	5·5	−7·4	0	10	0	0	4	0	0	0	0	0	0
Pachmarhi	32·2	+1·2	36·6	9	22·7	+0·5	19·9	27	48·0	195·8	−33·8	72·4	27	12	+1·7	10·2	10·0	0	0	14	0	0	15	1	0	0	0	0	0
Mahabaleshwar	21·3	−0·1	26·2	6	16·6	−0·3	14·3	26	451·3	1186·5	+102·2	201·0	29	23	+0·8	15·6	16·2	−0·2	0	27	0	0	4	27	0	0	0	0	0
Mercara	22·0	−0·3	25·4	6	17·4	+0·1	16·4	23	260 5	465·6	−182·3	64 7	26	22	−1·2	15·7	13.4	+4·2	0	26	0	0	0	0	0	0	0	0	0
Kodaikanal	19·4	+1·3	21.5	5	12·1	+0·3	10·3	27	81·9	85·9	−21·8	37·8	16	5	−4·9	14·3	14·5	−0·6	0	10	0	0	2	0	0	0	0	0	0
Ootacamund	18·5	+0·7	22·3	5	10·1	−1·2	8·9	5 days	49·4	67·6	−99·3	15·8	11	8	−6·1	8.8	5·3	−3·2	1	13	0	0	1	0	0	0	0	0	0
Coonoor	22·9	+0·3	24·5	12	15·1	0	12·2	5,18	..	54.2	−17·2	16·0	12	5	−1·0	..	9.8	+2·7	2	8	0	0	1	0	0	0	0	0	0
Nepal																													
Katmandu	28·6	..	31·8	2	19.2	..	16·6	4	68·8	208·1	..	35·9	11	12	..	2·5	1 4	..	0	23	0	0	0	17	0	0	0	0	0

†Observations for 17 days. *Data given as addenda in December 1960 issue. (R) Register not received

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. and more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Sikkim																													
Lachen	17·5	..	20·6	26	11·2	..	8·6	7,8	..	340·4	..	35·4	16	25	..	..	..	..	0	27	0	0	0	0	0	0	0	0	0
Tibet																													
Yatung (Chumbi) (R)																				..									
Ceylon																													
Colombo	29·8	−0·2	30·7	5	25·7	+0·5	23·1	25	57·1	124·9	−87·7	21·1	11	12	−2·0	..	..	..	0	17	0	0	4	0	0	0	0	0	0
Trincomalee	34·4	+0·8	36·3	14	26·5	+0·7	24·8	17	0·7	2·5	−21·4	1·5	17	0	−1·6	..	..	..	0	2	0	0	1	0	0	0	0	0	0
Batticoloa	34·3	..	36·3	12	25·2	..	23·1	29	28·9	45·0	..	42·7	17	1	..	..	..	..	0	4	0	0	7	0	0	0	0	0	0
Hambantota	31·1	+0·7	34·7	10, 13	25·6	+0·7	24·3	27	16·1	17·6	−35·5	13·7	27	1	−4·8	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Mannar	31·3	.	32·2	10	27·0	..	26·1	24	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories.																													
Damodar Catchment.																													
Bokaro	37·9	..	45·1	15	27·5	..	23·0	19	57·0	114·4	..	59·6	19	4	..	6·3	4·6	..	0	9	0	0	0	0	0	0	0	0	0
Hazaribagh	35·0	.	41·2	15	25·	..	21·7	20	79·8	121·9	..	67·0	20	4	..	13·7	8·4	..	0	10	0	0	10	0	1	0	0	0	0
Tilaiya	36·9		43·1	15	27·6	..	24·7	21	37·6	43·8	..	20·6	21	3	..	14·3	11·3	..	0	6	0	0	3	0	0	0	0	0	0
Ramgarh	40·6	.	44·7	3	27·8	..	20·6	22	0	73·9	..	25·0	19	4	..	4·9	3·6	..	0	8	0	0	1	0	0	0	0	0	0
Panchet Hills	37·5	.	44·7	15	27·6	..	22·5	6	92·7	167·8	..	73·4	21	5	..	13·6	11·5	..	0	6	0	0	11	0	0	0	0	0	0
Durgapur	36·1	.	41·1	15	25·6	..	23·3	17	87·0	95·6	..	19·5	20	11	..	..	..	..	0	15	0	0	5	0	0	0	0	0	0
Maithon	37·5	.	44·8	15	26·0	..	20·6	8	..	108·6	..	40·3	21	6	..	..	..	..	0	11	..	..	..	..	..	..	..	..	..
Konar	..	..	..	..	..	..	.	..	..	97·0	..	34·8	20	6	..	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Mahanadi Catchment.																													
Hirakud	37·8		44·4	4	27·7		22·7	20	119·3	305·8	..	72·6	25	10	..	8·5	7·3	..	0	15	0	0	6	0	0	0	0	0	0
Khijrawan	34·5	.	41·7	5	25·3	..	21·9	21	64·4	237·0	..	65·0	21	13	..	(b) 15·5	10·2	..	0	15	0	0	0	0	0	0	0	0	0
Sonepur	37·3		43·9	6	..	..	..	..	..	258·1	..	67·4	19	9	..	..	9·4	..	0	10	..	.	..	..	.	..	..	..	..
Ginabahar	37·5		43·5	4	25·6	..	22·7	18	..	103·8	..	35·9	9	8	..	..	..	..	0	10	..		..	..	..	..	..		..
Bhimkund	35·6		41·8	6	25·4	..	22·4	19	175·8	211·6	..	56·2	8	11	..	3·7	2·0	..	1	17	0		17	0	0	0	0	0	0
Narbada Catchment.																													
Punasa	40·8		45·1	5 days	24·8		20·6	30	13·8	77·6	..	19·5	20	7	..	12·3	10·2	..	0	9	0	0	0	0	0	0	0	0	0
Bagra Tawa	38·8		43·9	10	27·7	.	23·8	27	58·2	60·3	..	22·0	23	7	..	10·0	8·1	..	0	12	0	0	4	0	3	0	0	0	0
Thikri	37·7		41·3	14	26·7	.	22·3	22	..	110·9	..	27·0	23	7	..	..	..	..	0	11	0	0	2	0	0	0	0	0	0
Sabarmati Catchment																													
Jhadol	35·4		38·1	1, 8	24·3		21·4	26	..	6·8	..	2·5	26	1	..	..	..	..	0	3	..		..			..	..	..	..
Dharoi	38·3		40·4	18 2, 8	27·1		25·0	15	25·6	107·0	.	43·0	19	9	..	..	..	..	0	9	..	..	..	..		.	..	..	..
Ganga Catchment																													
Mukhim	27·3	..	30·6	8, 12	17·2	..	11·2	15	16·6	242·3	..	100·0	19	10	..	..	..	..	1	12	..		..	.			..	.	..
Tehri	38·1	..	42·0	11	23·4		17·0	16	3·0	31·6	..	16·8	15	4	..	7·7	5·4	..	0	6	0	0	7	0	0	0	0	0	0
Gandak Catchment																													
Gorkha (R)																													
Pokhara	30·2	..	33·3	10	21·3	.	17·7	4	30·7	540·8	..	173·2	25	17	..	6·0	4·3	..	0	24	0	0	24	0	0	0	0	0	0
Nawakot	31·4	..	38·8	4	21·1	..	18·5	6	17·8	178·7	..	61·0	13	11	..	..	..	..	1	17	..	..	..	..	..	..	..	..	..
Jomosom	23·8	..	26·3	10	12·2	..	7·5	1	0	25·8	..	12·2	22	3	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..		..	..	.	5 8 5	..	104·2	13	23	..	..	..	..	1	26	..	..	..	..	..	..	..	.	..
Tinure	27·1	.	31·7	10	17·6	..	14·9	6	11·4	172·1	..	28·5	23	15	..	..	..	..	0	17	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region).																													
Dailekh (R)																													
Gogra Catchment																													
Dandeldhura	27·6	..	31·9	5	(b) 17·4	..	(b) 14·4	17	44·8	93·1	..	18·4	23	7	..	..	..	..	1	13	0	0	7	3	0	0	0	0	0
Munsiyari	23·1	..	27·6	3	..	..	..	..	141·5	344·1	..	80·5	12	15	.	..	..	..	0	17	..	..	..	..	..	..	..	..	..
Butwal	35·8	..	41·9	4	(b) 25·9	..	22·9	12, 14	51·6	470·1	..	126·0	25	13	..	.	..	..	0	14	..	..	..	..	..	..	..	..	..
Bagmati Catchment.																													
Katmandu*																													

*Data included under "Nepal". (R) Register not received. (b) Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—*Contd.*																														
Kosi Catchment																														
Chautara	28·1	..	32·0	10	18·5	..	16·6	13	28·0	247·6	..	41·1	13	14	..	..	..	..	0	21	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	55·2	506·8	..	55·4	30	27	..	..	..	..	0	27	..	..	..	..	..	..	..	..	..
Okhaldunga	24·6	..	27·3	9	16·8	..	15·1	13	68·2	427·8	..	115·6	23	21	..	3·4	3·3	..	0	22	0	0	17	9	0	0	0	0	0
Barahkshetra	32·2	..	36·1	10	24·3	..	21·8	13	268·5	582·7	..	70·8	28	19	..	9·6	6·0	..	1	23	0	0	18	0	0	0	0	0	0
Angbung	29·4	..	33·2	10	18·9	..	17·3	2	34·0	199·8	..	24·0	11	16	..	..	..	..	0	19	..	..	..	..	..	..	..	..	..
Taplejung	24·6	..	27·2	10	16·9	..	14·9	2	32·1	340·0	..	67·3	25	22	..	..	..	..	1	24	0	0	7	12	0	0	0	0	0
Taplethok	27·9	..	31·0	11	18·4	..	16·6	7	45·4	492·6	..	62·0	26	34	..	..	..	..	0	27	..	..	..	..	..	..	..	..	..
Wallungchung Gola	16·1	..	19·4	10	9·1	..	7·0	6,7	49·9	219·9	..	25·6	19	19	..	..	..	..	1	26	..	..	..	..	..	..	..	..	..
Bhojpur	25·2	..	27·7	11	..	..	..	..	49·0	220·2	..	83·8	25	11	..	..	..	..	0	12	..	..	..	..	..	..	..	..	..
Chainpur	28·7	..	32·4	10	20·0	..	18.0	11	14·2	186·5	..	65·1	11	12	..	..	..	..	0	18	..	..	..	..	..	..	..	..	..
Tista Catchment																														
Gangtok	22·5	..	26·7	10	16·1	..	14·7	7	57·4	827·3	..	125·5	6	26	..	1·2	2·7	..	1	28	0	0	4	17	0	0	0	0	0
Geyzing	25·4	..	30·7	10	17·9	..	16·5	7	17·0	306·0	..	37·1	25	20	..	..	..	..	0	25	..	..	..	..	..	..	..	..	..

Division and station.	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in c.p.m. of standard nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Island																											
Maya Bandar	0830	28	1006·8	1003·7	..	27·5	26·2	25·7	33·1	90	..	6·0	..	11·2	0	0	28	0	0	0	0	0	22	0	0	2	6
	1730	„	1005·0	1001·8	..	26·5	26·0	25·7	32·9	93	..	6·1	..	11·7	0	3	25	0	0	0	0	0	16	1	0	2	11
Long Island	0830	25	1007·3	1004·5	..	27·5	25·8	25·0	31·9	87	..	6·6	..	2·1	0	0	19	0	0	0	0	2	14	3	0	11	0
	1730	„	1005·1	1002·3	..	27·1	25·4	24·5	31·1	86	..	6·9	..	3·4	0	0	23	0	0	0	0	2	15	5	1	7	0
Port Blair	0530	79	1006·8	997·8	..	25·5	24·7	24·3	30.4	93	..	7·0	..	11·7	0	6	22	0	0	0	0	1	19	7	1	2	[illegible]
	0830	„	1007·7	998·9	+0·4	27·6	25·7	24·8	31·3	85	+3	7·6	+0·3	15·6	0	7	23	0	0	0	0	0	21	8	1	0	0
	1130	„	1007·0	998·1	..	28·1	25·8	24·7	30·4	82	..	7·1	.	17.9	0	9	21	0	1	0	0	1	22	6	0	0	0
	1730	„	1005·9	997·0	..	26·5	25·1	24·4	30·2	89	..	6·9	..	14·3	0	6	24	0	0	0	0	0	21	8	0	1	0
	2330	„	1007·1	998·2	..	25·5	24·7	24·3	30·4	93	..	6·2	..	14·1	0	4	26	0	0	0	0	3	20	7	0	0	0
Car Nicobar	0830	10	1008·8	1007·6	..	27·5	25·6	24·8	31·1	86	..	7·5	..	6·1	0	0	26	0	0	0	0	1	23	2	0	4	0
	1730	„	1006·7	1005·5	..	27·2	25·4	24·6	30·9	86	..	6 9	..	5·7	0	0	26	0	0	0	0	1	23	2	0	4	0
Nancowry	0830	26	1009·6	1006·7	..	27·9	25·7	24·8	31·1	83	..	6·5	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..
	1730	„	1007·4	1004·5	..	27·6	25·4	24·4	30·7	83	..	5·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kondul	0830	8	1009·2	1008·3	..	27·7	25·4	24·4	30·8	82	..	6·9	..	12·0	0	5	24	0	1	0	27	0	1	0	0	1	0
	1730	„	1007·6	1006·6	..	27·2	25·1	24·2	30·0	84	..	6·5	..	9·2	0	3	22	0	0	0	25	0	0	0	0	5	0
Assam (Including Manipur and Tripura)																											
Pasighat	0830	157	1003·5	985·9	..	26·1	23·8	22·7	27·6	83	..	7·6	..	7·5	0	2	21	3	1	2	0	0	1	1	15	7	0
	1730	„	999·4	982·4	..	28·5	25·1	23·6	29·0	76	..	6·2	..	4·9	0	3	13	1	3	1	1	1	0	0	9	14	0
Digboi	*0830	..	..	..	..	26·4	25·2	24·1	31·1	89	..	6·4	..	..	0	0	20	0	7	7	2	0	0	2	2	0	0
	†1730	..	..	..	..	28·7	25·8	24·4	30·9	79	..	5·7	..	..	0	0	17	5	5	3	3	0	0	0	1	0	0
Dibrugarh	0830	106	1003·1	990·9	−0.4	26·3	25·0	24·3	30·6	88	+1	7·2	×0·1	2·2	0	0	17	3	4	6	0	0	1	2	1	13	0
	1730	„	999·3	987·5	..	29·3	26·1	25·1	31·1	79	..	5·3	..	1·4	0	0	11	1	2	5	1	0	2	0	0	19	0
Dibrugarh (Mohanbari Aerodrome)	0230	111	1000·8	988·6	..	24·9	23·7	23·5	28·2	93	..	(b) 6·0	..	(b) 1·7	0	0	9	1	4	2	2	0	0	0	0	20	0
	0530	„	1002·3	989·8	..	24·8	23·9	23·1	29·1	93	..	7·0	..	2·8	0	0	12	1	5	3	0	0	1	1	1	18	0
	0830	„	1003·4	990·9	..	26·8	24·0	24·1	29·9	86	..	(b) 6·9	..	(b) 5·1	0	0	20	0	9	7	0	0	1	2	1	9	0
	1130	„	1002·4	990·0	..	28·5	25·7	24·3	30·8	80	..	6·7	..	5·1	0	0	24	2	15	4	0	0	1	1	1	6	0
	1730	„	999·4	987·1	..	29·6	25·8	24·3	30·1	75	..	5.8	..	2·2	0	0	19	1	14	1	0	0	2	1	0	11	0
	2330	„	1001·3	988·8	..	25·5	24·4	23·8	29·8	91	..	(b) 5·5	..	(b) 1·7	0	0	6	0	6	0	0	0	0	0	0	23	0
North Lakhimpur	0830	102	1003·3	991·9	..	26·6	24·9	24·2	30·1	88	..	6·9	..	..	0	0	24	5	12	2	1	1	1	0	2	6	0
	1130	„	1002·6	991·2	..	28·3	25·9	24·9	31·4	82	..	6·6	..	..	0	1	25	3	6	5	6	3	2	0	1	4	0
	1730	„	999·8	988·5	..	28·9	26·4	25·5	32·4	81	..	3·8	..		0	0	25	3	8	7	3	0	2	1	1	5	0
Sibsagar	0830	97	1003·6	992·8	+0·7	27·8	25·7	24·9	31·4	85	.	7·2	−1·1	3·3	0	0	22	2	11		4	0	4	0	0	8	
	1730	„	999·8	989·1	..	29·8	26·7	25·5	32·5	78	..	5·9	..	3·5	0	0	26	6	11	0	2	2	4	0	1	4	0
Jorhat	0530	90	1001·6	991·5	..	25·1	24·7	24·4	30·7	96	..	7·0	..	..	0	0	17	4	4	2	0	1	4	2	0	13	0
	0830	„	1002·8	992·7	..	27·5	25·6	24·8	31·1	86	..	7·0	..	..	0	0	25	5	9	1	1	2	5	1	1	5	0
	1130	„	1001·6	991·7	..	29·4	26·5	25·2	32·2	79	..	6·3	..	..	0	0	30	4	16	1	0	4	3	0	2	0	0
	1730	„	999·7	987·8	..	29·3	26·3	24·9	31·9	78	..	5·6	..	..	0	0	25	2	15	1	0	0	4	1	2	5	0
	2330	„	1010·8	990·7	..	28·1	25 4	25·1	31·9	83	..	5·0	..	..	0	0	15	3	6	1	0	1	3	1	0	15	0
Golaghat	0830	..	..	..	..	28·4	25·9	24·9	31·4	82	..	6·2	..	..	0	0	0	0	0	0	0	0	0	0	0	30	0
	‡1730	..	..	..	..	29·9	26·7	24·8	32.1	77	..	5·2	..		0	0	0	0	0	0	0	0	0	0	0	28	0
Gohpur (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Tezpur	0830	79	1003·9	995·1	+0·7	27·4	25·7	25·2	31·5	87	+3	6·6	+0·4	3·0	0	0	28	1	12	9	0	4	2	0	0	2	0
	1730	„	1000·2	991·5	..	29·4	26·6	25·7	32·5	79	..	5·0	..	2·3	0	0	20	1	8	7	1	1	1	1	0	10	0
Tezpur(P.B.O.)	0230	78	1001·1	992·2	..	25·9	25·0	24·8	31·1	93	..	5·9	..	..	0	0	4	0	2	1	0	0	0	1	0	26	0
	0530	„	1002.2	993·3	..	25·7	24·7	24·2	30·4	93	..	6.7	..	..	0	0	14	1	2	7	1	1	2	0	0	16	0
	0830	„	1003·4	994·6	..	27·6	25·7	24·7	31·4	85	..	5·8	..	..	0	0	22	4	4	6	1	0	3	3	1	8	0
	1130	„	1002·4	993·6	..	29·7	26·2	24·5	30·9	75	..	5·7	..	..	0	0	24	1	4	9	0	3	3	3	1	6	0
	1730	„	999·6	991·2	..	29·4	26·5	25·3	32·2	79	..	5·2	..	..	0	0	13	1	0	8	1	1	1	1	0	17	0
	2330	„	1001·6	992 8	..	26·7	25·7	23·3	32·3	92	..	5·6	..	..	0	0	8	0	3	4	0	1	0	0	0	22	0
Majbat	0830	..	..	..	..	..	..	..	..	..	..	7·6	..	5·6	0	0	27	1	4	8	2	2	6	3	1	3	0
	1730	..	..	..	..	..	..	..	..	..	..	5·9	..	3·3	0	0	18	1	3	4	2	4	3	1	0	12	0
Chaparmukh	0830	66	1003·7	996·6	..	28·6	26·1	25·1	31·6	82	..	6·3	..	5·2	0	0	28	0	1	3	13	0	3	4	4	2	0
	1730	„	999·7	992·5	..	29·5	26·6	25·5	32·4	77	..	5·1	..	3·9	0	0	21	3	6	0	4	0	4	2	2	9	0
Tangla	0830	78	1002·5	993·7	..	27·5	25·8	25·0	31·9	86	..	5·2	..	1·3	0	0	9	0	1	0	1	0	3	4	0	21	0
	1730	„	998·7	990·1	..	30·1	27·1	26·1	33·5	80	..	3·0	..	0 5	0	0	5	0	0	1	1	1	2	0	0	25	0
Gauhati	0830	55	1002·9	996·6	+0·4	27·8	25·7	24·8	31·2	85	+3	6·4	+0.2	1·6	0	0	16	1	3	1	2	0	2	0	7	14	0
	1730	„	998·9	992·7	..	30·2	26·6	25·1	31.9	74	..	5·2	..	1·3	0	0	13	2	4	3	1	0	1	2	0	17	0

* Observations for 30 days. †Observations for 17 days. (b) Mean of 29 days. ‡Observations for 28 days. (R)Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (including Manipur and Tripura)—*Contd.*																											
Gauhati (Bhorjor Aerodrome).	0230	54	1000·6	994·4	..	26.2	25·2	24·9	31·2	93	..	6·0	..	3·1	0	0	14	1	5	2	0	2	3	0	1	16	0
	0530	,,	1001·5	998·7	..	25·9	25·1	24·8	31·1	93	..	7·2	..	2·5	0	0	15	0	5	1	1	4	4	0	0	15	0
	0830	,,	1002·8	996·7	..	28·1	25·8	24·7	31·4	82	..	6·8	..	5·9	0	0	25	3	4	4	0	1	6	4	3	5	0
	1130	,,	1001·3	998·9	..	30·1	26·5	25·0	31·7	75	..	6·3	..	8·9	0	1	27	8	8	1	0	1	0	7	3	2	0
	1730	,,	999·0	993·1	..	30 0	26·4	24·7	32·0	75	..	5·9	..	6·2	0	0	27	5	4	4	2	2	1	5	4	3	0
	2330	,,	1001·0	994·8	..	26·9	25·7	25·3	32·1	91	..	5·4	..	2·6	0	0	14	1	8	0	1	1	3	0	0	16	0
Rangiya	0830	..	..	..	..	28.0	25·7	24·6	29·2	83	..	5·2	..		0	0	30	2	6	12	2	1	2	5	0	0	0
	1730	..	..	..	..	30·7	26·8	25·0	32·1	72	..	3·4	..	..	0	0	25	1	3	8	1	0	4	6	2	5	0
Goalpara	0830	38	1002·5	998·1	..	27·5	25·7	24·4	31·4	84	..	6·5	..	..	0	0	24	1	2	3	4	0	4	4	6	6	0
	1730	,,	999·1	994·6	..	30·2	27·1	26·1	33·4	79	..	5·3	..	..	0	0	27	0	8	1	5	0	4	2	7	3	0
Dhubri	0830	35	1003·3	999·3	+1·1	27 4	25·7	24·9	31·6	87	+1	5·2	−0·9	2·5	0	0	17	0	6	2	2	2	3	0	2	13	0
	1730	,,	999·6	995·7	..	27 9	26·8	25·7	34·3	82	..	4·5	..	1·1	0	0	7	0	4	0	0	2	0	0	1	23	0
Dhubri (Rupsi Aerodrome).	0530	36	1000·7	996·6	..	25·4	24·8	24·5	30·9	95	..	6·7	..	2·8	0	1	9	1	1	2	1	2	1	1	1	20	0
	0830	,,	1001·8	997·7	..	27·5	25·5	24·7	31·0	86	..	6·8	..	4·4	0	0	24	0	3	6	7	3	4	1	0	6	0
	1130	,,	1001·0	997·0	..	29·6	26·5	24·9	32·1	77	..	5·5	..	6.5	0	0	27	0	1	5	8	6	5	1	0	3	0
	1730	,,	998·1	994·1	..	30·0	26·8	25·6	32·6	78	..	4·9	..	3·0	0	0	19	0	2	5	3	3	5	0	1	11	0
Tura	0830	370	1004·5	963·6	..	25·9	23·8	22·9	27·7	84	..	7·5	..	5·5	0	0	26	2	3	5	2	5	3	6	0	4	0
	1730	,,	999·8	960·9	..	28·8	25·2	24·1	29·2	77	..	6·6	..	7·6	0	0	28	0	0	3	4	7	8	5	1	2	0
Agartala	0230	16	1000.8	999·0	..	26·1	25·5	25·2	32·1	95	..	5·1	..	7·6	0	1	25	0	0	3	15	5	0	0	3	4	0
	0530	,,	1001·4	999·6	..	26·1	25·4	25·2	32·0	95	..	6·3	..	8·7	0	1	28	1	2	5	14	7	0	0	0	1	0
	0830	,,	1002·3	1000·5	..	28 4	26·1	25·1	32·0	83	..	6·2	..	11.9	0	1	29	1	2	3	12	10	1	0	1	0	0
	1130	,,	1001·6	999·8	..	30·5	26 5	25·3	31·4	78	..	5·8	..	12·0	0	3	27	1	1	2	7	13	4	1	1	0	0
	1730	,,	999·0	997·3	..	29·6	26·8	25·6	33·1	80	..	5·8	..	10·3	0	0	30	1	1	1	5	13	7	1	1	0	0
	2330	,,	1001·2	999·4	..	26·4	25·8	25·3	33·2	92	..	4·8	..	9·3	0	2	25	0	1	2	12	11	1	0	0	3	0
Kailashar	0530	29	1002·6	999·3	..	25·9	25·5	24·5	32·3	94	..	6·7	..	1·7	0	0	9	0	3	1	1	4	0	0	0	21	0
	0830	,,	1003·5	1000·3	..	27.8	25·5	24·4	30·8	82	..	3·1	..	4·7	0	0	26	3	5	1	3	11	3	0	0	4	0
	1130	,,	1002·6	999·3	..	30·1	26·4	25·0	31·6	75	..	6·6	..	4·8	0	0	21	4	4	2	3	5	2	0	1	9	0
	1730	,,	1000·1	996·9	..	29·8	26·5	25·1	31·9	77	..	6·5	..	4·0	0	0	20	8	2	0	2	2	3	0	3	10	0
Silchar	0830	29	1003·8	1000·5	+0·3	28·0	25·9	24·9	31·6	84	0	5·6	−0·5	2·7	0	0	27	2	8	4	3	1	4	4	1	3	0
	1730	,,	999·9	996·6	..	29·8	26·2	24·6	31·2	75	..	4·2	..	2.0	0	0	19	0	2	4	2	1	2	5	3	11	0
Silchar (Kumbhigram Aerodrome)	0530	97	1001·6	990·7	..	24·4	24·0	23·7	29·6	96		6·9	..	5·4	0	0	24	0	3	16	1	0	2	1	1	6	0
	0830	,,	1002 3	991·6	..	27 5	25·6	24·7	31·1	85	..	6·4	..	7·0	0	0	29	0	1	12	6	2	1	3	3	1	1
	1130	,,	1001·2	990·5	..	29 6	26·1	24·5	31·0	76	..	6·1	..	8·9	0	0	29	1	0	4	4	4	5	6	5	1	0
	1730	,,	998·4	987·7	..	29·2	25 7	24.2	30·3	75	..	5·4	..	8·3	0	1	27	0	1	3	3	2	5	10	4	2	0
Imphal	0530	801	1004·5	917·2	..	22·3	21 3	20·9	24·5	91	..	6·5	..	0·6	0	0	4	0	0	1	0	0	1	1	1	26	0
	0830	,,	1004·5	917·9	..	25·4	22 4	20 9	24·8	77	..	6·3	..	3·5	0	0	22	1	2	2	4	7	5	0	1	8	0
	1130	,,	1002·3	916·6	..	27·7	22·8	20·5	24·1	66	..	6·3	..	9·6	0	2	25	2	0	0	3	8	8	2	4	3	0
	1730	,,	1000·2	914·4	..	26·7	22·5	20·5	24·2	70	..	6·3	..	4·7	0	0	20	1	1	0	0	1	10	4	3	10	0
	2330	,,	1003·3	916·6	..	23 6	22·9	21·2	25·2	87	..	5·6	..	2·2	0	1	7	0	0	0	0	1	3	0	4	22	0
Haflong	0830	682	1003·2	928·7	..	23·9	22·3	21·4	25·7	86	..	5·4	..	7·2	0	0	28	3	0	0	0	8	17	0	0	2	0
	1730	,,	908·1	924·6	..	26·5	23·3	22·1	26·3	77	..	4·7	..	9·7	0	1	29	1	0	1	2	5	20	0	1	0	0
Lumding	0830	149	1002·6	986·0	..	28·3	26 3	25·4	32·6	85	+4	5·9	..	1·3	0	0	13	0	1	2	4	0	4	0	2	17	0
	1730	,,	998·8	982·3	..	30·6	28.6	27 8	37·6	86	..	4·5	..	1·4	0	0	13	1	2	0	4	1	1	0	4	17	0
Sub-Himalayan West Bengal.																											
Cooch-Behar	0830	43	1002·3	997·5	..	27.2	25·4	24 4	31·1	86	..	6·6	..	6 5	0	0	25	0	6	11	6	2	0	0	0	5	0
	1130	,,	1001·4	996·7	..	29·6	26 3	24·9	31·5	77	..	6·2	..	7·4	0	1	28	0	3	12	9	3	0	1	0	1	1
	1730	,,	998·6	993·9	..	29·5	26·6	25·1	32·2	76	..	5·3	..	4·7	0	0	21	0	6	7	6	0	0	1	0	9	1
Jalpaiguri	0830	83	1002·3	993·0	+0·2	27·0	25·2	24·4	30·7	87	+1	5·3	+0·5	7·2	0	0	28	2	5	16	2	1	0	1	1	2	0
	1730	,,	998·5	989·4	..	30·3	26 7	23·1	32·1	74	..	4·3	..	6·8	0	0	29	2	6	9	7	3	2	0	0	1	0
Bagdogra	0230	131	1000·1	985·5	..	26·0	24·7	24.2	30·2	90	..	6·8	..	6·3	0	0	28	8	7	10	2	1	0	0	0	2	0
	0530	,,	1000·8	986·1	..	24·9	24·3	23·9	30·0	95	..	7·2	..	5·4	0	0	23	4	8	9	1	0	0	1	0	7	0
	0830	,,	1002·1	987·4	..	27·6	25·4	24·4	30·7	83	..	6·7	..	8·2	0	0	29	0	3	19	4	1	2	0	0	1	0
	1130	,,	1001·2	986·7	..	30·0	26·5	25·0	31·8	75	..	6·5	..	9·1	0	0	29	2	3	11	8	4	0	0	0	1	1
	1730	,,	998·5	984·0	..	29·3	26·0	24·6	30·9	77	..	6·4	..	7·5	0	0	30	2	7	9	8	1	3	0	0	0	0
	2330	,,	1000·7	986·0	..	27·0	25·4	24·7	30·9	88	..	6·0	..	5·1	0	0	25	6	8	8	2	0	1	0	0	5	0
Malda	0830	31	1001·3	997·8	+0·2	29·6	26·6	25·4	32·4	79	−2	6·2	+1·2	9·4	0	0	30	1	4	8	13	4	0	0	0	0	0
	1730	,,	997·8	994·3	..	31·8	27·6	25·6	33·3	71	..	5·1	..	7·5	0	0	30	0	2	14	10	4	0	0	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in Meter	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal																											
Dum Dum	0230	6	999·3	998·6	..	27·7	26·5	26·0	33·8	91	..	4·1	..	4·8	0	0	26	0	2	4	8	9	3	0	0	4	0
	0530	"	999·8	999·1	..	27·4	26·4	25·9	33·3	91	..	6·1	..	5·1	0	0	26	0	5	7	3	9	2	0	0	4	0
	0830	"	1000·7	1000·0	..	30·7	27·5	26·2	34·1	77	..	6·2	..	7·7	0	0	27	0	3	2	7	10	4	0	1	2	0
	1130	"	1000·1	999·4	..	32·6	27·8	25·8	33·6	68	..	5·8	..	9·4	0	0	30	0	3	3	8	12	3	1	0	3	0
	1730	"	997·9	997·2	..	31·2	27·2	25·6	32·9	73	..	4·9	..	8·0	0	0	30	1	1	1	9	16	1	1	0	0	0
	2330	"	1000·0	999·3	..	28·1	26·5	25·9	33·4	88	..	3·9	..	6·9	0	0	29	1	0	3	11	12	2	0	0	1	0
Calcutta	0830	6	1000·5	999·8	−0·1	31·0	27·8	26·3	34·7	77	−2	6·1	0	8·4	0	2	25	0	1	8	5	6	6	1	0	3	0
	1130	"	999·9	999·2	..	33·2	28·2	26·0	34·2	67	..	6·1	..	9·7	0	3	26	0	2	5	6	5	7	3	1	1	0
	1730	"	997·7	997·0	..	31·4	27·7	26·3	34·0	75	..	5·2	..	8·9	0	1	28	0	1	4	6	14	4	0	0	1	0
Barrackpore (Aerodrome)	0530	7	999·9	999·2	..	28·3	26·6	25·9	33·6	87	..	5·0	..	8·0	0	1	22	0	6	6	4	5	1	1	0	7	0
	0830	"	1001·0	1000·3	..	30·9	27·6	26·2	34·1	77	..	5·9	..	11·1	0	3	26	0	4	7	8	8	1	1	0	1	0
	1130	"	1000·3	999·6	..	33·3	28·3	26·3	34·5	67	..	5·6	..	13·2	0	3	27	2	2	6	6	7	5	1	1	0	0
	1730	"	998·0	997·3	..	31·5	27·4	25·6	33·0	71	..	5·0	..	10·6	0	1	29	0	1	7	11	6	4	1	0	0	0
	2330	"	1000·1	999·4	..	29·0	26·8	25·8	33·6	83	..	2·5	..	6·5	0	2	19	0	0	8	2	8	3	0	0	9	0
Saugor Island	0830	3	1000·3	1000·0	−0·2	30·1	27·9	27·1	35·5	84	+6	5·2	−1·3	23·8	0	14	16	2	1	2	5	10	9	0	1	0	0
	1730	"	997·7	997·4	..	30·2	27·6	26·7	34·9	81	..	5·2	..	26·3	0	23	7	0	0	2	12	11	4	0	1	0	0
Sandheads	0530	10	999·3	998·2	..	29·3	27·3	26·6	34·8	85	..	6·5	..	21·0	0	18	11	0	0	0	4	9	13	3	0	1	0
	0830	"	1000·2	999·1	−0·8	29·8	27·4	26·4	34·3	82	+2	5·2	−0·5	18·5	0	9	21	0	0	1	5	9	11	3	1	0	0
	1130	"	1000·1	999·0	..	30·2	27·6	26·5	34·9	83	..	5·4	..	18·7	0	11	19	0	0	1	6	8	13	2	0	0	0
	1730	"	997·8	996·7	..	30·1	27·6	26·7	34·7	81	..	6·1	..	22·9	0	18	12	1	0	1	7	11	8	2	0	0	0
	2330	"	999·6	998·5	..	29·5	27·5	26·8	35·1	85	..	4·8	..	21·0	0	15	15	0	0	1	5	11	12	1	0	0	0
Contai	0830	11	1000·4	999·1	..	30·5	27·8	26·8	35·2	81	..	3·7	..	8·0	0	1	25	0	2	2	4	10	7	0	1	4	0
	1730	"	998·0	996·8	..	30·1	27·6	26·5	34·9	82	..	3·1	..	10·8	0	3	27	1	0	1	12	14	2	0	0	0	0
Midnapore	0830	45	1000·3	995·3	0	31·1	27·5	25·5	32·1	72	−6	4·4	−0·6	4·0	0	0	22	0	3	4	3	7	4	1	0	8	0
	1730	"	997·4	992·3	..	31·4	27·7	26·2	34·2	75	..	4·6	..	6·6	0	0	23	0	1	1	5	14	2	0	0	7	0
Purulia	0830	255	999·9	972·4	..	31·0	25·5	23·1	28·0	65	..	5·0	..	4·6	0	0	29	0	2	1	21	0	1	0	4	1	0
	1730	"	996·5	969·1	..	33·1	25·2	21·3	25·7	53	..	6·4	..	5·8	0	0	30	2	4	1	21	0	0	0	2	0	0
Burdwan	0830	32	1000·2	996·6	−0·2	29·9	27·2	25·9	33·9	80	0	4·9	−1·0	11·6	0	2	25	0	1	15	2	2	7	0	0	3	0
	1730	"	997·1	993·6	..	32·2	27·1	24·9	31·5	67	..	4·7	..	10·7	0	4	22	0	0	7	3	13	3	0	0	4	0
Krishnagar	0830	15	1001·0	999·4	+0·1	30·8	27·7	26·8	34·6	80	+1	3·3	−2·4	3·5	0	0	28	1	0	3	9	15	0	0	0	2	0
	1730	"	997·8	996·2	..	31·8	27·0	25·8	31·7	71	..	3·6	..	2·5	0	0	20	1	0	2	5	12	0	0	0	10	0
Asansol	0230	126	998·8	984·6	..	28·0	26·2	25·5	32·6	87	.	4·1	..	7·3	0	2	17	0	1	1	12	4	0	1	0	11	0
	0530	"	999·2	985·1	..	27·6	26·1	25·5	32·9	89	..	5·9	..	6·3	0	1	20	1	0	4	11	2	1	2	0	9	0
	0830	"	1000·1	986·2	+0·2	30·8	27·5	25·7	34·0	75	+1	5·2	−0·1	9·6	0	0	27	2	2	5	12	1	3	2	0	3	0
	1130	"	999·4	985·6	..	33·8	27·9	25·3	32·9	63	.	5·1	..	8·5	0	0	26	0	0	10	9	4	1	0	2	4	0
	1730	"	996·9	982·7	..	32·7	27·4	25·4	32·3	67	..	5·4	..	11·5	0	1	28	0	0	15	12	0	2	0	0	1	0
	2330	"	999·4	985·4	..	28·8	26·8	25·9	33·7	86	..	4·6	..	8·5	0	1	24	0	1	5	15	4	0	0	0	5	0
Suri	0830	77	1000·9	992·4	..	30·4	26·8	25·3	32·2	75	..	6·8	..	8·1	0	1	29	1	3	9	9	6	2	0	0	0	0
	1730	"	998·0	989·5	..	32·6	26·9	24·4	31·0	64	..	6·1	..	8·6	0	0	30	0	3	13	11	2	1	0	0	0	0
Berhampore	0830	19	1000·7	998·6	0	30·0	27·1	26·0	33·4	80	−1	6·0	−0·1	1·0	0	0	6	1	0	2	0	3	0	0	0	24	0
	1730	"	997·5	995·3	.	31·5	27·3	25·7	32·9	73	..	5·3	..	1·7	0	0	12	0	0	2	0	10	0	0	0	18	0
Orissa																											
Baripada	0830	54	1000·9	994·9	.	30·2	26·8	25·4	32·6	77	..	6·3	..	1·9	0	0	15	5	1	0	2	2	5	0	0	15	0
	1730	"	997·7	991·8	..	31·0	27·1	25·6	32·5	74	..	4·7	.	3·4	0	0	21	0	1	2	13	3	1	1	0	9	0
Balasore	0830	20	999·5	997·3	−0·8	30·3	27·4	26·2	34·5	79	+2	6·4	+0·1	9·3	0	2	21	1	4	0	2	6	10	0	0	7	0
	1730	"	997·1	994·9	..	31·1	28·0	26·7	35·4	79	..	(b) 5·5	..	(b) 10·6	0	6	18	1	0	0	11	8	4	0	0	5	0
Chandbali	0830	6	1000·5	999·8	−0·4	29·9	27·1	26·1	33·7	80	+1	6·0	+0·2	5·8	0	0	26	0	0	3	5	3	8	2	5	4	0
	1730	"	997·5	996·8	..	31·4	27·6	26·3	33·6	74	..	5·9	..	9·5	0	1	28	0	2	1	17	1	5	2	1	1	0
Cuttack	0830	27	1000·3	997·3	−0·8	30·1	27·5	26·6	34·7	81	+6	5·2	−0·5	0·7	0	0	3	0	1	1	0	0	1	0	0	27	0
	1730	"	997·0	994·0	..	32·3	27·4	25·2	32·4	68	..	5·6	..	2·3	0	0	9	0	0	1	1	3	4	0	0	21	0
Bhubaneswar	0230	46	999·1	993·9	..	27·7	26·1	25·4	32·4	88	..	4·9	..	9·1	0	5	16	4	1	0	1	2	8	3	2	9	0
	0530	"	999·5	994·2	..	27·3	26·1	25·5	32·9	90	..	6·1	...	7·3	0	1	23	1	2	3	1	6	6	3	2	6	0
	0830	"	1000·7	995·5	..	30·1	27·0	25·6	33·2	78	..	5·9	..	9·1	0	4	22	3	1	4	1	1	11	4	0	4	1
	1130	"	1000·0	994·9	..	32·9	26·8	24·1	30·2	63	..	5·5	..	13·7	0	7	22	4	0	4	2	4	7	5	2	1	0
	1730	"	997·6	992·4	..	31·1	26·6	24·7	31·2	71	..	5·2	..	21·9	0	12	17	1	0	2	2	8	11	3	2	1	0
	2330	"	1000·0	994·8	..	28·2	26·3	25·6	32·7	86	..	4·8	..	12·4	0	9	13	1	1	1	0	5	12	2	0	8	0
Puri	0830	6	1000·9	1000·2	−0·2	29·7	27·9	27·3	37·8	85	+4	6·4	+1·1	12·2	0	9	21	3	2	2	2	3	13	3	2	0	0
	1730	"	998·0	997·3	..	29·8	28·2	27·7	36·8	89	..	7·0	..	24·8	0	18	12	0	0	0	2	4	19	3	2	0	0

(b) Mean of 29 days.

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*Contd.*																											
Gopalpur	0530	17	999·6	997·7	..	27·8	26·7	26·2	34·1	91	..	6·4	..	7·6	0	2	21	3	1	0	1	4	8	1	5	7	0
	0830	,,	1000·9	999·0	−0·2	29·5	27·4	26·3	34·9	84	+3	6·2	+1·7	9·7	0	4	21	2	2	1	1	6	7	2	4	5	0
	1130	,,	1000·6	998·7	..	30·7	28·3	27·4	36·7	83	..	6·2	..	15·8	0	7	23	1	1	1	6	11	9	0	1	0	0
	1730	,,	998·0	996·1	..	29·5	27·7	26·9	35·6	87	..	6·3	..	20·1	0	13	17	0	0	1	0	10	14	3	2	0	0
	2330	,,	1000·0	998·1	..	28·3	27·2	26·8	35·3	91	..	5·7	..	15·9	0	11	14	3	0	2	0	5	10	2	3	5	0
Koraput	0830	913	1463·4	905·6	..	23·6	21·1	19·2	23·2	78	..	5·4	..	10·0	0	3	27	1	0	0	0	1	20	5	3	0	0
	1730	,,	1445·2	903·2	..	26·3	21·3	18·3	21·3	67	..	5·6	..	10·4	0	0	30	0	1	1	0	2	14	10	2	0	0
Titilagarh	0830	211	1000·5	977·2	..	29·4	25·2	23·1	28·8	72	..	1·9	..	3·0	0	0	30	0	4	0	3	2	20	0	1	0	0
	1730	,,	997·6	974·7	..	32·1	26·2	23·1	29·3	63	..	1·3	..	3·0	0	0	30	0	3	0	3	2	18	0	4	0	0
Bolangir	0830	190	1000·4	979·3	..	30·1	26·0	23·0	30·2	72	..	6·1	..	8·9	0	1	29	2	2	1	6	13	5	1	0	0	0
	1730	,,	997·1	976·4	..	34·1	27·2	24·1	30·7	60	..	6·2	..	11·9	0	4	26	3	1	2	3	10	4	4	3	0	0
Phulbani	0830	464	998·3	948·0	..	28·6	24·1	21·7	26·8	69	..	4·3	..	1·1	0	0	5	0	0	0	0	0	2	2	1	25	0
	1730	,,	995·9	946·2	..	31·5	24·7	21·5	26·2	59	..	6·0	..	3·9	0	0	17	0	1	3	0	0	5	4	4	13	0
Angul	0830	139	1000·8	985·4	+0·3	30·0	25·3	23·3	28·3	69	−3	6·6	+0·8	3.6	0	0	28	2	1	2	1	6	3	3	10	2	0
	1730	,,	996·8	981·8	..	33·1	25·6	21·7	26·6	58	..	7·0	..	6·2	0	0	29	0	1	3	3	7	5	4	6	1	0
Keonjhar	0830	463	1000·3	947·1	..	28·8	24·3	22·3	27·2	69	..	5·4	..	7·0	0	1	27	3	3	5	3	1	0	10	3	2	0
	1730	,,	997·6	944·5	..	30·4	24·4	21·6	26·3	64	..	6·4	..	3·4	0	0	27	1	2	6	4	3	4	5	1	3	1
Sambalpur	0830	148	1000·5	984·2	0	30·7	26·0	22·1	29·8	64	−2	4·8	−0.4	2·4	0	0	20	0	1	0	3	4	8	2	2	10	0
	1730	,,	996·5	980·4	..	34·6	25·0	19·9	24·3	49	..	5·5	..	2·8	0	0	18	1	1	0	2	4	7	1	2	12	0
Jharsuguda	0230	230	998·6	972·2	..	28·3	24·3	22·1	27·2	72	..	6·2	..	4.8	0	0	25	0	3	1	8	3	9	0	1	5	0
	0530	,,	999·0	973·6	..	27·7	24·3	22·6	27·8	76	..	6·4	..	4·8	0	0	27	1	2	0	5	3	14	2	0	3	0
	0830	,,	1000·3	975·0	..	30·1	25·0	22·3	27·7	64	..	5·9	..	6·4	0	0	29	1	4	3	0	0	19	1	1	1	0
	1130	,,	999·1	974·2	..	34·0	25·5	21·1	25·7	52	..	5·9	..	6·9	0	0	27	3	3	1	2	0	13	1	4	3	0
	1730	,,	995·8	971·0	..	34·3	25·0	19·9	24·1	49	..	6·7	..	8.7	0	0	28	2	2	2	4	3	12	1	2	2	0
	2330	,,	999·3	974·0	..	29·3	24·4	21·9	26·5	69	..	6·4	..	5·8	0	0	25	3	0	0	5	4	9	1	3	5	0
Bihar Plateau																											
Jamshedpur	0830	129	1000·1	985·9	+0·1	30·7	26·1	24·1	31·6	69	−1	5·3	−0·1	9·4	0	1	28	0	0	10	3	0	3	12	1	1	0
	1730	,,	996·3	982·2	..	33·3	26·0	22·4	27·6	57	..	6·1	..	9·2	0	1	25	0	1	6	12	0	3	3	1	4	0
Jamshedpur (P.B.C.)	0530	142	999·2	983·5	..	28·0	25·4	24·5	30·5	82	..	5·9	..	5·3	0	0	25	0	7	8	1	2	2	3	2	5	0
	0830	,,	1000·1	984·4	..	30·8	25·8	23·6	30·4	67	..	5·8	..	7·7	0	0	30	0	4	6	3	6	8	3	0	0	0
	1130	,,	999·0	983·6	..	34·5	26·1	22·2	27·0	52	..	5·4	..	10·5	0	0	30	1	5	7	0	2	8	6	1	0	0
	1730	,,	996·3	980·9	..	32·1	25·6	21·6	27·7	55	..	6·6	..	11·9	0	4	26	0	2	10	9	2	3	4	0	0	0
	2330	,,	999·3	983·6	..	29·1	25·9	24·5	30·8	77	..	4·3	..	7·4	0	0	27	0	8	11	3	1	3	0	1	3	0
Chaibasa	0830	226	999·6	974·8	0	31·0	25·5	22·9	29·1	64	−5	5·4	+0·3	2·0	0	0	19	0	7	0	0	0	11	0	1	11	0
	1730	,,	996·3	971·8	..	33·4	25·5	21·5	26·2	54	..	6·4	..	2·3	0	0	22	0	12	0	3	0	4	0	3	8	0
Ranchi	0830	655	999·5	929·0	+0·4	29·4	23·5	21·0	24·9	60	−8	4·7	−0·3	0·9	0	0	7	1	0	0	0	2	1	1	2	23	0
	1730	,,	996·3	926·6	..	31·1	23·4	19·8	23·1	53	..	6·0	..	0·3	0	0	2	0	0	0	0	0	1	0	1	28	0
Ranchi (C.W.O.)	0530	652	998·7	928·0	..	25·6	22·0	20·3	23·8	75	..	6·1	..	5·3	0	0	20	0	0	4	4	1	10	1	0	10	0
	0830	,,	999·3	929·1	..	28·8	23·1	20·6	24·3	64	..	5·7	..	8·6	0	0	28	0	2	4	5	2	12	1	2	2	0
	1130	,,	998·4	929·0	..	31·9	23·5	19·5	22·7	53	..	5·6	..	9·1	0	0	27	2	2	7	4	1	6	3	2	3	0
	1730	,,	995·7	926·5	..	31·3	22·8	18·6	21·4	51	..	(j) 6·0	..	(j) 10·6	0	0	21	1	1	4	8	2	1	0	4	0	0
Daltonganj	0830	221	998·9	974·9	−0·1	33·8	25·4	20·6	25·7	51	−9	4·8	+1·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	995·0	971·2	..	35·4	25·7	21·1	26·0	48	..	5·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	999·2	933·7	+0·1	30·2	23·5	20·1	24·1	59	−6	5·6	−0·1	8·7	0	0	28	2	0	3	6	3	5	5	4	2	0
	1730	,,	995·3	930·6	..	33·1	23·8	18·9	22·9	48	..	5·8	..	10·2	0	0	28	7	1	11	5	0	1	1	2	2	0
Dhanbad	0830	257	1000·0	971·8	..	30·9	27·0	25·4	32·5	73	..	4·2	..	3·0	0	0	22	0	2	6	6	1	3	2	1	8	1
	1730	,,	996·2	968·4	..	33·1	26·5	23·5	29·2	61	..	4·8	..	3·9	0	0	26	2	2	8	11	0	0	0	3	4	0
Dumka	0830	149	1000·4	934·0	+0·3	30·0	26·5	24·8	31·8	74	−1	3·7	−1·0	5·4	0	0	18	0	0	2	7	7	2	0	0	12	0
	1730	,,	997·1	981·4	..	32·3	26·5	24·2	29·8	64	..	4·3	..	9·0	0	0	24	2	0	4	12	6	0	0	0	6	0
Bihar Plains																											
Purnea	0830	38	1001·3	997·1	+0·3	29·0	26·6	25·6	32·5	82	0	(b) 5·6	+0·2	(b) 3·4	0	0	26	1	2	20	3	0	0	0	0	3	0
	1730	,,	997·9	993·8	..	31·2	27·7	26·3	34·5	76	..	(c) 3·6	..	(c) 2·8	0	0	16	0	6	10	0	0	0	0	0	12	0
Forbesganj	0830	61	1001·2	994·4	..	28·8	26·1	24·9	31·6	79	..	5·4	..	5·9	0	0	28	0	0	26	2	0	0	0	0	2	0
	1730	,,	997·5	990·8	..	31·3	27·2	25·2	32·8	69	..	4·9	..	4·8	0	0	28	0	1	16	10	1	0	0	0	2	0
Darbhanga	0830	49	1001·0	995·5	+0·6	30·9	27·0	25·3	32·5	73	−4	3·6	−1·2	7·4	0	0	30	0	11	12	2	3	2	0	0	0	0
	1730	,,	997·4	992·0	..	33·0	27·3	24·9	31·9	64	..	3·0	..	6·6	0	0	30	0	9	17	1	0	1	1	1	0	0
Motihari	0830	66	1000·8	993·3	+0·2	30·5	26·8	25·3	32·5	75	−2	(b) 2·7	−1·4	(b) 3·6	0	0	20	0	6	5	8	0	1	0	0	9	0
	1730	,,	996·8	989·4	..	33·0	28·6	26·8	35·4	71	..	1·4	..	0·7	0	0	7	0	2	4	1	0	0	0	0	23	0
Chapra	0830	..	..	..	..	31·1	26·6	24·1	31·1	71	..	4·4	..	8·0	0	0	28	1	7	12	5	2	0	1	0	2	0
	1730	..	..	..	..	35·8	26·9	22·8	28·2	51	..	4·0	..	6·9	0	1	28	0	5	12	5	1	1	2	3	1	0

(b) Mean of 29 days. (c) Mean of 28 days. (j) Mean of 21 days.

Division and station	Hour of observation I.S.T	Station elevation in in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar plains—*Contd.*																											
Patna	0830	53	999.9	994·0	0	31·4	26·5	24·3	30·6	67	−5	4·6	+0.1	9·7	0	0	30	0	11	14	4	0	0	1	0	0	0
	1730	"	996·0	990·2	..	35·7	27·0	23·2	28·5	51	..	4·1	..	7·6	0	0	27	2	14	7	4	0	0	0	0	3	0
Patna (Aerodrome)	0530	60	998·4	991·6	..	28·1	26·0	25·3	32·0	85	..	4·0	..	8·3	0	0	23	0	3	16	2	0	0	1	1	7	0
	0830	"	999.5	992·8	..	31·0	26·5	24·4	31·0	69	..	4·4	..	13·3	0	3	25	0	1	14	12	0	0	0	1	2	0
	1130	"	998·8	992·2	..	34·3	26·8	23·4	28·8	55	..	5·2	..	12·7	0	2	27	1	1	14	6	1	1	1	2	1	2
	1730	"	995·2	988·6	..	36·1	26·7	21·8	27·2	48	..	4·6	..	11·4	0	1	29	2	9	11	4	0	0	0	3	0	1
	2330	52	998·7	993 0	..	30·9	27·5	26·3	34·0	77	..	1·2	.	8·9	0	0	23	0	0	23	0	0	0	0	0	7	0
Dehri	0830	107	999·1	987 3	..	33·8	25·7	21·8	26·7	53	..	3·0	..	3·7	0	0	30	2	2	7	10	1	1	5	2	0	0
	1730	"	994·4	982·9	..	38·3	26·4	20·2	24·6	39	..	2·4	..	5·0	0	0	30	1	7	7	4	0	1	2	8	0	0
Gaya	0230	116	997·8	985·0	..	30·5	24·7	21·6	25·3	62	..	2·9	.	9·1	0	3	21	1	0	6	10	3	2	2	0	6	0
	0530	"	998·4	985·5	..	29·4	24·7	22·1	27·3	67	..	4·1	..	9·2	0	3	20	0	1	8	10	2	2	0	0	7	0
	0830	"	999·5	986·7	+0·3	33·3	25·7	21·9	26·8	55	+2	4·2	+0·5	14·1	0	6	21	0	1	6	9	2	2	6	1	3	0
	1130	"	998·9	986·3	..	37·0	26·0	20·4	24·0	41	..	5·0	..	18·8	0	13	16	2	2	7	8	0	0	3	7	1	0
	1730	"	995.3	982·8	..	38·0	25·7	19·2	24·5	37	..	4·4	..	15·8	0	7	23	4	5	7	8	2	0	1	3	0	0
	2330	"	998 5	985·7	..	32·1	25.1	21·6	26·2	56	..	3·0	..	11·2	0	3	22	2	2	6	11	1	3	1	0	5	0
Jamui	0830	82	1000·1	990·8	..	33·1	27·4	25·0	32·1	64	..	4·0	..	3·0	0	0	21	1	1	15	3	1	0	0	0	9	0
	1730	"	996·7	987·6	..	35·5	27·2	23.8	29.3	54	..	3·0	..	3·4	0	0	19	0	1	10	4	0	0	2	2	11	0
Bhagalpur	0530	49	999·7	994·2	..	27·5	25·9	25 3	30·8	88	..	6·0	..	3·9	0	0	23	1	0	11	10	1	0	0	0	7	0
	0830	"	1000 9	995·4	..	30 5	27·1	25 8	33·4	76	..	5·9	..	7·2	0	0	29	0	2	9	18	0	0	0	0	1	0
	1130	"	1000 2	994·8	..	33·0	27·5	25 3	32·2	64	..	5·7	..	7·7	0	1	28	0	2	12	14	1	0	0	0	1	0
	1730	"	997 2	991·8	..	32·7	27·9	25·9	33·9	69	..	4·8	..	7·8	0	0	28	0	0	18	8	2	0	0	0	2	0
	2330	"	999·7	994·2	..	29 0	26·8	25·9	33·4	84	..	2·9	..	6 3	0	0	26	0	0	12	13	1	0	0	0	4	0
Sabour	0830	37	1000·8	996·7	+0·3	30·0	27·3	26·1	33·8	80	+3	6·0	+0·2	7·1	0	0	30	0	2	15	11	1	0	1	0	0	0
	1730	"	997·1	992·9	..	32·3	27·9	26·0	33·8	71	..	4·6	..	8·4	0	0	30	0	1	17	10	1	0	0	1	0	0
Uttar Pradesh (East)																											
Gonda	0830	110	999·5	987·4	..	31·7	26·5	23·7	29·3	61	−8	2·5	−1·9	4·6	0	0	28	0	0	27	0	0	0	0	1	2	0
	1730	"	995 3	983·5	..	36·9	26·0	20·3	23·8	43	..	2·8	.	3·3	0	0	23	0	1	15	0	0	0	2	5	7	0
Nautanwa	0830	99	1000·3	989·4	..	30·2	25·4	23·5	32·4	68	..	2·3	..	9·2	0	0	30	1	3	11	13	0	1	0	1	0	0
	1730	"	997·1	986 3	..	34·8	26·8	22·8	27·7	53	..	1·4	..	5·7	0	0	28	0	5	11	8	2	1	1	0	2	0
Gorakhpur	0830	77	1000 1	991·6	+0·2	32·5	26·8	24·7	31·1	71	−4	3·7	+0·3	3·0	0	0	30	1	6	17	2	2	0	2	0	0	0
	1730	"	995·9	987 4	..	35·8	26 9	22·5	27·2	51	..	3·4	..	3 0	0	0	30	4	4	15	1	1	1	4	1	0	0
Gorakhpur (P.B.O.)	0230	78	997·6	988·9	..	29·6	26·2	24·7	31·1	75	..	3·2	..	6·7	0	0	28	4	7	13	1	1	0	2	0	2	0
	0530	"	998·5	989·8	..	28·7	26·0	24·8	31·3	80	..	4·0	..	5·4	0	0	28	1	4	10	3	0	0	0	0	2	0
	1130	"	999·3	990·7	..	34·3	27 8	25·2	32·1	60	..	4·4	..	7·0	0	0	30	0	5	14	7	1	0	3	0	0	0
	2330	"	998·5	989·9	..	31·1	26·7	24·8	31·3	71	..	2.5	..	7·1	0	1	27	2	10	12	2	1	0	1	0	2	0
Azamgarh	0830	78	999·3	990·4	..	31·9	27.7	26·0	33·6	71	..	2·7	..	4·0	0	0	29	2	0	24	0	0	0	3	0	1	0
	1730	"	995·5	987·2	..	36·4	28·4	24·7	31·1	56	..	2·7	..	3·0	0	0	28	1	0	19	0	0	0	8	0	2	0
Ballia	0830	64	999.9	993·0	..	30·9	26·5	24·6	30·9	70	..	4·6	..	5·1	0	0	27	0	3	12	9	0	1	0	2	3	0
	1730	"	995·8	988·9	..	36·7	27·4	23·0	28·1	50	..	3·3		3 7	0	0	28	0	12	6	4	0	1	2	3	2	0
Varanasi (Banaras)	0830	76	998·7	990·4	−0·4	33·9	28·2	25·1	31·9	64	+3	3.8	−0·2	5·6	0	0	25	1	6	7	2	0	2	5	1	5	1
	1730	"	995·5	987·2	..	38·3	29·4	24·5	30·7	49	..	3.9	..	3·6	0	0	28	2	5	5	0	1	0	5	10	2	0
Varanasi (Banaras) (Babatpur Aerodrome)	0530	85	998·6	989·1	..	29·8	25·2	23.0	28·1	69	..	3·8	..	9·5	0	1	26	1	5	10	0	2	4	4	1	3	0
	0830	"	1000·0	990·6	..	33·7	26·3	22·5	27·3	56	..	3·1	..	13·8	0	4	25	0	3	10	6	0	3	4	3	1	0
	1130	"	999·3	990·1	..	37·0	26·8	21·6	25·8	44	..	3·6	..	16·8	0	8	21	2	6	6	4	0	0	5	5	1	1
	1730	"	995·8	986·6	..	38·3	26·5	20·2	23·7	39	..	3·9	..	15·6	0	5	24	2	7	7	1	0	1	5	6	1	0
	2330	"	998·8	989·4	..	32·1	25·8	22·7	27·6	59	..	1·9	..	11·9	0	3	25	1	8	9	2	1	3	3	1	2	0
Allahabad (Bamrauli)	0230	98	996·8	986·0	..	31·5	24·3	20·2	23·7	55	..	2·7	..	5·6	0	0	21	0	1	10	0	1	4	2	3	9	0
	0530	"	997·5	986·7	..	30·5	24·3	20·8	24·6	60	..	4·6	..	4·3	0	0	22	0	4	8	0	0	4	3	3	8	0
	0830	"	998·9	988·2	0	34·3	25·2	20·4	23·9	48	−8	4·0	+0·2	7·8	0	1	29	0	2	11	2	0	3	5	7	0	0
	1130	"	998·4	987·8	..	38·5	25·7	18·6	21·4	36	..	3·6	..	10·6	0	3	26	4	6	5	3	0	1	5	5	1	0
	1730	"	994.8	984·3	..	38·8	25·5	17·1	19·5	34	..	4·0	..	9·2	0	1	26	6	4	7	0	0	0	3	7	3	0
	2330	"	997·5	986·8	..	32·7	24·6	20·0	23·4	52	..	3·4	..	6·2	0	0	23	1	3	6	2	1	5	3	2	7	0
Sultanpur	0830	97	998·7	998·1	..	35·1	25·9	20·4	24·0	49	..	2·3	..	3·2	0	0	22	1	5	6	0	0	0	8	2	8	0
	1730	"	995·6	985·0	..	35·7	24·9	18·2	20·9	43	..	2·9	..	2·5	0	0	21	1	2	7	0	0	0	11	0	9	0
Faizabad	0830	102	999·1	987·9	..	31·2	26·2	24·0	29·8	66	..	3·4	..	5·9	0	0	27	0	3	5	17	0	0	2	0	3	0
	1730	"	995·0	984·0	..	36·5	26·1	20·6	24·3	44	..	3·5	..	5·7	0	0	27	0	3	6	9	1	0	6	2	3	0
Banda	0830	121	998·7	985·6	..	35·5	27·0	23·2	28·4	53	..	2·9	..	3·9	0	0	23	0	3	0	4	0	9	4	3	7	0
	1730	"	995·1	982·1	..	38·8	27·2	21·5	25·6	42	..	3·9	..	6·6	0	0	30	0	7	0	3	0	8	1	11	0	0
Fatehpur	0830	114	998·7	986·3	..	34·6	25·2	20·1	23·5	48	−14	2·3	−1·3	9·8	0	2	28	2	0	5	7	1	2	6	7	0	0
	1730	"	994·8	982·6	..	38·9	26·0	19·1	22·1	36	..	3·2	..	11·4	0	3	25	2	4	3	2	1	1	3	12	2	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No of observvations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —*Contd.*																											
Kanpur	0830	126	999·3	985·6	+0·6	34·0	24·8	19·7	22·9	47	−11	3·9	+1.7	12.3	0	1	29	1	2	8	4	0	2	11	2	0	0
	1730	,,	995·4	981·9	..	38·8	25.1	17·4	19·9	34	..	4·0	..	14·0	0	5	25	5	4	4	1	1	0	12	3	0	0
Kanpur (Aerodrome)	0530	126	997·7	983·5	..	30·8	23·9	19·9	23·2	56	..	3·6	..	11.3	0	3	26	2	5	6	5	0	4	7	2	1	0
	0830	,,	998·8	984·9	..	34·3	24·8	19·4	22·5	45	..	2·9	..	19.9	0	12	18	1	3	7	5	0	0	9	5	0	0
	1130	,,	998·8	984·9	..	38·0	25·0	18·3	21·0	35	..	3·1	.	23.5	0	16	13	4	2	5	4	1	0	3	10	1	0
	1730	,,	995·0	981·2	..	38·8	24·7	16·3	18·5	32	..	3·5	..	20.2	0	12	18	6	2	6	2	0	1	4	9	0	0
	2330	,,	997·7	983·5	..	33·2	24·3	19·1	22·1	47	..	1·9	..	12·7	0	5	22	1	1	6	6	2	2	8	1	3	0
Lucknow	0830	111	999·2	987·0	+0.2	32·9	25·7	22·1	26·6	56	−5	2·5	−0 8	3·5	0	0	28	3	4	11	0	3	4	3	0	2	0
	1730	,,	995.2	983·3	..	37·5	26·1	20·2	23·7	41	..	3·2	..	4·9	0	0	30	5	2	6	0	2	0	14	1	0	0
Lucknow (Amausi Aerodrome)	0230	128	996·7	982·6	..	30.9	25·3	22·3	26·9	64	..	2·4	..	10 6	0	1	26	2	4	7	3	1	4	2	4	3	0
	0530	,,	997·3	983·2	.	28·9	25·1	22·9	27·9	69	..	3·6	..	8·8	0	3	22	0	5	9	1	0	3	5	2	5	0
	0830	,,	998·7	98[illegible]·7	−0·3	33·4	27·0	23·9	29·7	61	+5	2·7	−0 6	18·9	0	12	18	0	1	9	8	0	1	9	2	0	0
	1130	,,	998·4	984·6	..	37·8	27·4	23·1	28·3	46	.	3·0	..	21·0	0	16	14	1	2	7	5	1	0	3	10	0	1
	1730	,,	994·7	981·0	..	37·8	26·9	21·6	25·8	44	..	3·5	..	17·0	0	9	18	2	4	4	1	1	1	5	9	3	0
	2330	,,	997·3	983·3	..	32·5	23·6	22·8	27·7	60	..	2·2	..	12·2	0	3	24	2	2	9	5	1	5	2	1	3	0
Hardoi	0330	142	998·8	983·2	..	32·7	25·6	22·1	26·6	56	..	2·6	..	7·7	0	0	29	3	1	4	7	0	0	7	3	1	0
	1730	,,	994·7	979·4	..	38 2	26·0	19·4	22·5	29	..	2·0	..	8·4	0	0	28	10	1	4	2	0	0	10	1	2	0
Lakhimpur Kheri	0830	147	998·8	982·6	..	30·3	25.8	23·6	29·1	69	..	1·7	..	3.6	0	0	27	1	1	20	1	0	0	3	1	3	0
	1730	,,	994·7	978·9	..	36·8	27·2	22·9	27·9	49	..	2·1	..	3·3	0	0	26	0	1	13	0	0	0	12	0	4	0
Bahraich	0830	124	999.9	986·2	+0·7	31·8	26·4	23·9	29·6	65	−2	3·3	+0·4	11·7	0	1	28	0	1	26	2	0	0	0	0	1	0
	1730	,,	995·6	982·2	..	36·1	26·1	20·7	24·4	46	..	3·0	..	8·8	0	0	29	1	0	16	1	0	1	10	0	1	0
Uttar Pradesh (West)																											
Orai	0830	141	1000·3	984·9	..	35·7	27·1	22·9	27·9	52	..	2 7	..	5·2	0	0	29	1	1	2	1	1	3	3	17	1	0
	1730	,,	995·4	980·3	..	38·7	27·7	22·6	27·4	43	..	2 9	..	5·5	0	0	30	2	2	3	1	2	4	1	15	0	0
Jhansi	0830	251	999·2	971·9	−0·1	32·6	24·6	19·2	22·2	49	−1	3·3	+0·6	2·6	0	0	17	2	0	1	1	0	0	6	7	13	0
	1730	,,	995·7	968·8	..	38·2	24·4	16·1	18·3	33	..	4·6	..	2·7	0	0	20	2	2	6	1	0	0	1	8	10	0
Agra	0830	169	999·1	980·6	+0·3	34·2	26·1	22·3	26·9	52	+7	1·9	−0·7	4·1	0	1	20	1	2	3	0	0	3	5	6	9	1
	1730	,,	995 1	977·1	.	39·4	26 4	19·8	23 1	35	..	2·2	..	2·3	0	0	12	1	0	1	0	0	4	3	3	18	0
Agra (Aerodrome)	0530	169	997 9	979·0	.	29·6	23·0	19·1	22·1	56	..	3·[illegible]	..	8.8	0	2	22	1	3	2	0	2	7	7	2	6	0
	0830	,,	999 0	980·8	..	33·[illegible]	24·8	20·4	24 0	50	..	2·7	..	14.9	0	9	20	5	5	2	1	0	4	9	3	1	0
	1130	,,	998·9	980·4	..	37·9	25·7	19·3	22 4	37	..	2·8	..	16.2	0	9	21	4	3	2	2	2	3	3	6	0	0
	1730	,,	995·2	977·1	..	38·6	25·5	18·8	21·7	36	..	2·0	..	15.6	0	5	25	4	4	3	1	1	6	7	4	0	0
	2330	,,	997·8	979·1	..	32·5	24·2	19·8	23·1	50	..	2·0	..	·4	0	2	21	0	1	2	4	0	9	5	2	7	0
Mainpuri	0830	157	999·1	982·0	−0·6	33·6	24·3	19·2	22·2	46	−7	2·8	−0·2	2·6	0	0	26	0	2	2	6	0	1	12	3	4	0
	1730	,,	994·8	978·5	..	36·6	25·5	16·4	18·6	32	..	3 8	..	2·7	0	0	26	0	2	7	2	0	0	12	3	4	0
Aligarh	0830	187	999·2	973 7	..	33·5	24·2	19·1	22·1	46	−10	2·1	−0·2	12·3	0	7	22	6	0	6	1	1	3	4	8	1	0
	1730	,,	994·9	974·8	..	39·2	25·3	17·1	19·5	33	..	2·7	..	9 9	0	2	24	6	1	5	0	0	1	8	5	4	0
Bareilly	0830	173	998·7	979·8	−0·3	32·4	24·6	20·4	24·0	53	−11	2·5	−0·8	6·9	0	0	27	2	1	8	4	0	0	5	7	3	0
	1730	,,	994·2	975.6	..	37·9	24·8	17·1	19·5	35	..	2·3	..	4·8	0	0	23	0	0	8	0	0	1	9	5	7	0
Bareilly (P.B.O.)	0230	172	996·7	977·8	..	31·2	23·7	19·2	23·0	55	..	1·4	..	6·3	0	0	25	1	1	14	2	0	3	4	0	5	0
	0530	,,	997·4	978·4	..	29·9	23·7	20·8	24·7	61	..	2·4	..	7 6	0	1	26	1	2	12	2	0	0	5	5	3	0
	1130	,,	998·5	979·7	..	35·8	25·6	21·1	25·8	47	..	2·2	..	10.3	0	2	27	1	3	2	9	1	1	5	7	1	0
	2330	,,	997·0	978·2	..	32·7	24·0	19·8	23·1	51	..	0·9	..	4·9	0	0	22	0	1	8	5	0	1	6	1	8	0
Meerut	0830	222	999·3	975·0	+0·2	32·3	24·3	19·8	23·1	52	−4	0·4	−2·7	9·0	0	1	27	2	2	11	0	0	0	9	4	2	0
Najibabad	0830	270	999·4	969·9	..	31·6	24·0	19·6	22 8	53	..	1·0	..	6.7	0	3	22	0	6	6	4	0	0	0	9	5	0
	1730	,,	994·8	966·1	..	33·5	25·6	18·5	21·3	35	..	1·1	..	5.4	0	0	26	0	2	1	3	0	2	8	10	4	0
Roorkee	0830	274	999·6	969·1	0	31·4	23·6	19·1	24·6	52	−5	3·9	+1·0	2·0	0	0	20	0	0	1	8	2	0	0	9	10	0
	1730	,,	994·3	965·2	..	38·5	27 0	13·5	15·5	30	..	3·2	..	2·6	0	0	26	0	1	0	5	1	1	0	18	4	0
Dehra Dun	0530	682	999·1	924·9	..	24·9	19·8	16·6	18.9	63	..	2·2		1·5	0	0	11	5	2	1	0	0	1	1	1	19	0
	0330	,,	999 0	925.9	+0·1	29·4	21·9	16·0	20·6	55	−5	1·7	−1.7	0 7	0	0	6	1	0	1	1	1	1	1	0	24	0
	1130	,,	998·1	925·8	.	33·2	22·4	16·2	18·4	40	..	1 9	..	3·0	0	0	20	2	2	2	4	1	5	3	1	10	0
	1730	,,	993·5	922·1	..	35·4	22·6	15 1	17·1	34	..	2·2	..	2·5	0	0	17	2	1	0	1	0	6	5	2	13	0
	2330	,,	997·5	924·2	..	28·6	21.4	17·3	19·7	54	..	0 7	..	1·1	0	0	8	4	2	0	0	0	0	1	1	24	0
Punjab (India) (Including Delhi)																											
New Delhi	0230	216	996·9	973·2	..	31·6	22·7	17·0	19·4	46	..	1·7	..	12·5	0	5	21	0	0	2	5	0	3	11	5	4	0
	0530	,,	997·4	973·7	..	30 2	22·8	18·3	21·0	53	..	2·4	..	16·9	0	9	19	1	2	5	2	0	2	13	3	2	0
	0830	,,	998·9	975·2	0	33·2	24·6	20.0	23·4	48	+2	2 1	−0·4	21·4	0	14	15	0	3	5	2	1	1	8	9	1	0
	1130	,,	998·7	975·3	..	36·9	25·3	19.0	22·0	39	..	2.4	..	23·8	0	16	14	4	3	3	3	0	0	4	13	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—*Contd.*																											
New Delhi—*Contd.*	1730	216	994·3	971·3	..	39·2	25.2	16·8	19·1	32	..	2·6	..	18·8	0	12	17	2	0	6	0	1	1	3	16	1	0
	2330	,,	997·1	973·5	..	33·5	23.8	17·9	20·5	43	.	1·7	..	14·2	1	6	18	0	0	3	4	1	6	7	4	5	0
New Delhi (Palam Aerodrome)	0230	233	996·9	971·4	..	31·2	22.9	18·1	20·8	49	..	1·5	..	13.3	0	4	25	0	0	5	3	3	12	5	1	..	0
	0530	..	997·7	972·1	..	29·6	23.1	19·3	22·4	55	..	1·8	..	16.9	0	8	22	2	2	5	2	3	12	4	0	0	0
	0830	,,	999·0	973·7	..	33·3	24.6	20·3	23·8	49	.	2·2	..	23.0	0	14	16	1	2	6	3	0	3	12	3	0	0
	1130	,,	998·6	973 6	..	37.6	26.0	20·0	23 4	39	.	2·6	..	27.1	0	19	11	2	1	3	2	0	2	13	7	0	0
	1430	,,	996·7	971·6	..	40·0	25.9	18·1	20·8	32	..	2·9	..	24.1	0	19	11	3	2	3	1	0	1	10	10	0	0
	1730	,,	994·3	969·5	..	39·9	25.8	18·5	21·3	33	..	3·1	..	23.5	0	17	13	3	0	5	1	0	3	8	10	0	0
	2030	,,	995·6	970·6	..	35·9	24.9	18 8	21·7	40	..	2·9	..	16.9	0	8	21	2	2	4	2	1	7	9	2	1	0
	2330	,,	997·1	971.8	..	33·2	23.9	18·4	21·2	45	..	2·1	..	14.7	0	5	24	0	0	3	6	2	11	4	3	1	0
Hissar	0530	221	997·6	973·2	..	29·2	22.6	18·8	21·7	56	..	1·9	..	7 8	0	0	30	0	1	5	5	1	11	7	0	0	0
	0830	,,	998·8	974·6	+0·7	32·4	24·6	20·4	24·0	50	+2	1·7	+0·2	11·9	0	4	26	2	0	1	4	5	9	9	0	0	0
	1130	,,	998·5	974·8	..	38·1	25·5	19·2	22 2	36	..	1·7	..	2 2	0	1	29	1	0	1	4	3	8	6	7	0	0
	1730	,,	994·4	971·3	..	39·8	24·6	15·7	17·8	26	..	3·3	..	10·2	0	1	28	0	0	2	2	5	2	13	5	1	0
	2330	,,	996·8	972.7	..	33·0	23·4	17·9	20·8	44	..	1·4	..	7·3	0	0	30	0	4	1	4	3	13	4	1	0	0
Karnal	0830	249	1001·0	973·5	..	31·5	24·3	21·3	25·5	54	..	1·1	..	..		..	..	..	...		..	...	..	...	..	..	..
	1730	,,	995·0	968·3	..	38 4	29·3	26·2	34·0	52	..	0·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Patiala	0830	251	998·9	971·6	..	32·3	24·0	19·5	22·7	50	..	1·4	..	10·4	0	6	23	0	1	1	11	1	0	0	15	1	0
	1730	,,	994·1	967·5	..	39·0	24·4	16·0	18·2	29	..	2·4	..	8·2	0	2	23	0	0	1	4	3	0	1	15	6	0
Ambala	0830	272	998·5	969·0	+0·3	32·5	24·5	20·2	23·7	50	+1.3	1·1	−1·1	4·1	0	0	21	0	1	0	9	0	4	0	7	9	0
	1730	,,	994·0	965·1	..	39·3	25·9	18·6	21·4	32	..	0·8	..	2·9	0	0	23	0	6	0	11	0	2	0	4	7	0
Ambala (P.B.O.)	0230	278	996·5	966·1	..	30.3	22·1	17·8	20·4	51	..	1·4	..	9·8	0	3	26	3	3	1	8	2	3	2	7	1	0
	0530	,,	997·2	966·6	..	28·5	21·4	17·6	20·1	54	..	2·0	..	8·9	0	1	27	2	3	6	8	1	1	4	3	2	0
	1130	,,	997·8	967·9	..	36·3	25·1	20·2	23·7	42	..	1·5	..	11·0	0	4	23	0	2	2	9	1	1	4	8	3	0
	2330	,,	996·1	966·0	..	32·8	22·7	17·5	20·0	44	..	1·2	..	7·2	0	0	26	0	1	1	7	2	3	4	8	4	0
Ambala (Aerodrome)	0530	274	997·2	965·9	..	27·8	21·3	17.3	19·7	56	..	2·1	..	14.7	0	9	17	1	2	7	6	0	0	8	2	4	0
	0830	,,	998·4	968·5	..	31·7	23·2	18·4	21·1	49	..	1·8	..	17.8	0	8	20	0	0	8	9	0	1	7	3	2	0
	1130	,,	998·0	968·4	..	36·1	24·5	18·0	20·6	38	..	1·9	..	18.3	0	13	14	0	1	3	7	2	1	7	6	3	0
	1730	,,	993·6	964·5	..	39·3	23·9	14·3	16·3	28	..	2·0	..	20.3	0	16	13	0	0	3	4	3	0	14	5	1	0
	2330	,,	996.1	966·3	..	32·2	22·3	16·2	18·4	43	..	1·4	..	10·4	0	2	21	1	3	3	2	1	1	8	4	7	0
Chandigarh	0830	347	997·6	960·1	..	33·3	22·9	16·6	18·9	42	..	1·7	.	3.1	0	0	22	0	1	1	10	0	1	0	9	8	0
	1730	,,	993·5	957.0	..	38·7	23·4	15·5	17·6	28	..	1·3	..	4.4	0	0	23	1	0	0	3	1	3	2	13	7	0
Ludhiana	0830	247	998·3	971·3	0	32·6	23 5	18·3	21·0	48	−1	1.7	+0·2	8·2	0	0	30	1	1	2	10	2	5	6	3	0	0
	1730	,,	993·7	967·5	..	40·4	24·4	14·7	16·7	25	..	1·2	..	10·5	0	1	29	1	3	1	2	3	3	10	7	0	0
Halwara (Aerodrome)	0830	242	999·1	972·8	..	33·0	24.9	21.3	25·3	54	..	1·7	..	15·2	0	9	19	1	0	2	8	4	5	4	4	2	0
	1730	,,	995.4	970·1	..	39·8	27.7	21·1	25·0	35	..	1.9	..	18.0	0	12	18	4	1	3	4	3	0	4	11	0	0
Bhatinda	0830	211	998·3	975·3	..	33·2	25·4	21·1	25.0	59	..	1·7	..	12·1	0	4	26	2	0	3	7	0	6	4	8	0	0
	1730	,,	994·0	971·7	..	40·4	26·5	19·2	22·2	31	..	2·1	..	10·2	0	1	29	3	7	0	1	0	2	3	14	0	0
Ferozepur	0830	200	997·9	973.0	..	30·2	23·7	20·2	23·7	58	..	1 1	..	1·9	0	0	16	2	1	0	7	1	2	0	3	14	0
	1730	,,	993·0	971·7	..	40·7	25·5	16·9	19·2	29	..	0·7	..	1·8	0	0	19	2	1	0	2	0	1	2	11	14	0
Amritsar	0530	234	997·4	971·3	..	25·7	21·2	18·4	21·1	65	..	1·3	..	14·5	0	2	19	0	3	7	2	2	2	4	1	9	0
	0830	,,	998.3	972·8	..	31·7	23·3	18·6	21·4	47	..	1·1	..	14·5	0	9	18	2	0	4	5	4	7	3	2	3	0
	1130	,,	997·9	972·8	..	37·3	24·8	17·6	20.1	34	..	1·1	..	15·5	0	9	19	2	0	2	4	5	4	9	2	2	0
	1730	,,	993·8	969·0	..	40·3	24·3	14·3	16.3	25	..	0·7	..	13·6	0	6	19	1	0	1	1	3	3	10	6	5	0
Pathankot (Aerodrome)	0830	312	998·2	964·5	..	33.1	21·3	13·3	15·3	33	..	1·8	..	3·8	0	0	26	0	6	7	6	3	2	2	0	4	0
	1130	,,	997·2	963·9	..	37·4	22·8	13·1	15·1	26	..	1·7	..	7·4	0	1	26	0	0	0	6	9	8	3	1	3	0
	1730	,,	993·6	960·7	..	40 1	29·1	8·3	10 9	17	..	2·4	..	11·2	0	4	25	0	3	0	1	3	3	9	10	1	0
Adampur (Aerodrome) (R)	0530	238																									
(R)	0830	,,																									
(R)	1130	,,																									
(R)	1730	,,																									
(R)	2330	,,																									
Himachal Pradesh																											
Bilaspur	0830	493	999·2	945·9	..	30·1	21·0	15·8	17.9	44	..	1·8	..	1·8	0	1	9	4	2	0	2	0	0	1	1	20	0
	1730	.	994 1	942·2	..	37·5	22·8	14·3	16.3	28	..	2 5	..	7·9	0	2	27	3	1	0	0	6	2	6	11	1	0
Mandi	0830	761	999·7	917·9	..	26 7	19·6	15·4	17.5	48	..	1·9	..	0·5	0	0	5	0	2	1	0	0	0	2	0	25	0
	1730	.	993·2	914·0	..	34·9	22·2	14·3	16.3	34	..	3·0	..	3·0	0	0	20	1	1	1	1	0	1	4	12	10	0
Jammu and Kashmir																											
Srinagar	0830	1587	1458·7	837·6	+1·4	20·4	15·2	11·9	13.7	59	+16	1·6	−16	0·7	0	0	7	2	0	3	1	0	0	0	1	23	0
	1130	,,	1451·0	837·1	..	25·4	16·8	11·4	13.5	42	..	2·0	..	1·8	0	0	13	1	2	1	1	0	0	6	2	17	0
	1730	,,	1422·7	834·6	..	27·7	17·7	11·6	13.8	39	..	3·7	.	2·2	0	0	13	3	2	0	2	1	0	2	3	17	0

R) Register not received

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Varr
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir —*Contd.*																											
Srinagar (Aerodrome)	0530	1666	1448·7	828·9	..	14·8	11·6	9·2	11·3	70	..	2·3	..	5·3	0	0	23	0	0	1	3	10	2	6	1	7	0
	0830	,,	1452·5	829·8	..	20·3	14·4	10·3	12·7	54	..	1·8	..	5·2	0	0	24	1	4	3	3	3	1	0	9	6	0
	113	,,	1448·9	829·5	..	24·4	15·8	10·1	12·4	41	..	2·5	..	7·8	0	1	27	6	2	4	3	4	1	4	4	2	0
	1730	,,	1417·8	827·1	..	27·1	15·8	7·7	10·7	31	..	4·1	..	11·9	0	5	25	3	3	2	2	7	1	5	7	0	0
	2330	,,	1438·0	828·5	..	19·4	13·4	9·5	11·4	55	..	1·6	..	6·5	0	1	17	1	1	1	1	3	1	7	3	12	0
Gulmarg	0830	2655	3105·6	738·5	+1·2	16·5	10·4	4·7	8·4	49	−19	1·8	−0·9	2·3	0	0	12	2	7	1	0	0	1	0	1	18	0
	1730	,,	3092·9	737·0	..	18·1	11·1	4·9	8·7	45	..	4·0	..	9·1	0	2	22	1	8	0	1	1	8	4	1	6	0
Leh	0530	3514	3090·5	665·6	..	8·4	2·3	−6·4	3·6	36	..	(b) 3·0	..	(b) 2·9	0	0	18	1	16	0	0	0	0	1	0	11	0
	0830	,,	3094·3	666·4	+0·9	13·5	5·5	−4·1	4·3	29	−13	2·8	−0·3	2·4	0	0	15	0	0	0	1	6	7	1	0	15	0
	1730	,,	3044·2	663·2	..	19·5	8·3	−3·9	4·4	22	..	3·5	..	8·4	0	0	29	3	3	0	0	0	12	6	5	1	0
Skardu (R)	0830	2288																									
(R)	1730	,,																									
Gilgit (R)	0830	1491																									
(R)	1730	,,																									
Misgar (R)	0830	3106																									
(R)	1730	,,																									
Jammu*	0830																										
Jammu (Aerodrome)	0530	292	997·0	964·8	..	27·7	19·7	13·5	15·5	42	..	1·6	..	4·5	0	1	14	1	11	1	2	0	0	0	0	15	0
	0830	,,	998·0	966·3	..	32·8	21·6	14·2	16·2	35	..	1·6	..	4·8	0	0	14	2	4	0	6	1	0	1	0	16	0
	1130	,,	997·5	966·1	..	37·5	23·0	13·4	15·4	27	..	1·4	..	10·7	0	3	24	0	3	2	7	5	5	3	2	3	0
	1730	,,	993·6	962·6	..	40·2	23·3	12·3	14·3	21	..	2·5	..	10·7	0	2	26	3	4	0	0	2	4	11	4	2	0
Rajasthan (West) Sriganganagar	0530	177	997·1	977·6	..	29·9	22·4	18·1	20·8	52	..	1·4	..	6·8	0	0	24	1	2	2	2	0	12	4	1	6	0
	0830	,,	998·2	978·9	..	32·8	23·9	19.2	22·2	47	+1	0·9	+0·2	9·2	0	0	29	0	2	3	2	1	15	5	1	1	0
	1130	,,	998·0	978·9	..	38·5	24·9	17·8	20·4	32	..	0·9	..	11·5	0	3	27	1	3	1	2	1	9	11	2	0	0
	1730	,,	993·7	974·9	..	41·8	24·4	13·4	15·4	22	..	1·6	..	4·2	0	0	23	2	2	2	0	0	7	7	3	7	0
	2330	,,	996·1	976.8	..	33·5	23·8	18·2	20·9	43	..	0·2	..	2·4	0	0	13	0	0	0	3	1	5	2	2	17	0
Churu	0830	291	999·8	968·0	..	32·1	25·4	22·1	26·6	56	..	1·6	..	21·3	0	16	14	2	0	2	1	1	3	19	2	0	0
	1730	,,	995·0	964·1	..	39·5	26·1	18·9	21·8	34	..	2·8	..	16·8	0	10	20	5	0	3	1	1	4	13	3	0	0
Bikaner	0830	224	999 6	975·0	+1·0	31·4	23·7	19·6	22·8	51	0	0·6	−0·7	11·4	0	2	28	0	1	1	1	0	13	11	3	0	0
	1730	,,	994.7	970·9	..	41·2	23·9	12 9	14·9	21	..	0·3	..	9·4	0	2	27	2	4	0	0	1	15	5	2	1	0
Bikaner (P.B.O.)	0530	224	998·2	973·5	..	30·1	25·5	23·4	28·8	68	..	1·8	..	9 2	0	0	28	0	1	1	1	4	16	5	0	2	0
	1130	,,	999·0	974·9	..	37·4	27·0	22·2	26·7	43	..	1·2	..	12·1	0	2	28	1	1	0	1	3	16	4	4	0	0
	2330	,,	997·4	973·1	..	34·2	25·9	21·9	26·3	51	..	1·4	..	8·4	0	0	24	0	2	1	3	6	12	0	0	6	0
Jaisalmer	0830	242	999·8	973·1	..	34·8	24·5	22·1	22·6	67	..	0·7	..	28·4	0	18	12	0	1	0	0	15	14	0	0	0	0
	1730	,,	994·6	969 0	..	40·2	25·8	18·9	21·8	30	..	1·6	..	23·9	0	19	10	2	2	0	0	12	12	1	0	1	0
Phalodi	0830	234	1000·8	975·0	..	30·5	26·3	24·5	30·7	72	..	1·8	..	25.8	0	19	11	0	0	0	0	0	27	1	2	0	0
	1730	,,	996·3	972·0	..	40·2	28·8	23 0	28·1	41	..	2·3	..	18·6	0	10	19	1	5	1	2	1	18	0	1	1	0
Nagaur	0830	298	999·9	967·1	..	32 1	24 0	19 9	23·2	49	..	1·8	..	18·5	0	10	20	1	0	0	1	6	14	8	0	0	0
	1730	,,	995·2	963·5	..	39·3	23·9	14·7	16·7	25	..	1·5	..	15·6	0	8	22	1	2	2	1	5	10	7	2	0	0
Jodhpur	0230	224	999·1	974·4	..	30·7	24·1	20·5	24·1	56	..	1·5	..	12·3	0	5	21	0	1	0	1	1	14	9	0	4	0
	0530	,,	999·8	975·0	..	28·7	24·0	21·7	25·9	67	..	2·2	..	13·9	0	8	21	0	1	0	0	2	16	10	0	1	0
	0830	,,	1001·3	976·5	+2·4	30·0	25·1	22 9	27·9	66	+6	2·5	−0·3	16·8	0	9	21	0	0	0	1	0	18	10	1	0	0
	1130	,,	1000·8	976·4	..	35·1	25·6	21·0	24·9	45	..	1·6	..	17·5	0	10	20	0	1	0	0	0	14	13	2	0	0
	1730	,,	996·3	972·3	..	38·4	25·5	18·5	21·3	34	..	2·6	..	15·9	0	7	23	1	3	1	1	5	10	8	1	0	0
	2330	,,	999·1	974·6	..	32.9	24·6	20·0	23·4	50	..	1·7	..	12·3	0	4	22	0	0	0	1	4	18	3	0	4	0
Barmer	0530	194	999·6	978·0	..	27·9	24·9	23·6	29·1	77	..	2.3		7·8	0	0	30	3	0	0	1	9	15	0	2	0	0
	0830	,,	1001·0	979·5	+1·0	29·6	25·3	23·4	28·8	70	0	2·8	−0·2	5·7	0	0	30	1	1	0	2	10	13	2	1	0	0
	1130	,,	1000·5	979·4	..	35·1	25·4	20·8	24·6	44	..	1·5	..	6·3	0	0	30	0	0	0	2	12	8	6	2	0	0
	1730	,,	996·1	975·4	..	39·4	25·6	18·5	21·3	31	..	2·7	..	7·4	0	1	29	3	1	0	2	5	12	7	0	0	0
	2330	,,	999·2	977·9	..	33·0	25·2	21·6	25·8	53	..	2·1	..	7·1	0	0	30	1	0	0	0	6	9	14	0	0	0
Rajasthan (East) Pilani	0830	301	999·6	967·1	..	32·8	22·9	17·2	19.6	41	..	1·0	..	21·1	0	9	21	0	0	2	1	2	5	17	3	0	0
	1730	,,	995·2	963·5	..	39·2	22·5	9·7	12·0	23	..	2·6	..	16·7	0	6	24	1	0	5	2	2	2	11	7	0	0
Alwar	0830	271	998·0	968·6	..	33·8	25·6	21·8	26·1	50	..	2·3	..	6·4	0	0	22	1	2	0	2	2	1	7	7	8	0
	1730	,,	994·9	966·2	..	39·8	26·8	20·4	24·0	33	..	3·7	..	6·9	0	0	28	3	3	2	1	3	2	9	4	2	1
Sikar	0830	433	**1000·5**	**953·5**	..	**31·5**	**25·7**	**23·1**	**28·3**	**64**	..	**2·3**	..	**3·2**	**0**	**0**	**28**	**0**	**0**	**1**	**0**	**0**	**9**	**15**	**3**	**2**	**0**
	1730	,,	**995·7**	**950·0**	..	**37·9**	**28·1**	**23·3**	**28·6**	**47**	..	**3·2**	..	**3.3**	**0**	**0**	**30**	**4**	**3**	**1**	**2**	**0**	**8**	**8**	**4**	**0**	**0**
Jaipur (Sanganer Aerodrome)	0230	390	998·0	955·5	..	29·9	22·9	19·3	22·4	55	..	2·6	..	9·0	0	2	24	1	1	1	1	1	4	12	5	4	0
	0530	,,	998·5	955·7	..	28·7	23·0	19·9	23·2	61	..	2·5	..	9·9	0	2	23	2	0	1	0	0	2	7	13	5	0

(b) Mean of 29 days. (R) Register *Temporarily closed

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind velocity, in km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East) —*Contd.*																											
Jaipur (Sanganer Aerodrome)—*contd.*	0830	390	999·5	957·3	−0·1	31·7	24·2	20·4	24.0	54	..	2·4	+14	17·2	0	16	12	1	0	2	1	1	1	11	11	2	0
	1130	,,	999·1	957·3	..	34·1	24·9	19·5	22·7	42	..	2·8	..	17·7	0	12	18	3	0	1	2	0	1	9	13	0	1
	1730	,,	995·1	953·7	..	37·7	24·7	17·6	20 1	34	..	3·0	..	14·0	0	3	27	0	3	3	1	2	1	12	8	0	0
	2330	,,	998·4	956·1	..	30·6	23·3	18.6	21·4	50	..	2·0	..	9·5	0	1	26	1	0	2	1	3	3	13	4	3	0
Dholpur	0830	176	998·8	979·6	..	34·1	24·1	18.6	21·4	43	..	2·7	..	11.8	0	5	21	0	2	1	2	0	3	13	5	4	0
	1730	,,	994·6	975·8	..	38·9	24·4	15·4	17·5	31	..	4·5	..	10.9	0	3	24	5	3	3	0	1	4	6	5	3	0
Tonk	0830	272	999·2	969·5	..	31·8	26·9	24·5	30·7	66	..	2·1	..	15·2	0	7	23	2	1	2	0	0	2	18	4	0	1
	1730	,,	994·9	965·9	..	37·8	27·0	21·5	25·6	43	..	3·6	..	12.5	0	5	25	0	2	1	4	0	5	12	3	0	3
Ajmer	0830	486	1000·7	947·9	+0·3	29.3	23.5	20·9	24·7	61	+5	2.3	+0·1	16·6	0	12	16	0	0	1	1	1	11	13	1	2	0
	1730	,,	995·8	944·4	..	35·9	23·5	17·2	19·6	37	..	2·7	..	11·9	0	1	27	2	2	1	1	0	10	11	1	2	0
Kotah	0530	257	999·0	970·8	..	30·4	24·0	20·5	24·1	58	..	2·5	..	5·4	0	0	22	0	0	1	0	1	3	16	1	8	0
	0830	,,	1000.1	972·2	+0·4	33·4	25·1	21·0	24·6	50	+3	1·9	−0·7	5·4	0	0	23	0	0	0	0	1	0	19	3	7	0
	1130	,,	1000·0	972·2	..	36·8	25·8	20·2	23·7	40	..	2·8	..	6.4	0	0	23	1	0	1	0	1	1	19	0	7	0
	1730	,,	996.8	969·3	..	36·9	25·0	18·5	21·3	39	..	4·4	..	3·0	0	0	25	1	0	1	4	1	3	14	1	5	0
	2330	,,	999·1	971·1	..	33·0	24·3	19·5	22·7	49	..	2·7	..	5·5	0	0	19	0	0	1	0	0	6	10	2	11	0
Chambal	0830	351	1000·7	962·5	..	31·1	25·3	22·1	26·6	63	..	2.6	..	11·4	0	1	29	2	0	0	1	1	8	7	11	0	0
	1730	,,	996·7	959·2	..	35·8	25·8	20 5	24·1	44	..	5·3	..	13·6	0	3	26	3	3	1	4	2	2	6	8	1	0
Jhalawar	0830	321	1000·6	965 5	+0·3	30·2	24·5	21·5	25·6	61	−2	2·6	−0·5	3·8	0	0	29	0	0	0	0	1	19	7	2	1	0
	1730	,,	996·4	962·2	..	36·5	24·6	17·9	20.5	39	..	3·9	..	5.6	0	0	30	1	1	3	1	1	18	3	2	0	0
Udaipur	0230	582	1000·5	937 3	..	27·4	22·9	20·6	24·3	68	..	2·3	..	4·6	0	0	21	0	0	0	0	2	11	5	3	9	0
	0530	,,	1000·7	937·2	..	26·3	22·3	20 7	24·4	72	..	3·6	..	3·0	0	0	15	0	0	0	0	2	9	3	1	15	0
	0830	,,	1001·5	938·5	+0·1	29·1	23·2	20·2	23·7	61	−2	2·6	+0·2	5·4	0	0	27	2	0	0	2	3	12	4	4	3	0
	1130	,,	1000·7	938·4	..	32·8	24·0	19·5	22·7	47	..	2·5	..	6·7	0	0	28	1	2	1	0	2	17	4	3	2	0
	1730	,,	988·3	936·0	..	31·4	23·5	19·5	20·7	54	..	4·6	..	6·9	0	0	28	0	1	2	2	2	14	4	3	2	0
	2330	,,	1001·1	938·1	..	28·4	22·9	20·0	23·4	63	..	2·9	..	4·7	0	0	20	1	0	0	2	2	11	4	0	10	0
Erinpura (Jawai Dam)	0830	295	1001·8	969·3	..	29·1	25·6	24·3	30·7	75	..	2·5	..	13.2	0	2	28	0	0	1	3	5	18	3	0	0	0
	1730	,,	997·2	965·6	..	35·4	27·6	24·1	30·0	52	..	3·4	..	14·5	0	5	25	0	1	0	5	6	11	5	2	0	0
Madhya Pradesh (West)																											
Gwalior	0230	207	997·1	974·5	..	32·5	23·0	16 7	19·9	47	..	2·5	..	13·3	0	6	18	1	1	1	0	1	4	13	3	6	0
	0530	,,	997·6	975·0	..	31·5	22·9	17·5	20·9	51	..	3·2	..	12·6	0	7	20	2	0	1	1	1	4	11	7	3	0
	0830	,,	999·1	976·6	+0·6	34·6	24·1	18.4	21·3	44	+1	2·5	0	16 7	0	11	15	2	1	1	1	0	2	13	6	4	0
	1130	,,	998·8	976·5	..	37·5	24·2	16·6	19·2	34	..	2·7	..	11·8	0	3	26	1	3	2	0	0	4	7	12	1	0
	1730	,,	994·7	972·9	..	38·6	23·9	14·6	17·6	33	..	4·4	..	11·1	0	3	26	3	2	0	2	1	2	7	12	1	0
	2330	,,	997·8	975·4	..	33·8	23·3	16·7	20·1	43	..	3·1	..	9·0	0	1	25	0	1	1	0	4	7	10	3	4	0
Sheopurkalan	0830	235	1000.3	974·6	..	32·8	25·2	21·3	25·8	54	..	3·0	..	13·4	0	9	19	2	1	1	1	5	5	4	5	2	4
	1730	,,	994·9	969·8	..	37·9	25·5	18·7	22·5	37	..	4 4	..	14·1	0	4	26	3	3	2	2	3	2	3	6	0	6
Guna	0530	478	999·2	947·0	..	27·6	22·1	19·0	22·5	63	..	4·2	..	6·3	0	1	22	0	0	0	1	0	4	16	2	7	0
	0830	,,	1000·5	948·5	+0·1	30·6	23·5	20·0	22·4	56	0	3·5	+0·9	8·8	0	0	28	1	0	1	1	1	1	22	1	2	0
	1130	,,	999·3	948·3	..	35·3	24 0	18·2	21·1	39	..	3·4	..	8·6	0	0	30	1	0	1	1	1	2	12	12	0	0
	1730	,,	995·6	944·9	..	35·3	23·2	16·2	19·6	40	..	5·0	..	11·5	0	1	29	5	1	3	1	1	2	6	11	0	0
	2330	,,	999·0	947·2	..	30·1	22·5	18·4	21·8	54	..	4·1	..	8.3	0	0	28	0	1	3	1	5	4	14	0	2	0
Rajgarh	0830	382	1000·8	959·1	..	28·0	23·0	19·0	24·1	55	..	2·7	..	5·3	0	0	25	2	0	0	0	5	0	12	6	5	0
	1730	,,	996·1	955·3	..	35·9	24·1	17·2	20·3	38	..	5·4	..	6·0	0	0	26	3	0	0	0	3	0	15	5	4	0
Neemuch	0830	496	1001·6	947·7	+0·4	28·3	23·4	21·1	24·8	67	0	3·8	+0·5	16·6	0	7	23	1	2	0	0	0	9	17	1	0	0
	1730	,,	997·6	944·9	..	34·2	23·3	17·7	19·8	44	..	4·4	..	13·1	0	2	28	4	3	0	0	1	8	14	0	0	0
Ratlam	0830	486	1002·5	948·7	..	26·3	23·7	22·5	27·4	81	..	5·1	..	13·1	0	0	30	1	0	0	0	0	12	17	0	0	0
	1730	,,	998·0	945·9	..	34·7	24·8	17·3	24·1	49	..	5·7	..	14·3	0	3	26	0	2	3	0	0	6	14	4	1	0
Alirajpur	0830	293	1003·9	971·4	..	27·8	24·9	23·7	29·2	79	..	5·2	..	16·5	0	6	24	0	0	0	0	0	5	24	1	0	0
	1730	,,	999·3	967.5	..	32·9	25·6	22·3	26·9	56	..	3·8	..	14·7	0	5	25	0	0	1	1	0	6	18	4	0	0
Indore	0530	567	1001·7	939·2	..	24·7	22·0	20·6	24.5	79	..	4·4	..	23·7	0	17	13	0	1	0	0	0	17	10	2	0	0
	0830	,,	1002·5	940·7	+0·4	27·1	23·3	21·6	26·0	73	−2	4 8	+0·2	30·7	0	24	6	0	1	0	0	0	9	18	2	0	0
	1130	,,	1001·6	940·6	..	31·0	24·2	20·9	25·9	58	..	4·5	..	23·4	0	17	13	0	1	0	0	0	9	14	5	0	1
	1730	,,	997·7	937·1	..	31·9	23·4	19·2	22·6	52	..	4·9	..	23·4	0	19	11	2	1	1	0	2	8	11	5	0	0
	2330	,,	1001·7	939·9	..	27·2	22·6	20·3	24 1	69	..	4·0	..	23·4	0	16	13	0	1	0	1	1	15	9	2	1	0
Ujjain	0830	,,	..	..	..	28·3	23·9	22·0	26.4	70	..	4·0	..	24·8	0	20	10	24	0	0	0	0	0	5	1	0	0
Bhopa (Bairagarh)	0230	523	999·5	942·6	..	27·9	22·7	19·7	23·7	65	..	3·8	..	14·7	0	5	22	1	0	0	0	1	3	15	7	3	0
	0530	,,	1000·3	943·2	..	26·7	22·3	20·1	23·6	70	..	5·2	..	15·1	0	8	20	0	1	0	0	0	6	13	8	2	0

Division and station	Hour of observation in I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Bhopal (Bairagarh)—*Contd.*	0830	523	1001·6	944·6	+0·5	28·8	24·0	20·8	22·3	63	0	4·5	+0·4	20·9	0	15	15	2	0	1	0	0	0	11	16	0	0
	1130	"	1000·3	944·4	..	33·3	24·4	20·3	24·1	49	..	3.8	..	19·6	0	10	20	3	0	0	2	0	3	10	12	0	0
	1730	"	996·4	941·5	..	34·1	23·5	18·1	21·3	44	..	5 6	..	18·0	0	9	20	3	2	0	2	1	4	7	10	1	0
	2330	"	1000·2	943·4	..	28·5	22·9	19·9	24·0	62	..	4·7	..	15·2	0	5	24	0	0	0	2	0	5	15	7	1	0
Khandwa	0830	318	1003·5	967·9	+0·7	28·3	24·0	22·1	26·2	71	+6	6·1	+1·9	5·0	0	0	28	0	0	0	0	0	10	13	5	2	0
	1730	"	997·8	963·5	..	33·9	25·1	20·5	24·6	50	..	6·1	..	7·6	0	0	30	1	0	0	2	3	8	10	6	0	0
Hoshangabad	0830	302	**1001·5**	**968·3**	**—0·1**	**29·6**	**23·9**	**20·9**	**25·1**	**62**	**—1**	**5·2**	**+0·8**	**5·6**	**0**	**0**	**29**	**0**	**0**	**0**	**0**	**3**	**8**	**17**	**1**	**1**	**0**
	1730	"	**996·3**	**963·9**	..	**36·0**	**24·3**	**17·8**	**20·9**	**39**	..	**5·5**	..	**4·0**	**0**	**0**	**24**	**1**	**0**	**0**	**1**	**1**	**10**	**6**	**5**	**6**	**0**
Betul	0830	653	1002.4	931·6	..	27·0	22·8	20 8	24·6	71	..	5·6	..	11·5	0	1	29	0	0	1	0	0	1	24	4	0	0
	1730	"	996·9	927·6	..	32·4	23·3	18.6	22·0	50	..	6·4	..	10 0	0	0	29	4	0	0	2	1	6	8	8	1	0
Chhindwara	0830	685	1000·9	927·2	..	28·6	24·5	22.6	27 7	73	..	5·1	..	12·8	0	2	28	3	1	0	1	0	2	11	12	0	0
	1730	"	996·5	923·8	..	31·7	25·8	23·3	29·0	66	..	6 2	..	10·1	0	0	28	2	3	0	3	2	2	8	8	2	0
Seoni	0830	619	1000·0	933·5	—0·2	29·2	24·1	21·7	26·2	67	+7	5·7	+1·4	5·7	0	0	30	4	0	0	1	2	10	4	9	0	0
	1730	"	996·2	930·4	..	31·7	23·9	20·0	23 9	55	..	6·3	..	3·6	0	0	23	3	3	0	3	1	7	1	5	7	0
Sagar	0830	551	1000·1	940·6	+0·4	29·8	23·4	20·3	23·7	60	+2	2·6	—1·2	14·2	0	3	27	0	1	0	1	0	1	14	13	0	0
	1730	"	995·4	937·0	..	34·4	23·8	18·2	20·8	44	..	5.2	..	7·7	0	2	27	0	4	4	2	0	3	10	6	1	0
Nowgong	0830	229	999·4	974·5	+0·1	33.0	25·2	21·3	25·7	54	0	3·0	—1·0	8·7	0	0	30	1	1	0	2	1	11	8	6	0	0
	1730	"	995·1	970·7	..	37·6	25·3	18·1	22·4	40	..	5·0	..	6.0	0	0	29	0	7	0	1	0	9	1	11	1	0
Madhya Pradesh (East)																											
Sutna	0530	317	997·9	963·1	..	29·2	23·4	20·1	24·0	62	..	3·9	..	4·4	0	0	24	0	1	1	1	0	11	9	1	6	0
	0830	"	998·9	964·5	0	32·8	24·3	19·5	23·4	52	0	4·2	+0·2	5·1	0	0	30	1	0	1	2	0	2	21	3	0	0
	1130	"	998·1	964 2	..	37·2	24·9	17·9	21·5	37	..	3·8	..	8·8	0	0	30	1	1	6	0	0	5	12	5	0	0
	1730	"	995·1	961·1	..	36·7	23·8	15·7	19·1	35	..	5 5	..	7·5	0	1	28	5	2	4	0	0	7	6	5	1	0
	2330	"	997·9	963·4	..	31·1	24·0	19·9	24·0	57	..	3·9	..	5·2	0	0	26	0	2	2	1	0	10	9	2	4	0
Sidhi	0830	..	..	..	..	33·6	24·9	20·2	24·5	49	..	3·3	..	4.2	0	0	23	0	1	2	0	3	2	11	4	7	0
	1730	..	..	..	..	37·2	25·1	18·0	21·8	38	..	4·0	..	5·6	0	0	26	8	2	4	2	2	4	2	2	4	0
Umaria	0830	459	999·3	949·7	..	31·6	24·4	21·1	25·3	58	0	4·5	—0·6	4·3	0	0	29	1	0	2	1	0	7	14	4	1	0
	1730	"	995·5	946·4	..	35·4	24·5	19·0	22·8	45	..	6·2	..	4·5	0	0	27	5	1	2	2	1	6	4	6	3	0
Jabalpur	0530	393	999·1	956·1	..	27.6	22·7	20·0	23·5	67	..	4·3	..	4·6	0	0	22	0	0	0	2	7	8	5	0	8	0
	0830	"	1000·0	957·5	+0·2	31·6	24·1	19·8	23·9	54	—1	3·4	—0·5	9·0	0	0	28	1	0	1	1	2	11	10	2	2	0
	1130	"	998·8	956·9	..	36.1	25·0	18·9	22·6	41	..	3.5	..	9 9	0	0	30	3	1	0	0	1	7	9	9	0	0
	1730	"	995·3	953·4	..	35·1	24·1	17 6	21·2	44	..	5·7	..	8.5	0	0	28	5	2	1	3	2	5	5	5	2	0
	2330	"	999·1	956·3	..	29·5	23·5	20·1	23·2	61	..	4·8	..	5·6	0	0	23	1	0	0	3	5	4	6	4	7	0
Mandla	0830	443	1000.4	952·2	..	29·8	24·0	21·1	25·1	64	..	3·7	..	2·9	0	0	12	6	0	0	0	0	2	2	2	18	0
	1730	"	996·1	948·5	..	32·4	24·0	18·7	24·6	55	..	5·5	..	5·2	0	0	17	4	0	0	2	5	1	0	4	13	1
Pendra	0530	625	998·[illegible]	931·0	..	26·0	21·4	18.6	22·3	69	..	5·5	..	5·0	0	1	28	4	1	2	2	6	7	5	2	1	0
	0830	"	999·5	932·4	—0·2	29.3	22·5	18·7	22.3	59	—3	4.6	+0·3	7 9	0	1	27	3	2	1	2	4	2	6	8	2	0
	1130		998·4	932·1	..	33·1	23·4	18·0	21·6	48	..	4.5	..	6.5	0	0	29	8	1	0	2	2	1	5	10	1	0
	1730	"	995·6	929·3	..	31·8	22·9	17·5	21·5	52	..	6.6	.	5.6	0	0	28	6	4	2	4	1	6	2	3	2	0
	2330	"	999·4	931·8	..	27.2	22·3	19·5	23 2	69	..	5·7	..	7.0	0	0	29	2	0	1	1	9	8	2	6	1	0
Ambikapur	0830	611	999·7	934.0	..	29.7	23·1	19.6	23.3	59	..	3·7	..	6·1	0	0	26	1	2	2	5	2	4	8	2	4	0
	1730	"	995·2	930·6	..	33·0	23·3	18·0	21·6	49	..	4·2	..	10.5	0	2	28	11	3	0	6	5	2	2	1	0	0
Champa	0830	245	1000·5	973·6	..	30·2	24·6	21·4	26.4	63	..	5·2	..	8.0	0	2	25	2	0	5	0	1	11	8	0	3	0
	1730	"	996·0	969·5	.	35.1	24·9	19·3	23.3	46	..	6·5	..	9.5	0	5	24	3	1	7	1	0	6	5	6	1	0
Raigarh	0830	220	1000·2	976·0	.	30.6	24·9	22.1	27·0	64	..	5.5	..	5·1	0	0	30	1	1	1	4	0	14	3	6	0	0
	1730	"	995·7	971·8	..	35·3	25·4	19.8	24.3	48	..	5.8	..	4 5	0	0	25	2	7	0	4	0	8	1	2	5	1
Raipur	0530	298	999·7	966·8	..	27.1	23·8	22·1	26·7	77	..	6·2	..	7·8	0	1	26	0	1	1	0	4	13	8	0	3	0
	0830	"	1000·7	968·1	+0·2	29.5	24·6	22·2	26·8	68	+7	5.5	+0·5	10·1	0	2	28	0	0	3	0	3	13	9	2	0	0
	1130		999·7	967·5	..	33.9	25·3	21·0	25·2	52	..	5·4	..	8.5	0	1	28	1	0	1	1	2	7	14	3	1	0
	1730	"	996·5	964·2	..	33 5	25.0	20·6	24·7	53	..	6.8	..	13.6	0	5	25	4	0	2	0	4	4	11	5	0	0
	2330	"	999·9	967·0	..	28.3	24·3	22.2	27·2	73	..	6·2	..	9 1	0	2	25	0	1	2	1	9	10	4	0	3	0
Kanker	0830	402	1001·5	957·6	+0·2	28.4	24.9	23·2	28·6	76	+13	6.1	+0·1	3·2	0	0	24	0	0	0	0	0	24	0	0	6	0
	1730	"	997·3	954·0	..	32·3	26·8	24.2	30·6	68	..	5.5	..	2.0	0	0	16	0	0	0	2	0	13	1	0	14	0
Jagdadpur	0530	553	1000·9	940·4	..	24·8	22·3	21·2	25·1	82	..	7·4	..	2.0	0	0	12	1	0	0	3	2	4	2	0	18	0
	0830	"	1001·9	941·7	—0·2	26 7	23·0	21·3	25·4	74	+3	7·0	+2 0	4 0	0	0	19	1	0	0	2	3	7	6	0	16	0
	1130	"	1000·8	941·3	..	29 9	23·7	20·7	24·9	62	..	6.7	..	6·0	0	0	26	0	0	1	1	3	13	5	3	4	0
	1730	"	998·2	938·7	..	29·3	23·7	20.8	25·3	65	..	7·5	..	5 4	0	0	25	0	0	1	4	0	11	7	2	5	0
	2330	"	1001·1	940·9	..	26·0	23·0	21·6	25·9	79	..	6·7	..	2·3	0	0	15	1	0	0	1	3	9	1	0	15	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat																											
Deesa	0830	136	1002·9	987·7	+0·9	29·2	25·0	23·1	28·3	70	..	4·3	..	6·9	0	0	30	0	2	0	4	2	14	6	2	0	0
	1730	,,	997·8	983·0	..	37·3	25·6	19·7	22·9	37	..	3·1	..	6.0	0	0	26	1	0	1	4	4	10	4	2	4	0
Radhanpur	0830	30	1003·0	999·7	..	30·1	26.6	25.2	32·1	73	..	4.8	..	12.9	0	4	26	0	0	0	3	6	9	8	4	0	0
	1730	,,	998·2	994·9	..	36·7	27.1	22.8	27·7	47	..	3.1	..	10·4	0	3	27	0	0	0	2	6	9	11	2	0	0
Idar	0830	219	1003·0	978·6	..	28·3	24·6	22.9	27·9	73	..	4·4	..	8·1	0	1	28	2	0	0	0	3	4	19	1	1	0
	1730	,,	998·6	974·8	..	34·8	25·0	20·1	23·5	46	..	4·7	..	10·5	0	1	26	1	1	0	2	3	7	13	0	3	0
Ahmedabad	0230	55	1001·8	995·6	..	28.5	24.9	23·2	26·4	74	..	3·1	..	11.0	0	0	28	0	0	0	0	7	5	14	2	2	0
	0530	,,	1001.9	995·6	..	27.6	25·0	23·7	29·3	80	..	4·1	..	8·7	0	0	28	0	0	0	2	5	8	9	4	2	0
	0830	,,	1003·3	997·1	+0·4	29.2	25·5	23·7	29·3	73	−6	5.3	+0·5	11·0	0	1	28	1	0	0	0	4	9	13	2	1	0
	1130	,,	1003·1	996.9	..	33.1	26·2	23·0	28·3	57	..	5·1	..	11·7	0	0	26	0	0	0	0	4	11	10	3	2	0
	1730	,,	998·9	992·8	..	35.2	26·1	21·6	25·8	50	..	5.0	..	16·2	0	7	23	0	0	0	0	3	19	8	0	0	0
	2330	,,	1002·4	996·1	..	29.6	25·2	23.1	28·3	70	..	3·7	..	11.8	0	1	28	0	0	0	2	9	7	9	2	1	0
Dohad	0830	333	1002·9	966·2	..	27.8	24·1	22·3	26.9	73	−2	5·3 (b)	−0·1	23·9 (b)	0	19	10	1	0	0	0	0	13	15	0	0	0
	1730	,,	998·5	962·6	..	34.2	24·8	19·9	23·3	47	..	4·0 (b)	..	24·5 (b)	0	19	10	0	1	0	0	0	11	17	0	0	0
Baroda	0530	34	1002·4	998·5	..	27·4	25·3	24·4	30·6	84	..	3·8	..	3·6	0	0	25	0	1	0	0	4	17	3	0	5	0
	0830	,,	1003·9	1000·0	..	29·7	26·0	24·3	30·4	74	−2	4·0	−0·6	4·3	0	0	26	0	1	0	0	2	11	12	0	4	0
	1130	,,	1003·7	999·9	..	33·5	26·7	23·6	29·1	57	..	4·8	..	6 0	0	0	29	0	0	0	0	2	12	14	1	1	0
	1730	,,	999·9	996.0	..	34·9	26·6	22·7	27·6	53	..	2·8	..	7·2	0	0	29	0	0	0	2	3	13	11	0	1	0
	2330	,,	1003·1	999·1	..	29·0	25·7	24·3	30·4	77	..	3·5	..	7·1	0	0	28	0	0	0	2	1	22	3	0	2	0
Baroda (Aerodrome)	0830	38	1003·7	999·5	..	29·2	25·7	24.1	30·0	75	..	5·1	..	12·4	0	2	27	0	0	0	1	8	12	7	1	1	0
	†1130	,,			..																						
	1730	,,	999·8	995·6	..	34·0	26·2	22·5	27·3	55	..	4·3	..	16·0	0	11	19	0	0	0	0	11	12	7	0	0	0
Broach	0830	17	1003·6	1001·6	..	28·2	25·6	24·4	30·5	81	..	5·4	..	8·2	0	0	30	0	0	0	0	4	22	3	1	0	0
	1730	,,	1000·1	998·2	.	32·7	26·2	23·6	29·1	60	..	3·8	..	12·5	0	0	30	0	0	0	0	3	26	1	0	0	0
Surat	0530	12	1002·8	1001·5	.	26·9	25·4	24·7	31·1	88	..	5·3	..	4·9	0	0	24	0	0	0	2	4	18	0	0	6	0
	0830	,,	1004·2	1002·9	+0·7	28·3	25·9	24·9	31·5	82	+8	5·9	+0·2	6·0	0	0	27	0	0	0	0	11	12	4	0	3	0
	1130	,,	1004·5	1003·2	..	30·9	26·7	24·7	31·1	71	..	6·0	..	9·4	0	2	27	0	0	0	1	9	10	1	0	1	0
	1730	,,	1001·4	1000.1	..	30·9	26·4	24·5	30·7	70	..	4·3	..	13·3	0	1	29	0	0	0	0	8	21	1	0	0	0
	2330	,,	1003·8	1002·5	..	28·1	20 0	25·0	31·7	84	..	3·5	..	7·6	0	1	24	0	0	0	1	3	21	0	0	5	0
Saurashtra and Kutch																											
Naliya	0830	,,	..	..	..	29·7	26·9	25·9	33·4	80	..	5·5	..	16·5	0	8	22	1	0	2	0	1	18	7	1	0	0
	1730	,,	..	..	..	32·2	27·1	25·1	31·9	67	..	5·3	..	22·0	0	15	15	0	1	0	0	6	20	3	0	0	0
Bhuj (Aerodrome)	0230	80	1001·2	992·2	..	27·7	25·3	24·3	30·4	82	..	1·9	..	12.0	0	1	28	0	0	1	0	1	22	5	0	1	0
	0530	,,	1001·1	992·1	..	27 2	25·5	24·7	31·1	86	..	3·1	..	7·3	0	0	25	0	0	0	0	2	19	3	1	5	0
	0830	,,	1002 3	993·3	+1·0	29·9	26·1	24·4	30·5	73	+3	3·8	−0 3	16·7	0	5	25	0	0	0	1	2	16	8	3	0	0
	1130	,,	1001·9	993·0	.	31·3	26·7	23·3	28·6	53	..	3·4	..	18·8	0	14	15	1	0	1	2	0	13	8	4	1	0
	1730	,,	998·8	990·0	..	35·1	27·3	24·0	29·8	53	..	2.8	..	20·8	0	17	13	0	0	0	3	2	18	7	0	0	0
	2330		1001·7	992·7	..	28·6	25·9	24·6	30·9	78	..	2·3	..	15·5	0	6	22	0	0	0	0	1	21	6	0	2	0
Bhutakia Bhimasar	0830	47	1002·5	997·1		29·5	27·1	26·0	33·6	82	..	3·9	..	20·8	0	15	15	0	0	0	0	5	15	8	2	0	0
	1730	,,	999 0	993 8	..	36·1	27·5	23·9	29·7	54	..	2·9	..	29·6	1	22	7	0	0	1	3	6	15	2	3	0	0
New Kandla	0830	14	1003·2	1001·6	..	29·6	26·5	25·2	32·1	78	..	4·1	..	18·2	0	10	19	0	0	0	3	2	12	12	0	1	0
	1730	,,	999 8	998·2	..	34·0	26 8	23·6	29·1	56	..	3·2	..	33·3	0	25	5	0	0	0	2	2	17	9	0	0	0
Mandvi	0830	9	1002 7	1001·6	..	29·6	27·9	27·3	36·3	87	..	5·0	..	23·0	0	19	11	1	1	0	1	1	18	4	1	0	3
	1730	,,	1000·7	999·6	..	31·3	29·1	28·1	38·0	83	..	4·9	..	31·8	0	29	1	0	0	0	2	0	26	1	0	0	1
Dwarka	0830	11	1002 9	1001·6	+0·6	29·5	26·8	25·7	33·0	81	−1	4·1	−0·2	16·2	0	0	30	0	0	1	1	0	8	17	3	2	0
	1730	,,	1000·6	999·3	..	30·7	27·1	25·7	33·0	75	..	3·9	..	18 7	0	5	25	0	0	0	0	1	12	16	1	0	0
Porbander	0830	7	1003·6	1002·8	..	29·9	26·8	25 6	32·8	79	..	4·7	..	14·5	0	0	30	0	0	0	0	0	2	25	3	0	0
	1730	,,	1001·5	1000·7	..	31·1	27·6	26·5	34·6	77	..	6·0	..	18·5	0	2	28	0	0	0	0	1	16	12	1	0	0
Porbander (Aerodrome)	0830	7	1003·2	1002·4	..	30·7	26·4	24·6	30·9	71	..	4·3	..	15·5	0	4	26	0	0	0	1	2	18	7	2	0	0
	1130	,,	1003·3	1002·5	..	32·4	27·1	25·1	31·9	66	..	4·1	..	20 2	0	14	16	0	0	0	0	2	18	9	1	0	0
	1730	,,	1000·8	1000·0	..	31·1	26·6	24·8	31·3	70	..	3·8	..	23·1	0	20	10	0	0	0	0	2	21	7	0	0	0
Jamnagar	0530	23	1001·5	998·9	..	26·9	25·1	24·3	30·4	86	..	2·6	..	10·4	0	2	28	0	0	0	0	4	15	9	2	0	0
	0830	,,	1002·7	1000·2	+0·9	29·7	26·1	24·6	30·9	75	+8	4·3	+0·5	17·1	0	14	16	0	0	0	1	2	12	15	0	0	0
	1130	,,	1002·7	1000·2	..	33 8	27·2	24·5	30·7	60	..	4·2	..	22·6	0	19	11	0	0	1	0	1	4	19	5	0	0
	1730	,,	999·7	997·2	..	32 7	27·1	24·6	30·9	64	..	3·8	..	30·9	0	23	7	0	0	0	0	4	3	20	5	0	0
	2330	,,	1002·3	999·8	..	28·9	25·7	24.3	30.4	77	..	1·7	..	20·7	0	19	10	0	0	1	0	4	7	17	0	1	0
Rajkot (Aerodrome)	0830	138	1003·0	987·7	+0·6	28·6	26·5	25·8	33·2	85	+11	3·6	−1 4	19·2	0	15	14	0	0	0	0	2	21	6	0	1	0
	1130	,,	1002·6	987·4	..	32·6	27·7	25·7	33·0	68	..	3·8	..	21·1	0	18	10	1	0	0	0	1	21	5	0	2	0
	1730	,,	999·3	984·2	..	32·8	27.4	25·1	31·9	68	..	5·1	..	30·4	2	24	3	0	0	0	0	5	14	9	1	1	0

(b) Mean of 29 days.

†Observations not recorded.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —*Contd.*																											
Surendranagar	0830	74	1003.0	994.3	..	29.2	27.0	26.2	34.0	84	..	4.2	..	10.3	0	3	27	0	0	1	0	6	5	15	3	0	0
	1730	,,	998.8	990.7	..	35.0	26.4	25.7	33.0	61	..	5.6	..	11.8	0	2	28	0	0	1	3	9	4	11	2	0	0
Bhavnagar	0830	17	1003·6	1001·7	+0·5	29·5	26·1	24.5	30.7	74	+7	3 3	+1·7	7·2	0	0	30	0	0	0	0	1	15	9	5	0	0
	1730	,,	1000·3	998·4	..	33.0	26·5	23·7	29·3	59	..	4·7	..	16·0	0	9	21	0	0	0	1	11	16	2	0	0	0
Bhavnagar (Aerodrome)	0830	11	1003·7	1002.7	..	29.8	26·1	24·5	30·7	72	..	3.0	..	16.4	0	27	3	0	0	0	0	3	9	17	1	0	0
	1130	,,	1003·7	1002·5	..	32·7	26·5	23·8	29.5	61	..	4.6	..	17·2	0	5	24	1	0	3	2	4	8	9	2	1	0
	1730	,,	1000·1	998.9	..	33·1	26.4	23·5	28·9	60	..	3·9	..	30.6	0	5	25	0	0	0	0	12	15	3	0	0	0
Mahuva	0830	9	1003·8	1002.8	..	28·8	27·0	26·2	34·0	86	..	4·3	..	8·5	0	0	25	0	0	0	0	3	12	9	1	5	0
	1730	,,	1001·4	1000·4	..	30·0	27·1	26·0	33·6	80	..	4·3	..	23·0	0	19	11	1	0	0	0	12	14	2	1	0	0
Keshod	0830	51	1003·7	997·9	..	29·2	26·5	25·3	32·2	80	..	3·9	..	15·7	0	10	18	0	0	0	0	3	12	10	2	2	1
	1130	,,	1003·6	997·9	..	31·8	26·9	24·9	31.5	68	..	4·5	..	24·1	0	23	7	0	0	0	0	3	17	10	0	0	0
	1730	,,	1001·2	995·5	..	31·9	26·8	24.7	31.1	67	..	4·0	..	29·2	0	29	1	0	0	0	0	2	19	9	0	0	0
Veraval	0230	8	1002·3	1001·4	..	28.6	27·4	26.9	35·4	91	..	3·3	..	23·3	0	20	10	0	0	0	0	1	10	16	3	0	0
	0530	,,	1002·1	1001·2	..	28·4	27·2	26.8	35·2	91	..	4·3	..	20·7	0	3	26	0	0	0	0	0	10	16	3	1	0
	0830	,,	1003·6	1002·7	+0·2	29·3	27·8	27.2	36·1	89	+7	4·7	0	19·4	0	13	16	2	0	0	0	0	11	13	3	1	0
	1130	,,	1004·0	1003·1	..	30·7	28·7	27·9	37 6	85	..	4·5	..	19.9	0	14	15	0	0	0	1	0	13	11	4	1	0
	1730	,,	1001.5	1000·6	..	30.2	28·5	27·9	37·6	87	..	5·1	..	25·0	0	24	6	0	0	0	0	2	10	15	3	0	0
	2330	,,	1003·3	1002·4	..	28·8	27·7	27·2	36.1	91	..	3·5	..	22·7	0	15	15	0	1	1	0	1	10	16	1	0	0
Konkan Dahanu	0830	5	1004·7	1004·2	+0·7	27·8	25·8	24·9	31·5	85	+2	7·4	+1.3	9·9	0	3	27	0	0	8	8	6	4	3	1	0	0
	1730	,,	1002·3	1001·8	..	29·6	26·7	25·5	32·6	79	..	6·8	..	21·6	0	12	18	0	0	0	1	4	13	12	0	0	0
Bombay (Colaba)	0830	11	1005·3	1004.1	+0·2	28·1	26·0	25·1	31·9	84	+5	6·4	+0·6	7·9	0	0	28	0	0	1	4	5	9	8	1	2	0
	1130	,,	1005·7	1004 5	..	29·7	26·6	25·4	32·4	79	..	5·6	..	9·1	0	0	28	1	0	0	2	8	9	7	1	2	0
	1730	,,	1003·3	1002·1	..	29.4	26·3	25·1	31·9	79	..	5·8	..	10·6	0	0	29	0	0	0	0	2	14	11	2	1	0
Bombay (Santacruz Aerodrome)	0230	15	1003·8	1002·1	..	26·8	24·8	23·9	29·7	85	..	5·8	..	10.4	0	4	22	0	2	1	3	3	10	6	1	4	0
	0530	,,	1003·8	1002·1	..	26·3	24·8	24·1	30·0	88	..	6·6	..	7·2	0	2	20	0	0	2	3	5	7	5	0	8	0
	0830	,,	1005·2	1003.5	0	27·9	25·6	24·5	30·7	83	+6	6.8	+1·0	8·9	0	2	23	0	0	0	5	5	8	6	1	5	0
	1130	,,	1005·5	1003·9	..	29·0	25·8	24·4	30·6	77	..	6·5	..	15·3	0	6	22	0	0	0	2	5	11	9	1	2	0
	1730	,,	1003·2	1001·5	..	29·2	25·8	24·4	30·6	77	..	6.3	..	17·1	0	10	20	0	0	0	0	1	13	15	1	0	0
	2330	,,	1005·1	1003·4	..	27·3	25·3	24·3	30·4	84	..	5.4	..	11·9	0	3	24	0	0	1	1	4	13	6	2	3	0
Alibag	0830	7	1006·6	1005·8	+1·1	27·3	25·6	24·9	31·5	88	+8	6·5	+0·1	13·7	0	8	20	1	0	1	9	5	8	4	0	2	0
Harnai	0830	20	1005·8	1003.5	+1·0	27·3	25·8	25·2	32·1	89	+6	6·9	..	12·5	0	6	21	2	0	5	4	4	7	5	0	3	0
	1730	,,	1003·9	1001·6	..	28·3	26·6	25·8	33·2	87	..	7·0	..	19·1	0	11	19	0	0	0	1	5	12	11	1	0	0
Ratnagiri	0830	35	1006·6	1002·7	+0·7	27·0	25·6	25·1	31·9	89	..	6.6	..	..	..	..	..	0	0	12	1	0	6	11	0	0	0
	1730	,,	1004·6	1000·6	..	28·5	26·3	25·4	32·4	84	..	6.2	..	..	..	..	..	0	0	0	0	0	14	16	0	0	0
Devgad	0830	36	1006·7	1002·7	+1·0	27·5	25 7	25·0	31·7	86	0	6.4	+0·2	22·4	0	16	13	0	1	4	3	0	12	9	0	1	0
	1730	,,	1004·8	1000·8	..	28·8	26·4	25·4	32·4	82	..	6.3	..	26·5	0	20	10	0	1	0	0	0	10	18	1	0	0
Vengurla	0230	9	1005·8	1004·8	..	25·1	24·9	24·3	30·4	90	..	6·1	..	4 1	0	0	13	2	0	0	1	1	5	4	0	17	0
	0530	,,	1005·4	1004·7	..	25 9	24·8	24·3	30·4	91	..	6 6	..	6·8	0	0	20	3	1	2	1	0	5	6	2	10	0
	0830	,,	1007·3	1006·3	..	26·9	25·4	24·8	31.3	88	..	6·4	..	4·8	0	0	22	3	2	1	2	1	11	1	1	8	0
	1130	,,	1007.5	1006·5	..	28·9	26·1	25.0	31·7	80	..	6·7	..	7·1	0	1	25	2	2	0	1	1	13	7	0	4	0
	1730	,,	1005·4	1004·4	..	28·2	25·8	24·7	31·1	82	..	7·0	..	7·8	0	0	25	0	0	0	1	2	12	9	1	5	0
	2330	,,	1007·3	1006·3	..	26·6	25·2	24·6	30·9	89	..	6 7	..	7·1	0	1	20	2	0	0	3	0	11	5	0	9	0
Maharashtra (Including Marathwada)																											
Nandurbar	0830	206	1004·1	981·1	..	28·3	24·7	23·1	28·3	74	..	2·9	..	13·4	0	3	27	1	0	0	0	0	1	28	0	0	0
	1730	,,	999·8	977·3	..	33·3	25·1	21·2	25·2	52	..	3·7	..	14·8	0	6	24	1	0	0	0	0	2	25	2	0	0
Jalgaon	0830	201	1003·7	981·3	..	28·1	24·5	22·8	27·7	75	..	4·5	..	23·7	0	13	17	0	0	0	0	0	3	21	6	0	0
	1730	,,	998·7	976·9	..	34·4	24·7	19·7	22·9	47	..	4·8	..	28·3	0	23	7	3	0	0	0	0	5	17	5	0	0
Malegaon	0830	437	1003·8	955·7	+0·4	27·0	23·1	21·1	25·0	71	+3	4.4	−0·1	4·9	0	0	25	2	1	0	0	1	9	6	6	5	0
	1730	,,	999·5	952·3	..	31·5	23·7	19·6	22·8	53	..	6·1	..	8·4	0	0	27	2	1	0	0	1	10	8	5	3	0
Deolali	0830	571	1005·4	942·5	..	25·5	23·0	21·9	26·3	81	..	5·4	..	20·3	0	13	17	0	0	0	0	0	19	10	1	0	0
	1730	,,	1002·2	940·2	..	28·0	23·6	21·5	25·6	69	..	6·3	..	25·4	0	24	6	0	1	0	1	0	21	6	1	0	0
Aurangabad	0830	581	1005·0	941·1	+0·3	24.9	22·2	21·0	24·9	79	+7	5·0	−0·5	20·2	0	14	16	1	1	0	0	0	4	22	2	0	0
	1730	,,	1000·1	937·6	..	30·3	23·4	20·2	23·7	57	..	6·2	..	20·1	0	14	12	1	0	0	0	1	1	16	7	4	0
Aurangabad [Chikalthana [Aerodrome]	0230	579	1002·8	939·1	..	23·8	21·6	20·5	24·1	82	..	4·7	..	13·8	0	4	25	0	0	0	0	0	2	20	7	1	0
	0530	,,	1003·1	939.1	..	23·1	21·4	20·6	24·3	86	..	5·2	..	14·7	0	4	26	1	0	0	0	0	4	12	13	0	0
	0830	,,	1004·2	940·7	..	25·3	22·4	21·0	24·9	77	..	5·0	..	17·0	0	7	23	0	1	0	0	0	1	23	5	0	0
	1130	,,	1003·2	940·5	..	29·3	23·3	20·6	24·3	61	..	5·5	..	19·7	0	9	21	0	0	0	0	0	1	20	9	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Maharashtra (including Marathwada) —*contd.*																											
Aurangabad (chikalthana Aerodrome)—contd.	1730	579	999.3	937 0	..	30·3	23·2	19·7	22·9	56	..	6·3	..	21·0	0	13	17	2	0	0	1	0	3	15	9	0	0
	2330	"	1003·8	940·2	..	24·8	22·1	20·9	24·7	79	..	5·1	..	14·7	0	4	25	1	0	0	0	0	2	19	7	1	0
Ahmednagar	0830	657	1004·8	933·0	+0.3	25·1	21·8	20·4	24·0	76	+5	5·3	+0·8	3·7	0	0	22	0	0	1	0	0	8	7	6	8	0
	1730	"	1000·4	929·7	..	28·3	22.8	20·2	23·7	64	..	6·6	..	6·7	0	0	29	4	1	0	1	2	6	5	10	1	0
Bhir	0830	519	1005·4	948·4	..	26·5	24·5	23·9	29·7	86	..	4·4	..	13·7	0	1	29	2	0	0	0	3	10	7	8	0	0
	1730	"	1000·1	944·4	..	32·1	26·5	24·4	30·5	65	..	(b) 5·6	..	(b) 14·7	0	2	27	(b) 3	1	1	1	3	9	5	6	0	0
Parbhani	0880	423	1004·6	957·9	..	26·5	22·0	21·1	25·0	73	..	5·8	..	18·3	0	10	20	0	0	0	0	1	5	20	4	0	0
	1730	"	999·0	953·5	..	32·8	23·9	19 3	22·4	47	..	6·3	..	17·8	0	11	19	3	2	0	2	2	4	10	7	0	0
Nanded	0830	358	1003·9	964·2	..	26·9	23·5	21·9	26·3	74	..	2·0	..	10·9	0	0	30	0	0	0	0	0	10	18	2	0	0
	1730	"	999·2	960·5	..	32·8	24·9	20·9	24·7	53	..	2·1	..	7·8	0	0	25	2	0	0	0	1	11	5	6	5	0
Poona	0530	559	1004·0	942·2	..	23·4	21·5	20·6	24·3	84	..	6·3	..	3·1	0	0	12	0	0	0	0	0	5	7	0	18	0
	0830	"	1004·9	943·5	+0·2	25·7	22·6	21·2	25·2	77	+4	5·6	+0·2	7·2	0	0	22	1	0	0	0	1	6	11	3	8	0
	1130	"	1004·1	943·5	..	29·4	23·6	21·0	24·9	62	..	5·7	..	8·5	0	1	25	0	0	1	0	0	10	9	6	4	0
	1730	"	1001·9	941·1	..	28·0	23·3	21·2	25·2	68	..	6·5	..	10·0	0	0	29	0	0	0	0	1	12	13	3	1	0
	2330	"	1005·1	943·5	..	24·4	21 9	20·8	24·6	81	..	5·4	..	7·0	0	0	22	0	0	0	0	0	11	11	0	8	0
Poona (Lohagaon Aerodrome).	0230	593	1004·7	939·2	..	23.1	21·3	20·5	24·1	86	..	4·8	..	8·8	0	2	23	0	0	0	0	0	0	24	1	5	0
	0530	"	1004·2	938·6	..	22·8	21·2	20·3	23·8	86	..	5·6	..	6·8	0	0	27	0	0	0	0	0	0	25	2	3	0
	0830	"	1005·1	939·9	..	25·1	22·1	20·7	24·4	77	..	5·8	..	14·5	0	7	23	0	0	0	0	0	2	25	3	0	0
	1130	"	1004·2	939·8	..	28·5	22·9	20·3	23·8	62	..	6·2	..	22·9	0	17	13	0	0	0	0	0	4	23	3	0	0
	1730	"	1001·8	937·3	..	27·2	22·8	20.7	24·4	68	..	6·4	..	29·8	0	22	8	1	0	0	0	0	1	26	2	0	0
	2330	"	1005·2	939·8	..	24·0	21·7	20·6	24·3	82	..	5·4	..	15·8	0	9	20	0	0	0	0	0	0	27	2	1	0
Baramati	0830	551	1004·8	944·5	..	26·0	22·9	21·4	25·5	75	..	4·8	..	14·3	0	4	26	0	0	0	0	0	10	16	4	0	0
	1730	"	1000·7	941·3	..	30·1	24.4	21·9	26·3	62	..	5·8	..	26·9	0	20	10	0	0	0	0	0	10	17	3	0	0
Jeur	0830	521	1005·0	947·6	..	29·7	22·5	21·0	24·9	75	..	4·9	..	15·8	0	6	24	0	0	0	0	0	7	16	7	0	0
	1730	"	1000·0	943·8	..	30·5	23·5	20.0	23·4	57	..	6·1	..	23·0	0	18	11	1	1	0	1	1	3	17	5	1	0
Sholapur	0530	479	1004·5	951·4	..	23·8	22·3	21·6	25·8	88	..	6·2	..	3·6	0	0	28	0	0	0	0	0	13	13	2	2	0
	0830	"	1005·4	952·6	+0·5	25·8	23·3	22·2	26·7	81	+13	5·5	+0·5	6·9	0	0	30	0	0	0	0	0	22	5	3	0	0
	1130	"	1004·3	952·3	..	30.4	27.7	22·2	26·7	63	..	5·9	..	14·0	0	3	27	2	0	0	0	0	6	16	6	0	0
	1730	"	1000·1	948·5	..	32·1	24.8	21·7	25.9	56	..	6.4	..	10.6	0	3	26	0	1	0	0	0	16	7	5	1	0
	2330	"	1005·1	952·2	..	25·5	23.0	21.8	26.1	81	..	5 4	..	7.0	0	0	29	0	0	0	0	0	17	9	3	1	0
Miraj	0830	554	1006·3	945·4	+0.4	25·0	22.5	21·3	25·3	80	0	5·4	−0 9	..	..	..	..	0	0	0	0	0	4	21	1	4	0
	1730	"	1002·7	942·8	..	29·2	23·1	20·3	23·8	60	..	5·4	..	..	..	..	..	0	0	0	0	0	2	26	2	0	0
Kolhapur	0530	570	1005·0	941·9	..	22·6	21·5	21·0	24·9	91	..	6·0	..	8·4	0	2	22	0	0	0	0	0	9	15	0	6	0
	0830	"	1006·2	943·4	+0·7	24·4	22·3	21·3	25·3	83	+2	6.7	+1·3	15·5	0	4	26	0	0	0	0	0	7	20	3	0	0
	1130	"	1005·4	943·3	..	27·4	23·1	21·1	25·0	70	..	6·8	..	18·7	0	9	21	0	0	0	0	0	7	22	1	0	0
	1730	"	1003.3	941.1	..	26.4	22.6	20.8	24.6	73	..	6.2	..	23.4	0	7	23	0	0	0	0	0	7	21	2	0	0
	2330	"	1006.3	943·2	..	23.1	20.7	21.0	24·9	88	..	5.5	..	14.8	0	3	26	0	0	0	0	0	12	16	1	1	0
Vidarbha																											
Buldhana	0830	650	1003·3	932·1	..	24·7	21·8	20·3	24·1	77	..	5·5	..	4·9	0	0	29	0	0	0	0	0	5	0	24	1	0
	1730	"	998·0	928·9	..	31·6	23·3	19·2	21·4	49	..	6·4	..	3·1	0	0	21	0	3	0	0	0	1	0	17	9	0
Akola	0830	282	1003·2	970·6	−0·9	27·7	24·2	22·6	27·4	75	+11	5·4	+0·7	8·7	0	3	27	0	0	0	0	1	7	19	3	0	0
	1130	"	1002·2	971·4	..	31·4	25.2	22·0	27·0	61	..	5·4	..	9·8	0	2	27	0	0	0	0	0	2	23	4	1	0
	1730	"	997·5	967·2	..	34·8	25·6	21·1	25·2	48	..	6·2	..	4·5	0	0	27	0	2	0	0	0	0	20	5	3	0
Akola (Aerodrome)	0530	309	1001·5	967·0	..	25·6	23·1	21·8	26·0	80	..	5·9	..	10·6	0	2	26	0	0	0	0	0	5	20	3	2	0
	2330	"	1001·5	967·3	..	27·6	23·7	21·7	26·0	72	..	6.2	..	13·7	0	6	22	0	0	0	0	0	6	17	5	2	0
Amravati	0830	370	1002.7	962·0	+0·4	27·9	24·0	22·1	24·8	72	+7	5·5	+0·9	24·5	0	19	11	0	0	0	0	0	16	13	1	0	0
	1730	"	997·3	957·4	..	32·7	24·5	20·1	24·2	52	..	6·3	..	13·0	0	1	29	0	2	0	2	2	11	2	12	0	0
Yeotmal	0830	451	1001·3	951·7	..	26·7	23·3	21·6	25·1	75	..	4·6	..	11·6	0	0	30	0	0	0	0	1	4	24	1	0	0
	1730	"	997·0	948·7	..	33·1	24·3	19·6	23·2	49	..	6·1	..	11·4	0	2	27	4	0	0	0	2	6	14	4	1	0
Nagpur	0230	310	999·9	965·6	..	27·3	23·4	21·2	25·6	73	..	6·4	..	9·4	0	2	22	0	0	0	0	2	6	10	6	6	0
	0530	"	1000·5	966·2	..	26.3	23·1	21·4	25·5	76	..	6·2	..	8·0	0	2	25	0	0	1	0		6	12	2	3	0
	0830	"	1001·8	967·7	+0·3	29.1	24·1	21·6	25·9	67	+8	4·7	−0·1	12·5	0	4	25	0	0	0	0	1	8	11	9	1	0
	1130	"	1000·7	967·1	..	34·0	25·4	21.1	25·4	50	..	5·6	..	14·2	0	8	22	3	0	0	0	1	4	9	13	0	0
	1730	"	997·0	963·5	..	32·9	24·9	20·6	24·9	55	..	6·9	..	10·7	0	5	22	3	0	0	2	1	8	6	7	3	0
	2330	"	1000·5	966.3	..	28·2	23·8	21·5	25·8	71	..	6·4	..	8·7	0	2	22	0	0	1	3	[illegible]	7	8	3	6	0
Gondia	0830	318	1001·2	966·8	..	29·7	25·0	22·4	27·3	68	..	4·7	..	7·1	0	0	30	1	1	0	4	1	9	0	4	0	0
	1730	"	997·1	963·2	..	33·9	25·1	20·5	24·4	51	..	5·8	..	7·7	0	0	29	1	1	0	3	0	7	0	8	1	0
Brahmapuri	0830	229	1002·9	977·3	..	29·1	24·9	23·2	28·0	72	..	4·8	..	8·3	0	0	30	0	0	0	0	2		6	13	0	0
	1730	"	997·7	972·8	..	34·7	25·7	21·2	25·6	50	..	5·7	..	7·7	0	0	28	1	0	0	2	3	10	5	6	2	1

Mean of 29 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—*contd.*																											
Chanda . . .	0830	19_3	1002·6	981·2	+0·3	28·6	24·5	22·6	27·3	72	+13	6·5	+1·8	11·6	0	3	26	0	0	0	1	2	3	14	9	1	0
	1730	"	997·8	976·7	..	33·5	25·3	21·6	24·4	53	..	6·2	..	10·5	0	1	29	1	1	1	1	6	5	9	6	0	0
Sironcha . .	0830	12_3	1003·4	989·2	..	28·2	24·7	23·3	27·9	76	..	6·2	..	4·9	0	0	28	2	1	2	2	3	2	11	5	2	0
	1730	"	998·4	985·5	..	33·4	26·2	22·7	28·1	58	..	5·8	..	4·4	0	0	28	4	3	0	3	4	7	1	6	2	0
Coastal Andhra Pradesh																											
Nellore . . .	0530	2_0	1003·0	1000·8	..	29·6	24·0	21·4	25·5	63	..	5·7	..	4·2	0	0	20	0	0	0	0	0	8	12	0	10	0
	0830	"	1004·8	1000·6	+0·2	31·5	24·6	21·2	25·2	55	−1	6·0	+0·4	7·4	0	0	30	0	0	0	0	0	0	30	0	0	0
	1130	"	1004·2	1002·0	..	35·3	25·1	20·0	23·4	42	..	5·8	..	11·8	0	1	29	0	0	0	0	0	7	21	2	0	0
	1730	"	1000·9	998·8	..	36·1	25·4	20·2	23·7	41	..	7·0	..	4·9	0	0	29	1	0	0	3	0	6	18	1	1	0
	2330	"	1003·6	1001·4	..	30·4	24·9	22·4	27·1	63	..	5·8	..	3·5	0	0	19	0	0	0	0	0	7	11	1	11	0
Ongole . . .	0830	1_2	1003·9	1002·6	..	31·3	25·8	23·1	28·3	63	..	6·6	..	6·7	0	0	26	0	0	0	8	0	3	4	11	4	0
	1730	"	999·9	998·6	..	34·8	26·5	22·5	27·3	52	..	6·8	..	5·6	0	0	28	0	0	0	7	1	3	4	13	2	0
Rentachintala . .	0830	10_6	1004·3	992·5	..	30·4	24·1	21·7	25·9	50	−4	6·4	−0·2	8·7	0	0	30	0	0	0	0	0	0	27	3	0	0
	1730	"	999·8	988·2	..	35·1	24·7	19·7	22·9	43	..	6·6	..	6·5	0	0	29	0	0	0	0	0	0	28	1	1	0
Gannavaram .	0230	2_4	1001·4	998·8	..	29·4	25·0	23·0	28·1	70	..	6·2	..	7·3	0	7	19	0	0	0	1	1	6	13	5	4	0
	0530	"	1002·1	999·4	..	28·7	24·6	22·7	27·6	72	..	6·6	..	12·4	0	7	21	1	0	0	0	0	10	11	6	2	0
	0830	"	1003·7	1001·0	..	30·8	24·8	21·9	26·3	62	..	6·2	..	21·0	0	14	16	0	0	0	0	0	1	18	10	0	0
	1130	"	1003·0	1000·4	..	33·7	25·5	21·6	25·8	53	..	6·2	..	22·4	0	19	11	1	0	0	0	0	1	11	17	0	0
	1730	"	999·7	997·1	..	34·3	25·4	21·0	24·9	52	..	6·8	..	18·0	0	13	16	2	0	0	1	1	2	13	10	1	0
	2330	"	1002·6	999·9	..	30·1	25·1	22·7	27·6	61	..	6·4	..	12·2	0	5	23	1	0	0	0	5	5	12	5	2	0
Masulipatam . .	0830	3	1003·7	1003·4	+0·1	30·2	25·7	23·7	29·3	70	−1	5·9	+1·1	7·5	0	0	30	4	0	0	0	0	1	16	9	0	0
	1730	"	999·9	999·6	..	33·5	26·9	24·1	30·0	61	..	6·4	..	8·1	0	0	30	6	0	0	0	8	0	11	5	0	0
Nidadavolu . .	0830	1_2	1003·0	1001·6	..	29·7	25·3	23·3	28·6	71	..	6·8	..	15·1	0	7	23	0	0	0	0	0	9	19	2	0	0
	1730	"	999·4	998·0	..	32·0	26·3	23·1	28·3	59	..	7·0	..	17·1	0	9	20	0	1	0	1	3	7	11	6	1	0
Kakinada . .	0830	8	1002·6	1001·7	+0·4	30·8	26·2	24·1	30·0	70	2	5·7	+0·1	2·3	0	0	30	0	0	0	0	0	30	0	0	0	0
	1730	"	999·1	998·2	..	33·7	26·4	23·2	28·4	58	..	6·0	..	11·7	0	0	30	0	1	0	4	0	22	0	3	0	0
Visakhapatnam .	0230	3	1000·1	999·7	..	29·0	25·9	24·6	30·9	78	..	5·6	..	7·3	0	2	20	0	0	2	1	1	15	2	0	8	1
	0530	"	1000·4	1000·0	..	28·6	25·6	24·2	30·2	78	..	7·0	..	9·0	0	5	18	1	0	1	0	1	13	4	3	7	1
	0830	"	1001·6	1001·1	−0·7	30·8	26·2	24·2	30·2	69	12	6·6	+0·4	8·4	0	2	24	1	0	0	1	0	15	5	0	4	4
	1130	"	1001·0	1000·6	..	32·5	27·1	24·0	29·8	59	..	6·6	..	15·4	0	13	16	0	0	2	2	5	12	1	3	1	4
	1730	"	998·8	998·4	..	31·9	26·5	24·2	30·2	65	..	6·9	..	12·0	0	3	27	0	0	2	1	4	16	4	2	0	1
	2330	"	1001·0	1000·6	..	29·5	26·1	24·7	31·1	75	..	5·7	..	6·7	0	1	22	0	0	2	1	1	13	2	4	7	0
Calingpattinam .	0830	6	1001·1	1000·3	−0·5	29·7	27·9	27·2	36·1	87	+12	4·1	−0·9	10·3	0	4	25	3	1	0	1	3	12	2	5	1	2
	1730	"	998·7	998·1	..	30·7	28·8	28·2	38·2	87	..	6·0	..	15·5	0	8	22	0	0	2	1	7	18	1	1	0	0
Telangana																											
Ramagundam . .	0830	156	1003·1	985·5	..	28·7	24·1	21·9	26·3	69	..	6·6	..	5·9	0	1	24	2	0	0	0	1	4	15	3	5	0
	1730	"	998·5	981·5	..	34·7	25·3	20·9	24·7	49	..	6·0	..	5·3	0	1	25	1	2	0	1	3	3	11	5	4	0
Nizamabad . .	0830	381	1003·7	961·7	0	27·9	23·4	21·2	25·2	67	+1	5·1	+0·5	3·3	0	0	25	1	1	0	0	1	9	13	0	5	0
	1730	"	998·9	957·7	..	33·1	24·7	20·6	24·3	52	..	5·5	..	1·6	0	0	15	1	1	0	0	3	9	1	0	15	0
Mahbubnagar .	0830	505	1005·3	949·7	..	25·8	22·2	20·5	24·1	73	..	6·7	..	13·5	0	1	29	0	0	0	0	0	9	14	7	0	0
	1730	"	1000·1	945·9	..	31·4	23·1	19·1	22·1	51	..	7·1	..	9·6	0	2	28	1	0	0	1	0	11	14	3	0	0
Hyderabad (Begumpet Aerodrome)	0230	545	1002·3	942·9	..	25·0	21·6	19·9	23·2	74	..	6·1	..	18·5	0	10	20	0	0	1	0	0	2	21	6	0	0
	0530	"	1003·2	943·3	..	24·2	21·2	19·8	23·1	77	..	6·8	..	16·0	0	5	25	0	0	1	0	0	0	25	4	0	0
	0830	"	1004·4	944·7	+0·6	25·7	21·8	19·8	23·1	71	0	6·7	+1·3	22·6	0	21	9	0	0	0	0	0	1	23	6	0	0
	1130	"	1003·4	944·4	..	29·5	23·0	19·9	23·2	57	..	6·4	..	23·0	0	20	10	0	0	0	0	0	1	19	10	0	0
	1730	"	999·7	941·3	..	31·3	23·0	18·6	21·4	50	..	7·0	..	20·3	0	12	18	0	0	0	1	1	7	10	11	0	0
	2330	"	1003·3	943·8	..	26·8	22·3	19·9	23·2	68	..	6·1	..	15·5	0	9	18	1	0	0	0	0	4	18	4	3	0
Hakimpet . .	0530	613	1003·1	935·5	..	23·8	21·9	21·2	25·2	85	..	6·8	..	23·2	0	20	10	0	1	0	0	0	1	25	3	0	0
	0830	"	1004·0	936·9	..	25·1	22·6	21·4	25·5	81	..	6·7	..	24·6	0	24	6	0	0	0	0	0	1	23	6	0	0
	1130	"	1003·0	936·8	..	28·7	24·1	22·0	26·4	69	..	6·3	..	24·7	0	20	10	0	1	0	0	0	1	25	3	0	0
	1730	"	1000·0	934·3	..	30·2	24·2	21·6	25·8	62	..	6·6	..	18·1	0	9	21	1	0	0	0	0	5	19	5	0	0
Hanamkonda . .	0830	269	1003·2	973·5	−0·1	28·5	23·9	21·6	25·8	68	+9	5·4	+0·3	7·9	0	0	30	9	1	0	0	0	0	17	3	0	0
	1730	"	999·3	970·2	..	33·6	25·4	21·3	25·3	52	..	5·7	..	6·4	0	0	30	10	1	0	1	1	0	15	2	0	0
Bhadrachalam . .	0830	111	1003·1	990·8	..	30·3	24·8	22·2	26·7	64	..	6·1	..	6·2	0	0	29	2	3	0	4	1	4	4	11	1	0
	1730	"	999·0	987·0	..	34·3	25·3	21·0	24·9	51	..	6·7	..	6·5	0	0	30	4	4	0	3	0	4	5	10	0	0
Khammameth . .	0830	112	1003·6	991·1	..	29·9	25·0	22·8	27·7	67	..	6·6		10·1	0	0	29	2	1	0	0	0	6	16	4	1	
	1730	"	999·0	986·8	..	34·3	25·9	22·1	26·6	52	..	7·2	..		0	2	26	1	0	1	0	0	1	23	2	2	0

Division and station	Hour of observation I.S.T.	Station elevation metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rayalaseema Arogyavaram	0830	701	1006.1	929.8	..	25.3	20.6	18.1	20.8	64	..	5.4	..	9.5	0	0	30	0	0	0	0	0	2	15	13	0	0
	1730	"	1001.5	926.7	..	30.5	21.7	17.0	19.4	46	..	6.6	..	9.1	0	0	28	1	0	0	0	0	2	9	16	2	0
Cuddapah	0830	130	1006.4	991.8	+0.6	29.8	24.2	21.5	25.6	62	+3	4.7	−0.4	4.3	0	0	17	0	0	0	0	0	0	16	1	13	0
	1730	"	1001.4	987.2	..	34.8	25.9	21.8	26.1	48	..	5.8	..	7.0	0	0	25	0	0	0	0	0	0	20	5	5	0
Anantapur	0530	350	1005.1	966.2	..	25.1	21.6	19.6	22.8	72	..	5.7	..	14.9	0	4	25	0	0	0	0	0	2	27	0	1	0
	0830	"	1006.5	967.7	..	27.0	22.3	19.8	23.1	65	..	6.1	..	18.3	0	10	20	0	0	0	0	0	5	23	2	0	0
	1130	"	1005.3	967.1	..	31.3	22.9	18.3	21.0	46	..	6.0	..	19.6	0	13	17	0	0	0	0	0	5	17	8	0	0
	1730	"	1001.6	963.7	..	32.6	22.8	17.1	19.5	42	..	6.9	..	21.7	0	24	16	0	0	0	0	0	1	23	6	0	0
	2330	"	1005.4	966.7	..	27.5	22.1	19.1	22.1	61	..	5.0	..	23.6	0	22	8	0	0	0	0	0	1	29	0	0	0
Kurnool	0830	281	1005.9	974.7	+0.6	27.9	24.5	22.9	27.9	75	+9	5.9	+0.6	13.3	0	5	25	2	0	0	0	0	0	22	6	0	0
	1730	"	1000.6	970.1	..	33.0	25.1	21.3	25.3	54	..	6.6	..	16.2	0	8	22	1	1	0	1	0	1	13	13	0	0
Madras State Palayamcottai	0830	51	1007.5	1001.9	..	30.7	23.9	20.4	24.0	55	..	5.8	..	14.7	0	6	24	0	0	0	0	1	1	23	5	0	0
	1730	"	1004.9	999.3	..	32.3	23.7	19.2	22.2	46	..	6.1	..	20.0	0	16	14	0	0	0	0	0	3	21	6	0	0
Tuticorin	0830	4	1007.9	1007.5	..	30.8	25.2	22.5	27.3	62	..	5.3	..	21.0	0	13	17	0	0	0	0	0	5	24	1	0	0
	1730	"	1004.7	1004.3	..	33.1	25.3	21.[illegible]	25.6	52	..	3.7	..	28.0	0	23	7	0	0	0	1	1	1	27	0	0	0
Pamban	0830	11	1007.6	1006.3	+0.4	28.6	25.8	24.6	30.9	79	+4	2.8	−0.1	9.6	0	0	30	0	0	0	0	2	27	1	0	0	0
	1730	"	1004.9	1003.6	..	29.7	26.3	24.9	31.5	75	..	3.3	..	12.5	0	3	27	0	0	0	1	20	9	0	0	0	0
Tondi	0830	5	1007.2	1006.6	..	29.6	24.5	22.1	26.6	64	..	4.8	..	7.0	0	0	17	0	0	0	0	4	13	0	0	13	0
	1730	"	1003.9	1003.3	..	30.1	26.7	25.3	32.2	76	..	5.9	..	30.9	0	25	5	1	0	1	11	13	3	0	1	0	0
Mathmai	0830	133	1007.0	992.1	−0.1	29.6	23.5	20.3	23.8	57	0	6.1	+0.9	5.9	0	0	30	0	0	0	0	0	7	0	23	0	0
	1730	"	1003.2	989.0	..	34.0	23.9	18.5	21.3	41	..	7.2	..	11.4	0	1	29	0	1	0	2	0	22	0	5	0	0
Mathmai (Aerodrome)	0530	131	1005.8	991.1	.	26.9	22.5	20.1	23.5	67	..	5.4	..	12.6	0	4	23	3	0	0	0	2	3	11	8	3	0
	0830	"	1007.0	992.4	..	30.7	23.6	19.6	22.8	53	..	5.2	..	21.5	0	11	18	3	0	0	0	0	5	13	8	1	0
	1130	"	1006.0	991.6	..	34.4	24.3	19.1	22.1	41		5.2	..	24.4	1	15	14	1	0	1	1	0	7	16	4	0	0
	1730	"	1003.3	988.9	..	33.8	24.1	19.1	22.1	43	..	6.3	..	28.3	0	21	9	0	0	0	1	1	3	22	3	0	0
Adirampattinars	0830	..	..	..	..	30.7	24.9	22.2	26.7	61	..	3.5	..	9.1	0	1	26	0	0	0	0	3	9	7	8	3	0
	1730	..	..	..	..	30.6	26.6	24.9	31.5	72	..	4.9	..	29.5	0	27	3	0	0	0	0	26	4	0	0	0	0
Nagapattinam	1730	9	1006.9	1005.8	+0.2	30.1	24.1	21.1	25.0	59	−4	5.7	+1.5	16.2	0	9	21	0	0	0	0	0	9	21	0	0	0
	0830	"	1003.1	1002.1	..	32.5	26.0	23.0	28.1	58	..	5.5	..	18.5	0	3	27	0	0	0	1	16	11	2	0	0	0
Tiruchirapalli	0230	88	1004.8	995.1	..	27.4	22.8	20.1	23.5	63	..	3.2	..	29.0	0	25	3	0	0	0	0	0	1	27	0	2	0
	0530	"	1005.2	995.3	..	27.4	22.7	20.1	23.5	65	..	4.6	..	27.8	0	22	8	0	0	0	0	0	1	28	1	0	0
	0830	"	1006.6	996.8	−0.2	30.0	23.6	20.3	23.8	56	−2	4.6	+0.3	32.2	0	26	4	0	0	0	0	0	0	28	2	0	0
	1130	"	1005.5	995.8	..	34.3	23.9	18.4	21.1	40	..	4.4	..	36.6	0	27	3	0	0	0	0	0	1	25	4	0	0
	1730	"	1002.7	993.0	..	34.7	23.7	17.7	20.2	37	..	5.8	..	34.8	0	27	3	0	0	0	1	1	1	26	1	0	0
	2330	"	1006.2	996.4	..	29.0	22.8	19.5	22.7	57	..	3.7	..	31.5	0	25	4	0	0	0	0	1	1	26	1	1	0
Coimbatore	0830	409	1007.7	962.4	+0.5	25.9	22.5	20.6	24.3	73	−5	5.7	+1.2	19.9	0	11	19	0	0	0	0	12	15	3	0	0	0
	1730	"	1004.9	960.0	..	27.9	22.7	19.9	23.2	63	..	6.3	..	20.0	0	14	16	0	0	0	0	11	14	4	1	0	0
Coimbatore (Peelamedu Aerodrome)	0530	400	1006.7	962.0	..	22.7	21.7	21.2	25.2	91	..	5.3	..	24.4	0	21	9	0	0	0	0	10	19	1	0	0	0
	0830	"	1007.6	963.4	..	26.0	22.8	21.1	25.0	75	..	5.1	..	31.7	0	29	1	0	0	0	0	4	23	3	0	0	0
	1130	"	1006.5	962.9	..	30.2	23.7	22.3	26.9	56	..	5.0	..	42.6	1	29	0	0	0	0	0	3	23	4	0	0	0
	1730	"	1004.6	960.8	..	27.8	23.0	20.5	24.1	65	..	5.7	..	44.5	1	29	0	0	0	0	0	6	21	3	0	0	0
	2330	"	1007.7	963.1	..	23.5	22.2	21.5	25.6	89	..	4.7	..	37.9	0	30	0	0	0	0	0	10	19	1	0	3	0
Salem	0530	278	1006.0	974.9	..	25.0	22.2	20.7	24.4	77	..	6.0	..	2.9	0	0	27	0	0	0	0	2	21	4	0	0	0
	0830	"	1007.3	976.3	+0.3	27.3	22.9	20.7	24.4	67	−7	5.8	+0.9	3.6	0	0	30	0	0	0	0	4	18	8	0	0	0
	1130	"	1005.8	975.4	..	32.1	22.4	18.8	21.7	46	..	5.6	..	6.8	0	0	30	0	0	0	0	2	12	14	2	0	0
	1730	"	1002.4	972.1	..	33.0	23.5	18.3	21.0	43	..	6.7	..	6.8	0	0	29	0	0	0	0	3	14	10	2	1	0
	2330	"	1006.5	975.7	..	27.4	22.7	20.2	23.7	65		4.9	..	5.6	0	0	27	0	0	0	0	3	17	7	0	3	0
Kallakurichi	0830	127	1005.6	991.5	..	30.1	26.4	24.8	31.3	73	..	4.4	..	8.7	0	1	26	1	0	0	3	2	20	1	0	3	0
	1730	"	1001.4	987.6	..	35.1	28.4	24.7	31.1	57	..	6.4	..	12.9	0	2	28	1	3	0	2	2	14	3	5	0	0
Cuddalore	0530	12	1004.4	1003.1	..	27.4	24.7	23.5	28.9	79	..	6.7	..	1.6	0	0	13	0	0	0	1	1	10	1	0	17	0
	0830	"	1006.0	1004.7	−0.1	30.1	25.7	23.7	29.3	69	+5	6.6	+2.3	3.3	0	0	25	0	0	1	1	1	14	7	2	5	0
	1130	"	1005.4	1004.1	..	34.4	26.6	23.2	28.4	53	..	5.6	..	2.8	0	0	16	0	0	0	2	0	8	5	1	14	0
	1730	"	1002.3	1001.0	..	1.6	27.3	25.2	32.1	71	..	7.2	..	8.2	0	0	27	0	0	0	18	3	4	0	1	3	0
	2330	"	1005.4	1004.1	..	28.7	25.8	24.5	36.7	79	..	6.8	..	4.6	0	0	16	0	0	0	5	4	6	1	0	14	0
Tirupattur	0830	390	1006.9	963.7	..	27.6	22.3	19.6	22.8	62	..	5.5	..	2.9	0	0	25	7	1	0	1	4	3	9	0	5	0
	1730	"	1001.8	959.9	..	34.0	23.7	18.1	20.8	40	..	6.9	..	6.1	0	0	28	6	0	0	0	8	8	5	1	2	0
Vellore	0530	214	1004.7	980.8	..	26.7	22.9	20.9	24.7	71	..	5.8	..	4.3	0	0	27	0	0	0	0	2	2	23	0	3	0
	0830	"	1005.9	982.1	+0.1	28.7	23.8	21.4	25.5	65	+2	5.2	+1.2	6.4	0	0	27	0	0	0	0	0	0	27	0	3	0
	1130	"	1004.9	981.5	..	33.0	25.1	21.2	25.2	51	..	5.4	..	11.3	0	1	29	0	0	0	0	0	0	29	1	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Vellore—(*Contd*).	1730	214	1001·6	978·2	..	33·1	24·6	20·3	23·8	49	..	6·7	..	7·9	0	0	26	0	2	0	0	2	0	15	7	4	0
	2330	"	1005·4	981·6	..	28·5	24·4	22·5	27·3	71	..	5·4	..	5·5	0	0	23	0	0	0	0	0	0	22	1	7	0
Tambaram (Aerodrome)	0830	29	1005·4	1001·9	..	30·6	24·9	21·3	25·3	61	..	5·0	..	21·4	0	16	14	0	0	0	0	0	5	18	6	0	0
	1730	"	1001·8	998·6	..	34·6	26·5	23·0	28·1	53	..	6·0	..	22·9	0	20	9	0	0	4	9	8	0	5	3	1	0
Madras	0230	16	1003·6	1001·8	..	28·4	24·4	22·5	27·3	72	..	5·5	..	9·7	0	1	29	0	0	0	0	5	16	9	0	0	0
	0530	"	1004·0	1002·3	..	28·3	23·8	21·6	25·8	68	..	5·6	..	11·9	0	3	27	0	0	0	0	4	10	16	0	0	0
	0830	"	1005·5	1003·8	+0·2	30·5	24·0	20·7	24·4	57	+1	5·5	+0·7	18·5	0	17	12	0	0	0	0	0	8	19	2	1	0
	1130	"	1004·8	1003·1	..	34·4	24·4	19·2	22·2	42	..	5·6	..	23·8	0	19	11	0	0	0	0	0	4	19	7	0	0
	1730	"	1002·1	1000·4	..	33·2	25·7	22·2	26·7	4	..	6·3	..	16·1	0	6	23	1	1	8	6	6	2	3	2	1	0
	2330	"	1005·0	1003·3	..	28·9	25·1	23·4	28·8	73	..	5·7	..	13·0	0	2	28	0	0	0	2	17	9	2	0	0	0
Madras (Nungambakkam)	0830	6	1005·5	1004·8	..	30·7	24·5	21·1	25·0	58	..	4·7	..	12·5	0	0	29	0	0	0	0	0	11	15	3	1	0
Karwar	0830	4	1007·5	1007·0	+0·3	27·5	26·0	25·4	32·4	88	..	7·6	..	10·0	0	4	20	0	0	3	1	1	2	11	4	6	2
	1730	"	1006·1	1005·6	..	28·5	26·4	25·6	32·8	84	..	6·8	..	18·7	0	12	16	0	0	0	0	1	4	15	6	2	2
Honavar	0830	26	1007·9	1005·1	+0·1	26·2	24·8	24·2	30·2	89	0	7·6	+0·8	5·8	0	0	30	0	3	12	1	0	6	7	1	0	0
	1730	"	1006·1	1003·2	..	27·8	25·4	24·3	30·4	82	..	7·3	..	11·9	0	2	28	2	0	2	1	1	13	8	3	0	0
Mangalore	0830	22	1008·6	1006·1	+0·3	26·3	24·3	24·1	30·0	88	+1	7·3	+0·5	8·4	0	0	30	0	0	11	8	2	5	2	0	0	2
	1730	"	1006·7	1004·2	..	28·3	25·8	24·8	31·3	82	..	7·3	..	8·6	0	0	30	3	1	0	2	1	8	10	5	0	0
Mangalore (Bajpe Aerodrome)	0230	102	1007·1	995·6	..	24·6	23·9	23·5	28·9	94	.	6·4	..	5·8	0	0	24	1	0	7	5	2	2	6	1	6	0
	0530	"	1007·1	995·5	..	24·4	23·6	23·3	28·6	94	..	7·3	..	8·4	0	2	26	0	0	16	5	0	3	4	0	2	0
	0830	"	1008·6	997·1	..	25·2	24·3	23·9	29·7	93	..	7·0	..	6·3	0	1	27	0	1	12	8	0	2	4	1	2	0
	1130	"	1008·7	997·2	..	27·0	24·8	23·8	29·5	83	..	7·1	..	8·6	0	1	27	0	1	2	2	2	6	12	3	2	0
	1730	"	1006·7	995·3	..	26·8	24·9	24·0	29·8	85	..	7·4	..	9·7	0	1	27	1	2	2	3	0	4	14	2	2	0
	2330	"	1008·6	997·1	..	25·1	24·1	23·7	29·3	92	..	6·3	..	6·8	0	0	27	0	2	8	4	0	7	6	0	3	0
Interior Mysore (North)																											
Bidar	0830	664	1004·6	931·9	..	24·3	21·7	20·4	24·0	79	+8	6·5	+1·9	27·2	0	22	8	0	0	0	0	0	17	8	5	0	0
	1730	"	999·4	928·2	..	29·5	22·6	19·3	22·4	56	..	6·3	..	22·6	0	16	14	1	1	0	0	1	15	3	9	0	0
Gulbarga	0830	458	1005·5	955·0	+0·7	26·6	22·7	21·0	24·9	72	+1	6·5	+1·7	24·4	0	11	19	0	0	0	0	5	4	13	8	0	0
	1730	"	1000·0	950·6	..	31·9	23·3	19·3	22·4	52	..	7·4	..	45·1	0	25	0	5	0	0	0	1	9	13	2	0	0
Bijapur	0830	594	1005·8	940·6	+0·6	24·9	22·2	20·9	24·7	79	+6	6·3	+1·3	8·5	0	0	30	0	0	0	0	0	7	22	1	0	0
	1730	"	1000·8	937·0	..	30·2	23·1	19·8	23·1	56	..	6·9	..	9·2	0	2	28	1	0	0	0	1	8	16	4	0	0
Belgaum	0830	753	1006·7	924·4	+0·4	23·2	21·5	20·7	24·4	86	+3	6·3	−0·1	8·2	0	0	30	0	0	0	0	0	7	20	3	0	0
	1730	"	1004·2	922·6	..	24·8	21·5	19·9	23·2	76	..	6·9	..	14·5	0	0	30	0	0	0	0	0	4	24	2	0	0
Belgaum (Sambre Aerodrome).	0530	747	1005·9	923·7	..	21·3	20·3	19·8	23·1	91	..	5·7	..	14·5	0	11	16	0	0	0	0	0	1	26	0	3	0
	0830	"	1006·8	925·2	..	23·4	21·3	20·2	23·7	84	..	6·5	..	20·0	0	13	17	0	0	0	0	0	2	27	1	0	0
	1130	"	1006·2	925·2	..	26·0	21·6	19·4	22·5	68	..	6·4	..	26·4	0	24	6	0	0	0	0	0	2	28	0	0	0
	1730	"	1004·4	923·3	..	25·1	21·4	19·6	22·8	73	..	6·0	..	27·1	0	28	2	0	0	0	0	0	5	25	0	0	0
Gadag	0530	650	1006·0	934·3	..	22·0	21·3	21·0	24·9	94	..	6·2	..	16·0	0	7	23	0	0	0	0	1	8	21	0	0	0
	0830	"	1006·7	935·6	+0·4	24·6	22·3	21·2	25·2	82	+1	7·1	+1·7	12·8	0	0	30	0	0	0	0	0	5	25	0	0	0
	1130	"	1005·7	935·4	..	28·5	23·0	20·4	24·0	63	..	6·3	..	19·0	0	9	21	0	0	0	0	0	5	23	2	0	0
	1730	"	1003·2	933·0	..	27·8	23·2	20·6	24·3	67	..	6·8	..	13·6	0	1	29	0	0	0	0	1	14	15	0	0	0
	2330	"	1007·1	935·4	..	22·8	21·6	21·0	24·9	89	..	5·3	..	19·3	0	9	21	0	0	0	0	0	12	18	0	0	0
Raichur	0830	400	1005·8	961·8	+0·7	26·8	23·8	22·2	26·7	76	+7	5·4	+1·4	17·9	0	3	27	0	0	0	0	0	19	0	11	0	0
	1730	"	1001·6	958·4	..	31·5	25·1	21·8	26·1	58	..	5·4	..	17·8	0	9	20	0	1	0	0	0	20	0	8	1	0
Interior Mysore (South)																											
Bellary	0830	449	1006·0	956·7	+0·5	27·0	24·4	23·2	28·4	80	+17	5·9	+0·6	8·0	0	0	27	0	0	0	0	0	1	0	26	3	0
	1730	"	1001·5	953·0	..	31·9	25·3	22·8	27·7	61	..	5·8	..	9·7	0	0	30	0	0	0	0	0	5	1	24	0	0
Chitaldrug	0830	733	1007·0	926·4	+0·3	23·7	21·0	19·8	23·1	82	+5	6·7	+0·5	11·1	0	0	30	0	0	0	0	0	7	23	0	0	0
	1730	"	1003·3	924·3	..	27·1	21·4	18·5	21·3	61	..	6·4	..	8·3	0	0	30	0	0	0	0	1	10	19	0	0	0
Simoga	0830	571	1007·3	944·4	..	24·3	21·9	20·7	24·4	81	..	5·2	..	5·0	0	0	29	0	0	0	0	6	14	8	1	1	0
	1730	"	1004·8	942·3	..	26·2	22·3	20·5	24·1	71	..	5·1	..	6·4	0	0	30	0	0	0	0	4	15	11	0	0	0
Balehonnur	0830	..	..	..	..	20·5	1 ·7	19·2	22·2	93	+1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hessan	0830	960	1489·4	903·8	..	21·5	19·9	19·0	22·0	86	+4	7·1	+0·9	14·9	0	2	28	0	0	0	0	0	5	25	0	0	0
	1730	"	1476·0	902·2	..	23·1	20·2	18·7	21·6	76	..	6·8	..	16·1	0	2	28	0	0	0	0	0	6	24	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest Standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind km. per hour speed	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)—*Contd.*																											
Mysore	0830	767	1008·2	924·3	+0·6	23·1	20·5	19·2	22·2	79	+1	4·9	−1·3	6·6	0	1	24	0	0	0	0	3	11	11	0	5	0
	1730	"	1005·5	922·5	..	26·0	21·1	18·5	21·3	64	..	5·6	..	11·0	0	2	26	0	0	0	0	0	13	15	0	2	0
Bangalore (Central Observatory)	0230	921	1470·9	906·1	..	20·9	19·3	18·5	21·3	86	..	(e) 5·0	..	15·9	0	4	26	0	0	0	0	0	6	23	1	0	0
	0830	"	1487·1	907·6	+0·5	22·1	19·9	18·6	21·7	82	+2	6·4	+0·1	16·7	0	8	22	0	0	0	0	0	8	22	0	0	0
	1130	"	1492·0	907·4	..	26·0	20·8	18·1	20·8	62	..	6.4	..	20·3	0	16	14	0	0	0	0	0	4	22	4	0	0
	1730	"	1470·8	905·1	..	26·5	20·9	17·8	20·4	61	..	7·0	−1·3	18·3	0	11	19	0	0	0	0	0	4	21	5	0	0
Bangalore (Aerodrome)*	0530	897	1468·9	908·6	..	20·4	19·5	19·0	22·0	92	..	5·7	..	19·4	0	9	21	0	0	0	0	0	12	18	0	0	0
	0830	"	1485 8	910·0	..	22·5	20·2	19·0	20·0	81	..	6·0	..	22·0	0	22	8	0	0	0	0	0	7	23	0	0	0
	1130	"	1491.0	909·7	..	26·4	21·1	18·3	21·0	63	..	5·9	..	25·8	0	28	2	0	0	0	0	0	3	27	0	0	0
	1730	"	1469·3	907·4	..	26·6	21·2	18·4	21·1	63	..	6·9	..	20·2	0	16	14	0	1	0	0	0	8	20	1	0	0
	2330	"	1483·0	909·8	..	22·3	20·1	18.9	21·8	81	..	5·1	..	20·0	0	22	8	0	0	0	0	0	5	25	0	0	0
Kerala																											
Kozhikode	0530	5	1008·2	1007·6	..	24·5	23·8	23·5	28·9	94	..	7·2	..	8·9	0	1	27	1	6	16	0	0	0	2	3	2	0
	0830	"	1009·7	1009·1	+0·8	25·7	24·5	24·0	29·8	90	+1	6·9	+0·1	5·3	0	2	27	1	7	13	2	1	2	2	1	1	0
	1130	"	1009 7	1009·1	..	28·1	25·7	24·7	31·1	82	..	6.8	..	7·5	0	0	29	1	3	1	0	2	7	9	6	1	0
	1730	"	1007.7	1007·1	..	27·8	25·3	24·3	30·4	81	..	7·2	..	9·3	0	0	29	2	3	1	1	0	2	9	11	1	0
	2330	"	1009·5	1008·9	..	25·5	24·5	24·0	29·8	92	..	6·3	..	6·4	0	1	22	2	9	7	0	0	0	3	2	7	0
Palghat	0830	97	1009 3	998·3	..	25 6	24·2	23·5	28·9	88	..	6·2	..	9·9	0	0	30	0	0	0	0	0	4	24	2	0	0
	1730	"	1006·6	996·0	..	27·0	24·4	23·2	28·4	81	..	7·0	..	13·5	0	1	29	0	0	0	0	0	10	17	3	0	0
Fort Cochin	0830	3	1009·9	1009·6	+0·1	26·8	25·3	24·6	30·9	88	+2	7·3	+0·9	3·8	0	0	22	1	6	8	3	0	2	2	0	8	0
	1730	"	1007·6	1007·3	..	27·5	25·3	24·4	30·5	84	..	7·5	..	6·4	0	0	26	1	2	0	0	1	3	8	11	4	0
Cochin (Naval Air Station)	0230	3	1008·7	1008·4	..	25·3	24·4	24·0	29.8	93	..	6·6	..	6·4	0	1	27	2	0	13	3	0	1	5	4	2	0
	0530	"	1003·6	1008·3	..	25·0	24·2	23·9	29·7	94	..	7·2	..	5·1	0	1	26	1	1	11	6	2	2	3	1	3	0
	0830	"	1010·0	1009·7	..	26·2	24·7	24·0	29·8	88	..	6·8	..	5·3	0	0	25	0	2	8	7	1	1	6	0	5	0
	1130	"	1010·1	1009·8	..	28·1	25·5	24·4	30·5	81	..	6·8	..	8·6	0	2	26	3	0	3	1	4	5	8	4	2	0
	1730	"	1007·9	1007·6	..	27·6	25·4	24·4	30·5	83	..	7·3	..	10·7	0	2	28	4	1	3	0	0	5	9	8	0	0
	2330	"	1010·0	1009·7	..	25·7	24·8	24·3	30·4	92	..	6·0	..	5·4	0	1	27	3	3	10	0	3	1	4	4	2	0
Alleppey	0830	4	1009·5	1009·1	..	26·5	25·4	24·9	31·5	91	..	6·8	..	6·6	0	2	27	3	4	5	2	0	1	6	8	1	0
	1730	"	1007·2	1006·8	..	28·3	26·0	25·0	31·7	82	..	6·6	..	14·6	0	9	21	1	0	0	0	0	1	4	24	0	0
Punalur	0830	34	1005·6	1005·8	..	25·2	24·4	24·0	29·8	93	..	6·5	..	0·5	0	0	3	1	0	0	0	0	0	0	2	27	0
	1730	"	1007·3	1003·5	..	28·8	25·0	23·3	28·6	74	..	6·3	..	5·4	0	0	28	5	1	0	0	1	3	5	13	2	0
Trivandrum	0230	64	1008 5	1001·2	..	24·5	24·0	23·7	29·3	95	..	4·9	..	5·9	0	0	25	10	1	0	0	0	0	0	14	5	0
	0530	"	1003·6	1001·3	..	24·3	23·8	23·5	28·9	95	..	6·4	..	6·1	0	0	26	8	1	0	1	0	0	0	16	4	0
	0830	"	1009·9	1002·6	+0·4	25·9	24·5	23 9	29·7	89	+3	6·0	−0·6	6·6	0	0	30	7	0	0	1	0	0	1	21	0	0
	1130	"	1009·5	1002·3	..	28·5	25·1	23·7	29·3	76	..	6·9	..	16·0	0	7	23	3	0	0	0	0	1	5	21	0	0
	1730	"	1007·6	1000·4	..	27·6	24·8	23·5	29·0	79	..	6·3	..	12·6	0	1	29	4	0	0	0	0	0	5	21	0	0
	2330	"	1010·0	1002·7	..	25·0	24·3	24·0	29·8	94	..	5·0	..	6·4	0	0	27	7	1	0	0	0	0	1	18	3	0
Trivandrum (Aerodrome)	0830	8	1009·8	1008·9	..	26·9	25·0	24·2	30·2	86	..	6·2	..	7·3	0	0	30	11	0	0	0	0	0	0	18	0	1
Arabian Sea Islands																											
Minicoy*	0530	2																									
	0830	"																									
	1130	"																									
	1730	"																									
	2330	"																									
Amini Devi*	0830	4																									
Hill Stations excluding Kashmir																											
Walong (R)	0830																										
(R)	1730																										
Kohima	0830	1406	1489·3	858·4	..	22·0	19·7	18·7	21·4	83	..	3·9	..	..	0	0	30	8	2	4	3	0	1	5	6	0	1
	1730	"	1456·3	855·1	..	21·2	20·0	19·1	22·6	89	..	3·5	..	..	0	0	30	0	7	3	5	0	1	4	10	0	0
Aijal	0830	..	..	..	..	21·6	20·1	20·3	24·5	92	..	6·1	..	3 8	0	0	30	0	2	10	5	5	2	5	1	0	0
	1730	..	..	..	..	23·2	21·7	21·4	24·7	90	..	6·2	..	3·5	0	0	30	2	0	3	1	3	3	13	0	0	0
Shillong	0830	1500	1454·6	845·7	+0·8	21·2	18·3	17·6	19·2	80	+2	7·7	+1·1	1·0	0	0	5	0	0	0	0	1	2	1	1	25	0
	1730	"	1424·8	842·9	..	21·3	19·8	18·5	21·8	82	..	7·0	..	0·9	0	0	6	0	0	0	0	1	4	1	0	24	0
Cherrapunji †	0830	1313	1456·3	863·7	+0·1	19 9	18·9	18·4	21·0	93	+5	1·1	−6·1	3·9	0	0	17	1	5	3	2	2	4	0	0	0	0
	1730	"	1426·3	861·3	..	20·9	19·8	19·2	22·6	91	..	2·6	..	4·1	0	0	17	1	2	2	1	2	8	1	0	0	0
Darjiling (Raj Bhavan)	0830	2128	1474·2	788·3	+3·2	17·4	16·4	15·8	18·0	91	+3	6·5	−0·4	1·4	0	0	10	2	1	0	0	1	5	1	0	20	0
	1730	"	1450·4	786·1	..	17·9	17·0	16·5	18·8	92	..	3·7	..	2·2	0	0	13	0	0	0	0	1	6	4	2	17	0

†Observations for 17 days. (R) Register not received. *Data given as addenda in December, 1960 Issue. (e) Mean of 26 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—*Contd.*																											
Kalimpong	0830	1209	1454·0	874·5	+1·2	22·1	20·9	20·4	24·1	90	+2	4·5	−1·7	4·5	0	0	24	2	1	2	4	1	0	0	14	6	0
	1730	,,	1451·5	874·2	..	22·5	21·0	20·4	23·9	87	..	4·3	..	6·4	0	2	27	0	0	0	27	1	0	0	1	1	0
Mukteswar (Kumaon)	0830	2311	3114·1	769·8	+0·7	18·3	13·9	10·4	13.0	65	−3	2.8	−1·3	9·8	0	2	25	0	2	2	0	0	4	12	7	3	0
	1730	,,	3103·4	767·9	..	22·0	16·0	11·8	13·0	58	..	3·1	..	18·4	0	16	14	0	2	2	0	0	4	12	10	0	0
Nainital	0830	1953	1433·0	801·0	..	21·2	16·3	12·9	15·0	64	..	3·3	..	7·9	0	1	25	1	0	11	6	0	0	4	4	4	0
	173	,,	1407·1	799·2	..	23·0	17·8	14·7	16·6	62	..	3·1	..	8·9	0	0	29	13	2	5	3	1	1	3	1	1	0
Joshimath	0830	..	..	..	..	20·4	15·1	11 3	14·0	58	..	2·7	..	4·4	0	0	30	5	5	10	2	1	2	2	3	0	0
	1730	..	..	..	..	24·1	16·1	10·7	12·8	46	..	5·6	..	4·2	0	0	30	2	5	9	1	2	4	6	0	0	1
Badrinath	0830	..	..	..	..	13·1	9·5	6·8	9·9	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpal	0830	..	..	..	..	2·6	1·6	0·4	6·3	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooree	0830	2042	1430·2	792.5	−0·9	20·7	15·9	12·6	14·9	64	−4	2.4	−1.6	1·7	0	0	16	3	0	0	4	5	2	0	2	14	0
	1730	,,	1407·5	791.1	..	23·0	16·9	12·7	15·0	57	..	3·7	..	3·3	0	0	28	2	1	0	3	12	9	0	1	2	0
Simla	0830	2202	1434·8	778·8	+0·6	21·8	13·7	7·3	10·4	44	−11	2·3	−1.2	3·0	0	0	30	7	3	1	3	2	3	2	9	0	0
	1730	,,	1419.6	777 9	..	23·2	15·3	9·4	12·7	46	..	3·2	..	3·0	0	0	30	2	0	2	5	6	7	3	5	0	0
Dalhousie	0830	1959	1383·8	795·5	..	22·7	15 4	8·7	11·2	43	..	0·8	..	0	0	0	0	0	0	0	0	0	0	0	30	0	0
	1730	,,	1363·5	795·9	..	26·2	16·7	10·0	12·3	39	..	0	..	0	0	0	0	0	0	0	0	0	0	0	30	0	0
Dharamshala	0830	..	..	..	..	28·6	18.4	11·1	13·2	39	..	2·0	..	2·8	0	0	28	1	17	7	1	1	1	0	0	2	0
	1730	..	..	..	..	31·1	19·5	11·6	13·6	35	..	3·2	..	3·1	0	0	30	1	0	2	0	2	23	2	0	0	0
Abu	0830	1195	1430.7	875.5	+0·5	22·7	19·5	17·5	20·0	75	+4	3.4	−1·1	4.3	0	0	19	1	0	0	0	2	9	7	0	11	0
	1730	,,	1441·0	873.9	..	28·1	22·2	19·0	22·0	58	..	3·8	..	4.0	0	0	21	0	1	1	2	2	10	4	1	9	0
Pachmarhi	0830	1075	1456·3	888·0	+0·5	25·5	21.4	18·6	22·5	69	+1	4·6	−0.3	6·5	0	0	29	3	0	0	0	1	0	14	11	1	0
	1730	,,	1433·0	884·8	..	30·1	22·3	18·0	21·2	53	..	5·9	..	4·1	0	0	28	0	1	0	1	2	1	13	10	2	0
Mahabaleshwar	0830	1382	1476.8	859·7	+0.2	18·5	18·4	18·3	21·0	98	+4	7·2	+0.1	9·8	0	0	30	0	0	0	0	0	12	14	4	0	0
	1730	,,	1475·5	857·7	..	19·0	18 8	18·7	21·6	98	..	7·9	..	9.2	0	0	30	0	0	0	0	1	13	9	7	0	0
Mercara	0830	1152	1492.5	884.4	+1·1	19·2	18·6	18·4	21·1	95	+2	5·7	−1·3	7·5	0	0	30	0	1	2	0	0	1	13	13	0	0
	1730	,,	1477.1	882·9	..	19·8	19·0	18·8	21·7	93	..	6·8	..	6·4	0	0	30	0	1	2	0	0	0	14	13	0	0
Kodaikanal	0830	2343	3141·1	770·1	+1·0	15·1	12·6	10·7	12·9	76	+4	5·0	−0·2	14·1	0	7	16	4	0	0	0	0	1	4	14	7	0
	1130	,,	3150.0	770·3	..	17·6	14·5	12·4	14·4	72	..	5·7	..	14.7	0	8	20	9	0	1	1	1	0	1	15	2	0
	1730	..	3126·0	768·7	..	15·0	13·5	12·4	14·4	85	..	6·1	..	14·8	0	8	18	7	0	0	0	1	0	2	16	4	0
Dotacamund	0830	2249	1491·1	778·6	+1·0	13·9	12·4	11·6	13·7	84	+1	5·2	−1.0	5 9	0	0	19	0	0	0	0	0	8	10	1	11	0
	1730	,,	1475.4	777·0		15·1	13.1	11·9	13·9	81	..	6·5	..	4.8	0	0	15	0	0	0	0	0	7	8	0	15	0
Coonoor	0830	1747	1489·3	825.5	..	19.6	16·1	13·9	15.9	70	+6	4.8	−0.9	8.3	0	2	28	2	1	0	5	3	11	3	5	0	0
Nepal																											
Katmandu	0830	1324	1444·3	861·3	..	23·2	20·2	18·7	21·4	76	..	4·6	..	0·1	0	0	1	1	0	0	0	0	0	0	0	29	0
	1130	,,	1439·2	861·3	..	26·1	21·1	18·5	21·4	65	..	5·2	..	0·8	0	0	8	3	1	0	0	0	1	1	2	22	0
	1730	,,	1417.1	859.2	..	25·6	21·7	19·6	23·2	70	..	5·6	..	2·0	0	0	10	3	1	1	0	0	0	0	5	20	0
Sikkim																											
Lachen	0830	..	..	..	..	14·9	13·3	12·2	14·4	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet																											
Yatung (Chumbi) (R)	0830																										
Ceylon																											
Colombo	0830	7	1010·2	1009·4	+0·5	27·5	24·8	23·4	28·8	79	−5	6·7	+0·3	9·7	0	0	28	0	0	0	1	1	12	14	0	2	0
	1730	,,	1007·9	1007·1	..	27·7	24·6	23·0	28·1	76	..	6·6	..	11·2	0	0	30	0	0	0	1	2	19	6	2	0	0
Trincomalee	0830	3	1007·4	1007·0	+0·6	28·7	24·4	22·2	26·7	68	−9	6·0	+1.8	21·1	0	19	11	0	0	0	1	2	25	2	0	0	0
	1730	,,	1005·0	1004·6	..	31·7	24·8	21·4	25·5	54	..	6·8	..	19·1	0	12	18	0	0	0	0	4	26	0	0	0	0
Batticola	0830	3	1007·9	1007·6	..	29·0	24·6	22·4	27·1	68	..	5·8	..	8·8	0	0	26	0	1	1	6	3	5	7	3	4	0
	1730	,,	1005·5	1005.2	..	30·7	25·6	23·4	28·8	67	..	6·2	..	13·5	0	1	26	0	4	10	4	0	1	5	3	3	0
Hambantota	0830	15	1009·1	1007·3	+0.6	27·9	25·0	23·5	28·9	78	−8	5·2	+0·9	24·1	0	22	8	0	0	0	0	0	19	11	0	0	0
	1730	,,	1006·7	1004·9	..	28·4	24·6	22·3	27·9	73	..	6·0	..	30·8	0	28	2	0	0	0	0	0	19	11	0	0	0
Mannar	0830	4	1008·0	1007·6	..	28·7	26·4	25·5	32·6	83	..	5·9	..	14·2	0	2	28	0	0	0	0	8	22	0	0	0	0
	1730	,,	1005·5	1005·2	..	28·7	26·6	25·6	32·8	83	..	6·5	..	(b) 15 8	0	4	25	0	0	0	0	7	22	0	0	0	0
Hydrometeorological Observatories Damodar Catchment																											
Bokaro	0830	242	999·1	972·6	..	31·5	26·4	24·2	30·3	67	..	..	..	3·0	0	0	30	1	1	11	5	0	6	6	0	0	0
	1730	,,	995·2	969·5		33·3	24·6	20·7	24·7	49	..	..	..	4·0	0	0	21	3	2	7	3	0	2	1	3	9	0
Hazaribagh	0830	615	998·8	932·7		29·8	23·5	20·4	24·0	61	..	4·6	..	7·9	0	1	26	2	0	7	3	3	1	9	2	3	0
	1730	,,	994·9	929·7	..	32·1	24·0	20·0	24·6	53	..	5·3	.	9·4	0	0	27	4	0	12	4	1	2	1	3	3	0

(b) Mean of 29 days.

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed per hour km.	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories Damodar Catchment																											
Tilaiya	0830	..	..	..	..	31·2	24·3	20·7	24·5	58	..	8·0	..	13·1	0	3	27	1	0	11	5	1	10	5	6	0	1
	1730	..	..	..	..	34·6	24·2	17·7	21·7	43	..	8·0	..	12·4	0	2	27	1	2	12	4	1	2	4	3	1	0
Ramgarh	0830	..	..	..	..	32·7	26·7	23·6	30·0	62	..	4·3	..	3·5	0	0	29	2	3	18	0	0	2	2	2	1	0
	1730	..	..	..	..	34·0	26·4	22·5	28·3	57	..	4·9	..	3·1	0	0	22	1	3	14	0	0	1	0	3	3	0
Panchet Hills	0830	..	..	..	..	31·6	26·7	24·6	30·9	67	..	7·1	..	8·5	0	1	29	0	4	16	0	1	8	0	1	0	0
	1730	..	..	..	..	32·7	26·5	23·6	30·0	61	..	7·4	..	9·3	0	1	28	3	4	18	2	1	0	1	0	1	0
Durgapur	0830	..	..	..	..	30·3	27·3	26·1	33·7	79	..	..	..	..	0	0	30	1	0	3	7	19	0	0	0	0	0
	1730	..	..	..	..	32·3	27·7	25·7	32·9	67	..	..	..	..	0	2	28	2	0	5	7	15	0	0	1	0	0
Maithon*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Konar	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	..	..	..	..	..	..	..	..	..	..	2·6	..	..	0	5	24	0	2	11	6	2	3	2	3	1	0
	1730	..	..	..	..	..	..	..	..	..	..	2·8	..	..	0	5	23	1	3	11	5	0	0	3	5	2	0
Mahanadi Catchment																											
Hirakud	0830	159	1000·3	982·8	..	31·1	25·3	22·6	27·4	62	..	4·5	..	7·1	0	0	28	0	0	3	3	0	19	1	2	2	0
	1730	..	995·8	978·6	..	35·1	25·9	21·1	25·9	50	..	4·9	..	7·2	0	0	27	0	2	3	0	3	15	1	3	3	0
Khijrawan	0830	..		..	..	28·2	24·4	22·7	26·1	73	..	4·9	..	8·9	0	0	29	1	1	1	1	0	17	7	0	1	1
	1730	..	..	..	..	31·8	25·5	22·6	28·0	63	..	(b) 5·0	..	(b) 9·9	0	2	27	0	2	2	1	2	18	3	0	0	1
Sonepur	0830	..	..	..	..	31·5	25·7	23·2	28·2	63	..	..	..	10·3	0	1	28	0	1	1	3	1	7	15	1	1	0
Ginabahar	0830	..	..	..	..	29·9	23·8	20·3	24·5	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhimkund	0830	..	..	..	..	29·4	25·1	23·1	28·4	69	..	5.8	..	1·1	0	0	8	1	1	0	0	2	3	0	1	22	0
	1730	..	..	..	..	29·9	22·4	18·4	21·1	66	..	6·5	..	2·0	0	0	17	0	0	1	6	5	5	0	0	13	0
Narbada Catchment																											
Punasa	0830	..	..		..	29·3	24·6	22·3	27·1	62	..	..	..	14·5	0	4	26	0	1	0	0	1	11	16	1	0	0
	1730	..	..		..	35·0	25·4	21·1	24·6	48	..	..	..	12·8	0	3	27	1	0	0	0	4	10	7	8	0	0
Bagra Tawa	0830	..	..	..	..	30·7	24·1	20·8	24·8	58	..	3·4	..	11·6	0	0	30	0	2	0	0	0	17	10	1	0	0
	1730	..	..	..	..	35·1	24·7	19·1	22·6	44	..	4·5	..	9·3	0	0	29	1	3	1	0	1	19	3	1	1	0
Thikri	0830	..	..	..	..	28·7	25·1	23·6	28·7	78	..	5·9	..	..	..	..		..	..	..	..		..	..	..	..	..
Sabarmat Catchment																											
Jhadol	0830	..	..	..	..	27·1	25·6	25·0	31·7	89		..	..	..	..	..		..	..	..	..	..	..	..	..	..	..
Dharoi	0830	..	..		..	29·4	26·2	24·8	31·3	77		..	..	..	..	..		..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	34·9	26·3	22·3	26.9	51	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukh m	0830	..	..	..	..	21·5	15·5	11·9	13·7	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·0	16·7	12·2	14·3	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830		..	..	..	27·8	20·3	15·8	18·4	50	..	2·2	..	1·6	0	0	13	6	3	0	1	1	0	1	1	17	0
	1130	..	..		..	34·2	21·8	14·5	17·0	33	..	2·3	..	3·4	0	0	22	2	2	6	4	3	2	1	2	6	0
	1730		..		..	35.9	22·1	13·6	16·3	29		3·8	..	7·7	0	1	26	3	2	3	4	2	5	7	1	3	0
Gandak Catchment																											
Gorkha*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	25·2	22·1	20·7	24·4	77	..	4·8	..	2·6	0	0	23	1	0	1	7	6	4	0	4	7	0
	1130	..	..	..	..	27·7	23·2	21·2	25·2	69	..	4·5	..	4·6	0	0	25	0	0	3	12	9	1	0	0	5	0
	1730		..	..	..	26.7	23·2	21·6	25·8	74	..	6·1	..	4·0	0	0	26	3	3	0	12	4	1	0	3	4	0
Nawakot	0830	..	..	..	..	25·0	22·6	21·3	25·7	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	27·7	23.1	21·1	24·9	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom	0830	..		..	..	18·3	14·3	12·0	14·1	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·6	14·3	12·3	14·4	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830		..		..	24·7	22·2	21·2	24·9	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730		..		..	27·0	23·3	21·9	26·0	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..		..	..	21·4	17·7	15·7	17·9	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..		..	23·3	18·5	15·9	18·2	63		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																											
Dailekh*	0830	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..		..	..	..	..	..			..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(b) Mean of 29 days.

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Gogra Catchment																											
Dandeldhura	0830	..	..	..	..	21·4	16·9	14·1	16.3	67	..	3·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·9	17·7	14·7	16·9	73	..	4·0	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..
Munsyari	0830	..	..	..	..	18·8	15·7	13·8	15.9	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·6	16·0	14·1	15·9	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	29·6	25·3	23.3	28·9	69	..																
Begmati Catchment	1730	..	..	..	..	32·3	26 5	24·0	29·8	61	..																
Katmandu*	0830	1324																									
	1130	,,																									
Kosi Catchment	1730	,,																									
Chautara	0830	..	..	..	..	21·6	19·9	19·4	22.2	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·3	20·6	19·1	21·9	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	18·9	17·3	16·8	18·8	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·4	17·7	17·1	19·3	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga	0830	..	..	..	..	20·1	18·9	18·2	20·9	89	..	6·2	..	1.3	0	0	8	0	0	1	3	1	1	2	0	22	0
	1130	..	..	..	..	22·5	20·0	18·8	21·7	80	..	5·7	..	2·7	0	0	14	0	0	0	1	0	3	7	3	16	0
	1730	..	..	..	..	20·5	19·1	18·5	21·3	88	..	6·5	..	5·5	0	0	19	0	0	0	0	0	5	11	3	11	0
Barahkshetra	0830	146	1001·6	985·5	..	27·7	25·5	24·5	36·8	83	..	6·0	..	5·4	0	0	25	0	0	1	0	0	8	9	7	5	0
	1130	,,	1000·9	984·8	..	30·0	26·3	24·6	31·3	73	..	6·3	..	8·6	0	0	28	0	0	2	0	0	13	10	3	2	0
	1730	,,	998.3	982 1	..	29·3	26·5	25·2	32·4	79	..	6·4	..	5·3	0	0	25	0	3	1	0	1	10	8	2	5	0
Angbung	0830	..	..	..	..	22·7	21·3	20.6	24·3	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·3	21·5	19·6	22·8	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	20·3	18·8	18·2	20.9	87	..	6·2	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	22·8	19·9	18·6	21·4	77	..	5·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·7	19·1	17·9	20·5	79	..	6·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	20·7	19 1	18·2	20.9	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·1	20·3	18·9	21·8	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallaagchung Gola	0830	..	..	..	..	13 5	11·5	10·1	12·5	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·5	11·5	10.9	13·0	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Phojpur	0830	..	..	..	..	21.1	19·6	18.9	21·9	87	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·5	19·7	19·4	22·4	93	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..
Chainpur	0830	..	..	..	..	23·4	21·6	20·7	24.5	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·2	21·9	20·8	24·7	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Tista Catchment																											
Gangtok	0830	1812	1149·2	815·2	..	18·4	17·8	17·4	20·1	94	..	7·1	..	1·0	0	0	8	4	1	0	1	1	0	0	1	22	0
	1130	,,	1441·4	814·7	..	20·5	19·0	18·4	21·0	88	..	6·5	..	1·4	0	0	13	0	3	0	1	4	4	0	1	17	0
	1730	,,	1426·8	812·9	..	19·4	18·5	18·0	20·7	92	..	7·5	..	1·2	0	0	6	0	0	0	0	5	0	0	0	24	1
Geyzing	0830	..	..	..	..	20 9	19·9	19·5	22 7	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
	1730	..	..	..	..	21·2	19·7	19·0	22·0	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	.

*Data included under "Nepal".

MONTHLY MEANS OF UPPER WINDS

June 1960 (Jyaistha 11—Asadha 9, 1882 Saka)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 42 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons and the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second* irrespective of direction;

v—represents the resultant mean velocity in metres per second*;

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km.a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a.m.s.l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

*Values obtained by converting the original data in knots.

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PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

No.	Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flights (IST)			
1.	Agartala	23°53′	91°15′	17	28th Nov. 1951	0530	1130	1730	2330
2.	Ahmedabad	23°04′	72°38′	61	19th May 1928	0530	1730	2330	
3.	Amausi	26°45′	80°53′	133	20th Nov. 1950	0530	1730	2330	
4.	Ambala	30°23′	76°46′	279	1st Apr. 1941	0530	1730	2330	
5.	Anantapur	14°41′	77°37′	365	12th Feb. 1946	0530	1730	2330	
6.	Asansol	23°41′	86°59′	135	29th May 1942	0530	1130	1730	2330
7.	Baghdogra	26°38′	88°19′	140	7th June 1953	0530	1130	1730	2330
8.	Bairagarh	23°17′	77°21′	532	26th Feb. 1943	0530	1730	2330	
9.	Bajpe	12°55′	74°53′	104	25th May 1959	0530	1730	2330	
10.	Bamrauli	25°27′	81°44	103	28th Feb. 1930	0530*	1130	1730	2330*
11.	Bangalore	12°58′	77°35′	936	19th May 1915	0530	1730	2330	
12.	Bareilly	28°22′	79°24′	181	12th Jan. 1943	0530	1730		
13.	Begumpet	17°27′	78°28′	543	1st Sep. 1929	0530	1730	2330	
14.	Bhagalpur	25°14′	86°57′	61	19th May 1950	0530	1130	1730	
15.	Bhubaneshwar	20°15′	85°50′	54	5th Dec. 1942	0530	1130	1730	2330
16.	Bhuj	23°15′	69°48′	90	14th Sep. 1937	0530	1730	2330	
17.	Bikaner	28°00′	73°18′	229	18th Oct. 1946	0530	1730	2330	
18.	Chikalthana	19°51′	75°24′	583	7th Oct. 1951	0530	1730	2330	
19.	Cochin†	09°56′	76°14′	13	16th Mar. 1942	0530	1730	2330	
20.	Darjeeling	27°03′	88°16′	2115	21st May 1956	0530	1730		
21.	Dehra Dun	30°19′	78°03′	692	1st Oct. 1958	0530	1730		
22.	Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
23.	Gadag	15°25′	75°38′	650	3rd May 1943	0530	1730	2330	
24.	Gannavaram	16°32′	80°48′	32	8th Apr. 1942	0530	1730	2330	
25.	Gauhati	26°05′	91°43′	55	12th Mar. 1955	0530*	1130	1730*	2330
26.	Gaya	24°45′	84°57′	119	19th Mar. 1937	0530	1130	1730	2330
27.	Gopalpur	19°16′	84°53′	24	15th Feb. 1946	0530	1730	2330	
28.	Gorakhpur	26°45′	83°22	83	5th Jan. 1943	0530	1730		
29.	Gwalior	26°14	78°15′	208	7th May 1938	0530	1730	2330	
30.	Imphal	24°51′	93°58′	805	8th Mar. 1952	0530	1130	1730	2330
31.	Jabalpur	23°10′	79°57′	402	30th July 1928	0530	1730	2330	
32.	Jagdalpur	19°05′	82°02′	562	25th Mar. 1948	0530	1730	2330	
33.	Jaipur	26°49′	75°48′	403	6th June 1953	0530	1730	2330	
34.	Jamshedpur	22°49′	86°11′	144	23rd July 1942	0530	1130	1730	
35.	Jharsuguda	21°55′	84°05′	240	1st May 1944	0530	1730	2330	
36.	Jodhpur	26°18′	73°01′	229	15th Oct. 1934	0530*	1130	1730*	2330
37.	Madras	13°00′	80°11′	29	8th Apr. 1926	0530*	1130	1730*	2330
38.	Minicoy	08°18′	73°00′	15	14th Apr. 1941	0530	1730	2330	
39.	Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1130	1730	2330
40.	Nagpur	21°06′	79°03′	316	23rd Apr. 1943	0530*	1130	1730*	2330
41.	Nanpara	27°50′	81°30′	142	23rd Apr. 1957	0530	1730		
42.	New Delhi	28°35′	77°12′	227	20th Oct. 1936	0530*	1130	1730*	2330
43.	Poona	18°32′	73°51′	593	5th Jan. 1925	0530	1730	2330	
44.	Port Blair	11°40′	92°43′	93	29th Oct. 1945	0530*	1130	1730*	2330
45.	Raipur	21°14′	81°39′	308	15th July 1944	0530	1730	2330	
46.	Raxaul	26°59′	84°51′	83	28th Oct. 1957	0530	1130	1730	
47.	Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
48.	Tezpur	26°37′	92°47′	79	12th Aug. 1932	0530	1130	1730	2330
49.	Tiruchirapalli	10°46′	78°43′	96	22nd June 1936	0530	1730	2330	
50.	Trivandrum	08°29′	76°57′	73	8th Dec. 1928	0530*	1130	1730*	2330
51.	Udaipur	24°35′	73°42′	587	24th June 1947	0530	1730	2330	
52.	Vengurla	15°52′	73°38′	8	22nd Nov. 1941	0530	1730	2330	
53.	Veraval	20°54′	70°22′	17	13th Oct. 1941	0530*	1130	1730*	2330
54.	Visakhapatnam	17°43′	83°14′	10	24th Sep. 1928	0530	1730	2330	

*Radiowind ascents.
†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

June 1960 (Jyaistha 11—Asadha 9, 1882 Saka)

Station	AGARTALA																AHMEDABAD							
Time in I. S. T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·5	1·9	131	15	3·0	1·8	150	30	2·7	2·1	181	30	2·4	2·2	159	30	2·3	1·8	244	30	4·0	3·2	218
0·15 a. g.	24	6·4	5·3	145	11	5·0	3·7	158	27	6·0	4·9	180	28	6·6	6·4	169	30	4·9	4·1	244	29	4·8	4·0	215
0·3 a. m. s. l.	24	7·6	6·7	169	11	5·3	4·0	171	27	6·4	5·5	176	28	7·9	7·6	180	30	6·2	5·3	249	29	5·3	4·4	216
0·6 ,,	23	8·4	7·5	179	11	6·5	5·5	183	27	7·4	6·7	180	26	9·3	9·0	185	28	7·8	7·0	260	29	5·0	4·4	225
0·9 ,,	21	7·3	6·5	180	10	6·8	5·8	186	26	6·7	6·2	178	22	8·0	7·6	184	25	7·4	6·4	264	28	4·7	4·2	225
1·5 ,,	21	6·5	5·0	187	6	5·7	3·0	191	24	6·7	5·6	180	20	6·0	5·6	182	22	4·3	2·9	245	26	4·5	3·2	240
2·1 ,,	19	6·2	3·6	194	4	6·5	3·4	093	21	6·3	3·6	185	19	5·5	4·4	197	21	4·8	2·3	175	23	5·0	2·5	246
3·0 ,,	14	6·4	3·1	206	2	6·9	2·6	318	18	7·1	2·1	233	17	5·9	2·8	232	14	4·3	1·6	140	18	5·1	0·7	100
3·6 ,,	10	6·4	4·0	182					16	7·7	2·4	233	10	6·0	3·1	274					16	5·7	2·1	075
4·5 ,,	8	5·5	2·8	163					15	7·1	2·1	308	4	2·6	1·4	256					13	6·3	3·3	061
5·4 ,,	6	6·1	3·3	159					13	5·9	2·0	242	3	5·1	3·2	272					11	7·4	4·4	047
6·0 ,,	5	5·8	5·1	192					12	5·9	1·4	215	2	4·6	4·1	214					10	7·8	5·6	060
7·2 ,,	3	6·0	5·6	168					7	5·1	2·6	174	1	2·6	2·6	175					7	8·3	0·6	352
9·0 ,,	1	13·9	13·9	105					4	5·3	2·7	118									1	8·7	8·7	020

Station	AHMEDABAD				AMAUSI												AMBALA							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·2	3·0	208	30	2·3	0·5	134	30	4·4	1·6	304	30	3·5	0·9	125	30	2·9	0·9	108	30	3·3	1·8	273
0·15 a. g.	28	7·5	6·6	208	30	6·6	2·0	116	30	5·5	2·2	337	30	8·2	1·4	159	29	8·2	2·4	106	30	6·8	4·3	288
0·3 a. m. s. l.	28	8·5	7·7	210	30	6·9	1·2	149	30	5·7	2·0	340	30	8·5	2·1	141	29	4·1	1·4	107	30	4·2	2·6	287
0·6 ,,	28	9·7	8·4	224	30	8·2	4·2	243	29	6·1	2·1	341	30	7·8	1·7	170	29	8·4	1·0	075	30	7·6	4·7	289
0·9 ,,	26	8·4	7·4	240	29	7·8	5·0	283	29	5·8	2·5	327	29	6·6	1·4	197	29	7·9	1·3	314	30	7·3	4·9	291
1·5 ,,	24	4·8	3·3	250	29	7·3	5·4	304	27	5·8	2·9	313	29	6·2	2·6	283	28	7·7	5·2	296	27	6·2	4·2	297
2·1 ,,	23	3·8	0·6	294	26	7·2	6·2	314	26	6·7	1·9	304	24	6·6	3·1	303	27	7·8	6·5	308	24	7·4	6·1	305
3·0 ,,	14	5·2	2·6	115	17	6·2	4·2	334	19	8·1	6·6	308	13	6·1	1·6	329	21	7·1	6·0	313	18	8·1	6·7	313
3·6 ,,	1	7·7	7·7	050	14	6·2	3·0	340	17	9·3	7·5	311	10	3·8	1·9	349	18	7·9	5·9	308	15	7·6	6·0	313
4·5 ,,					10	4·0	0·9	010	15	7·4	4.9	325	3	4·3	3·9	321	9	6·1	4·4	298	12	8·0	6·8	301
5·4 ,,					6	5·1	2·4	217	10	8·0	5·8	311	2	6·4	1·7	299	8	8·7	6·8	292	6	7·6	6·4	291
6·0 ,,					3	4·0	1·9	134	7	6·0	3·5	308	2	6·4	6·4	318	7	7·2	5·3	276	5	8·4	7·1	281
7·2 ,,					1	7·7	7·7	025									4	9·8	7·0	264	1	6·7	6·7	30
9·0 ,,					1	9·8	9·8	040									3	19·7	18·6	246				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. abvoe mean sea level

June 1960 (Jyaistha 11—Asadha 9, 1882 Saka)

Station	AMBALA				ANANTAPUR												ASANSOL							
Time in I. S. T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·4	0·5	306	30	5·0	4·9	265	30	6·8	6·6	270	30	7·3	7·2	267	30	1·9	1·2	143	15	1·8	0·9	135
0·15 a. g.	30	7·9	2·3	307	29	8·1	8·0	260	29	9·5	9·4	265	28	10·6	10·6	260	29	5·2	2·8	153	15	3·5	1·4	135
0·3 a. s. l.	30	3·9	0·8	296													29	5·4	3·1	164	15	3·4	1·7	133
0·6 ,,	30	8·2	3·0	304	29	9·3	9·2	261	29	9·9	9·6	264	28	11·1	11·1	259	29	6·5	3·3	204	15	4·4	1·9	184
0·9 ,,	30	7·9	3·7	304	29	12·6	12·5	268	29	10·4	10·1	267	28	12·6	12·5	262	29	6·5	2·7	220	15	4·8	2·6	268
1·5 ,,	29	7·7	3·9	315	29	13·3	13·0	275	29	11·5	11·4	270	28	10·8	10·6	267	27	6·2	2·1	231	13	6·9	5·9	249
2·1 ,,	27	7·3	4·8	310	28	9·5	9·1	280	28	10·1	9·9	276	28	8·2	7·7	276	26	6·3	1·5	264	11	7·9	7·1	237
3·0 ,,	18	6·0	2·2	335	26	6·6	5·9	281	24	8·8	8·1	278	27	7·7	6·9	279	19	4·0	2·5	306	7	8·7	7·4	296
3·6 ,,	8	5·3	1·0	344	24	6·2	5·0	278	17	7·6	6·0	274	21	6·2	4·9	286	11	7·4	3·2	338				
4·5 ,,	2	4·6	4·6	324	21	4·9	2·7	273	10	4·6	3·2	266	8	5·9	4·5	312	5	6·4	3·0	302				
5·4 ,,	1	5·1	5·1	290	14	3·5	1·3	303	8	3·0	1·3	297	5	3·5	1·7	345	1	6·2	6·2	230				
6·0 ,,					14	3·7	1·0	310	8	4·4	2·3	282	2	1·8	1·8	048								
7·2 ,,					9	4·3	2·4	046	3	4·1	3·3	274												
9·0 ,,					2	6·7	6·5	082	2	5·4	1·6	213												

Station	ASANSOL								BAGHDOGRA															
Time in I. S. T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·5	1·9	124	30	2·1	1·7	138	30	1·9	1·3	063	15	2·8	2·2	091	30	2·3	1·5	087	30	2·1	1·6	059
0·15 a. g.	27	6·0	4·7	134	30	5·9	4·8	151	20	4·4	4·0	062	13	4.0	3·0	101	26	3·5	2·7	092	25	4·6	4·1	065
0·3 a. m. s. l.	27	6·0	4·1	137	30	6·1	5·2	156	20	4·4	4·2	064	13	4·0	2·9	102	26	3·4	2·5	092	25	4·4	4·0	071
0·6 ,,	27	6·3	4·4	138	30	8·6	7·2	169	20	4·5	3·7	091	11	4·4	3·7	111	26	3·1	2·6	102	25	4·0	3·5	085
0·9 ,,	27	6·1	3·8	137	29	8·5	6·2	173	18	5·0	4·3	100	11	5·1	4·6	110	25	3·3	2·8	112	25	3·3	3·0	094
1·5 ,,	27	5·8	1·6	146	28	6.7	3·2	184	15	3·6	2·3	091	6	5·4	3·7	112	21	3·9	2·7	138	23	3·3	2·2	131
2·1 ,,	26	7·3	1·2	194	23	6.6	1·3	250	13	4·5	1·9	105	3	3·8	2·5	116	16	3·4	1·3	155	17	4·6	1·7	138
3·0 ,,	21	8·8	2·4	326	17	7.4	1·3	019	8	5·9	1·7	105	1	5·7	5·7	125	13	4·9	2·2	280	12	5·0	1·0	216
3·6 ,,	19	10·2	4·9	313	9	7·4	1·8	012	7	4·8	1·0	141					11	4·9	1·6	288	5	6·4	1·5	261
4.5 ,,	9	7·8	4·5	013	3	8·1	5·0	079	6	5·0	1·9	282					7	6·5	3·7	276	1	2·6	2·6	125
5·4 ,,	4	6·8	3·9	053					3	4·0	1·5	220					5	6·2	2·4	284				
6·0 ,,	1	8·7	8·7	005					1	5·1	5·1	260					4	5·3	1·9	201				
7·2 ,,									1	6·2	6·2	270					2	10·8	5·0	293				
9·0 ,,																	2	5·9	5·6	277				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

June 1960 (Jyaistha 11—Asadha 9, 1882 Saka)

Station	BAIRAGARH												BAJPE											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·1	3·8	275	30	3·8	2·1	291	30	3·8	3·2	265	30	2·8	0·6	160	30	3·4	2·5	288	30	2·6	0·9	196
0·15 a. g.	30	7·9	7·3	270	29	5·6	2·9	287	30	7·8	6·3	268	28	4·8	3·0	223	27	5·6	4·7	267	27	5·0	3·3	233
0·3 a. m. s. l.													28	4·9	4·1	240	27	6·6	5·8	263	27	5·1	4·0	240
0·6 ,,	30	6·9	6·4	269	29	5·3	2·7	291	30	7·1	5·7	263	28	7.4	6·7	252	27	8·4	7·9	267	27	6·9	6·2	256
0·9 ,,	29	11·1	10·0	072	29	5·9	3·6	289	30	8·9	6·8	261	26	8·8	8·4	263	24	9·3	8·9	272	24	8·4	7·9	263
1·5 ,,	28	8·8	6·9	302	28	6·4	3·9	291	28	7·7	4·5	292	17	10·4	10·0	272	13	8·7	8.5	274	21	9·8	9·5	267
2·1 ,,	28	5·5	2·1	330	27	6·5	3·7	305	27	5·3	1·9	351	11	9·6	9·2	268	5	9.3	9·0	272	16	8·8	8·5	269
3·0 ,,	25	5·3	0·8	074	24	6·4	3·1	321	23	5·1	2·5	062	2	11·6	11·6	272	2	6·7	6·3	261	6	7·1	7·1	255
3·6 ,,	17	5·4	2·0	161	20	6·6	2·2	335	5	4·5	2·9	049					2	6·9	6·5	252	2	6·7	6·6	248
4·5 ,,	11	4·5	1·9	083	13	6·1	2·8	022																
5·4 ,,	6	8·1	4·4	048	7	10·0	6·1	034																
6·0 ,,	6	10·6	5·1	049	6	12·2	9·7	005																
7·2 ,,	3	11·7	6·2	357	3	13·4	10·9	020																
9·0 ,,	3	11·8	9·3	054	1	9·3	9·3	045																

Station	BAMRAULI																BANGALORE							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·9	0·4	043	30	2·8	1·3	335	30	3·5	2·9	297	30	1·7	0·4	043	30	5·6	5·3	250	30	5·8	5·3	257
0·15 a. g.	30	7·2	1·7	258	28	5·4	2·3	337	29	6·2	2·8	337	29	8·1	1·2	082	23	8·2	8·2	256	28	9·2	8·6	256
0·3 a. m. s. l.	30	7·2	1·7	258	28	5·7	2·3	341	29	6·3	2·8	337	29	8·7	1·1	089								
0·6 ,,	30	7·6	2·2	281	28	5·9	2·6	331	29	6·3	3·0	345	29	10·4	1·9	106								
0·9 ,,	30	7·7	2·7	290	28	6·0	2·4	330	29	6·5	2·9	349	29	9·2	1·6	108								
1·5 ,,	29	7·8	4·2	314	26	6·3	3·8	318	29	6·0	2·8	329	26	6·8	1·4	277	23	15·1	14·9	268	28	10·6	10·3	266
2·1 ,,	29	8·1	5·4	332	22	7·8	5·8	326	29	6·3	2·7	292	24	6·8	4·1	299	23	11·9	11·5	276	27	10·0	9·6	273
3·0 ,,	29	8·7	6·0	330	14	7·9	6·1	331	29	7·8	4·5	299	16	7·2	4·8	330	18	7·0	5·5	276	18	6·5	5·3	278
3·6 ,,	29	7·7	4·7	328	9	7·4	5·0	338	29	8·1	5·1	303	8	5·7	3·2	324	13	5·4	3·5	265	10	4·7	3·1	245
4·5 ,,	29	7·5	3·4	315	3	7·2	6·6	349	29	7·7	4·5	312	2	7·2	7·1	315	10	3·4	1·8	240	7	3·8	1·6	189
5·4 ,,	29	7·1	2·8	297	3	8·2	7·4	357	29	7·6	4·4	305	1	5·1	5·1	280	8	1·9	0·4	055	6	2·4	0·9	045
6·0 ,,	29	7·8	2·9	284	3	7·1	7·1	334	28	7·3	3·2	302					3	2·9	0·7	016	5	3·5	1·4	338
7·2 ,,	29	8·7	2·1	276	3	5·0	3·8	302	28	8·2	2·6	295					1	1·5	1·5	260	1	4·1	4·1	015
9·0 ,,	23	7·4	2·1	244					22	9·4	2·0	245					1	4·1	4·1	065	1	3·1	3·1	350

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level

June 1960 (Jyaistha 11—Asadha 9, 1882 Saka)

Station	BANGALORE				BAREILLY								BEGUMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	4·8	3·5	261	30	2·5	1·2	064	30	2·6	1·1	297	30	5·5	5·4	275	30	5·0	4·3	270	30	4·9	4·3	265
0·15 a. g. .	17	6·2	4·3	241	30	7·1	2·0	053	30	6·1	2·7	298	30	8·9	8·6	275	29	6·8	6·1	270	26	8·3	7·7	270
0·3 a. m. s. l.					30	6·4	2·2	050	30	5·7	2·5	303												
0·6 „ .					30	8·2	1·2	293	30	6·4	2·4	298	30	6·1	5·9	274	29	5·7	4·8	274	26	5·4	4·9	270
0·9 „ .					29	8·3	2·4	295	30	6·1	2·7	292	30	12·6	12·0	287	29	7·7	7·2	271	26	10·8	10·4	274
1·5 „ .	17	8·6	6·5	259	26	7·9	5·9	306	30	6·5	4·4	299	29	13·0	12·4	295	27	8·0	7·3	274	25	10·9	10·3	278
2.1 „ .	16	7·0	3·8	266	24	8·5	7·4	311	25	7·1	5·0	306	27	9·2	7·6	291	26	8·3	7·4	282	22	8·3	7·7	280
3·0 „ .	14	5·6	2·6	252	18	8·5	7·6	312	23	8·2	7·0	306	27	6·3	3·7	300	20	6·9	4·6	293	14	5·2	3·6	307
3·6 „ .	13	5·0	1·9	189	11	7·7	5·5	311	23	8·3	7·5	307	20	5·2	1·7	295	16	7·1	1·9	300	8	3·6	1·0	290
4·5 „ .	10	5·1	2·3	163	9	5·5	2·7	288	20	8·1	7·2	303	15	4·7	2·0	276	10	5·0	1·4	347	1	1·5	1·5	205
5·4 „ .	6	6·1	3·1	115	5	6·1	2·8	270	16	7·9	6·6	280	13	4·5	1·2	293	8	4·1	2·0	330	1	2·1	2·1	250
6·0 „ .	4	3·2	1·0	092	5	5·5	3·3	252	11	7·1	5·8	263	13	4·5	0·9	340	8	3·5	2·3	343				
7·2 „ .	2	6·2	6·1	125	4	5·4	4·1	209	6	9·8	9·4	257	5	4·0	1·9	122	3	3.6	3·4	024				
9·0 „ .	1	14·4	14·4	115	2	4·6	3·7	268	4	8·4	6·4	245	1	5·1	5·1	130	2	9·0	8·5	047				

Station	BHAGALPUR												BHUBANESHWAR											
Time in I. S. T.	0530				1130				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2·1	1·8	106	15	2·5	2·3	086	30	2·9	2·4	101	30	2·2	0·9	208	15	4·5	3·5	214	30	4·4	2·4	206
0·15 a. g. .	29	5·7	4·8	114	15	5·0	4·3	088	30	5·7	5·0	096	28	5·3	1·8	233	15	5·7	4·0	228	29	6·5	4·0	203
0·3 a. m. s. l.	29	6·1	5·1	123	15	4·8	4·0	093	30	6·3	5·8	099	28	6·2	3·0	255	15	5·2	3·7	227	29	7·7	4·3	205
0·6 „ .	28	6·8	4·4	148	15	4·5	2·7	111	29	6·6	6·2	117	28	6·8	3·8	268	15	5·1	3·9	241	28	6·8	3·7	221
0·9 „ .	28	7·2	3·3	152	15	4·8	2·1	162	29	5·8	4·4	132	28	7·1	4·2	279	15	5·3	4·5	268	27	6·0	2·5	228
1·5 „ .	25	8·0	1·6	132	15	7·6	4·1	269	28	6·1	2·3	212	26	6·8	4·0	284	15	5·7	5·3	298	27	5·9	2·0	301
2·1 „ .	23	7·8	1·2	291	10	9·7	7·5	296	28	7·4	2·3	260	20	6·4	3·2	275	9	5·0	4·7	302	24	6·4	2·0	331
3·0 „ .	21	6·7	1·7	278	6	8·6	5·3	300	24	8·5	4·3	288	17	7·5	1·6	300	2	7·5	7·2	351	19	6·1	2·7	336
3·6 „ .	15	5·1	0·4	283					21	8·0	5·2	295	11	7·5	1·8	026					18	7·1	3·3	352
4·5 „	14	4·9	0·1	230					19	8·7	5·4	309	10	6·4	2·3	070					12	6·9	4·0	342
5·4 „ .	12	4·9	1·2	097					15	7·7	3·4	301	5	8·5	7·3	094					9	6·9	4·4	327
6·0 „ .	9	4·5	1·8	087					14	7·4	3·8	297	4	5·0	3·9	097					8	7·2	6·6	323
7·2 „ .	4	2·8	1·1	197					7	6·4	3·3	299									4	2·6	1·4	350
9·0 „ .	2	2·8	2·0	105					3	3·6	1·8	239									1	4·1	4·1	005

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

June 1960 (Jyaistha 11, 1881—Asadha 9, 1882 Saka)

Station	BHUBANESHWAR				BHUJ												BIKANER							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·5	2.7	224	30	2·2	2·1	236	30	5·5	4·6	225	30	4·4	4·0	228	30	2·8	2·4	225	30	2·1	1·5	236
0·15 a.g.	29	8·2	6·6	217	30	6·3	5·8	240	30	8·2	6·9	230	29	7·4	7·0	235	30	9·2	7·8	233	30	5·7	3·9	245
0·3 a. m. s. l	29	9·0	6·9	223	30	6·7	6·3	240	30	8·0	6·8	230	29	7·7	7·3	237	30	7·1	6·0	231	30	4·7	3·4	239
0·6 ,,	28	9·5	7·1	233	30	8·0	7·4	246	30	8·1	6·6	235	29	8·2	7·8	240	30	11·7	10·5	244	30	6·3	4·4	240
0·9 ,,	26	9·4	6·4	248	30	5·6	6·7	240	30	7·9	6·2	239	29	7·3	6·4	236	30	11·0	9·8	247	30	6·5	4·7	242
1·5 ,,	22	8·8	7·4	265	30	5·7	3·4	194	27	6·6	5·0	250	28	5·2	2·5	200	30	7·7	5·8	252	29	6·4	4·5	247
2·1 ,,	15	8·3	7·5	261	22	5·1	2·4	121	24	4·9	0·8	280	25	4·2	1·7	118	30	5·7	3·2	286	26	5·9	3·5	272
3·0 ,,	9	7·4	4·9	271	20	6·6	4·4	050	20	6·9	3·9	046	24	6·4	5·1	055	27	5·8	2·3	001	21	6·1	1·9	304
3·6 ,,					11	8·0	6·0	034	17	8·4	6·4	060	18	7·5	4·6	053	21	6·0	4·1	015	18	6·3	3·1	350
4·5 ,,					6	7·1	5·5	052	14	8·0	6·7	048	16	6·5	5·6	056	13	8·6	7·6	003	11	8·2	6·8	351
5·4 ,,									14	7·4	6·6	043	1	6·7	6·7	045	7	7·6	6·8	359	8	7·6	7·2	342
6·0 ,,									13	8·1	7·2	054					2	4·1	1·1	257	7	9·5	8·8	344
7·2 ,,									12	10·2	8·2	052					2	7·5	6·5	250	3	14·9	11·6	291
9·0 ,,									2	6·4	0·6	188					1	9·8	9·8	185	2	14·4	14·4	246

Station	BIKANER				CHIKALTHANA												COCHIN							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·7	1·6	203	30	5·3	5·1	269	30	5·2	4·1	275	30	5·1	4·8	270	30	1·4	0·6	123	30	2·5	1·5	278
0·15 a. g.	29	9·4	7·2	210	30	8·5	8·0	268	27	6·1	4·9	270	28	8·2	7·6	273	24	3·2	1·0	254	25	4·3	3·3	288
0·3 a. m. s. l	29	7·1	5·3	207													24	4·0	3·1	276	25	5·8	5·2	285
0·6 ,,	29	10·0	7·8	219													24	7·2	7·1	281	25	8·5	8·2	287
0·9 ,,	29	8·9	7·0	222	30	9·8	9·5	281	27	6·4	5·8	276	28	9·6	9·0	275	24	9·6	9·5	284	25	9·9	9·7	290
1·5 ,,	28	6·7	4·4	248	30	9·1	8·0	288	27	7·5	6·6	273	28	9·2	8·4	280	23	11·5	11·4	286	24	10·8	10·7	292
2·1	23	5·5	3·1	283	28	4·2	2·7	277	25	5.6	4·2	275	27	5·8	4·0	278	17	11·9	11·5	285	20	11·1	10·9	292
3·0 ,,	18	5·3	3·2	317	26	3·5	1·2	223	19	5·8	2·5	240	24	4·9	2·0	254	5	8·5	8·1	277	9	10·2	9·7	281
3·6 ,,	10	4·7	4·1	006	14	3·5	0·6	257	10	7·2	3·8	196	21	3·7	1·4	205	4	5·8	5·6	265	6	6·8	5·9	277
4·5 ,,	4	6·9	6·9	007					6	4·7	2·7	234	6	3.9	1·1	141	4	4·5	3·8	278	4	3·2	2·7	302
5·4 ,,	1	2·1	2·1	090					4	4·6	0·5	205					2	3·1	2·8	019	2	3·6	3·0	124
6·0 ,,									4	4·6	1·0	047					1	2·6	2·6	070				
7·2 ,,									3	2·6	2·0	284					1	2·6	2·6	060				
9·0 ,,																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

June 1960 (Jyaistha 11—Asadha 9, 1882 Saka)

Station	COCHIN				DARJEELING								DEHRA DUN								DUM DUM			
Time in I.S.T.	2330				0530				1730				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2·2	0·5	314	30	0·3	0·1	107	30	0·5	0·5	225	30	0·8	0·5	027	30	1·5	1·1	267	30	1·7	1·3	030
0·15 a. g. .	22	3·5	2·0	281	12	1·9	0·4	218	4	4·5	4·3	211	28	2·5	0·9	082	30	4·4	3·5	269	30	5·7	3·8	171
0.3 a. m. s. l.	22	4·1	3·0	282																	30	6·3	5·0	171
0·6 ,, .	22	6·8	6·5	285																	30	7·5	5·2	194
0·9 , .	22	8·5	8·3	288									28	2·3	0·8	108	30	4·6	3·7	267	30	7·5	4·4	203
1·5 ,, .	22	10·7	10.6	290									28	2·7	0·8	275	30	4·8	4·1	269	30	6·8	2·9	207
2·1 ,, .	21	11·6	11·5	290									28	4·3	2·4	303	28	4·7	3·8	279	30	5·7	1·8	212
3·0 ,, .	12	10·7	10·3	283	12	3·0	1·3	241	4	2·7	2·5	279	25	6·7	5·4	305	23	5·8	4·7	291	30	6·1	0·4	281
3·6 ,, .	4	14·8	14·5	278	10	4·2	1·9	271	2	4·4	1·5	313	20	7·7	6·3	303	22	6·3	5·1	303	29	7·1	1·2	300
4·5 ,, .					7	5·0	3·0	265	1	2·6	2·6	095	14	5·3	3·1	306	17	7·1	5·6	325	28	7·0	0·8	298
5·4 ,, .					5	4·2	0·8	009					9	4·9	4·3	285	14	7·7	5·5	320	28	6·6	0·8	139
6·0 ,, .					3	6·8	4·0	095					6	6·0	4·7	250	13	6·9	5·8	303	28	7·0	1·7	145
7·2 ,, .					2	7·2	6·8	040					2	8·7	8·7	222	10	11·6	9·4	283	28	6·6	2·3	178
9·0 ,, .					1	4·6	4·6	265					1	5·7	5·7	230	6	18·6	16·1	260	20	7·3	4·1	183

Station	DUM DUM												GADAG											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2·9	2·1	158	30	2·6	1·9	170	30	2·5	2·0	162	30	5·0	4·6	247	30	7·0	6·5	252	30	5·7	5·3	249
0·15 a. g. .	30	6·0	4·1	155	30	6·7	5·8	173	30	7·3	5·9	170	29	9·0	8·8	248	29	11·0	10·8	249	25	10·0	9·9	249
0·3 a. m. s. l.	30	6·4	4·3	161	30	6·9	5·8	173	30	8·4	6·8	176												
0·6 ,, .	30	6·5	4·5	162	30	7·1	5·9	170	30	9·0	7·4	182												
0·9 ,, .	28	6·8	4·0	163	30	5·8	4·2	165	30	8·2	6·3	182	29	11·9	11·5	258	29	12·4	12·2	255	25	11·7	11·5	256
1·5 ,, .	21	7·3	2·9	212	30	5·4	1·4	156	29	7·2	3·9	176	24	13·7	13·2	267	28	12·8	12·4	265	25	11·7	11·2	265
2·1 ,, .	10	5·3	1·6	246	29	6·7	0·5	135	28	6·7	2·5	177	19	9·0	7·8	273	23	10·3	9·8	272	22	7·7	7·0	275
3·0 ,, .	8	5·9	3·2	325	29	7·2	0·2	130	20	6·6	1·6	125	15	7·0	4·8	266	17	8·3	7·2	273	21	5·1	3·4	257
3·6 ,, .	5	5·3	3·5	325	29	7·3	0·1	029	10	7·1	1·1	096	11	5·3	3·5	264	10	4·4	3·3	274	21	5·7	3·9	259
4·5 ,, .	2	7·2	5·4	296	28	6·6	0·2	020	4	8·2	3·0	022	9	4·3	2·6	261	7	4·0	2·3	288	15	3·9	1·5	277
5·4 ,, .	1	11·3	11·3	310	28	6·9	1·0	055					6	3·5	2·4	330	4	4·8	4·5	316	9	3·5	0·6	329
6.0 ,, .					28	6·9	1·2	098					6	3·1	2·4	004	4	6·8	5·7	328	6	4·2	1·6	358
7.2 ,, .					27	6·2	1·2	123					4	3·2	2·1	005	3	4·6	3·3	035	1	7·7	7·7	085
9·0 ,, .					19	6·9	2·8	163					2	4·1	3·8	084	2	7·7	7·7	075				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

June 1960 (Jyaistha 11—Asadha 9, 1882 Saka)

Station	GANNAVARAM												GAUHATI											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·1	3·7	267	30	5·2	4·5	278	30	4·1	2·6	258	30	0·8	0·2	094	30	2·2	1·2	356	30	1·3	0·6	298
0·15 a. g.	27	7·2	6·5	271	28	6·7	6·0	277	27	6·4	4·9	254	30	2·3	0·3	218	27	3·2	1·4	346	30	2·8	0·3	325
0·3 a. m. s. l.	27	8·7	8·9	278	28	6·9	6·4	277	27	7·2	5·9	259	30	2·4	0·4	192	27	3·3	1·1	353	30	2.9	0·3	316
0·6 ,,	27	11·2	10·6	283	28	7·9	7·5	278	27	9·0	8·0	266	30	3·2	0·8	233	26	3·4	0·6	330	30	3·3	0·6	312
0·9 ,,	26	12·1	11·7	289	28	9·0	8·6	283	27	9·2	8·6	273	29	4·6	2·2	234	25	3·8	1·1	238	30	3·8	1·7	258
1·5 ,,	25	10·4	10·0	297	26	8·9	8·4	292	26	9·0	8·4	280	26	6·2	4·0	239	24	4·9	2·7	217	29	6·1	4·3	241
2·1 ,,	24	7·6	6·7	297	25	9·0	7·9	293	26	8·1	7·2	287	25	6·4	3·8	243	20	6·4	5·0	245	27	6.1	4·2	239
3·0 ,,	22	5·5	3·0	309	23	8·1	6·6	295	21	6·3	3·8	322	25	6·7	4·3	253	15	6·9	5·3	251	24	7·7	3·9	258
3·6 ,,	17	5·3	1·3	323	20	7·5	4·1	303	16	5·5	3·0	349	24	6·8	4·0	251	12	6·2	4·3	242	24	8·2	4·5	273
4·5 ,,	10	5·8	2·1	292	18	6·1	3·3	320	7	4·1	3·5	329	24	7·1	4·2	255	10	5·8	2·9	228	23	9·2	5·9	273
5·4 ,,	8	5·0	1·9	272	14	5·3	2·6	311	3	2·4	0·5	341	24	7·5	3·8	263	7	5·8	2·6	231	23	8·8	5·8	273
6·0 ,,	6	2·9	0·5	357	11	3·7	2·4	312	3	2·2	1·7	020	24	6·8	3·3	248	3	5·0	2·9	201	23	8·0	5·5	267
7·2 ,,	3	3·2	2·4	080	11	4·5	3·0	358	2	2.8	2.8	041	22	7·2	4·4	270	3	4·8	4·8	183	23	7·9	6·0	247
9·0 ,,	2	9·5	9·2	100	5	4·7	2·8	084					21	8·1	5·3	234					22	8·5	6·9	265

Station	GAUHATI				GAYA																GOPALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·9	0·1	141	30	2·6	1·9	126	15	5·5	1·1	282	30	4·3	1·8	091	30	3·4	2·3	113	30	2·4	1·5	220
0·15 a. g.	30	3·1	0·5	123	30	5·4	2·9	142	15	7·2	3·3	275	29	5·0	1·9	072	29	6·1	3·1	131	29	5·7	3·0	240
0·3 a. m. s. l.	30	3·2	0·4	021	30	5·4	2·7	154	15	7·1	3·3	286	29	5·1	1·7	072	29	6·4	3·3	132	29	5·7	3·3	266
0·6 ,,	30	3·4	0·7	320	30	6·9	3·2	182	14	5·1	0·9	279	29	5·6	2·0	072	29	6·9	3·8	147	29	6·3	4·1	277
0·9 ,,	30	4·1	1·6	258	30	7·5	2·1	211	13	7·6	3·5	290	29	5·7	1·2	062	29	6·4	3·0	155	29	7·2	5·2	283
1·5 ,,	27	5·7	4·1	237	29	7·6	1·6	305	11	9·9	6·8	287	29	6·6	0·6	044	26	5·7	0·7	202	25	6·8	5·1	291
2·1 ,,	20	6·3	4·1	235	26	7·6	3·4	310	6	10·8	6·6	325	28	7·2	0·8	295	23	6·5	2·4	287	18	6·2	4·7	295
3·0 ,,	14	7·2	5·0	246	18	5·6	1·6	020					17	5·6	0·7	340	12	5·8	2·0	290	16	5·9	4·0	305
3·6 ,,	7	5·3	4·8	243	13	5·4	1·0	026					8	3·9	2·3	331	2	8·0	7·1	283	10	6·0	3·1	300
4·5 ,,	3	6·3	4·9	232	10	4·8	0·7	108					6	4·5	2·5	351	1	16·0	16·0	285	7	4·6	1·6	301
5·4 ,,	2	5·1	3·7	240	10	6·2	1·5	111					3	4·6	1·6	039	1	13·4	13·3	285	6	4·4	0·6	358
6·0 ,,	2	5·9	2·8	217	9	5·9	0·8	102					3	6·5	2·6	032					5	4·4	1·6	343
7·2 ,,	1	4.1	4.1	130	1	4·6	4·6	075					2	8·7	1·0	260					2	1·5	1·5	029
9·0 ,,					1	6.7	6·7	105													1	0·5	0·5	195

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

June 1960 (Jyaistha 11—Asadha 9, 1882 Saka)

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	6·3	5·3	208	30	4·7	3·2	215	30	1·9	1·5	070	30	1·9	0·8	060	30	3·2	2·6	268	30	2·5	2·0	308
0·15 a. g.	28	7·7	6·9	202	29	8·4	6·0	226	29	6·4	5·8	086	30	4·2	1·7	075	30	7·7	5·8	276	29	5·6	3·9	306
0·3 a. m. s. l.	28	7·0	5·9	203	29	8·1	5·9	232	29	7·8	6·9	099	30	4·6	2·2	076	30	6·2	4·7	275	29	5·0	3·1	304
0·6 ,,	28	5·8	4·1	216	29	6·4	4·2	243	28	8·4	6·0	122	30	4·5	1·9	084	29	9·0	6·7	294	29	6·2	3·5	315
0·9 ,,	28	5·3	2·8	250	29	5·6	3·3	250	27	7·4	2·5	137	30	4·8	1·0	089	29	8·5	6·2	300	29	6·1	3·1	323
1·5 ,,	26	5·9	4·1	305	26	5·7	2·6	278	26	7·6	2·4	283	29	3·7	1·7	267	30	7·2	4·8	305	29	6·3	3·3	323
2·1 ,,	24	5·5	4·3	308	20	5·4	1·7	307	24	9·0	3·2	325	29	6·7	4·3	282	30	6·0	3·6	327	29	6·3	3·7	321
3·0 ,,	23	5·2	3·0	314	14	5·3	2·6	324	17	9·1	5·8	306	20	7·7	5·1	301	24	5·3	3·7	353	25	5·9	4·0	318
3·6 ,,	17	6·1	3·0	332	5	3·1	2·0	344	11	6·7	3·3	290	16	7·5	6·3	295	18	3·9	2·1	354	17	6·1	3·8	316
4·5 ,,	10	4·6	3·5	339					9	3·9	1·2	290	11	5·1	4·0	310	13	4·8	0·7	081	11	6·7	4·4	316
5·4 ,,	5	4·8	3·5	357					7	4·1	1·7	230	8	4·8	3·5	312	11	5·5	2·0	200	9	8·3	5·3	293
6·0 ,,	4	3·3	2·3	348					4	5·3	3·5	159	7	5·3	3·4	304	9	6·7	3·7	195	7	9·2	3·2	288
7·2 ,,	1	6·7	6·7	330					3	7·4	4·2	160	6	7·7	3·9	308	7	6·8	2·0	182	4	8·7	5·7	211
9·0 ,,									1	1·0	1·0	095	4	4·9	2·9	008	6	9·5	4·7	193				

Station	GWALIOR				IMPHAL																JABALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·8	1·6	239	30	0·2	0·1	217	15	3·7	3·1	207	30	1·5	1·2	230	30	0·6	0·4	221	30	1·7	1·3	239
0·15 a. g.	30	6·4	3·9	246	20	1·1	0·5	136	13	4·3	3·0	204	24	4·0	2·6	233	22	1·6	0·4	169	30	6·3	4·7	245
0·3 a. m. s. l.	30	5·3	3·2	243																				
0·6 ,,	30	7·8	4·1	257																	30	7·4	5·6	254
0·9 ,,	30	7·6	3·5	265	20	1·0	0·5	132	13	4·6	3·4	198	24	3·9	2·5	230	22	1·5	0·4	163	29	9·6	7·8	286
1·5 ,,	30	6·1	2·5	290	20	3·6	2·2	258	13	4·7	2·3	235	24	3·5	1·2	221	22	3·4	2·1	212	29	9·0	6·6	305
2·1 ,,	28	5·5	2·5	318	17	6·0	4·5	255	12	6·8	1·9	273	22	2·8	0·9	231	16	4·3	2·7	218	29	7·2	4·5	329
3·0 ,,	21	5·5	3·5	349	8	4·4	1·8	259	6	7·1	5·7	273	17	4·5	2·2	277	11	3·9	2·6	259	27	6·4	4·3	352
3·6 ,,	12	5·6	2·9	341	6	3·8	1·0	228					13	5·6	2·8	272	7	5·4	4·2	270	18	5·8	2·5	019
4.5 ,,					3	6·3	2·0	248					10	5·5	3·9	241	1	5·1	5·1	280	17	6·5	1·9	339
5·4 ,,													2	4·1	4·1	246					10	5·5	1·2	016
6·0 ,,													2	2·3	2·1	228					9	5·3	0·5	246
7·2 ,,													1	2·6	2·6	210					5	5·7	3·4	135
9·0 ,,																					1	3·6	3·6	145

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

June 1960 (Jyaistha 11 —Asadha 9, 1882 Saka)

Station	JABALPUR								JAGDALPUR												JAIPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·3	0·5	254	30	1·9	0·8	240	30	1·1	0·7	235	30	1·7	1·3	227	30	1·0	0·8	221	30	2·5	2·2	299
0·15 a. g.	30	5·3	1·3	287	30	6·4	3·9	242	30	5·0	3·9	247	26	5·7	4·4	247	24	6.0	5·5	240	23	8·7	7·8	280
0·3 a.m.s.l.																								
0·6 ,,	30	5·6	1·5	286	30	6·7	3·9	250	26	3·5	2·7	245	26	3·8	2·9	248	24	4·3	3.9	234	23	10·0	9·0	280
0·9 ,,	30	5·9	3·1	307	30	7·8	4·4	271	24	8·2	6·9	268	26	6·5	5·2	255	24	6·8	6·2	252	23	12·4	11·8	283
1·5 ,,	29	6·4	3·8	325	30	7.3	3·9	303	19	9·0	8·3	279	22	6·0	4·5	286	22	7·7	6·5	278	23	8·0	7·1	282
2·1 ,,	28	8·0	4·5	331	30	6·5	3·3	340	17	6·0	4·4	295	19	6·4	4·5	307	21	5·9	4·7	292	22	5·3	2·5	286
3·0 ,,	24	8 0	4·0	322	19	6·8	1·7	013	15	4·5	2.5	337	11	7·8	5·5	332	16	4·7	2·8	305	20	4·9	1·6	011
3·6 ,,	19	9·5	4·5	326	12	6·7	0·9	351	14	4.8	1·5	032	9	7·2	4·8	342	5	5·1	2·6	316	14	4·5	2·9	023
4.5 ,,	6	6·2	4·0	278	2	7·7	2·4	083	9	5·3	2·7	026	7	7·5	4.0	331	1	14.4	14.4	300	6	6·2	5·0	030
5·4 ,,	1	1·5	1·5	010					3	6·3	3·4	358	5	4·8	3·8	308	1	9.8	9.8	320	2	4·4	0·3	151
6·0 ,,									1	4·6	4·6	270	3	6·5	6·5	337					2	2.3	1.9	022
7·2 ,,													2	3·6	3·6	012								
9·0 ,,																								

Station	JAIPUR								JAMSHEDPUR												JHARSUGUDA			
Time in I.S.T.	1730				2330				0530				1130				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	3·7	1·8	277	30	2·6	1·5	272	30	1·4	0·4	104	15	2·7	2·2	228	30	3·8	1·8	149	30	1·9	1·2	188
0·15 a. g.	24	6·2	3·6	262	24	9·3	8·0	259	28	3·5	1·1	135	15	5·0	4.1	240	29	5·7	2·7	146	29	5.0	2·9	211
0·3 a.m.s.l.									28	3·7	1·3	170	15	5·1	4·0	224	29	5·8	2·7	144	29	4·3	2·6	205
0·6 ,	24	6·3	4·8	260	24	10·8	9·1	263	28	5·8	3·1	220	15	5·3	4·2	256	29	6·2	2·7	133	29	6·6	4·3	254
0·9 ,	24	5 8	4·6	265	24	11·3	9·1	267	28	7·2	4·1	240	15	5·6	4·3	275	29	6·1	2·2	120	27	8·2	5·9	267
1·5 ,	24	6·0	4·8	277	24	8·0	5·9	274	25	6·8	3·2	259	14	5·7	3·8	305	26	6·3	0·9	086	25	7·8	5·5	286
2·1 ,,	24	6·3	5·0	292	24	6·1	3·8	296	25	7·5	1·9	282	13	4.9	4·1	305	24	6·6	1·5	351	22	6·1	3·1	318
3·0 ,	24	6·1	4·6	292	24	5.0	2·7	337	21	7·4	2·4	318	10	5·6	3·9	340	15	7·6	2·1	320	18	6·6	4·1	346
3·6 ,	24	6·4	4·5	303	19	4·6	3·1	005	16	7·9	3·1	318					13	7·8	2·0	323	12	5·6	2·9	358
4·5 ,	20	6·9	4·9	313	8	4·8	3·2	343	12	7·7	3.2	332					7	8·8	3·1	020	8	6.2	1.5	054
5·4 ,	15	7·4	5·3	312	5	5·1	2·0	277	5	7·9	0·8	354					5	7·8	5·6	055				
6·0 ,	13	9·3	6·8	311	4	10·0	9·0	240	3	5 8	3·1	111					5	8·3	5·0	058				
7·2 ,	8	18·7	9·3	315	2	17.0	11·5	290	2	8.2	3·7	100					1	6·7	6·7	065				
9·0 ,,	3	13·4	12·7	328																				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

June 1960 (Jyaistha 11 —Asadha 9, 1882 Saka)

Station	JHARSUGUDA								JODHPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	2·6	0·8	211	30	2·1	1·0	197	28	3·5	3·4	244	30	4·7	4·3	239	29	4·8	3·3	247	30	3·7	3·0	220
0·15 a. g.	27	4·4	1·6	214	27	5·0	3·0	191	28	9·2	8·4	254	29	6·6	6·4	236	29	7·3	4·2	258	30	9·1	7·6	218
0·3 a. m. s. l.	27	4·5	1·7	214	27	4·3	2·7	193	28	7·9	7·5	254	29	6·5	6·2	242	29	5·5	4·0	247	30	6·9	6·0	217
0·6 ,,	27	4·8	1·7	230	27	5·6	3·3	207	28	10.3	9·9	246	29	8·2	7·4	246	29	6·7	4·5	242	30	10·1	8·9	222
0·9 ,,	27	4·9	1·4	240	27	5·9	2·8	223	28	10·0	9·2	238	29	7·9	7·2	238	29	6·7	4·6	233	30	9·4	8·1	230
1·5 ,,	25	5·5	0·7	260	25	5·4	1·2	251	28	7·2	5·3	220	29	4·9	4·3	235	29	6·5	4·2	240	30	7·3	5·0	250
2·1 ,,	23	6·4	0·8	323	19	5.9	1·9	335	28	5·6	6·8	150	28	5·9	2·1	216	29	5·2	1·7	245	28	4·8	1·6	318
3·0 ,,	18	6·7	2·4	338	12	6·6	2·2	357	27	5·5	3·5	058	28	6·1	2·6	058	29	5·1	1·1	040	25	4·8	3·0	038
3·6 ,,	12	6·9	2·3	360	8	4·7	2·9	339	27	6·8	5·1	039	26	5·9	3·3	066	29	5·2	2·9	011	12	5·5	4·9	050
4·5 ,,	8	4·9	4·2	314					27	7·5	5·9	019	21	6·1	4·6	048	29	5·8	3·4	014	2	13·9	12·8	048
5·4 ,,	1	8·7	8·7	260					27	6·0	3·9	019	21	6·3	4·5	031	28	5·8	3·6	333	1	2.6	2.6	010
6·0 ,,									27	6·2	3·3	349	18	6·1	4·1	011	27	6·4	3·2	334	1	3.6	3.6	260
7·2 ,,									26	5·7	2·9	228	6	11·4	5·8	341	28	5·7	3·5	300	1	4.6	4.6	315
9·0 ,,									21	8·0	3·4	266	1	1·0	1·0	310	24	8·5	5·3	285				

Station	MADRAS																MINICOY							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	3·8	3·6	262	30	5·8	5·4	274	30	4·4	2·1	135	30	4·0	3·4	194	30	5·1	4·9	273	30	5·9	5·7	279
0·15 a. g.	30	9.3	8·6	272	30	7·0	6·7	277	29	7·2	2·4	144	29	7·1	6·2	213	30	8·5	8·3	272	29	8·8	8·3	277
0·3 a. m. s. l.	30	10·1	9·8	277	30	7·3	7·1	278	29	6·5	1·9	188	29	8·2	7·1	227	30	9·0	8·8	272	29	9.3	9.2	276
0·6 ,,	30	11·1	10·9	283	30	8·4	8·4	278	29	5·6	3·5	250	29	9·1	7·8	240	30	10·5	10·2	272	29	10·6	10·4	276
0·9 ,,	30	10·9	10·7	288	29	8·9	8·7	279	29	6·5	5·5	277	29	8·7	8.1	257	30	11·6	11·5	278	29	12·3	12·1	282
1·5 ,,	30	9·9	9·5	292	29	9·5	9·4	286	29	8·1	7·7	278	28	8·1	7·9	273	29	11·3	11·2	280	29	12·6	12·4	284
2·1 ,,	30	8·3	7·5	290	28	8·1	7·7	277	29	9·7	9·3	280	26	7·8	7·5	286	29	10·3	10·2	277	24	11.1	11.0	280
3·0 ,,	29	7·9	6·8	286	24	7·2	6·6	271	29	10·6	10·1	283	14	6·0	5·3	292	25	8·3	4·7	276	17	10·9	10·8	282
3·6 ,,	29	7·9	6·6	284	23	7·0	6·0	273	29	9·7	8·7	284	6	6·6	4·8	324	21	8·1	7·3	268	16	10·9	10·7	280
4·5 ,,	29	7·2	2·3	295	20	5·7	4·2	277	29	7·7	6·6	290	2	7·2	5·2	308	15	7·5	6·7	256	14	9·7	7·7	279
5·4 ,,	28	6·2	3·6	287	15	4·2	1·6	312	29	7·4	5·3	300					9	6·9	6·2	250	10	6·6	5·0	275
6·0 ,,	28	5·5	3·0	285	14	4·6	1·1	323	29	6·9	4·5	298					3	8·9	8·1	223	6	4·8	4·1	276
7·2 ,,	29	5·3	0·6	006	12	5·0	1·1	020	26	6·3	3·4	299									1	7·2	7·2	250
9·0 ,,	22	6·8	4·1	090	9	6·4	4·5	081	15	5·0	2·1	027									1	1·5	1·5	110

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

June 1960 (Jyaistha 11 —Asadha 9, 1882 Saka)

Station	MINICOY				MOHANBARI																NAGPUR			
Time in I. S. T.	2330				0530				1130				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5·8	5·6	277	29	0·7	0·4	024	15	1·3	1·1	031	30	0·6	0·6	051	29	0·1	0·1	045	30	2·7	2·2	254
0·15 a. g.	30	7·6	7·4	271	19	3·2	2·1	051	12	3·3	2·6	028	28	2·9	1·7	046	27	3·7	2·7	043	30	6·9	5·3	267
0·3 a. m. s. l.	30	7·8	7·7	272	19	3·7	2·6	051	12	3·2	2·4	036	28	2·7	1·8	057	27	3·5	2·4	048				
0·6 ,,	30	9·3	9·1	274	19	3·0	1·9	062	12	3·2	1·6	073	28	2·7	1·6	077	27	3·0	2·1	075	30	7·5	6·4	281
0·9 ,,	30	10·6	10·4	280	19	2·8	1·3	112	12	3·1	0·8	171	28	2·4	0·7	126	27	2·2	1·5	102	30	9·1	8·0	301
1·5 ,,	29	10·6	10·4	283	15	3·9	2·5	201	9	5·1	3·7	211	27	3·9	2·8	222	26	2·9	2·9	177	30	8·3	7·0	320
2·1 ,,	25	10·0	9·9	282	13	4·9	3·2	191	4	8·0	4·7	184	25	5·3	4·6	215	23	4·3	3·2	207	30	6·4	4·2	332
3·0 ,,	16	8·3	8·1	275	10	6·2	4·7	205	4	7·3	4·4	157	24	6·4	5·1	217	13	5·0	3·7	222	30	5·1	1·9	004
3·6 ,,	9	6·7	6·3	271	7	7·7	1·8	208					20	6·4	5·1	224	3	3·4	2·8	225	29	5·4	1·9	028
4·5 ,,	5	4·6	3·3	261	4	8·2	3·0	170					14	7·0	5·8	237	2	6·4	5·8	237	29	5·6	2·6	047
5·4 ,,	3	3·4	1·7	022	2	10·6	8·8	171					10	7·3	5·9	248					29	6·6	1·6	071
6·0 ,,	1	3·1	3·1	080	1	13·9	13·9	230					10	6·6	5·5	253					28	7·9	2·4	072
7·2 ,,													5	7·1	6·9	248					28	7·0	2·7	074
9·0 ,,													3	6·5	4·9	261					23	6·7	4·4	095

Station	NAGPUR												MANPARA								NEW DELHI			
Time in I. S. T.	1130				1730*				2330				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·8	4·1	293	30	4·1	2·2	273	30	3·2	1·7	251	30	2·6	2·5	098	30	2·6	0·8	080	30	3·6	1·9	277
0·15 a. g.	30	6·3	5·7	296	30	7·2	4·4	280	29	6·9	3·9	250	30	7·2	6·5	118	30	5·0	0·6	097	30	9·3	4·9	272
0·3 a. m. s. l.													30	7·6	6·8	121	30	5·3	0·7	104	30	7·7	4·4	273
0·6 ,,	30	6·0	5·3	293	30	6·7	4·3	280	29	7·4	4·8	261	30	8·6	6·8	128	30	5·8	0·2	204	30	9·6	6·1	278
0·9 ,,	30	6·4	5·6	303	30	6·2	4·4	277	29	6·9	5·3	271	30	7·6	3·6	147	30	5·3	0·3	267	30	9·7	7·3	283
1·5 ,,	29	6·4	5·0	324	30	6·6	4·6	286	27	6·1	4·4	293	29	6·3	2·9	282	30	5·4	2·3	275	30	7·7	6·3	301
2·1 ,,	20	5·9	3·7	004	30	6·3	3·8	305	24	4·5	1·9	319	28	8·4	5·9	296	29	6·7	4·7	284	30	7·1	5·8	316
3·0 ,,	18	5·3	2·2	023	30	6·1	2·8	344	18	4·9	2·2	037	23	9·3	8·2	303	24	6·9	6·4	293	30	6·9	5·0	327
3·6 ,,	16	5·9	1·9	022	30	6·1	2·5	352	9	4·9	2·3	056	16	7·4	6·5	306	19	6·9	6·1	295	30	6·9	4·6	328
4·5 ,,	12	5·9	0·5	078	30	6·3	2·3	357	2	5·7	4·8	156	12	5·5	4·2	302	17	7·6	5·8	302	30	7·6	5·0	330
5·4 ,,	8	4·7	2·3	277	29	5·9	2·3	017					8	4·4	3·0	275	14	7·0	5·8	303	30	7·2	4·8	301
6·0 ,,	8	5·1	3·0	292	29	5·9	2·3	032					8	4·7	3·1	236	14	8·2	5·8	278	30	8·4	6·1	286
7·2 ,,	5	6·7	4·9	349	28	11·5	2·9	045					7	6·3	5·6	226	11	8·3	5·7	272	30	10·0	7·2	289
9·0 ,,	3	3·1	1·3	250	22	6·8	3·1	078					5	8·7	6·6	219	8	6·9	4·4	244	30	12·4	9·9	271

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

June 1960 (Jyaistha 11 —Asadha 9 1882 Saka)

Station	NEW DELHI												POONA											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	5·7	4·1	305	29	3·6	1·7	292	30	3·0	1·1	247	30	1·4	1·2	253	30	3·1	2·7	239	30	2·3	2·2	256
0·15 a. g.	25	7·3	4·3	301	29	6·9	3·3	304	30	8·0	4·0	251	29	6·1	5·9	256	30	7·5	7·1	258	30	6·5	6·4	255
0·3 a. m. s. l.	25	6·7	3·9	302	29	5·0	2·1	298	30	6·2	2·4	244												
0·6 ,,	25	7·4	4·8	297	29	6·6	3·4	302	30	8·6	4·4	260	29	3·2	3·0	254	30	5·3	5·0	253	30	3·8	3·2	258
0·9 ,,	24	7·4	5·0	295	29	6·5	3·4	303	29	8·5	4·3	268	29	7·4	7·1	259	30	9·0	8·4	258	30	7·7	7·6	254
1·5 ,,	23	7·7	5·6	304	29	6·3	4·2	296	26	7·2	4·0	281	28	9·8	9·3	262	29	10·4	9·9	262	29	10·1	9·7	257
2·1 ,,	17	7·3	5·6	305	29	6·2	4·6	302	22	6·5	3·9	286	21	6·3	3·9	263	21	6·4	5·7	266	21	6·4	4·3	256
3·0 ,,	13	7·1	4·7	311	29	7·5	6·2	303	12	5·2	3·2	306	16	5·3	2·6	199	15	4·7	1·6	187	16	4·2	2·5	184
3·6 ,,	11	6·7	4·6	330	29	7·3	6·3	309	4	5·1	4·1	330	12	4·5	2·4	176	11	4·4	1·9	214	13	3·2	1·9	203
4·5 ,,	9	7·9	5·1	317	29	7·7	5·9	305					7	5·3	3·1	163	8	4·8	2·3	274	7	3·9	3·2	250
5·4 ,,	7	6·9	6·0	298	29	8·5	6·4	297					2	7·2	5·1	170	4	3·6	0·9	270	2	4·4	1·7	323
6·0 ,,	6	6·3	5·3	288	29	8·7	7·0	291					1	3·1	3·1	095	2	3·9	2·3	355				
7·2 ,,	4	10·6	10·2	273	29	11·8	8·5	276					1	5·7	5·7	075								
9·0 ,,	1	20·1	20·1	240	29	13·5	10·8	266																

Station	PORT BLAIR																RAIPUR							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	3·7	3·5	232	30	6·7	5·3	226	30	4·5	4·1	226	30	5·4	5·1	231	30	2·7	2·4	230	30	3·1	1·7	251
0·15 a. g.	30	9·7	9·1	232	29	8·5	7·9	229	29	9·5	9·2	235	28	8·7	8·3	230	27	8·6	7·2	240	29	6·4	3·6	253
0·3 a. m. s. l.	30	10·0	9·8	232	29	9·6	9·0	229	30	9·7	9·5	235	28	9·3	8·9	232								
0·6 ,,	30	12·5	12·1	237	29	11·2	10·8	232	29	11·9	11·9	236	28	11·0	10·5	235	27	9·8	8·2	259	29	6·6	3·7	255
0·9 ,,	30	13·0	12·4	237	27	12·9	12·6	236	29	13·1	12·9	239	26	10·7	10·1	241	27	9·6	7·7	274	29	6·5	3·9	258
1·5 ,,	30	12·5	11·7	245	11	13·1	12·8	239	29	13·4	13·1	245	21	9·7	9·1	245	26	8·0	5·8	297	27	5·6	2·5	299
2·1 ,,	30	11·8	10·8	246	7	11·5	11·2	243	29	12·4	12·0	245	17	9·2	8·6	246	21	7·1	4·8	327	25	6·5	4·1	310
3·0 ,,	29	11·5	10·7	244	2	9·8	9·7	212	28	11·3	10·5	246	12	7·3	6·0	237	19	6·8	3·9	007	23	6·5	3·7	344
3·6 ,,	27	10·7	9·8	244					28	10·5	9·2	249	5	7·7	7·1	232	14	6·5	4·1	032	14	8·0	4·2	340
4·5 ,,	27	8·9	6·7	248					28	10·4	8·4	246					5	6·2	3·7	061	8	6·3	3·5	309
5·4 ,,	27	7·7	4·9	248					28	9·0	5·7	243					3	4·1	2·1	045	5	6·3	4·8	303
6·0 ,,	26	8·5	2·0	237					27	8·0	4·1	241					3	4·5	2·2	044	4	5·1	3·1	302
7·2 ,,	25	4·7	1·0	318					27	7·0	2·2	196												
9·0 ,,	20	8·3	6·2	082					23	8·1	5·8	085												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

June 1960 (Jyaistha 11, — Asadha 9, 1882 Saka)

Station	RAIPUR				RAXAUL												SANTA CRUZ							
Time in I.S.T.	2330				0530				1130				1730				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·0	2·0	211	30	1·1	0·9	088	15	2·6	2·6	092	30	1·2	1·2	084	30	1·9	1·3	218	30	4·2	3·8	229
0·15 a. g.	26	8·0	3·8	238	25	8·0	7·4	099	14	5·2	5·1	110	30	4·8	4·2	086	29	5·6	3·9	220	26	6·1	5·2	225
0·3 a. m. s. l.					25	9·1	8·7	098	14	5·6	5·4	108	30	5·0	4·5	089	29	5·8	4·6	228	26	7·1	6·4	228
0·6 „	26	8·7	5·5	235	25	8·4	7·6	115	14	7·1	7·0	110	30	5·3	4·9	100	29	6·2	5·5	237	26	7·6	6·7	229
0·9 „	26	7·7	4·8	253	25	7·0	5·8	121	14	6·7	6·4	113	30	4·9	3·6	119	29	7·0	6·3	247	20	6·4	5·7	239
1·5 „	26	5·7	3·2	289	23	6·1	2·8	151	10	4·9	2·2	123	29	5·1	2·0	157	29	7·4	6·3	240	18	5·9	5·1	233
2·1 „	25	5·7	2·9	326	21	8·1	3·0	260	7	9·8	6·4	280	28	6·3	2·0	247	29	6·7	5·1	240	14	4·1	2·6	213
3·0 „	21	6·4	4·0	014	13	8·1	5·6	285	6	15·5	15·4	284	25	6·8	5·9	275	29	7·3	4·5	229	10	4·5	3·8	166
3·6 „	16	7·7	5·3	006	10	7·1	5·5	282					21	8·5	5·8	282	29	6·2	3·7	216	8	5·1	3·8	170
4·5 „	1	5·7	5·7	075	5	6·1	5·3	275					20	7·4	5·7	290	29	5·5	2·9	222	7	5·1	2·8	184
5·4 „	1	7·7	7·7	075	4	4·4	3·6	270					13	4·4	3·0	293	27	5·5	2·1	251	5	4·9	2·7	166
6·0 „					3	3·2	1·0	246					9	4·0	3·1	301	27	5·1	0·9	276	5	5·5	2·5	139
7·2 „					1	7·2	7·2	115					3	6·0	3·1	333	26	4·7	0·9	060	2	6·7	5·2	160
9·0 „													1	9·8	9·8	360	16	5·5	3·1	068	1	1·0	1·0	055

Station	SANTA CRUZ								TEZPUR															
Time in I. S.T.	1730*				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5·7	5·4	258	30	4·0	2·9	221	30	0·7	0·4	088	15	1·5	0·9	110	30	0·6	0·4	084	30	0·6	0·5	080
0·15 a. g.	30	7·7	7·4	247	25	5·5	4·4	219	25	4·5	2·1	087	14	5·1	2·7	091	29	3·9	1·7	089	26	4·5	2·3	102
0·3 a. m. s. l.	30	7·8	7·2	248	25	6·0	4·9	226	25	5·2	1·9	111	14	5·0	2·7	092	29	4·1	1·9	091	26	4·6	2·2	109
0·6 „	30	8·2	7·6	244	24	6·7	5·7	237	24	5·3	1·1	197	14	5·3	2·7	092	29	3·6	0·7	165	26	3·9	0·5	150
0·9 „	30	8·7	8·2	245	20	7·3	6·2	231	22	5·8	2·4	244	13	6·3	1·2	122	29	4·2	2·1	214	26	4·0	1·5	230
1·5 „	30	8·4	7·5	241	15	6·2	5·1	230	15	6·5	3·9	238	11	6·3	2·0	184	27	5·3	4·2	234	23	6·5	4·0	236
2·1 „	30	7·6	6·0	235	10	4·5	3·0	190	11	7·3	4·3	230	8	7·6	2·6	266	25	7·4	5·4	239	15	7·2	6·0	233
3·0 „	30	8·0	5·6	232	8	4·4	2·2	160	6	6·5	4·2	260	2	9·5	7·5	263	20	7·9	4·8	239	9	8·4	5·7	238
3·6 „	30	6·5	4·3	220	3	4·1	0·6	052	3	6·0	1·7	035					15	7·3	3·1	228	3	4·1	2·1	209
4·5 „	30	5·3	1·7	265	1	6·7	6·7	350	3	6·7	1·2	079					8	5·2	2·1	217				
5·4 „	30	6·4	2·1	202					2	7·5	7·5	076					7	5·5	3·0	252				
6·0 „	30	6·3	1·0	154					2	7·2	6·7	046					7	6·0	3·9	245				
7·2 „	30	5·3	1·8	072													2	11·1	11·1	244				
9·0 „	20	6·8	5·3	062																				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

June 1960 (Jyaistha 11, —Asadha 9, 1882 Saka)

Station	TIRUCHIRAPALLI												TRIVANDRUM											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	7·3	7·3	270	30	9·1	8·7	269	30	8·4	8·3	270	30	2·4	2·3	317	30	4·1	3·9	314	30	5·4	5·2	305
0·15 a. g.	30	10·8	10·7	274	30	10·2	9·5	271	28	10·1	9·7	270	26	7·3	6·8	312	30	6·9	6·5	301	29	8·8	8·5	307
0·3 a. m. s. l.	30	11·7	11·6	275	30	10·4	9·8	272	28	10·7	10·4	270	26	7·6	7·2	309	30	7·7	7·4	301	29	9·0	8·9	306
0·6 ,,	30	16·5	16·4	275	30	10·7	10·5	274	28	12·5	12·4	270	26	9·9	9·8	296	30	9·8	9·5	301	29	11·2	10·9	301
0·9 ,,	30	16·0	15·8	275	30	11·1	10·9	272	28	12·5	12·1	273	26	11·0	10·9	297	28	12·3	11·9	300	29	12·0	11·9	302
1·5 ,,	30	11·1	11·0	269	29	10·8	10·6	272	28	9·7	9·4	279	26	12·0	12·0	296	15	13·4	13·2	297	29	13·2	12·9	299
2·1 ,,	30	8·6	8·2	269	28	9·4	8·7	272	27	8·2	7·7	280	26	12·6	12·3	289	9	14·0	13·5	299	28	13·1	12·5	297
3·0 ,,	27	7·3	6·6	277	21	7·4	6·9	281	20	6·5	5·7	279	26	11·7	11·1	283	3	9·1	7·4	289	28	12·4	11·5	286
3·6 ,,	21	6·4	5·8	274	17	6·7	6·3	287	13	4·8	3·9	269	26	9·7	9·2	279	3	10·1	7·8	287	28	10·7	9·6	285
4·5 ,,	17	5·2	3·9	283	16	5·0	4·5	309	5	4·2	0·9	046	26	8·4	7·6	278	1	11·3	11·3	225	28	8·1	6·7	278
5·4 ,,	10	4·9	3·1	309	16	5·8	4·6	315					24	6·4	4·7	285	1	9·8	9·8	240	28	8·1	4·5	292
6·0 ,,	4	5·1	2·9	301	12	6·6	3·9	321					24	5·9	3·2	286	1	9·8	9·8	255	28	7·2	2·7	299
7·2 ,,					10	3·9	1·0	030					24	5·9	1·5	302	1	2·1	2·1	225	26	6·9	1·4	319
9·0 ,,					5	5·8	4·9	096					23	8·2	5·0	079	1	4·1	4·1	055	23	7·7	3·5	096

Station	TRIVANDRUM				UDAIPUR												VENGURLA							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·4	2·2	325	30	1·5	1·1	238	30	2·0	1·5	240	30	1·6	1·4	223	30	1·7	1·4	252	30	2·8	2·3	250
0·15 a. g.	28	6·3	6·1	308	30	4·5	3·7	243	28	5·1	4·0	250	29	4·5	3·8	236	29	5·3	4·2	258	28	6·5	5·5	263
0·3 a. m. s. l.	28	7·4	7·2	306													29	6·4	5·5	262	28	8·2	7·4	261
0·6 ,,	28	10·2	10·1	300													29	8·5	7·7	264	27	9·7	9·2	259
0·9 ,,	25	11·6	11·5	300	30	5·3	4·4	251	28	5·9	4·8	254	29	5·5	4·4	240	15	11·2	10·8	264	22	10·1	9·5	257
1·5 ,,	24	12.4	12·3	299	28	4·8	3·0	259	28	4·7	3·5	257	29	7·1	5·1	252	5	5·6	5·5	264	11	9·4	9·0	262
2.1 ,,	20	13·5	13·4	292	25	4·9	1·9	190	28	4·5	2·3	254	29	5·1	1·6	264	2	2·6	2·5	179	8	6·5	5·7	265
3·0 ,,	13	10·8	10·4	284	16	4·9	1·3	154	26	4·6	0·4	275	26	5·6	2·3	084	2	4·1	4·1	190	4	4·8	4·3	230
3·6 ,,	6	5·1	4·9	274	11	5·6	2·1	161	24	5·8	0·6	055	23	5·9	2·6	079	1	6·2	6·2	210	2	3·9	3·9	202
4·5 ,,	6	3·5	2·7	287	1	3·1	3·1	120	22	5·8	0·9	343	15	5·4	3·0	073					2	6·7	6·4	220
5·4 ,,	2	3.6	1·4	033					19	5·6	3·7	339	6	5·1	4·6	051					2	4·6	4·5	221
6·0 ,,									17	5·7	5·7	333	2	9·3	8·7	061					2	3·1	1·7	231
7 2 ,,									17	6·5	2·3	003									1	1.5	1·5	106
9·0 ,,									10	5·1	2·0	038												

TABLE IV— MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

June 1960 (Jyaistha 11—Asadha 9, 1882 Saka)

Station	VENGURLA				VERAVAL																VISAKHAPATNAM			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·0	1·5	235	30	5·8	5·2	257	30	5·7	4·8	255	30	7·7	7·0	251	30	6·1	5·4	252	30	3·5	2·8	232
0·15 a.g.	28	5·3	4·2	249	30	7·3	6·6	253	28	5·3	4·7	243	30	8·7	7·9	246	28	6·3	5·6	241	29	5·0	4·2	236
0·3 a.m.s.l.	28	6·0	5·3	254	30	7·0	6·3	252	28	6·0	5·3	248	30	8·5	7·5	245	28	6·6	5·8	245	29	6·3	5·1	251
0·6 ,,	28	8·1	7·7	255	30	6·7	6·1	250	27	6·3	5·7	253	30	8·2	5·6	235	28	7·2	6·4	248	28	7·6	5·8	263
0·9 ,,	21	8·9	8·3	258	30	6·8	6·2	248	27	6·0	5·3	253	29	7·9	6·4	239	27	6·9	6·2	245	28	7·7	6·1	279
1·5 ,,	9	8·7	8·3	249	30	6·4	5·1	225	26	4·9	3·5	230	29	6·3	4·2	228	26	5·3	3·9	222	28	7·8	6·2	280
2·1 ,,	2	5·4	5·3	246	30	5·0	1·6	200	22	4·7	2·3	194	29	5·8	3·1	205	22	4·6	1·5	193	26	6·1	4·6	299
3·0 ,,	1	1·5	1·5	010	30	5·9	0·5	041	16	5·1	1·5	089	29	6·3	0·2	276	17	4·9	2·0	089	21	5·1	2·7	348
3·6 ,,	1	1·0	1·0	175	30	6·5	2·0	040	15	6·6	2·4	039	29	6·1	2·0	057	7	5·2	3·1	074	18	5·5	3·1	015
4·5 ,,					30	6·7	3·2	043	15	6·2	3·4	072	29	6·0	2·0	099	2	5·7	5·3	097	14	5·3	2·9	023
5·4 ,,					30	7·2	2·4	055	15	7·1	5·3	072	29	7·6	3·1	090					10	4·9	1·5	107
6·0 ,,					30	7·3	2·5	066	15	7·1	5·1	067	29	7·4	0·8	092					8	4·1	1·5	003
7·2 ,,					30	6·7	2·8	063	8	6·9	0·8	045	29	6·2	2·2	074					4	6·7	3·1	347
9·0 ,,					23	6·2	3·8	089	4	5·4	1·2	291	25	5·0	2·8	066					2	7·2	6·8	120

Station	VISAKHAPATNAM							
Time in I. S. T.	1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D
Surface	30	4·7	3·4	241	30	2·5	2·0	222
0·15 a.g.	29	5·9	4·3	231	29	4·9	4·1	235
0·3 a.m.s.l.	29	5·7	4·5	240	29	5·6	4·9	241
0·6 ,,	29	5·9	4·9	254	28	6·2	5·6	251
0·9 ,,	29	6·0	5·2	270	26	5·9	5·1	269
1·5 ,,	26	6·2	5·1	289	24	6·2	5·1	288
2·1 ,,	23	6·0	4·8	295	24	5·3	4·2	304
3·0 ,,	22	5·0	2·9	319	22	5·5	2·4	301
3·6 ,,	19	5·9	3·1	332	18	4·3	2·0	347
4·5 ,,	16	5·5	3·4	337	13	4·9	2·7	353
5·4 ,,	11	4·8	2·4	325	5	4·9	3·7	004
6·0 ,,	10	4·9	2·0	345	2	6·4	4·6	357
7·2 ,,	7	4·6	2·2	032				
9·0 ,,	3	6·5	6·5	088				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 km. above mean sea level

June 1960 (Jyaistha 11—Asadha 9, 1882 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA			
	1730 hrs.			
10·5	4	8·0	2·2	110
12·0	1	9.8	9·8	290
	AMBALA			
	0530 hrs.			
10·5	2	18·8	17·5	252
12·0	1	21·1	21·1	235
	ANANTAPUR			
	1730 hrs.			
10·5	1	2·6	2·6	220
	BAGHDOGRA			
	1730 hrs.			
10·5	1	8·2	8·2	270
12·0	1	10·3	10·3	245
14·1	1	12·9	12·9	260
16·2	1	3·1	3·1	220
18·0	1	6·7	6·7	095
	BAIRAGAGH			
	0530 hrs.			
10·5	1	2·1	2·1	025
	BAMRAULI			
	0530 hrs.*			
10·5	16	7·3	2·6	222
12·0	9	7·7	4·3	207
14·1	4	9·0	3·4	189
	1730 hrs.*			
10·5	19	8·3	3 4	213
12·0	11	8·0	3·6	187
14·1	5	9·8	6·7	149
16·0	2	15·2	14·9	135
	BANGALORE			
	530 hrs.			
10·5	1	11·8	11·8	110
	1730 hrs.			
10·5	1	6·7	6·7	340
12·0	1	11·8	11·8	055
14·1	1	9·8	9·8	090
	BAREILLY			
	0530 hrs.			
10·5	2	6·4	2·7	275
12·0	2	4·9	4·9	266
14·1	1	1·5	1·5	180

Ht. in Km.	n	V	v	D
	BAREILLY			
	1730 hrs.			
10·5	4	9·0	6·6	242
12·0	2	5·9	2·3	279
14·1	2	4·6	4·1	203
16·2	1	6·2	6·2	160
18·0	1	10·3	10·3	095
21·0	1	2·6	2·6	290
	BEGUMPET			
	1730 hrs.			
10·5	2	7·2	7·1	076
12·0	1	9·8	9·8	095
	BHAGALPUR			
	0530 hrs.			
10·5	1	8·2	8·2	090
	BIKANER			
	0530 hrs.			
10·5	1	7·7	7·7	195
	DARJEELING			
	0530 hrs.			
10·5	1	10·3	10·3	260
12·0	1	13·9	13·9	255
14·1	1	13·9	13·9	245
	DEHRA DUN			
	0530 hrs.			
10·5	1	9·8	9·8	245
	1730 hrs.			
10·5	2	23·2	21·9	265
	DUM DUM			
	0530 hrs.*			
10·5	13	8·0	6·6	108
12·0	10	11·0	8.7	100
14·1	6	12·1	11·2	085
16·2	3	22·5	22·3	090
18·0	1	12·4	12·4	075
	1730 hrs.*			
10·5	15	7·4	3·3	125
12·0	12	9·9	5·3	119
14·1	5	10·8	9·2	123
16·2	5	9·6	7·7	093
	GADAG			
	0530 hrs.			
10·5	1	8·7	8·7	070

Ht. in Km.	n	V	v	D
	GADAG			
	1730 hrs.			
10·5	1	9·8	9·8	085
	GANNAVARAM			
	0530 hrs.			
10·5	1	6·7	6·7	105
	1730 hrs.			
10·5	4	9·9	9·6	102
12·0	1	9·8	9·8	090
14·1	1	17·0	17·0	090
	GAUHATI			
	0530 hrs.*			
10.5	18	11·0	6·6	248
12·0	14	11·7	6·1	245
14·1	8	11·6	4·4	235
16·2	5	14·3	7·4	284
18·0	2	8·0	8·0	083
	1730 hrs.*			
10·5	16	9·4	6·1	254
12·0	16	10·0	6·1	252
14·1	8	9·3	2·0	090
16·2	2	6·2	5·7	255
18·0	1	8·2	8·2	295
21·0	1	4·6	4·6	115
24·0	1	7·7	7·7	050
	GAYA			
	0530 hrs.			
10·5	1	9·3	9·3	105
	GOPALPUR			
	0530 hrs.			
10·5	1	5·7	5·6	105
	GORAKHPUR			
	0530 hrs.			
10·5	1	4·6	4·6	140
12·0	1	8·2	8·2	150
	1730 hrs.			
10.5	2	4·9	4·0	244
12·0	1	10·8	10·8	255
	GWALIOR			
	0530 hrs.			
10·5	5	10·4	7·6	183
12·0	3	9·8	8·4	126
14·1	2	8·2	6·8	150

Ht. in Km.	n	V	v	D
	JAIPUR			
	1730 hrs.			
10·5	3	19·0	17·8	323
12·0	1	18·0	18·0	260
14·1	1	20·6	20·6	260
	JODHPUR			
	0530 hrs.*			
10·5	13	9·9	6·0	268
12·0	10	7·7	4·5	268
14·1	3	10·6	9·8	234
	1730 hrs.*			
10·5	11	8·2	5·1	305
12·0	5	7·6	3·0	287
14·1	1	5·1	5·1	270
	MADRAS			
	0530 hrs.*			
10·5	17	10·4	9·1	092
12·0	13	18·0	17·5	092
14·1	7	23·0	22·0	091
16·2	1	14·4	14·4	095
	1130 hrs.			
10·5	7	9·4	9·0	090
12·0	5	11·7	11·6	078
14·1	3	15·8	15·7	107
16·2	2	23·4	23·4	120
	1730 hrs.*			
10·5	13	10·0	8·2	090
12·0	9	16·8	16·4	082
14·1	6	26·8	26·3	089
16·2	2	30·3	30·3	098
	MINICOY			
	1730 hrs.			
10·5	1	10·8	10·8	080
12·0	1	28·8	28·8	080
14 1	1	27·2	27·2	110
	MOHANBARI			
	1730 hrs.			
10·5	2	12·4	8·7	254
12·0	2	15·2	12·4	271

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

June 1960 (Jyaistha 11,—Asadha 9, 1882 Saka)

Ht. in Km.	n	V	v	D
		NAGPUR		
		0530*		
10·5	20	8·3	5·8	087
12·0	18	10·2	8·6	093
14·1	11	15·6	13·9	113
16·2	6	16·3	15·7	088
18·0	2	11·6	11·3	085
21·0	1	12·9	12·9	070
		1730 hrs.*		
10·5	20	7·7	6·4	081
12·0	16	10·9	9·7	093
14·1	11	16·6	15·8	097
16·2	9	21·8	21·0	092
18·0	5	21·0	20·7	080
		NANPARA		
		0530 hrs.		
10·5	2	11·3	5·7	230
12·0	2	13·4	7·7	228
		1730 hrs.		
10·5	7	9·2	6·6	226
12·0	5	10·5	9·6	185
14·1	3	8·6	5·9	210
		NEW DELHI		
		0530 hrs.*		
10·5	30	12·9	10·6	260
12·0	30	13·8	11·9	258
14·1	27	13·1	11·5	257
16·2	11	10·5	5·3	283
18·0	7	9·3	7·1	082
		1730 hrs.*		
10·5	27	12·4	10·0	260
12·0	24	12·1	9·8	249
14·1	17	11·7	9·6	245
16·2	12	7·4	5·9	224
18·0	8	7·5	5·9	112
21·0	1	20·6	20·6	290
		PORT BLAIR		
		0530 hrs.*		
10·5	17	14·2	13·0	073
12·0	13	18·5	18·0	075
14·1	7	30·9	28·3	078
16·2	3	39·1	38·9	086
18·0	1	16·0	16·0	075

Ht. in Km.	n	V	v	D
		PORT BLAIR		
		1730 hrs.*		
10·5	21	12.7	11·8	075
12·0	20	20·6	19·6	074
14·1	15	31·2	30·4	069
16·2	7	28·5	28·0	085
18·0	2	27·5	27·1	102
21·0	1	15·4	15·4	090
		SANTA CRUZ		
		0530 hrs.*		
10·5	8	9·2	7·0	086
12·0	5	12·5	11·9	067
		1130 hrs.		
10·5	1	1·5	1·5	010
12·0	1	2·6	2·5	135
14·1	1	10·3	10·3	075
		1730 hrs.*		
10·5	15	8·9	8·5	080
12·0	7	10·6	9·3	091
14·1	3	20·1	19·1	088
16·2	2	25·5	25·5	105
		TIRUCHIRAPALLI		
		1730 hrs.		
10·5	2	11·6	11·4	104
12·1	1	10.3	10·3	120
		TRIVANDRUM		
		0530 hrs.*		
10·5	21	11·6	9·6	080
12·0	18	21·1	20·6	093
14·1	12	30·3	30·0	085
16·2	7	29·3	28·6	099
18·0	4	21·2	21·2	091
		1730 hrs *		
10·5	21	10·5	8·3	080
12·0	19	19·9	19·0	082
14·1	12	33·2	33·0	087
16·2	6	25·1	23·6	087
18·0	3	26·2	25·9	074
		UDAIPUR		
		1730 hrs.		
10·5	2	3·3	1·3	012
12·0	1	5·1	5·1	045
14·1	1	8·2	8·2	080
16·2	1	12·4	12·4	090
18·0	1	12·9	12·9	095

Ht. in Km.	n	V	v	D
		VERAVAL		
		0530 hrs.*		
10·5	17	7·4	4·8	083
12·0	5	10·7	5·5	060
14·1	1	11·8	11·8	095
		1130 hrs.		
10·5	2	3·1	1·4	033
		1730 hrs.*		
10·5	16	7·5	5·2	095
12·0	8	9·2	7·9	097
14·1	5	13·3	12·5	099
16·2	1	15·4	15·4	100
		VISAKHAPATNAM		
		0530 hrs.		
10·5	1	8·7	8·7	115
		1730 hrs.		
10·5	3	9·1	8·0	072
12·0	3	10·7	10·5	102
14·1	2	17·0	15·4	112
16·2	1	14·4	14·4	100

RADIOSONDE DATA

June 1960 (Jaistha 11 —Asadha 9, 1882 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 12 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type	1st October 1944	00 and 12	
2	Bombay	Clock type	7th September 1954	00 and 12	
3	Calcutta	Clock type	13th December 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
4	Gauhati	Clock type	22nd July 1955	00 and 12	
5	Jodhpur	Clock type	17th April 1946	00 and 12	
6	Madras	Fan type	29th June 1946	00 and 12	
7	Nagpur	Fan type	1st October 1946	00 and 12	
8	New Delhi	Clock type	3rd December 1943	00 and 12	
9	Port Blair	Fan type	4th December 1949	00 and 12	
10	Trivandrum	Fan type	1st July 1947	00 and 12	
11	Veraval	Fan type	3rd October 1944	00 and 12	
12	Visakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 0000 Hours G. M. T.

June 1960 (Jyaistha 11 —Asadha 9, 1882 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (987 mb.)						BOMBAY (1002 mb.)						CALCUTTA (999 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	98	303·8	308	299	294·1	29	13	299·3	302	297	296·8	29	6	301·1	305	299	299·4
1000	29	—22	..	..	..	..	29	31	..	..	..	..	29	0	..	..	..	..
900	29	924	302·7	308	297	288·8	29	956	295·0	297	293	291·9	29	928	296·8	301	294	293·5
850	29	1432	299·6	303	294	285·9	29	1452	292·3	295	289	289·0	29	1428	294·9	299	291	289·4
800	29	1964	295·9	301	291	283·8	29	1972	289·5	293	287	286·1	29	1952	292·4	297	288	286·7
700	29	3111	287·4	290	283	277·7	29	3099	284·0	288	281	279·8	29	3088	286·0	290	283	279·9
600	29	4395	278·7	283	275	270·9	28	4372	277·7	282	274	271.0	28	4367	278·3	282	276	271·4
500	29	5865	271·1	276	267	261·2	27	5840	270·5	275	268	..	28	5837	270·5	275	268	264.3
400	29	7610	262·4	267	258	..	27	7581	261·3	268	256	..	28	7580	261·8	268	259	..
300	27	9769	248·4	255	240	..	17	9732	248·1	253	243	..	18	9736	248·8	252	244	..
250	25	11083	240·6	247	237	..	13	11043	239·7	245	235	..	14	11047	240·1	244	234	..
200	20	12629	230·3	236	226	..	7	12549	227·7	233	223	..	9	12583	228·2	234	223	..
175	20	13524	224·1	231	219	..	..	..	..	..	..	..	8	13461	222·9	229	217	..
150	18	14517	217·2	226	213	..	..	..	..	..	..	..	7	14471	216·6	223	209	..
125	15	15686	210·8	221	205	..	..	..	..	..	..	..						
100	10	17019	203·2	215	198	..	..	..	..	..	..	..						
80	7	18352	203·1	215	196	..	..	..	..	..	..	..						

	GAUHATI (996 mb.)						JODHPUR (976 mb.)						MADRAS (1002 mb.)					
Surface	25	49	300·8	305	297	299·2	28	218	302·2	305	300	294·7	29	15	301·5	304	299	295·6
1000	25	14	..	..	..	..	28	—2	..	..	..	..	29	35	..	..	..	..
900	25	941	296·0	301	293	293·5	28	933	299·0	302	295	290·6	29	965	296·5	299	291	290·3
850	25	1437	293·2	296	290	290·8	28	1436	297.5	302	294	285·8	29	1461	293·6	296	287	288·3
800	25	1958	290·3	295	287	288·1	28	1965	295·4	301	293	281·1	29	1983	290·0	293	286	285·9
700	25	3087	284·4	288	279	281·9	28	3111	287·7	291	285	272·2	29	3110	283·3	287	278	279·4
600	25	4361	277·7	280	275	274·9	28	4396	278·7	285	275	261·9	29	4376	275·3	280	271	272·5
500	25	5829	270·0	274	266	270.6	28	5863	269·9	276	266		29	5826	267·1	271	261	
400	24	7565	260·4	265	254	..	28	7600	261·0	265	258		29	7537	255·8	264	249	
300	22	9718	247·9	253	239	..	21	9754	248·4	252	243		26	9623	240·5	247	233	
250	18	11030	240·3	245	236	..	15	11048	239·9	245	232		20	10872	229·7	239	224	
200	17	12571	230·6	237	226	..	8	12591	229·7	235	220		20	12330	216·4	223	203	
175	15	13474	224·8	231	220	..	5	13463	221·8	227	214		17	13176	210·3	221	203	
150	12	14466	218·7	225	214	..							14	14143	204·3	217	196	
125	10	15619	213·1	220	208	..							6	15278	199·8	202	197	
100	9	16967	207·6	217	202	..												
80	..	..	..	..	..	..												

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 0000 Hours G. M. T.

June 1960 (Jyaistha 11 —Asadha 9, 1882 Saka)

Standard Pressure Surface mbs.	NAGPUR Surf. Pr. (1008 mb.)						NEW DELHI (975 mb.)						PORT BLAIR (997 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature°A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	311	299·9	305	296	294·6	30	210	302·8	307	297	291·1	30	79	298·6	300	296	297·3
1000	29	6	..	..	..	..	30	—19	..	..	..	..	30	56	..	..	..	..
900	29	940	298·5	303	293	290·6	30	923	302·5	308	292	287·2	30	979	294·1	297	289	290·9
850	29	1441	296·0	301	291	288·2	30	1428	299·6	305	291	283·8	30	1473	291·5	296	287	287·7
800	29	1968	292·7	297	288	286·0	30	1960	296·0	301	290	281·6	30	1992	288 7	291	280	284·1
700	29	3106	284·9	289	280	279·5	30	3104	286·8	291	283	274·8	30	3115	283·0	288	275	276·6
600	29	4380	276·4	281	269	271·9	30	4381	277·1	281	273	262·7	30	4383	276·6	280	273	269·9
500	28	5835	268·1	273	262	..	30	5842	268·7	273	262	..	30	5839	268·2	271	259	..
400	28	7558	258·3	262	254	..	30	7572	260·1	266	256	..	29	7562	257·8	263	248	..
300	25	9677	244·1	248	240	..	30	9718	248·0	254	243	..	27	9681	243·5	251	233	..
250	22	10955	234·7	241	230	..	30	11022	238·8	244	233	..	25	10959	234·9	242	221	..
200	21	12453	222·9	233	216	..	30	12548	228·4	235	221	..	19	12429	221·7	233	211	..
175	18	13292	215·3	226	209	..	30	13429	222·0	228	207	..	13	13279	215·3	227	206	..
150	18	14262	207·5	218	201	..	29	14429	215·4	221	206	..	8	14283	210·0	220	198	..
125	18	15352	201·8	206	197	..	27	15552	208·7	219	198	..	7	15403	205·6	215	195	..
100	15	16682	198·1	202	195	..	27	16895	202·6	210	194	..						
80	10	17995	200·5	207	196	..	22	18228	201·7	207	195	..						

	TRIVANDRUM (1001 mb.)						VERAVAL (1001 mb.)						VISAKHAPATNAM (995 mb.)					
Surface	30	64	297·9	299	296	296·1	30	8	301·5	303	298	300·1	29	48	301·9	305	299	297·3
1000	30	72	..	..	..	..	30	19	..	..	..	..	29	3	..	..	..	..
900	30	993	292·5	296	289	289·7	30	945	295·1	299	293	291·1	29	940	299·0	304	294	290·8
850	30	1484	289·7	294	285	285·7	30	1440	292·5	295	289	287·6	29	1443	296·4	301	292	288·1
800	30	1999	287·1	291	282	281·9	30	1960	290·0	294	287	283·4	29	1970	292·7	297	289	286·0
700	30	3117	282·0	287	279	274·2	30	3088	284·6	290	281	267·3	29	3107	285·3	290	281	279·6
600	30	4381	275·7	279	271	263·7	30	4361	277·5	283	273	263·6	29	4382	276·6	281	272	271·7
500	30	5831	266·5	272	263	..	30	5823	269·0	274	260	..	29	5842	268·6	273	265	..
400	30	7539	256·1	263	251	..	30	7547	257·8	264	250	..	26	7568	258·5	265	251	..
300	29	9633	240·3	253	233	..	26	9661	242·5	252	237	..	20	9702	244·9	251	239	..
250	28	10892	229·9	247	221	..	19	10934	233·9	244	227	..	18	10984	234·3	241	229	..
200	27	12357	217·9	233	209	..	12	12437	222·7	236	210	..	15	12483	221·5	233	213	..
175	27	13190	211·3	222	201	..	7	13282	213·7	228	202	..	14	13305	213·6	217	206	..
150	26	14140	203·7	214	191	..	5	14209	206·2	215	196	..	11	14293	206·4	211	199	..
125	22	15229	200·7	210	192	..							9	15350	201·4	206	194	..
100	18	16524	198·7	206	193	..							7	16707	198·4	203	192	..
80	15	17857	202·5	212	193	..												

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 1200 Hours G. M. T.

June 1960 (Jyaistha 11—Asadha 9, 1882 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (984 mb.)						BOMBAY (1001 mb.)						CALCUTTA (997 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	98	311·7	317	302	292·3	30	13	302·5	306	299	297·5	29	6	304·2	308	299	298·8
1000	92	48	..	..	..	..	30	27	..	..	..	..	29	17	..	..	..	..
900	29	914	305·5	311	299	288·3	30	958	296·4	300	293	291·7	29	920	298·6	303	293	293·3
850	29	1426	301·4	307	295	286·2	30	1456	293·6	297	291	289·5	29	1420	296·3	301	291	289·2
800	29	1961	297·7	302	292	284·3	30	1979	291·1	294	288	287·0	29	1947	293·9	300	289	286·0
700	29	3113	288·9	295	285	276·9	30	3113	285·6	289	282	279·4	29	3088	287·3	292	283	278·6
600	29	4403	280·7	286	275	267·4	30	4394	278·9	283	270	272.5	28	4374	280·0	284	276	271·7
500	29	5883	272·7	276	267	259.0	30	5871	272.3	277	268	263.3	28	5851	271·5	275	268	259.8
400	28	7638	263·5	267	258	...	30	7624	263·3	269	259	..	27	7595	261·0	266	253	..
300	25	9808	250·3	255	247	..	21	9790	250·4	259	246	..	20	9747	248·1	252	242	..
250	24	11123	241·7	249	237	..	14	11096	241·2	246	236	..	17	11069	240·1	245	237	..
200	24	12670	231·1	237	227	..	12	12655	231·8	237	226	..	12	12607	228·1	235	224	..
175	22	13539	224·9	231	221	..	10	13537	225·4	230	219	..	7	13466	220·0	225	214	..
150	19	14569	217·9	225	213	..	5	14576	220·8	225	218	..	6	14462	214·2	220	209	..
125	15	15711	209·8	217	205	..							5	15580	207·6	217	202	..
100	14	17057	202·9	213	199	..												..
80	10	18389	204·0	212	196	..												

	GAUHATI (993 mb.)						JODHPUR (973 mb.)						MADRAS (1000 mb.)					
Surface	26	49	303·5	307	298	300·1	29	218	311·6	315	302	292·7	29	15	306·1	311	302	296·2
1000	26	11	..	..	..	..	29	33	..	..	..	..	29	18	..	..	..	..
900	26	925	297·8	301	294	295·1	29	930	305·7	311	300	289·2	29	961	299·9	305	297	291·7
850	26	1423	295·0	298	291	291·8	29	1441	301·1	307	297	285·9	29	1464	295·8	301	292	289·5
800	26	1948	292·0	296	287	289·0	29	1974	297·1	304	292	282·1	29	1989	291·3	296	288	287·5
700	26	3084	286·2	289	279	282·7	29	3125	288·7	294	284	272·8	29	3119	283·7	291	278	280·1
600	26	4366	279·5	283	274	274·5	29	4411	279·6	289	274	261·6	29	4385	276·0	281	271	272·6
500	25	5847	272·4	278	270	265.8	29	5886	271·8	280	267	251·3	29	5839	267·7	273	263	..
400	24	7597	263·3	266	260	..	29	7635	262·4	268	255	..	29	7558	256·8	263	248	..
300	20	9767	250·4	253	248	..	22	9803	249·4	253	242	..	18	9660	242·2	249	232	..
250	19	11080	241·1	244	238	..	18	11111	240·0	247	233	..	15	10914	230·8	236	218	..
200	17	12625	231·2	235	227	..	13	12644	228.5	233	222	..	12	12395	219·2	227	210	..
175	13	13522	224·1	227	218	..	11	13566	223·3	228	219	..	11	13244	211·2	219	199	..
150	11	14533	217·6	221	214	..	9	14570	217·0	221	214	..	9	14183	203·6	210	198	..
125	7	15679	211·7	215	207	..	7	15745	210.0	215	206		7	15271	200·9	205	195	..
100	5	17062	203·8	207	199	..	6	17113	204.7	210	197							..
80																		..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 1200 Hours G. M. T.

June 1960 (Jyaistha 11—Asadha 9, 1882 Saka)

Standard Pressure Surface mbs.	NAGPUR Surf. Pr. (963 mb.)						NEW DELHI (972 mb.)						PORT BLAIR (996 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	311	306·2	314	298	294·2	30	210	311·8	316	303	290·8	30	79	300·0	302	296	297·6
1000	30	26	..	..	..	..	30	43	..	..	..	..	30	46		..	..	..
900	30	923	303·0	309	295	289·9	30	915	307·0	312	299	286·9	30	971	294.7	299	291	291·5
850	30	1431	299·4	307	292	287·7	30	1428	302·7	307	297	284·2	30	1466	292·2	296	289	287·8
800	30	1962	294·9	303	288	285·9	30	1965	298·2	303	292	282·3	30	1986	289·4	292	285	284·5
700	30	3107	286·6	290	282	280·3	30	3117	288·8	292	282	275·7	30	3111	283·5	288	280	277·4
600	30	4388	277·8	282	273	271·3	30	4403	279·2	283	274	262·8	30	4381	276·7	280	271	270.2
500	29	5854	269·8	273	265	..	30	5873	269·6	275	263	260·8	30	5838	268·4	271	263	..
400	26	7583	259·6	267	253	..	30	7610	261·1	267	255	..	30	7564	258·3	262	252	..
300	22	9719	246·2	252	242	..	28	9764	248·3	255	244	..	28	9690	244·2	250	233	..
250	22	11018	236·2	246	228	..	28	11067	239·5	245	236	..	27	10971	235·1	245	220	..
200	20	12512	222·5	230	215	..	28	12599	228·6	235	222	..	23	12461	223·1	234	214	..
175	17	13370	216·4	224	207	..	27	13478	222·4	230	214	..	22	13313	216·1	227	202	..
150	17	14335	208·1	217	198	..	26	14479	215·9	223	208	..	19	14323	210·7	221	201	..
125	16	15423	201·7	206	195	..	24	15598	209·2	215	201	..	13	15391	202·8	209	197	..
100	14	16768	197·1	202	191	..	22	16940	202·4	209	194	..	9	16709	199·6	208	195	..
80	13	18087	199·3	205	192	..	19	18221	199·7	203	195	..						

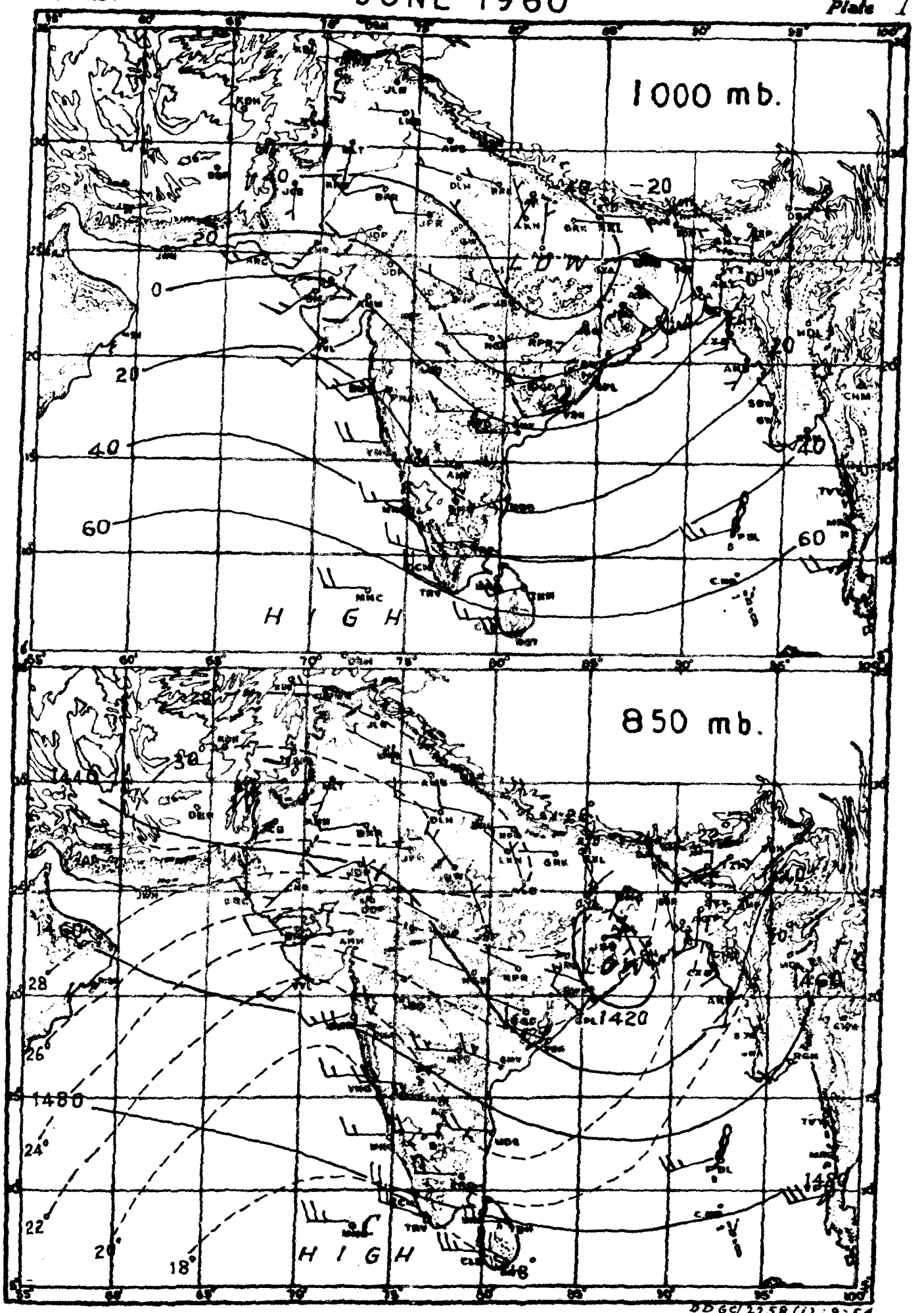
	TRIVANDRUM (1000 mb.)						VERAVAL (1001 mb.)						VISAKHAPATNAM (993 mb.)					
Surface	30	64	300·8	302	296	296·8	30	8	303·3	306	298	300·9	30	48	304·1	307	300	298·4
1000	30	66	..	..	..	..	30	19	..	..	..	..	30	—9	..	..	..	..
900	30	993	293·7	297	289	290·0	30	949	295·9	298	294	291·7	30	933	299·9	305	294	292·2
850	30	1486	291·0	294	287	286·1	30	1445	293·2	297	289	288·1	30	1439	296·6	303	291	290·3
800	30	2004	288·6	293	286	282·3	30	1971	290·7	295	287	284·8	30	1966	293·2	301	287	288·0
700	30	3127	283·4	289	279	274·9	30	3098	284·7	289	281	276·7	30	3105	285·8	293	281	280·5
600	30	4397	276·8	284	272	266·3	30	4372	277·6	283	274	267·1	30	4384	278·0	284	273	274·1
500	30	5855	268·1	275	264	..	30	5835	269·5	274	262	..	30	5852	269·5	274	263	..
400	30	7575	257·4	262	252	..	30	7565	258·5	265	246	..	30	7584	259·2	266	251	..
300	30	9682	241·7	247	233	..	27	9682	243·3	251	234	..	24	9721	244·7	251	237	..
250	27	10948	231·7	239	221	..	22	10961	233·7	244	226	..	20	11014	235·7	243	227	..
200	26	12424	219·8	229	210	..	16	12437	221·7	230	215	..	19	12518	223·3	233	213	..
175	24	13269	213·8	221	206	..	14	13303	215·8	224	207	..	17	13366	216·4	224	209	..
150	22	14232	206·1	213	197	..	10	14240	206·9	218	200	..	16	14352	210·1	219	204	..
125	19	15312	201·6	209	195	..	6	15338	202·2	214	194	..	13	15404	203·6	210	198	..
100	18	16661	199·6	205	189	..						..	12	16726	198·1	205	192	..
80	16	17957	202·8	213	194	..						..	5	17938	200·0	205	197	..

Note.—Number of observations refer to those of dynamic height.

Means are not worked out

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JUNE 1960



DDGC/2258(i):9:64

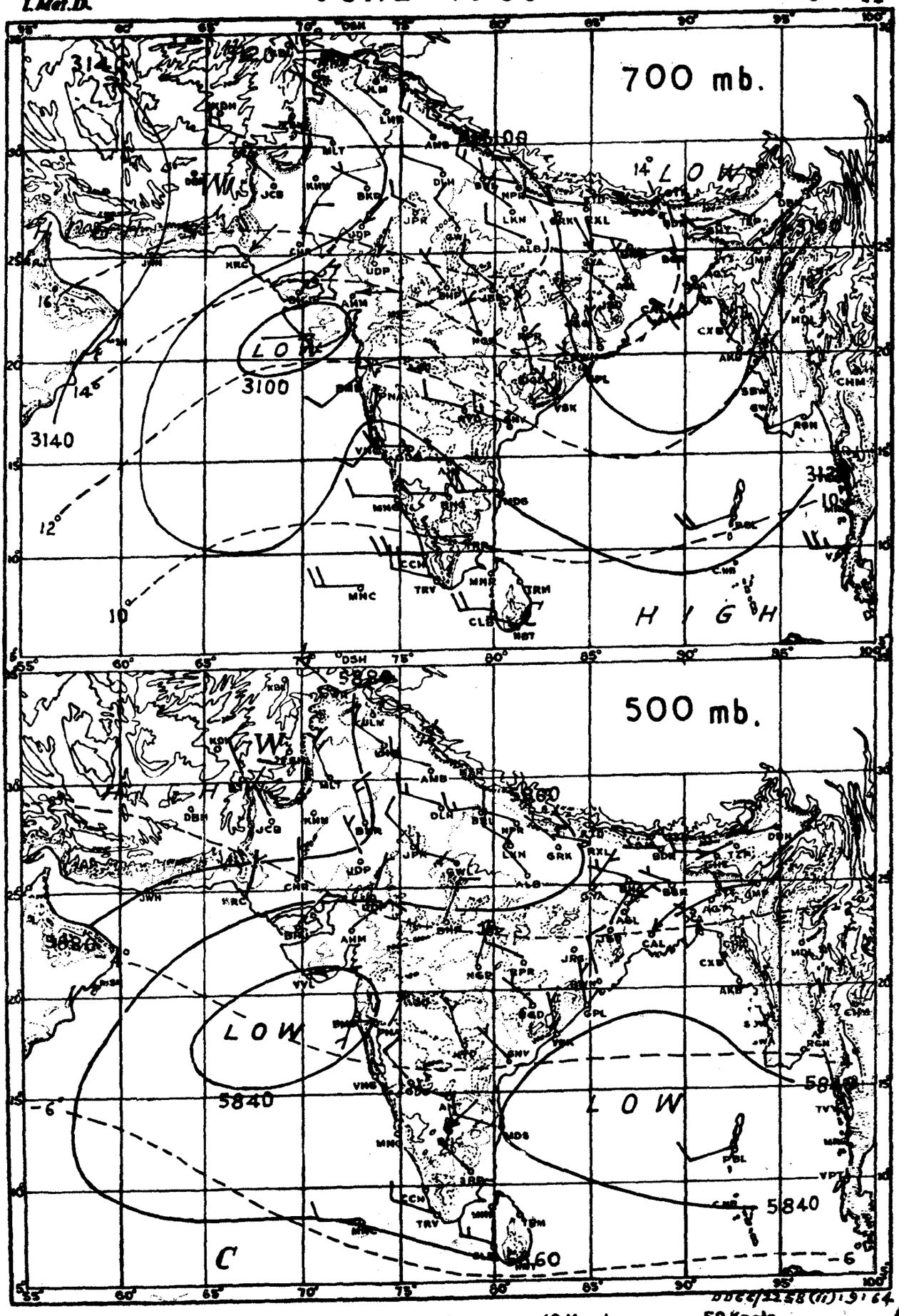
RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

------- Isotherms in degrees centigrade ——— Contours in geopotential metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JUNE 1960

I.Met.D. Plate II



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

-------- Isotherms in degrees centigrade ——— Contours in geopotential metres.

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INDIA WEATHER REVIEW, 1960

Monthly Weather Report

July.

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Chief features:

(i) Active monsoon during the first week followed by a 'break' in the monsoon during the second and early part of third week.

(ii) Re-establishment of active monsoon conditions during the last week of the month.

A depression had formed in the head Bay of Bengal on 30th June. It became deep by the morning of 2nd July and crossed Orissa coast between Chandbali and Puri the same evening. After moving in a westnorthwesterly direction, it weakened and merged into the seasonal trough over Gangetic Plain by 5th. Another shallow depression developed in northeast Arabian Sea close to Saurashtra coast on 3rd, moved slowly northwestwards and became unimportant by evening of 5th. Under the combined influence of these two depressions, active to vigorous monsoon conditions prevailed along the west coast and over the belt extending from Gangetic West Bengal and Orissa to Gujarat State during the first week of July. Mahabaleshwar reported 26 cm. of rain each on 2nd and 3rd July and 24 cm. on 4th. Veraval recorded 28 cm. and Porbandar 22 cm. on 3rd and Saugor Island 26 cm. on 4th. Severe floods were reported to have occurred in Saurashtra. After the second depression had filled up the monsoon trough shifted northwards resulting in 'break monsoon' conditions which lasted upto about 18th July. As usual, during this period, monsoon activity was confined mostly to the belt extending from the Punjab (I) to Assam. There were some heavy to very heavy falls of rain in this belt. Lucknow experienced over 31 cm. of rain on 11th (Raingauge of Lucknow city observatory overflowed after recording a rainfall of 30.7 cm. of rain. The exact amount of rain at that site is, therefore, not known. During the same period, the raingauge at Lucknow airport recorded 7 cm. of rain) and Nainital reported 21 cm. of rain on 18th.

Revival of monsoon activity over the country occurred after 18th. An easterly wave moved into southwest Bay of Bengal and shifted westwards as a low pressure area. It lay over southeast Arabian Sea off the Malabar-south Kanara coasts on 20th, gradually moved northwestwards along the west coast and filled up over the north Konkan coast by 25th. Another low pressure area developed over the head Bay of Bengal on 25th, moved inland and filled up over Rajasthan by 28th. In association with these low pressure areas, the monsoon was active over most of the country during the last week of the month. The monsoon was vigorous over coastal Mysore on 25th and 26th, over the Konkan on 26th and over south Gujarat State on 27th. Ratnagiri reported 18 cm. of rain on 25th.

The rainfall for the month was in large excess in the Madras State, in moderate excess in Uttar Pradesh, the Punjab (I), west Rajasthan, in slight excess in Assam, Gangetic West Bengal, Orissa, Saurashtra and Kutch, Deccan (including Marathwada) and south Interior Mysore. It was in slight defect in Bihar Plateau, Madhya Pradesh and coastal and north Interior Mysore, in moderate defect in the Bay Islands, Jammu and Kashmir, east Rajasthan and Telangana and in large defect in east Gujarat State. The rainfall was normal over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in west Madhya Pradesh, east Gujarat State, Deccan (including Marathwada) and north Interior Mysore, below normal in the Madras State and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in Jammu and Kashmir and north Interior Mysore, below normal in Rayalaseema and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in the Punjab (I), coastal Andhra Pradesh, the Madras State and south Interior Mysore, below normal in Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh.

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1—1 D.D.G. Obs. Poona/65

The mean cloud amount in the morning was above normal in Sub-Himalayan West Bengal, the Madras State and the Arabian Sea Islands and normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column. Similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

Poona-5,
The 31st March, 1961.

R. ANANTHAKRISHNAN,
for DIRECTOR GENERAL OF OBSERVATORIES.

Errata to M.W.R. for July 1960 (Asadha 10 - Sravana 9, 1882 Saka)

Page No.	Station	hour	Column	For	Read
Table I - Division					
343	8. Rajasthan		4	+0.1	-0.1
343	12. Madras State		4	33.0	33.1
343	12. Madras State		6	- 8	+ 8
Table I - Sub-division					
343	16. Madhya Pradesh (East)		2	+48.2	-48.2
343	20. Maharashtra (Including Marathwada)		4	-1.2	+1.2
Table II					
344	Tezpur		12	146.2	+46.2
344	Gauhati		12	481.7	+81.7
344	Goalpara		10	186.4	286.4
344	Tura		10	172.4	472.4
345	Jharsuguda		20(a)	1	..
345	Jharsuguda		20(b)	26	..
345	Jharsuguda		23	5	15
345	Jamshedpur		24	1	0
345	Forbesganj		24	12	0
345	Sabour		12	-50.8	+50.8
347	Khandwa		4	(Not clear)	37.8
348	Surendranagar		14	(Not clear)	28
348	(Foot Note)		-	(Not given)	(b) Meanof 29 days.
349	Nizamabad		1	Nioamabad	Nizamabad
349	Vellore		12	+190.5	+190.9
349	Belgaum		29	(Blank)	0
349	Mysore		12	-49.4	+49.4
350	Dalhousie		1	Dalhousie (R)	Dalhousie
351	Bagra Tawa		10	305.3	205.3
351	Chautara		6	18.0	19.0
351	Chautara		8	19.0	18.2
351	Geyzing		9	8,18	5,18
Table III					
352	Port Blair	0530	9	24.6	24.4
352	Port Blair	1130	7	28.9	28.6
352	North Lakhimpur	1730	25	0	1
352	Sibsagar	1730	5	989.8	989.3
352	Jorhat	0530	13	..	7.4
352	Jorhat	1130	5	992.8	992.0
352	Jorhat	1730	5	989.8	989.0
352	Tezpur (P.B.0)	0830	21	4	5
352	Tezpur (P.B.0)	2330	5	994.5	994.6
352	Tezpur (P.B.0)	2330	24	3	2
352	Majbat	0830	15	..	8.3
352	Majbat	0830	21	5	6
352	Majbat	1730	18	34	24
352	(Foot Note)	-	-	(a) Mean of 28 days.	(c) Mean of 28 days.
353	Goalpara	1730	4	999.3	999.5
353	Dhubri	0830	4	1003.5	1003.3
353	Agartala	0230	17	0	1
353	Kailashar	0530	4	1013.5	1003.5
353	Cooch Behar	0880	7	927.7	27.7
353	Jabalpur	1730	5	939.7	989.7
353	Bagdogra	0530	10	39.9	30.9
353	Bagdogra	0830	4	1002.2	1002.0
353	Bagdogra	0830	8	25.2	25.8
353	Bagdogra	1130	4	1002.5	1001,5
353	Bagdogra	1130	5	985.9	986.9
353	Bagdogra	1730	10	33.9	32.9
354	Dum Dum	1130	28	0	1
354	Sagor Island	0830	14	0.6	-0.6
354	Burdwan	0830	10	31.5	31.9
354	Bhubaneshwar	1730	27	0	1
356	Patna	0830	5	999.7	994.7

Contd.2

AERODROME FORECASTS

Issued by.....Meteorological Office at.....Time .....G. M. T. Date.....196.....By.....

Station Designator or Name	Time of Origin (G. M. T.)	Period of Validity (G. M. T.)	Time of latest Synoptic Chart used (G. M. T.)	Surface Wind Direction (Degrees True) Surface Wind Speed (knots) Gustiness (if forecast)	Surface visibility	Weather	Cloud		Mean Sea Level Pressure at ETA (mbs)	REMARKS
							Lowest Layer	Higher Layer		
							Amount and Type Height of Base Height of Tops	Amount and Type Height of Base Height of Tops		

Height Vertical distance from official aerodrome level.

GIPN—S4—90 D. D. G. Obs. Poona/59—30-1-62—57,50.000.

Page No.	Station	Hour	Column	For	Read
356	Sultanpur	1730	5	996.7	986.7
357	Banda	1730	8	22.6	27.6
357	Lucknow	0830	10	34.4	33.4
358	New Delhi	1730	4	985.4	995.4
358	New Delhi (Palam Aerodrome)	2030	13	(Not clear)	5.2
359	Barmer	1130	16	(Blank)	0
361	Ambikapur	1730	7	26.3	26.2
362	Deesa	1730	7	22.7	32.7
362	Mandvi	0830	8	26.6	26.5
364	Aurangabad	0830	15	11.1	11.1 (a)
364	Aurangabad	1730	15	24.4 (a)	24.4
364	Kolhapur	2330	25	15	12
365	Yeotmal	1730	18	81	31
365	Masulipatam	1730	8	27.7	26.7
365	Visakhapatnam	2330	4	"	1003.2
365	Hyderabad (Begumpet Aerodrome)	1130	17	11	16
366	Anantpur	2330	11	74	64
366	Mathurai	0830	7	26.2	28.2
366	Coimbatore (Peelamedu Aerodrome)	1130	25	0	4
366	Salem	0830	27	8	3
366	Salem	1130	25	1	12
367	Kallakurichi	0830	9	23.5	23.6
367	Vellore	2330	5	882.4	982.4
369	Bijapur	0830	7	28.9	23.9
368	Mysore	0830	24	6	9
368	Bangalore (Central Observatory)	0830	18	29	28
368	Port Cochin	0830	4	1008.3	1009.2
368	Cochin (Naval Air Station)	0230	4	1007.3	1008.3
368	Cochin (Naval Air Station)	0530	5	1000.8	1007.8
368	Cochin (Naval Air Station)	0530	8	23.6	23.9
368	Cochin (Naval Air Station)	2330	21	1	4
368	Kohima	0830	27	0	3
369	Cherrapunji	0830	19,20	3,0	0,3
369	Cherrapunji	0830	21,22	6,3	0,6
369	Cherrapunji	0830	26	2	3
369	Cherrapunji	1730	23	0	1
369	Darjeeling	0830	4	1470.5	1470.6
369	Mussooree	0830	5	791.8	791.6
369	Simla	0830	6	"	+0.8
369	Mercara	0830	11	59	95
369	Coonoor	0830	10	19.9	16.9
370	Bokaro	0830	26	0	1
370	Bokaro	1730	26	0	4
370	Hazaribag	0830	26	0	2
370	Ginabahar	0830	26	0	..
370	Bhimkund	0830	26	25	0
370	Tehri	1130	20	0	2
370	Tehri	1730	20	2	0

Contd.3

O. B. S. 467 (Small)

AERODROME FORECASTS

Issued by.....Meteorological Office at.....Time.....G. M. T. Date.....196.....By.. .....

Station Designator or Name	Time of Origin (G.M.T.)	Period of Validity (G.M.T.)	Time of latest Synoptic Chart used (G.M.T.)	Surface Wind Direction (Degrees True) Surface Wind Speed (Knots) Gustiness (if forecast)	Surface visibility	Weather	Cloud		Mean Sea Level Pressure at ETA (mbs)	REMARKS
							Lowest Layer	Higher Layer		
							Amount and Type Height of Base Height of Tops	Amount and Type Height of Base Height of Tops		

Height Vertical distance from official aerodrome level.

GIPN—S4—90 D. D. G. Obs. Poona/59—14-3-62—57,50,000.

Page	Station	Time in I.S.T	Height in Km.	Entry under column	Existing Entry	Correct entry
Table IV						
373	Dum Dum, Madras, New Delhi and Santa Cruz			Approximate times of flights (I.S.T.)	1130 2330	1130* 2330*
373	Visakhapatnam	-	-	-do-	0530	0530*
374	Agartala	1730	2.1	V	5.7	8.7
375	Anantapur	2330	Surface	v	4.4	4.9
375	Bairagarh	0530	0.6	D	252	253
375	Bairagarh	0530	0.9	V	7.5	9.6
378	Bikaner	1730	0.9	V	6.9	6.8
378	Cochin	1730	Surface	D	262	292
378	Dehra Dun	1730	2.1	v	3.2	2.3
378	Dehra Dun	1730	6.0	n V v D	Values slightly printed up.	
380	Gopalpur	0530	6.0	n V v D	-do-	
381	Jagdalpur	0530	9.0	v	12.0	12.9
383	Nagpur	1730	3.0	D	366	306
385	Tezpur	0530	3.0	n	1	2
388	Bamrauli	0530 and 1730	16.2	Ht. in Km.	16.0	16.2
388 and 389	Dum Dum, Madras, New Delhi and Santa Cruz.		-	Time of Ascent	1130 1730	1130* 1730*
388	Dum Dum	1130 and 1730	-	n V v D	Values printed for 1130 hrs* may be read for 1730 hrs* and vice-versa.	
RADIOSONDE DATA						
391	Gwalior	00 GMT	175 mb.	Ht. gpm	13500	13550
392	Nagpur	00 GMT	850 mb.	Dew Pt.	28.85	288.5
392	Nagpur	00 GMT	250 mb.	Ht. gpm	10946	10948

AERODROME FORECASTS

Issued by.....Meteorological Office at.....Time.....G.M.T. Date.....196.....By.....

Name or Location Indicator	Time of Chart on which Forecast is based (G.M.T.)	Period of Validity (G.M.T.)	Type and Time of Variation (G.M.T.)	Surface Wind Direction (Degrees True) Surface Wind Speed (knots) (Gustiness if forecast)	Surface visibility	Weather	Cloud		REMARKS
							Lowest Layer	Higher Layers	
							Amount and Type Height of Base Height of Tops	Amount and Type Height of Base Height of Tops	

Height—Vertical distance from official aerodrome level.

M10DGOB/61—2,41,500—30-4-63—GIPF.

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	463·2	116	31·2	25·2	88	83	6·9	6·2
	+62·7		−0·4	+0·1	+3		+0·3	
2. West Bengal	454·5	109	31·3	26·5	86	83	5·4	6·2
	+36·8		−0·6	−0·2	+2		−0·1	
3. Orissa	407·6	122	30·7	25·4	87	84	7·0	7·1
	+74·0		−0·5	−0·4	+5		+1·0	
4. Bihar	300·8	93	32·0	25·5	85	89	6·6	6·2
	−24·1		−0·1	−0·2	+3		+0·5	
5. Uttar Pradesh	441·7	119	33·2	26·1	95	75	5·8	6·0
	+70·5		−0·3	−0·2	+6		+0·3	
6. Punjab (India) (Including Delhi)*	263·5	134	35·2	27·3	79	65	4·5	4·5
	+67·5		−0·9	+0·5	+6		+0·2	
Sub-division								
1. Bay Islands	286·0	73	29·5	24·5	84	87	6·7	6·4
	−105·9		+0·7	+0·6	0		+0·1	
2. Assam (Including Manipur, Tripura)	463·2	116	31·2	25·2	88	83	6·9	6·2
	+62·7		−0·4	+0·1	+3		+0.3	
3. Sub-Himalayan West Bengal	602·8	95	30·8	25·7	87	81	6·9	5·9
	−29·4		−1·0	0	+3		+1·4	
4. Gangetic West Bengal	390·9	120	31·4	25·7	85	83	6·5	6·3
	+65·2		−0·4	−0·3	+2		−0·1	
5. Orissa	407·6	122	30·7	25·4	87	84	7·0	7·1
	+74·0		−0·5	−0·4	+5		+1·0	
6. Bihar Plateau	275·8	82	31·5	24·7	84	79	7·0	6·8
	−62·1		−0·1	−0·4	+2		+0·7	
7. Bihar Plains	316·4	99	32·4	26·2	85	79	6·3	5·7
	−0·4		−0·1	0	+3		+0·4	
8. Uttar Pradesh (East)	441·9	140	33·1	26·5	85	76	6·0	5·9
	+125·3		−0·3	+0·1	+5		+0·4	
9. Uttar Pradesh (West)	441·3	144	33·3	25·8	82	75	5·7	6·0
	+133·9		−0·3	−0·2	+5		+0·4	
10. Punjab (India) (Including Delhi)	263·5	134	35·2	27·3	79	65	4·5	4·5
	+67·5		−0·9	+0·5	+6		+0·2	
11. Himachal Pradesh.	584·1	..	32·1	23·3	87	71	6·1	5·7
	..		..	..	..		..	
12. Jammu and Kashmir.	28·1	63	27·9	15·9	51	41	3·9	3·7
	−16.4		+0·1	+1·8	−15		+0·3	
13. Rajasthan (West)	110·8	141	36·9	27·2	73	51	4·3	4·3
	+32·2		−0·5	0	+5		+0·2	
14. Rajasthan (East).	157·7	70	33·4	25·6	75	60	5·8	6·1
	−68·5		+0·1	+0·2	+1		+0.4	
15. Madhya Pradesh (West)	279·3	79	32·0	24·1	82	64	6·6	7·1
	−72·2		+1·2	+0·1	−1		+0·3	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
7. Jammu and Kashmir	28·1	63	27·9	15·9	51	41	3·9	3·7
	−16·4		+0·1	+1·8	−15		+0·3	
8. Rajasthan	134·2	116	34·9	26·3	75	55	5·1	5·3
	+18.1		+0·1	+0·1	+3		+0·3	
9. Madhya Pradesh	311·7	83	31·4	24·0	84	70	6·7	7.2
	−62·3		+0.1	+0·2	+1		+0·3	
10. Maharashtra	393·1	96	31·3	25·0	86	69	6·5	6·9
	−15·2		+0·8	+0·1	+3		−0·1	
11. Andhra Pradesh	204·9	100	33·0	24·0	78	68	6·4	6·3
	+1·3		−0·1	−0·3	+5		+0·1	
12. Madras State	145·9	261	33·0	27·0	75	64	6·2	6·6
	+90·4		−1·3	−0·3	−8		+1·4	
13. Mysore	346·0	90	27·3	20·5	81	64	6·4	6·5
	−38·5		+0·7	+0·6	+4		+0·5	
14. Kerala	575·4	107	28·9	23·4	90	86	6·9	7·3
	+37·4		+0·5	−0·7	+1		+1·0	
Sub-division—*Contd.*								
16. Madhya Pradesh (East).	357·9	88	30·5	23·8	86	79	6·9	7·4
	+48·2		+0·8	+0·3	+4		+0·3	
17. Gujarat	143.2	44	33·0	25·2	84	67	6·2	6·7
	−179·9		+1·2	+0·1	+1		−0·7	
18. Saurashtra and Kutch	249·5	118	33·0	25·9	85	74	5·8	6·3
	+37·9		+0·5	−0·1	+4		−0·4	
19. Konkan	704·9	92	29·9	25·2	87	83	6·8	7·3
	−60·5		+0·5	+0·2	+3		−0·2	
20. Maharashtra (Including Marathwada)	379·6	116	30·5	25·0	86	67	6·7	6·9
	+52·7		+1·2	+0·3	+4		+0·1	
21. Vidarbha	310·9	98	31·7	23·5	65	71	7·1	7·3
	−7·3		+0·5	−0·3	+5		+0·8	
22. Coastal Andhra Pradesh	285·3	109	32·9	25·8	80	71	6·6	6·2
	+23·3		−0·7	−0·3	+7		+0·2	
23. Telangana	125·6	65	31·7	24·1	78	63	6·4	6·6
	−66·5		+0·9	+0·9	+1		+0·1	
24. Rayalaseema	96·8	103	34·7	22·9	71	55	5·9	6·1
	+2·6		+0·5	−1·8	+3		−0.3	
25. Madras State	145·9	261	33·1	27·0	75	64	6·2	6·6
	+90·0		−1·3	−0·3	+8		+1·4	
26. Coastal Mysore,	868·1	84	29·0	23·5	91	85	7·5	7·5
	−159·5		+0·5	−0·1	0		+0·5	
27. Interior Mysore, (North)	150·2	79	30·9	22·7	87	63	6·8	7·0
	−41·0		+1·2	+1·3	+3		+0·8	
28. Interior Mysore (South)	248·1	114	28·6	25·2	86	69	6·9	6·8
	+30·2		+0·3	+0·9	+7		+0·1	
29. Kerala	575·4	107	28.9	23·4	90	86	6·9	7·3
	+37·4		+0·5	−0·7	+1		+0·1	
30. Arabian Sea Islands	257·3	97	29·7	25·3	81	78	4·7	6·8
	−9·8		+0·1	+0·2	−1		+1·0	

NOTE :—The entries in the second line for each division and sub-division indicate departures from normal.
*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	30·0	..	32·8	21	24·8	..	22·9	26	210·2	401·0	..	97.2	26	18	..	10·6	9·4	..	0	22	0	0	5	0	0	0	0	0	0
Long Island	30·3	..	33·1	22	24·6	..	20·4	26	109·9	326·2	..	70·4	28	11	..	1·9	1·2	..	0	14	0	0	0	0	0	0	0	0	0
Port Blair	29·5	+0·7	31·6	22	24·5	+0·6	22·1	25	88·0	286·0	−105·9	44·6	23	15	−5·5	15·4	11.9	−13·7	1	21	0	0	4	0	0	0	0	0	0
Car nicobar	30·1	..	31·2	21	24·1	..	22·8	5 days	109·3	235·9	..	111·4	22	11	..	6·9	4·6	..	1	20	0	0	1	0	0	0	0	0	0
Nancowry	29·7	..	30·8	11, 21	25·3	..	22·7	23	119·3	232·8	..	40·3	23	15	..	..	..	..	0	18	0	0	1	0	0	0	0	0	0
Kondul	29·2	..	30·6	3, 4	24·5	..	22·8	25	157·2	272·0	..	33·6	7	20	..	8·5	6·7	..	0	25	0	0	4	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	28·9	..	36·6	3	23·2	..	21·1	9	414·5	1296·8 (a)	..	197·8	9	26	..	3·6	2.8	..	0	29	0	0	1	0	0	0	0	0	0
Digboi	31·2	..	38·3	4	23·8	..	21·0	21 31	102·6	564·4	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Dibrugarh	30·7	0	36·7	3	24·3	+0·2	22·3	9	111·7	676·3	+139·8	89·5	9	24	+2·7	3·6	3·0	+1·4	2	27	0	0	6	0	0	0	0	0	0
Dibrugarh (Mohanbari Aerodrome)	30·9	..	36·0	3	24·2	..	22·3	9	111·6	603·6	..	125·8	9	23	..	1·4	1·2	..	1	29	0	0	7	0	0	0	0	0	0
North Lakhimpur	31·0	..	36·6	3	24·7	..	23·6	3	118·9	800·8	..	132·8	31	20	..	..	.	..	1	27	0	0	8	0	0	0	0	0	0
Sibsagar	32·2	+0·4	36·9	3	25·4	0	24·5	13	40·9	536·4	+79·5	139·5	3	23	3·3	6·3	5·8	+2·3	0	25	0	0	0	0	0	0	0	0	0
Jorhat	32·2	..	36·1	3	24·8	..	22·3	17	103·1	342·6	..	47·0	29	19	..	..	..	..	0	26	0	0	9	0	0	0	0	0	0
Golaghat	32·9	..	36·7	3	25·1	..	23·6	9	23·4	243·6	..	38·0	6	18	..	..	..	..	0	20	0	0	0	0	0	0	0	0	0
Gohpur (R)		..																											
Tezpur	31·4	−0·5	35·6	3	25·3	0	23·9	5 days	34·9 (b)	393·9	146.2	80·6	8	20	+3·1	3·5	4·1	+1·4	0	23	0	0	0	0	0	0	0	0	0
Tezpur (P.B.O.)	31·5	..	35·7	3	25·1	..	23·2	23	38·5	393·5	..	82·0	8	21	..	..	..	..	0	24	0	0	6	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	65·4	412·8	..	96·0	3	18	..	7·8	5·4	..	1	25	0	0	9	0	0	0	0	0	0
Chaparmukh (R)																													
Tangla	32·2	.	36·4	2	25.0	..	20.9	8	43·5	353·9	..	54·8	9	15	..	3·1	1·7	..	0	16	0	0	1	0	0	0	0	0	0
Gauhati	31·7	−0·4	36·7	3	25·9	+0·2	24·6	9,17	74·7	393·6	481·7	72·9	7	15	−0·3	1·1	1·2	−1.1	0	19	0	0	1	0	0	0	0	0	0
Gauhati (Bhorjor Aerodrome)	31·6	..	35·9	2	25·7	..	24·4	20	52·2	445·5	..	63·4	26	21	..	6·4	4·7	..	1	25	0	0	10	0	0	0	0	1	0
Rangiya	32·6	..	37·2	6	24·3	..	21·9	9	45·0	435·5	..	85·0	18	16	..	7·5	5·2	..	0	16	0	0	0	0	0	0	0	0	0
Goalpara	31·6	..	35·9	2,3	24·5	..	21·2	4, 9	186·4	646·6	..	204·0	4	19	..	..	..	..	0	21	0	0	0	0	0	0	0	0	0
Dhubri	30·3	+0·3	33·9	3	25·9	+0·2	24·1	21	191·0	593·1	+156·5	112·8	22	18	+1·9	2·6	2·0	−4·0	0	20	0	0	0	0	0	0	0	0	0
Dhubri (Rupsi Aerodrome)	31·2	..	35·1	2	25·2	..	23·2	22	193·1	582·9	..	141·0	18	19	..	7·5	5·0	..	1	23	0	0	9	0	0	0	0	0	0
Tura	28·5	..	31·1	1,2	20·6	..	19·4	19	172·4	1044·4	..	117·4	10	26	..	7·6	7·6	..	0	28	0	0	0	0	0	0	0	0	0
Agartala	30·4	..	34·7	1,2	24·5	..	23·3	8,14	162·7	587·6	..	108·2	11	20	..	13·5	11·0	.	1	26	0	0	8	0	0	0	0	0	0
Kailashar	31·1	..	35·5	1	24·7	..	23·5	13,21	147·4	398·1	..	66·1	19	24	..	8·4	6.1	..	0	28	0	0	14	0	0	0	0	0	0
Silchar	29·6	−2·7	33·4	1	24·6	−0·5	22·6	23	236·4	559·0	+37·8	81·6	19	27	+4·3	3.1	1.8	−0·9	0	30	0	0	3	0	0	0	0	0	0
Silchar (Kumbhigram Aerodrome)	31·0	..	35·6	1	24·1	..	22·7	19	183·0	508·6	..	82·2	19	27	..	6·3	5·7	..	1	29	0	0	4	0	0	0	0	0	0
Imphal	27·9	..	30·8	1	21·8	..	20·2	11	139·7	243·0	..	54·0	3	17	..	9·6	6·8	..	0	24	0	0	5	0	0	0	0	0	0
Haflong	27·0	..	31·9	2	21·2	..	20·1	15	96·8	410·8	..	119·9	22	22	..	..	..	..	0	25	0	0	1	0	0	0	0	0	0
Lumding	32·8	−0·1	35·8	2,3	25·0	+0·3	23·6	19	18·4	90·4	−102·4	31·0	19	8	−3·5	6·6	4·2	..	0	10	0	0	3	0	0	0	0	0	0
Sub-Himalayan West Bengal																													
Cooch Behar	30·9	..	34·2	2,3	25·1	..	22·7	8	188·0	743·8	−42·8	182·8	9	22	+1·5	5·5	3·5	..	0	23	0	0	13	1	0	0	0	0	0
Jalpaiguri	29·6	−1·8	32·9	3	25·3	+0·1	23·9	18	190·2	741·0	−77·4	124·2	22	16	−6·3	10·8	8·2	+5·0	0	23	0	0	10	0	0	0	0	0	0
Bagdogra	30·5	..	34·4	3	24·6	..	21·6	21	188·6	1002·8	..	208·3	17	26	..	13·6	11·3	..	1	28	0	0	9	0	0	0	0	0	0
Malda	31·9	−0·2	35·6	1	26·1	0	24.2	12	186·2	323·6	+32·0	109·4	11	13	−1·8	10·1	8·4	−0·1	0	18	0	0	6	0	0	0	0	0	0
Gangetic West Bengal.																													
Dum Dum	31·4	..	34·1	22	25·6	..	24·2	5	250.0	528·7	..	97·9	4	18	..	12·5	10·3	..	1	24	0	0	7	0	0	0	0	0	0
Calcutta	31·5	−0·4	34·5	1	26·1	+0·2	24·1	12,13	238·4	584·9	+259·5	95·6	5	19	+1·5	12·7	8·8	+2 8	0	23	0	0	8	0	0	0	0	3	0
Barrackpore (Aerodrome)	31·6	..	34·4	1	25·3	..	23·7	12	170·4	460·5	..	82·8	3	20	..	..	..	..	0	26	0	0	10	0	0	0	0	0	0
Sagour Island	30·1	−0·7	34·9	26	26·2	−0·5	16·2	13	190·3	508·6	+116·4	256·8	4	15	−1·5	31.5	31.0	+11.5	1	21	0	0	1	0	0	0	0	2	0
Sandheads	30·5	..	32·9	21	26.0	..	17·2	2	185·0	348·3	+70·2	125·6	4	13	+0·3	..	..	..	0	19	0	0	1	0	0	0	0	0	0
Contai	30.3	.	31·8	10,21	26·1	..	23·9	12,13	109·2	264·6	..	73·0	5	13	..	17·3	14·5	..	0	18	0	0	0	0	0	0	0	0	0
Midnapore	31·3	−0·8	34·6	21,22	25·4	−0.7	22·4	17	213·4	367·7	+44·1	74·5	17	17	+0·7	7·3	6·0	+2·0	0	20	0	0	1	0	0	0	0	0	0
Purulia	31·3	..	34·8	1	24·9	..	23·2	17	144·8	243·3	..	71·2	4	14	..	8·8	6·9	..	0	17	0	0	0	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	272·4	−57·3	35·0	10	18	+2·3	..	..	..	0	21	..	..	..	..	..	..	..	..	..
Burdwan	30·2	−2·1	..	..	25·7	−0·4	22·9	12,13	88·5	330·5	+5·4	52·5	11	15	−1·0	10·0 (b)	7·5 (b)	+3·3	0	17	0	0	0	0	0	0	0	0	0
Krishnagar	32·0	−0·2	34·8	23	25·8	−0·1	23·9	18,19	165·0	447·4	+161·7	83·4	12	18	+1·7	7·9	6·4	+0·6	0	24	0	0	3	0	0	0	0	0	0
Asansol	31·7	−0·4	36·1	1	25·7	+0·3	23·4	19	141·9	251·3	−96·4	38·5	6	19	+1·3	11·0	8·7	+0·8	1	22	0	0	12	0	0	0	0	0	0
Suri	31·9	..	35·8	2	25·5	..	22·0	4	163·6	296·0	..	44·6	11	17	..	12·5	10·6	..	0	24	0	0	6	0	0	0	0	0	0
Berhampore	32·0	−0·1	34·5	1	25·9	−0.2	24·4	19	95·8	304·0	+27·9	50·3	17	18	+1·9	3·3	2·2	−3·3	0	20	0	0	1	0	0	0	0	0	0
Orissa																													
Baripada (R)																													

(R) = Register not received. (a) Total for 30 days. (b) Total or Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 mm. and 0·2 m)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a	20(b	21	22	23	24	25	26	27	28	29
Orissa—(*Contd.*)																														
Balasore	30·9	—0·8	34·2	19	25·8	0	23·4	13	160·1	213·6	—81·1	56·2	13	13	—1·1	18 3	11 3	+4·4	0	18	0	0	4	0	0	0	0	0	0
Chandbali	31·0	—0·2	35.0	23	24·6	—1·0	22·2	13	223·9	440·2	+15·0	81·8	1	16	—0·8	13·2	12·2	+0·8	0	21	0	0	1	0	0	0	1	0	0
Cuttack	31·3	—0·6	35·6	23	25·4	—0·3	23·0	13	242·3	487·0	+159 6	126·6	7	20	+4·1	9·5	7.5	+3·3	0	23	0	0	3	0	0	0	0	0	0
Bhubaneswar	30·6	..	33·9	23	25·1	..	20·4	14	181·3	384·3	..	93·2	1	16	..	21·4	18·0	..	2	22	0	0	9	0	0	0	0	0	0
Puri	30·3	—0·4	33·5	31	27·0	+0·4	24·1	7,26	104·4	336·7	+74 6	138·0	1	13	+1·0	26·5	26.1	+7·9	0	17	0	0	1	0	0	0	1	0	0
Gopalpur	30·1	—0·8	32·3	23	25·9	—0·3	22·9	26	176·0	286·7	+104·8	80·0	2	11	+1·3	22·0	19·3	+5·0	2	15	0	0	4	0	0	0	0	1	0
Koraput	25·8	..	31·1	22	20·6	..	16·7	25	207·2	431·7	..	52·8	27	14	..	..	..	..	0	14	0	0	0	0	0	0	0	0	0
Titilagarh	31·8	..	35·1	19,20, 24	23·8	..	22·3	26	240·2	407·2	..	60·2	2	18	..	5·1	3·9	..	0	18	0	0	0	0	0	0	0	0	0
Bolangir	30·9	..	34·8	23	24·4	..	22·7	8,20	202·0	497·4	..	73 4	26	15	..	4·3	3·7	..	0	19	0	0	0	0	0	0	0	0	0
Phulbani	29·4	..	32·8	19	23·1	..	20·4	24	163·1	483·2	..	72·8	1	20	..	7·0	4·3	..	0	21	0	0	5	0	0	0	0	0	0
Angul	30·9	—0·3	35·6	11	24·8	—0·3	22·8	13	167·3	546·2	+229·5	96·5	22	19	+3·8	8·8	6·7	—1·3	0	21	0	0	10	0	0	0	0	0	0
Keonjhar	29·4	..	32·7	22	23·2	..	20·9	12	91·2	177·1	..	25·9	31	15	..	11·3	8·7	..	0	22	0	0	1	0	0	0	0	0	0
Sambalpur	30·5	—0·2	34·6	2	24·0	—1·1	21·9	22	194·6	527·7	+5·5	79·3	7	24	+4·4	10·1	8·3	+2·0	0	27	0	0	7	0	0	0	0	0	0
Jharsuguda	30·8	..	35·4	2	24·2	..	21·7	19	225·1	655·3	..	..	..	..	..	(a) 12·9	(b) 10·2	..	1	26	0	0	5	0	0	0	0	0	0
Bihar Plateau																														
Jamshedpur	31·8	0	35·0	1	25·7	—0·2	23·7	12	187·0	258·3	—76·0	58·8	4	16	—1·4	11·6	8·6	+1.8	1	24	0	0	4	1	0	0	0	0	0
Jamshedpur (P.B.O.).	31·5	..	35·1	1	25·0	..	22·9	22	190·9	255·8	..	66·9	4	16	..	10 8	8·0	..	2	24	0	0	9	0	0	0	0	0	0
Chaibasa	31·4	—0·5	35·0	1,2	25·0	—0·3	23·2	12	133·2	167·7	—165·3	58·8	4	14	—2·2	5·7	4·3	+0·3	0	22	0	0	0	0	0	0	0	0	0
Ranchi	29·7	+0·6	33.9	2	21·9	—1·0	15·7	11	199·7	317·3	—75·1	76.8	11	16	—2·5	9·6	7·5	—0·5	0	18	0	0	2	0	0	0	0	0	0
Ranchi (C.W.O.)	28·7	..	32·5	24	22·7	..	20·8	20	(h) 187 5	302·4	..	47.9	6	14	..	(h) 10·9	10·7	..	1	21	0	0	1	0	0	0	0	0	0
Daltonganj	33.0	+0·2	36·5	24	25·2	—0·4	21·5	5	159·6	362·6	+22·2	49·4	16	19	+3·4	..	..	..	0	23	0	0	0	0	0	0	0	0	0
Hazaribagh	29·5	—0·1	34·4	1	23·1	—0·2	21·4	20	160·7	307·6	—23·4	53·6	4	19	+1·2	11·3	9·1	—0·7	1	22	0	0	15	1	0	0	0	0	0
Dhanbad	31·1	..	35·6	1,2	24·6	..	22·5	17	197·4	375·5	..	68·7	19	20	..	11·5	(a) 8·2	..	0	27	0	0	14	0	0	0	0	0	0
Dumka	31·7	—0.2	35.6	23	24·5	—1.1	22·8	4	154·0	283·0	—68·0	59·0	10	13	—5·0	8·5	7·8	+4·1	0	20	0	0	2	0	0	0	0	0	0
Bihar Plains																														
Purnea	32·1	+0·1	35·8	2	25·4	—0·5	23·1	16	178·0	475·8	+112·1	90·2	9	19	+2·4	7·2	3·9	—0·3	0	23	0	0	7	0	0	0	0	0	0
Forbesganj	32·7	..	37·4	2	25·1	..	23·3	21	84·8	339·6	..	67·2	18	20	..	11·0	8·1	..	0	22	0	0	8	12	0	0	0	0	0
Darbhanga	33·1	+1·0	37.7	2,3,4	26·4	+0·1	24·2	19	38·7	247·9	—60·0	81·2	10	12	—1·9	10·6	7·9	+2·3	0	16	0	0	6	0	0	0	0	0	0
Motihari	30·8	—1·5	36·1	2	26·3	+0·4	23·3	20	76·1	268·2	—112.8	87·0	10	15	+0·9	(a) 3·9	(a) 3·0	—4·2	0	16	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..		..	321·9	—2·7	110·5	9	12	—2·0	..	..	..	0	12	0	0	0	0	0	0	0	0	0
Chapra	32·7	..	39·5	2	26·0	..	20·2	5	71·6	223·6	—83·0	44·1	11	15	+1·2	4·1	3·3	..	0	17	0	0	3	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	194·3	—136·4	29·4	15	13	—1·5	..	..	..	1	16	0	0	0	0	0	0	0	0	0
Patna	32·6	0	39·1	2	26·6	0	24·2	19	222·3	418·6	+124·5	104.9	10	15	+1·3	8·3	8·0	+1·1	1	18	0	0	1	0	0	0	0	0	0
Patna (Aerodrome)	32·6	..	38·8	2	26·4	..	21·1	11	74·4	238·0	..	45·6	10	13	..	10·3	8·0	..	1	18	0	0	3	0	0	0	0	0	0
Dehri	33·0	..	40·0	2	26·4	..	23·8	28	116·7	344·5	+51·9	64·8	18	16	+1·8	11·2	7·0	..	0	20	0	0	5	0	0	0	0	0	0
Gaya	33·1	—0·3	39·2	2	26·2	+0·3	23·8	19	(a) 134·4	248·0	—87·5	90·8	10	0	..	(a) 14·6	(b) 11·3	+2·1	..	..	0	0	11	0	1	0	0	1	0
Jamui	32·9	..	38·6	1	26·0	..	22·8	11	69·4	292·2	..	51·0	10	12	..	8·0	6·2	..	0	16	0	0	0	0	0	0	0	0	0
Bhagalpur	32·7	..	36·7	1,2	25·4	..	23·5	20	77·6	296·5	..	78·6	16	13	..	8·4	6·2	..	1	18	0	0	12	0	0	0	0	0	0
Sabour	32·5	+0·1	36·4	1	26·2	—0·1	23·9	9	77·0	303·8	—50·8	117·8	16	11	—4·1	10·8	6·9	2·8	1	19	0	0	7	0	0	0	0	0	0
Uttar Pradesh (East)																														
Gonda	32·9	0	38·1	3	26·5	+0·2	23·9	31	125·4	309·2	—63·4	67·0	12	17	+3·0	7·3	5·0	—1·0	0	17	0	0	6	0	0	0	0	0	0
Nautanwa	30·9	..	33·8	3	26·2	..	23·6	18	87·3	381·7	..	145·6	18	13	..	13.5	8·9	..	0	14	0	0	0	0	0	0	0	0	0
Gorakhpur	32.4	—0·3	36·4	2	26·7	+0·5	24·4	18	102·9	283·3	—62·9	40·0	14	6	—2·3	..	..	..	0	19	0	0	0	0	0	0	0	0	0
Azamgarh	32·6	..	38·6	2	23·8	..	21·6	9	187·6	317·2	..	77 0	18	15	..	..	..	..	1	16	0	0	0	0	0	0	0	0	0
Ballia	33·1	..	39·5	2	26·5	..	24·4	11	104·8	290·0	..	62·0	16	12	..	7.7	5·9	..	0	17	0	0	0	0	0	0	0	0	0
Varanasi (Banaras)	32·7	—0·7	40·6	2	26·2	—0·3	23·4	5, 19	213·4	584·6	+284·6	113·4	11	17	+2·7	9·0	6·6	+1.0	0	18	0	0	6	0	0	0	0	0	0
Varanasi (Banaras) (Babatpur Aerodrome).	32·8	..	39·6	2,7	26·3	..	23·9	5	210·5	518·9	..	103·9	14	19	..	15·0	12·0	..	0	20	0	0	8	0	0	0	0	0	0
Allahabad (Bamrauli).	33·6	+0·2	38·4	24	26·3	—0·3	24·2	1, 5	201·3	465·6	+140·6	73·1	11	18	+2·8	10·0	7·1	—0·6	0	18	0	0	14	0	0	0	0	0	0
Sultanpur	32·8	..	38·9	2,3	26·2	..	23·3	26	129·6	461·2	..	120·5	9	15	..	8·3	6·8	..	0	15	0	0	2	0	0	0	0	0	0
Faizabad	32·7	..	36·7	3	24.7	..	22·2	18	269·9	309·7	..	42·8	12	14	..	6·1	4·5	..	0	19	0	0	10	0	0	0	0	0	0
Banda	33·8	..	40·8	2	25·8	..	22.7	17	84·7	291·8	..	48.1	8	16	..	8·1	5.0	..	0	18	0	0	0	0	0	0	0	0	0
Fatehpur	33·2	—0·7	38·8	3	26·8	+0·3	23·8	18	117·1	398·0	+79·7	83·0	11	17	+3·1	10·0	7·0	+1·2	0	19	0	0	0	0	0	0	0	0	0
Kanpur	33·1	—0·5	39·4	3	27·0	+0·4	22·2	8	128·7	239·5	—33·6	40·5	5	15	+2·5	16·4	10·3	—1·4	0	18	0	0	1	0	0	0	0	0	0
Kanpur (Aerodrome)	33·5	..	39·7	3	26·8	..	21·7	17	80·2	193·9	..	52·2	11	14	..	..	..	..	0	15	0	0	6	0	1	0	0	0	0
Lucknow	33·3	—0·3	38·7	2	25·9	—0·5	23·2	11	143·4	658·3	+353·5	307·5	11	15	+1·6	6·0	4·4	+0·9	0	20	0	0	3	0	0	0	0	0	0
Lucknow (Amausi Aerodrome)	33·2	—0·4	39·3	3	26·5	+0·6	24·3	9, 11	248·1	761·7	+456·9	272·4	9	17	+3·6	15·0	11·5	..	0	18	0	0	10	0	0	0	0	3	0

(b) = Mean of 29 days. (h) Total or Mean of 23 days. (a) = Mean of 30 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830—1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation 0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—(Contd.)																													
Hardoi	32·9	..	37·8	3	26·6	..	23·9	18	231·6	605·1	..	98·2	10	13	..	10·5	8·0	..	0	16	0	0	1	0	0	0	0	0	0
Lakhimpur Kheri	33·1	..	37·7	3	26·3	..	23·9	18	114·9	237·1	..	34·4	24	16	..	7·4	4·9	..	0	18	0	0	9	0	1	0	0	0	0
Bahraich	33.1	−0·2	38 5	2,3	26·4	+0·2	23·6	18	33.5	277·5	−33·4	47·6	18	12	+0·1	12·3	9·3	+4·8	1	14	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Orai	32·7	..	40·0	3	24·2	..	20·8	17	92·2	327·2	..	95·0	5	13	..	13·4	10·6	..	0	16	0	0	0	0	0	0	0	0	0
Jhansi	33.9	+0 2	40·9	24	25·8	−0·1	23·6	8	50·3	248·7	−51·3	89·2	8	10	−3·8	6·3	5·5	−1·3	0	12	0	0	3	0	0	0	0	0	0
Agra	34·4	+0·1	40·4	1	26·8	−0·1	24·0	31	114·8	234·0	+16·8	38·8	8	13	+2·0	7·3	6·0	−1·1	0	15	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	34·5	..	39·3	25	26·9	..	24·9	31	116·7	259·7	..	46·8	9	12	..	..	..	..	0	15	0	0	12	0	1	0	0	0	0
Mainpuri	33·9	−1·2	40·8	3	26·7	−0·1	23·4	18	272·8	427·8	+236·3	68·6	8	14	+3·6	1·9	2·0	−1·5	0	15	0	0	3	0	0	0	0	0	0
Aligarh	34·6	0	39·9	1	26·4	−0·3	23·5	15	170·2	345·5	+122·7	90·6	9	13	+2.7	10·5	7·7	+0.3	1	16	0	0	6	0	0	0	0	0	0
Bareilly	33·4	0	37·7	1,3	26·2	+0·1	24·2	18	348·8	657·4	+328·2	103·4	18	19	+6·2	8·6	6·6	+3·1	0	19	0	0	6	0	0	0	0	0	0
Meerut	33·4	−0·7	38·6	1,2	27·2	+0·8	24·7	2	..	463·4	+245·2	77·0	12	16	+5·7	..	5·7	..	0	16	0	0	0	0	0	0	0	0	0
Najibabad	32·6	..	38·9	1	25·4	..	22·7	2	134·2	377·0	..	55·2	26	17	..	7·7	6·7	..	0	17	0	0	14	0	0	0	0	0	0
Roorkee	32.5	−0·9	38·9	1	25 5	−0·1	23·0	2	225·0	525·0	+212·6	136·9	17	13	+1·1	9·0	6·2	+2·2	0	17	0	0	4	0	0	0	0	0	0
Dehra Dun	30.1	−0·2	35·1	1	21·5	−1·7	19·3	4	274·4	628·8	−39·2	76·8	4	23	+2·7	12·6	2·8	+0·2	0	11	0	0	11	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
New Delhi	34·6	−0.5	39.7	24	27.1	+0.2	24.4	12	104.2	220.7	+42.1	53.3	12	13	+4.0	14.0	10.7	+0.4	0	17	0	0	7	0	0	0	0	1	0
New Delhi (Palam Aerodrome)	34·7	..	40·0	1	26·5	..	21·8	26	72·3	233·1	..	37·6	17	13	..	..	..	..	0	16	0	0	6	0	0	0	0	0	0
Hissar	36·7	−0·9	42·4	2	27·2	−0·1	24·6	12	79·1	184·9	+76·2	102·0	12	8	+2·0	13·0	9·6	+0·7	0	10	0	0	7	0	0	0	0	0	0
Karnal	33·8	..	39·4	4	22·6	..	19·0	12	72·5	101·7	..	20·0	4	10	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Patiala	34·3	..	38·9	2,24	26·7	..	24·6	15	156·2	344·5	+101·2	132·0	13	11	+3·3	10·1	8·2	..	0	15	0	0	6	0	0	0	0	0	0
Ambala	34.0	−1·3	38·7	24	25·9	−0·3	23·3	3	199·7	357·7	+113·6	85·0	13	14	+3·4	13·5	8·7	+3·7	0	15	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	33·1	..	37·8	1	25·6	..	22·8	3	196·0	347·3	..	60·4	13	13	..	..	..	..	1	15	0	0	11	0	0	0	0	0	0
Chandigarh	33·7	..	39·2	1	24·5	..	21·9	20	140·8	405·8	..	94·0	13	16	..	..	..	..	1	16	0	0	0	0	0	0	0	0	0
Ludhiana	35·5	−0·8	41·3	2	29·2	+2.4	24·3	19,20	89.1	209·5	+4·5	65·1	19	7	−1·4	7·9	6·5	+3·3	1	9	0	0	0	0	0	0	0	0	0
Halwara	35.5	..	40·7	2	26·5	..	21·1	19	120·8	165·5	..	36·4	20	9	..	..	..	..	0	10	0	0	7	0	3	0	0	0	0
Bhatinda	37.0	..	41·5	24,25	26·9	..	23·9	19	68.4	90·4	..	41.6	9	5	..	12·4	9·4	..	0	6	0	0	0	0	0	0	0	0	0
Ferozepur	35·9	..	41·6	2	27·0	..	21·8	20	146·4	163.5	..	83·6	9	6	..	4·8	3·1	..	0	7	0	0	0	0	1	0	0	0	0
Amritsar	35.3	..	41.2	2	25·5	..	22.2	27	67·5	181.2	..	39.6	11	11	..	13·2	11·1	..	0	14	0	0	11	0	1	0	0	0	1
Pathankot (Aerodrome)	34.3	..	40.6	2	25.5	..	21.9	29	27.2	470.6	..	144·6	12	14	..	8·7	8·2	..	1	18	0	0	18	0	0	0	0	0	0
Adampur (Aerodrome) (R)																													
Himachal Pradesh																													
Bilaspur	32·7	..	37·8	1	24·3	..	21·3	19,20	118·5	574·7	..	124 5	26	16	..	6·9	5·2	..	0	18	0	0	10	0	0	0	0	1	0
Mandi	31·5	..	35·1	2	22·2	..	19·9	20	121·2	593·6	..	98·4	24	23	..	3·5	2·6	..	0	26	0	0	10	0	0	0	0	0	0
Jammu and Kashmir																													
Srinagar	30·3	−0·7	35·4	8	19·1	+1·2	14·1	20	32·6	64·3	+5·1	22·7	11	3	−1.9	4·1	3·8	−0·2	0	5	0	0	6	0	0	0	0	0	0
Srinagar (Aerodrome)	29·4	..	34.6	8	18·7	..	12.8	20	28.8	61·4	..	22·6	11	3	..	..	..	..	0	5	0	0	7	0	0	0	0	0	0
Gulmarg (R)																													
Sonemarg	..	..	..	..	..	..	..	..	..	18·7	−72·0	5·5	11	5	−3·9	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Dras	..	..	..	..	..	..	..	..	..	17·2	+1·2	14·6	12	1	−0·6	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Leh	25·5	+0·8	30·6	9	12·6	+2·4	9.4	12	4·8	12·1	+0·2	6·2	12	2	+0·6	7·1	6·5	+3·4	0	3	0	0	1	0	0	0	0	0	0
Skardu (R)																													
Gilgit (R)																													
Misgar (R)																													
Jammu†																													
Jammu (Aerodrome)	34·7	..	39·9	2	25·9	..	22.8	18	95.3	441.8	..	179·9	11	11	..	..	..	..	0	14	0	0	10	0	2	0	0	0	0
Rajasthan (West)																													
Sri Ganganagar	37·7	−1·2	43.2	31	28·5	+0·4	25·4	12	64·9	137·4	+81.5	60·4	12	7	+2·7	9·5	6·1	−5·8	0	9	0	0	6	0	0	0	0	0	0
Churu	36·7	..	41.8	31	27·1	..	24·8	14	82·2	122·3	..	44·7	8	8	..	18·0	13·6	..	0	8	0	0	7	0	0	0	0	0	0
Bikaner	37.7	−0.8	43·7	30	27·5	−0·5	23·9	10	10·9	67·2	−17·6	43·0	10	4	−0·9	13·9	11·4	+0·1	0	6	0	0	1	0	0	0	0	0	0
Jaisalmer	37·3	..	42·3	3	26·5	..	23.9	10	39·6	66·4	..	30·6	4	3	..	26·3	25.2	..	0	4	0	0	0	0	0	0	0	0	0
Phalodi	36·9	..	41·4	30	27·3	..	25·0	11	61·7	111·2	+42·4	59·5	7	5	+1·2	23·7	21·7	..	0	6	0	0	1	0	0	0	0	0	0
Nagaur	36·3	..	41·7	30	26·9	..	24·2	12	37·5	58·6	..	14·0	1,4	6	..	17·2	15·3	..	0	9	0	0	1	0	2	0	0	0	0
Jodhpur	35·9	−0·2	42·5	3	26·5	−0·3	24·5	11	51·8	71·0	−29·8	17·4	5	7	+1·5	18·5	15·1	−4·4	2	12	0	0	6	0	0	0	0	2	0
Barmer	36·2	+0·4	41·8	3	26·4	+0·3	24·7	18	27·2	167·1	+84·6	101·0	6	6	+2·0	..	..	..	0	12	0	0	5	0	0	0	0	0	0
Rajasthan (East)																													
Pilani	36·3	..	42·5	1	27·1	..	24·1	9	54.5	157.8	..	101·7	9	7	..	21·0	16·6	..	0	9	0	0	0	0	1	0	0	0	0

†Temporarily closed (R) ..Rgister not received.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, kms per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 or 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East) —(*Contd*).																													
Alwar	35·9	..	41·6	25	28.0	..	25·0	8,9	41·4	146·2	..	67·6	8	7	..	7.9	5.8	..	2	11	0	0	3	0	0	0	0	0	0
Sikar	33·3	..	39·4	24,25	26.0	..	21·1	9	103·4	205·7	..	83·1	8	7	..	14·4	11 0	..	0	12	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer Aerodrome).	34·9	+0·3	40·2	24	25·6	−0·1	22·8	16, 31	19·2	73·5	−123·1	21·8	31	8	−2·3	..	..	..	0	11	0	0	7	0	1	0	0	2	0
Dholpur	34·8	..	40·8	24	27·2	..	23·6	14	74·2	171·7	..	83.1	8	11	..	8·7	6·0	..	0	16	0	0	11	0	2	0	0	0	0
Tonk	36·2	..	41·6	25	27·0	..	23·8	31	39·0	76·0	..	25·4	31	7	..	15·8	10·8	..	0	11	0	0	16	0	0	0	0	0	0
Ajmer	33 2	0	37·9	3,24	26·3	+0·5	23·3	12	60·7	86·3	—76·5	41·8	5	6	−2·9	16·1	14·0	+4·3	1	11	0	0	6	0	0	0	0	0	0
Kotah	35·1	+0·7	41·7	24	26·7	+0·1	20·4	30	160·2	247·6	—10·0	72·0	16	10	−1·1	12·7	10·9	+4·5	0	10	0	0	6	0	0	0	0	0	0
Chambal	33·8	..	40·6	24,25	25·7	..	22·6	31	51·9	296·0	..	90·0	31	7	..	14·0	10·7	..	0	9	0	0	12	0	0	0	0	0	0
Jhalawar	33·7	+1·5	40.1	24	25·5	+0·7	23·3	6	88·4	251·4	—45·3	97·2	4	10	−3·5	12·8	10·8	+2·9	0	11	0	0	6	0	0	0	0	0	0
Udaipur	29·9	−1·9	33·9	24	23·9	−0·4	22·1	21	72·3	129·6	−87·6	38·8	30	8	−2·4	7.5	10·1	..	1	14	0	0	5	0	0	0	0	0	0
Erinpura (Jawai Dam).	33·4	..	39·9	3	26·1	..	24.2	5	61·2	145·8	..	68·4	4	7	..	10·1	9·3	..	1	12	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	34·2	+0·3	39·5	24,31	26·6	0	23·5	12	77·4	243·5	—55·0	119·2	7	11	−3·8	12·3	8·8	..	0	14	0	0	7	0	1	0	0	0	0
Sheopur Kalan	35·5	..	41·8	24	26·2	..	24·3	5	45·8	68·8	..	16·4	26	10	..	12·5	9·7	..	0	14	0	0	6	0	0	0	0	0	0
Guna	33·0	+1·9	38·3	24	23·9	−0·1	19·1	1	37·8	147·0	−217·5	84·2	4	7	−8·5	17·7	13·4	..	0	11	0	0	7	0	0	0	0	0	0
Rajgarh	33·7	..	39·9	23	24·5	..	23·1	4	70·0	206·6	..	63·8	4	12	..	17·3	13·1	..	0	13	0	0	0	0	0	0	0	0	0
Neemuch	31·6	+0·5	37·2	23,24, 25	24·0	+0·3	21·9	31	97·5	309·8	+69·3	112·2	4	10	−0·6	16·4	13·5	−0·7	0	12	0	0	7	0	0	0	0	0	0
Ratlam	31·4	..	37·2	23	23·3	..	21·5	31	36·8	150·3	..	37·6	3	12	..	13·8	10·2	..	0	17	0	0	4	0	0	0	0	0	0
Alirajpur	31·5	.	36·5	23	24·0	..	22·8	10	34·6	110·4	..	27·0	27	8	..	12·6	10·0	..	1	16	0	0	1	0	0	0	0	0	0
Indore	31·1	+1·2	37·1	23	22·8	+0·3	21·5	27	27·8	162·8	−119·7	60·7	4	8	−5·3	24·8	19·8	..	0	16	0	0	8	0	0	0	0	0	0
Ujjain	31·8	..	38·6	23	23·6	..	22·6	21	..	150·6	..	31·6	27	8	..	..	16·8	..	0	12	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	31·9	+2·1	37·4	24	23·1	−0.3	20·8	30	164·3	353·7	−147·4	28·6	31	14	−2·4	21·0	16·7	+0·6	1	18	0	0	11	0	0	0	0	0	0
Khandwa	32·1	+1·0	37·	25	23·1	−1·0	17·2	10	90·8	275·4	+30·0	95·6	30	10	−2·1	13.9	10·5	−1·4	1	15	0	0	4	0	0	0	0	0	0
Hoshangabad	32·9	+2·8	41·4	24	24·7	+0·8	23·2	31	83·0	175·4	+249·0	58·6	30	10	−5·7	8·3	5·6	−0·2	0	15	0	0	10	0	0	0	0	0	0
Betul	29·0	..	33·9	25	22·1	..	21·1	8	254·0	363·8	..	145·2	28	15	..	8·6	6·0	..	0	20	0	0	2	0	0	0	0	0	0
Chhindwara	29·3	..	34·3	24,25	22·5	..	21·2	19, 22	135·1	284·1	..	54·0	15	17	..	11·0	8·1	..	1	23	0	0	4	0	0	0	0	0	0
Seoni	29·4	+0·5	35·0	28	22·2	−0·2	20·4	19	285·8	517·7	+105·7	125·0	15	23	+4·7	9·6	6·2	−1·0	0	29	0	0	8	0	0	0	0	0	0
Sagar	30·6	+0·7	36·7	24	23·5	+0·7	21·2	12	78·8	286·0	−109·5	98·0	3	13	−3.5	8.0	6·1	..	0	20	0	0	12	0	0	0	0	0	0
Nowgong	33·4	+0·6	39·7	25	25·7	−0·2	23·5	15	84·1	321·5	−29·3	122·8	8	11	−3·1	10·0	8·1	+3·1	0	17	0	0	4	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	32·5	+0·9	37·8	4 (days)	25.0	−0.2	22·6	5	137·6	229·2	−132·7	53·2	8	13	−2.4	11·5	8.2	0	1	15	0	0	8	0	0	0	0	0	0
Sidhi	32·3	..	37·9	24	25·4	..	23·1	17	125·4	427·0	..	101·0	7	15	..	11·7	7·5	..	0	17	0	0	4	0	0	0	0	0	0
Umaria	31·5	+1·2	36·3	24	24·1	+0·1	22·5	9	208·3	447·2	−3·7	119·4	15	21	+0·9	7·8	5·7	−0·4	0	21	0	0	5	0	0	0	0	0	0
Jabalpur	31·9	+1·7	37·1	24	23·9	+0·2	22·3	26	262·6	441·6	−50·7	160·3	15	18	−0·1	9·2	6·9	+1·4	2	22	0	0	10	0	0	0	0	0	0
Mandla	30·1	..	34·5	24	23·5	..	22·2	25	193·8	424·2	..	47.0	17	22	..	(a) 4·5	3·0	..	0	27	0	0	19	0	0	0	0	0	0
Pendra	28.9	+0·3	32·6	24	22·3	−0·1	20·3	22	179·8	405·8	+32·2	44.0	25	23	+4·1	10·4	8·9	..	1	26	0	0	4	0	0	0	0	0	0
Ambikapur	29·3	..	34·0	2	23·1	..	21·0	21	165·8	358.2	..	64·0	21	21	..	12·2	9·6	..	1	26	0	0	6	0	0	0	0	0	0
Champa	31·2	..	34·2	3,23	24·3	..	22·4	12	138·8	309·2	..	47.6	3	21	..	10·6	7·3	..	0	28	0	0	16	0	0	0	0	0	0
Raigarh	31·0	..	35·6	24 2	24·5	..	22·5	8	245·2	449·5	..	65·6	8	21	..	7·5	6·0	..	0	24	0	0	0	0	0	0	0	0	0
Raipur	30·8	+0·4	34·6	24	23·8	−0.1	21·5	25	151·7	391·2	+10·5	112·2	8	19	+3·0	12·3	10·7	−3·3	2	22	0	0	9	0	0	0	0	0	0
Kanker	29·7	+0·8	33·5	24	25·0	+1·7	22·4	1	149·5	267·6	−131·7	49·2	2	13	−4·9	10·6	7·9	−1·8	0	17	0	0	2	0	0	0	0	0	0
Jagdalpur	28·4	+0·1	33·2	22,24	22·6	+0·4	20·5	13	197·8	322·8	−61·5	121·4	2	17	−2·4	8.5	6·1	..	0	21	0	0	5	0	0	0	0	0	0
Gujarat																													
Deesa	..	..	..	..	25·6	..	24·0	11	78·6	180·6	..	40·6	27	11	..	13·9	11·9	..	0	13	0	0	0	0	0	0	0	0	0
Radhanpur	35·2	..	39·5	24,27	23·3	..	22·0	10, 11	23·6	46·0	..	14·6	30	6	..	14·3	11·8	..	0	7	0	0	0	0	0	0	0	0	0
Idar	32·5	..	37·5	23	24·8	..	23·1	29	147·6	393·3	..	86·0	4	14	..	10·3	7·5	..	0	16	0	0	2	0	0	0	0	0	0
Ahmedabad	34·3	+0.4	39·5	23	25·8	+0·1	24·5	29	52·0	106·0	−204·4	36·3	5	8	−4·6	10·9	9·3	−2·0	0	10	0	0	4	0	0	0	0	0	0
Dohad	32·0	+1·3	37·0	23	23·8	−0·3	22·5	31	15·3	80·5	−148·6	31·6	27	8	−5·0	24·1	22·2	..	1	16	0	0	6	0	0	0	0	0	0
Baroda	33·8	+1·7	39·1	23	26·1	+0·6	24.9	10	57·2	153·9	−156·7	20·3	1	12	−0·7	7·0	5·4	−3·6	0	15	0	0	2	0	0	0	0	0	0
Baroda (Aerodrome)	33·4	..	38·7	23	25.7	..	24·3	10	48·8	140·3	..	27·2	2	12	..	14·3	13·0	..	1	15	0	0	4	0	0	0	0	0	0
Broach	32·3	..	38·9	23	25·6	..	24·2	10	132·6	207·7	..	36·6	5	12	..	13·7	10·8	..	0	18	0	0	2	0	0	0	0	0	0
Surat	31·9	+1·2	37·4	22	25·1	−0·3	23.7	24	121·0	232·4	−210·1	61·2	27	13	−3·3	13·2	12·9	+1·2	0	20	0	0	2	0	0	0	0	0	0
Saurashtra and Kutch																													
Naliya	32·3	..	36·0	1	26·6	..	25·0	8	77·0	103·6	..	43·2	2	8	..	25·7	20·0	..	3	13	0	0	4	0	0	0	1	1	0
Bhuj (Aerodrome)	34·2	+1·0	37·6	2	26·2	+0·3	24 7	11, 12	21·0	61·1	−99·7	15·6	11	6	0	23·3	19·1	−2·6	1	9	0	0	5	0	0	0	0	0	0
Bhutakia Bhimasar	34·7	..	37·6	23	26·6	..	24·4	11	35·6	103·3	..	67·5	4	4	..	26·4	23·3	..	1	4	0	0	1	0	1	0	0	0	0
New Kandla	33·2	..	36.2	23	27·1	..	25.6	7,12	13·8	48·6	..	9·8	7	7	..	29·9	26·6	..	2	11	0	0	3	0	0	0	1	0	0

(a) Mean of 30 days.

Division and station	Air temperature in °C								Rainfall in millimeters					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a	20b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—(*Contd.*)																													
mandvi	31·9	..	36·5	4	27·2	..	24·8	7	29·0	61·9	..	19·0	6	7	..	32·9	31·0	..	0	8	0	0	0	0	0	0	5	0	0
Dwarka	30.8	+0·4	33·2	2	26·8	−0·3	25.0	4,27	80·8	102·0	−74.5	28·0	6	8	+2·0	25·5	24·8	+0·8	0	9	0	0	2	0	0	0	0	0	0
Porbander	30·7	..	32·7	24	26·4	..	24·4	28	248.4	371·8	..	222·4	3	10	..	25·9	19.8	..	0	14	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	25.6	22·9	..	..	..	0	0	1	0	0	0	0	0	0
Jamnagar	33·5	+0.9	37.2	4	26·1	−0·3	24.3	27	44·9	100·3	−126·5	30·0	5	6	−1·9	..	..	..	0	12	0	0	6	0	0	0	1	0	0
Rajkot (Aerodrome)	33·4	+0·5	37·3	22	24·9	+0·2	23.2	27	98·9	217·3	−54·0	50.4	29	9	−1·5	31·0	26·1	..	0	12	0	0	4	0	0	0	0	0	0
Surendranagar	34·7	..	39·2	23	26·2	..	25·0	10,28	51·3	174·3	..	80·8	28	5	..	21·1	19·0	..	0	8	0	0	0	0	0	0	0	0	0
Bhavnagar	34·2	+0·4	38·8	21,23	25·6	−0·2	21.6	25	269.9	306·9	+120 8	135.2	27	6	−3·3	15·7	13.6	+1·7	0	10	0	0	3	0	0	0	0	0	0
Bhavnagar (Aerodrome)	34·4	..	37 8	23	26·1	..	21.4	25	228·6	238·0	..	91·0	27	6	..	29·4	25·6	..	1	11	0	0	2	0	0	0	1	0	0
Mahuva	31·5	..	35.5	24	25·5	..	23.6	24	120·6	182·3	..	52·0	27	13	..	20·9	15·7	..	0	19	0	0	5	0	0	0	0	0	0
Keshod	31·5	..	36.2	22	25.2	..	24.0	27	226·0	307·9	..	171·4	3	12	..	31.5	25·6	..	1	18	0	0	4	0	0	0	1	0	0
Veraval	30.2	..	33·0	23	26 3	..	24.1	28	250·6	521·1	+323 5	301·6	3	10	+0·8	31·4	(a) 31·0	..	3	20	0	0	2	0	0	0	0	0	0
Konkan																													
Dahanu	30·5	+0·5	32·6	22	25·0	−0·7	18·4	25	302.8	629.3	−70 0	125·0	26	19	−3·0	25·2	21·0	−5·6	0	24	0	0	0	0	0	0	1	0	0
Bombay (Colaba)	30·5	+0·8	33·9	22	25·5	+0·7	24·2	26,28, 30	247·8	500·0	−116 5	79·6	28	17	−5.1	15·7	15·2	−3·5	1	23	0	0	6	0	0	0	1	16	0
Bombay (Santacruz Aerodrome)	30·0	+0·3	34·8	22	25·2	+0·4	24·1	28,30	346·6	589·8	−380·0	114·5	26	21	−3·7	21·1	19.7	..	0	24	0	0	5	0	0	0	0	0	0
Alibag	29·7	+0·6	32·3	22	25·3	0	23·2	26	..	764·3	+168 9	166.1	26	21	−2·3	..	26·4	−2·1	0	27	0	0	4	0	0	0	0	0	0
Harnai	29·1	+0·1	31·5	23	25 5	+1·4	23·1	25	412·5	882·9	−27·4	154·8	25	18	−8·4	19 5	20·3	+0·3	0	22	0	0	4	0	0	0	0	0	0
Ratnagiri	29·3	..	32·1	21	24·4	..	22·3	26	315·1	850.0	−9·8	183.0	25	23	−3.0	..	..	..	2	27	0	0	1	0	0	0	0	0	0
Devgad	29·3	+0·4	31 8	19	24·9	−0·5	23·0	16	346·4	718·0	+11·1	111·2	2	19	−5·4	26·8	26·4	−3·1	0	22	0	0	2	0	0	0	3	0	0
Vengurla	29·6	..	32·4	21	24·2	..	22·4	15	429·9	922·4	..	118.7	15	24	..	19.2	9·6	..	0	28	0	0	5	1	0	0	0	1	0
Maharashtra (Including Marathwada)																													
Nandurbar	32·5	..	38·2	23	24·3	..	22·0	24	90·6	161·9	..	25·5	2	13	..	12·6	9·8	..	2	19	0	0	0	0	0	0	0	0	0
Jalgaon	33·6	..	38·9	23	24·3	..	23·0	12	50·6	156·7	−84·8	31·6	30	11	−3·3	18·3	13.5	..	1	17	0	0	11	0	0	0	0	0	0
Malegaon	32·3	+1·1	36·6	23	23·2	+0·1	21·2	24	15·6	89·8	−22·5	47·6	24	5	−2·4	16·4	12·3	−3·1	0	5	0	0	0	0	0	0	0	0	0
Deolali	28·7	..	33·9	20	22·1	..	20·2	25	113·5	199·9	..	66.5	20	12	..	21·5	17·5	..	0	20	0	0	7	0	0	0	0	0	0
Aurangabad	31·3	+1·3	34·6	22	22.7	+1·1	20·8	11	84·6	134·9	−36.3	45·0	4	7	−4·3	20·2	(b) 15.4	−2·3	0	17	0	0	2	0	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome)	31·3	..	34·7	22	22·7	..	20·6	12	38·5	88·2	..	30·0	27	5	..	19·4	16·1	..	0	13	0	0	5	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	2260·0	+522·1	303·6	2	25	−5·0	..	..	..	1	28	..	..	..	..	..	..	..	..	..
Ahmednagar	31·0	+1·4	35·1	24	21·9	+0·5	19·4	11	11·9	73·4	−22·6	39·3	18	4	−2·8	12·9	9·4	−6·2	1	7	0	0	0	0	0	0	0	0	0
Bhir	32·8	..	36·9	12	23·3	..	22·3	19,27	49·0	91·3	..	39·2	27	5	..	(a) 13·2	(a) 10·5	..	0	8	0	0	0	0	0	0	0	0	0
Parbhani	32·8	..	37·2	22	23·0	..	22·1	9,10, 27	153·6	234·8	+48·9	93·0	30	7	−4·1	14·4	11·3	..	0	11	0	0	3	0	0	0	0	0	0
Nanded	32·8	..	36·6	13	23·8	..	22·0	19	22·9	121·3	..	50·0	29	7	..	12.2	8.9	..	0	8	0		1	0	0	0	0	0	0
Poona	29·1	+1·0	35·4	20	21·9	−0·2	20·9	12	69·7	198 2	+31·6	41·0	2	13	+0.3	7·4	5·5	−10·9	0	22	0	0	2	0	0	0	0	0	0
Poona (Lohagaon Aerodrome)	28·8	..	34·8	22	21·5	..	20·3	11,12	54·3	129·4	..	25·9	2	13	..	..	..	..	0	14	0	0	3	0	0	0	0	0	0
Baramati	30·2	..	36·2	21	22·5	..	20·1	11	2.4	15·1	..	5·0	23	2	..	19·2	15·2	..	1	7	0	0	3	0	1	0	0	0	0
Jeur	32·2	..	35·9	22	22·1	..	19·2	11	20·5	72·7	..	36·6	16	5	..	20·4	15·3	..	2	11	0	0	2	0	0	0	0	0	0
Sholapur	32·7	+0.9	36·9	22	22·7	+0·4	21·6	30	40·4	88·5	−17·7	22·5	28	10	+2·3	14·5	11·5	−4·8	1	13	0	0	4	0	0	0	0	0	0
Miraj	29·3	+1·6	33·0	18,20	21·5	−0·1	20·1	11,12	42·4	165·2	+60·3	33·2	20	15	+5.9	..	..	..	0	19	0	0	3	0	0	0	0	0	0
Kolhapur	27·7	+1·2	32·6	20	21·3	+0·1	20·2	11,12	114·3	402·3	+49·0	112·5	2	16	−2·7	18·7	15·5	−3·2	0	22	0	0	5	1	0	0	0	1	0
Vidarbha																													
Buldhana	29·8	..	33·5	24	22.2	..	21·0	12,28	57·1	195·3	..	68·0	30	13	..	12·4	11·0	..	0	17	0	0	0	0	0	0	0	0	0
Akola	32·5	+0·8	37·7	23,25	23·6	−0·2	22·3	28	98·7	222·1	−26·6	59·4	29	12	−0.4	12·1	9·4	−1·7	1	16	0	0	1	0	0	0	0	0	0
Amravati	31·4	+0·6	37·0	25	22·0	−1·3	20·1	12	59·8	157·4	−81·6	30·6	28	12	−0·8	16·2	12·0	−0·2	0	16	0	0	3	0	0	0	0	0	0
Yeotmal	31·1	..	35·6	13	23·2	..	20·4	9	79.3	365·5	..	115·0	30	14	..	18·5	15·2	..	0	15	0	0	7	0	0	0	0	0	0
Nagpur	31·4	+0·1	36·2	25	23·8	−0.3	22·1	8	213·3	592·0	−221·2	127·8	28	18	+1·5	13·6	9·7	..	0	22	0	0	14	0	0	0	0	6	0
Gondia	30·4	..	34·4	24	23·9	..	21·8	8	165·6	468·0	..	99·6	2	21	..	7.4	4·8	..	0	24	0	0	1	0	0	0	0	0	0
Brahmapuri	30·9	..	35·0	24	24·7	..	22·9	2	227·8	794.5	..	214·0	3	18	..	9·7	6.9	..	0	19	0	0	10	0	0	0	0	0	0
Chanda	31·6	+0·3	35·5	24	24·8	+0·5	23·1	8	73·4	272·2	−142·1	54·8	3	13	−3·9	12·7	8·5	+0·1	0	19	0	0	6	0	0	0	0	0	0
Sironcha	31·7	..	35·6	24	25·0	..	22·4	15	216·1	419.5	..	167·6	29	14	..	7·1	6·0	..	0	14	0	0	3	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Nellore	35·5	−0·6	37·9	15	26·1	−0·5	23·3	24	8.3	122·3	+52·4	33·5	23	8	+2·5	..	..	..	0	11	0	0	1	0	0	0	0	0	0
Ongole	34·9	..	38·5	23,24	26·8	..	24·4	3,26	0	46.8	..	14.0	28	7	..	12.6	9·1	..	0	7	0	0	0	0	0	0	0	0	0
Rentichintala	34·8	+0·9	38·3	23	26·2	+0·3	23·7	9,28	10.8	75·0	+6·9	19·6	2	8	−1·0	12·1	8·6	−6·5	0	10	0	0	0	0	0	0	0	0	0
Gannavaram	32·5	..	35·3	6	25·6	..	23·7	9	26.5	228·5	..	30·7	9,28	12	..	17·5	12·5	..	0	15	0	0	7	0	0	0	0	3	0

(a) Mean of 30 days.

Division and station	Air temperature in °C								Rainfall in millimeters					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—*Contd.*																														
Masulipatam	32·0	−1·6	35·1	6	25·8	+0·2	23·1	8	16·8	145·1	−17·2	38·6	28	12	+1·3	14·6	11·5	+0·9	0	12	0	0	1	0	0	0	0	0	0
Nidadavolu	31·6	..	34·6	5	24·8	..	23·0	7	39·2	305·6	..	67·4	28	16	..	12·8	10·9	..	0	18	0	0	2	0	0	0	0	0	0
Kakinada	31·8	−0·6	35·1	6	25·2	−0·6	23·0	28	49·2	205·4	+39·0	72·4	28	10	−1·1	14·7	11·4	+2·1	1	15	0	0	1	0	0	0	0	0	0
Visakhapatnam	32·6	−0·5	35·7	22	25·7	−0·2	21·3	13	19·2	78.7	−33·6	19·9	2	9	+0·5	21·3	15·1	−0·2	1	12	0	0	4	0	0	0	0	0	0
Calingapatam	30·6	−1·5	33·4	22,24	25·7	−0·4	23·3	13	150.3	385·1	+244·4	102·6	2	16	+7·4	15·7	13·0	+0·9	0	16	0	0	6	0	0	0	0	0	0
Telangana																														
Ramagundam	32·9	..	38·4	23	..	..	..	..	143·6	349·2	..	86·0	27	14	..	7·7	6·2	0	14	0	0	3	0	0	0	0	0	0	0
Nioamabad	32·0	+0·8	36·5	23	24·0	+0·7	21·8	29	80.6	172·0	−85·8	45·0	2	9	−6·0	5·7	4·5	−4·4	0	11	0	0	0	0	0	0	0	0	0
Mahbubnagar	31·4	..	34·8	23	22·9	..	21·5	2	60·0	203·6	..	47.8	2	12	..	12·9	11·0	..	0	18	0	0	0	0	0	0	0	0	0
Hyderabad (Begumpet Aerodrome)	30·0	+0·5	34·5	22	23·3	+1·1	21·5	14	15·5	95·4	−56·7	28·0	1	7	−4·1	22·8	18·6	−1·8	1	14	0	0	1	0	0	0	0	0	0
Hakimpet	29·9	..	34·1	22	22·4	..	21·1	26	21·0	96.8	..	27·4	1	5	..	..	..	..	0	13	0	0	2	0	0	0	0	0	0
Hanamkonda	32·6	+1·4	37·0	24	24·9	+0·6	22·6	8,30	43·6	155·8	−76·4	36·2	1	11	−2·4	12·7	10·8	0	0	15	0	0	1	0	0	0	0	0	0
Bhadrachallam	32·4	..	35·6	22	25·5	..	23·8	23,29	28.0	213·3	..	36·5	29	13	..	9·3	7·7	..	0	17	0	0	0	0	0	0	0	0	0
Khammameth	33·0	..	37·4	23	25·4	..	23·3	9,10	25·2	262·6	..	64·0	2	10	..	11·2	7·8	..	0	13	0	0	2	0	0	0	0	0	0
Rayalaseema																														
Arogyavaram	31·2	..	34·2	23	22·3	..	20·8	12	24·4	47·4	..	11·0	24	7	..	12·5	8·9	..	0	12	0	0	1	0	0	0	0	0	0
Cuddapah	35·5	+0·2	39·1	22	..	..	..	..	12.0	50·0	−53·4	7·8	5	8	+1·3	6·8	4·9	−7·0	0	10	0	0	0	0	0	0	0	0	0
Anantapur	33·9	..	36·0	16	24·5	..	21·3	16	16·4	118·8	+52·0	84·4	16	5	+1·1	20·0	17·5	..	0	7	0	0	3	0	0	0	0	0	0
Kurnool	33·9	+0·8	37·1	22	24·5	+0·6	22.8	27	38·2	121·6	+9·3	31·8	27	7	−2·3	21·6	16·9	+0·2	0	13	0	0	2	0	0	0	0	0	0
Madras State																														
Palayamcottai	34·3	..	37·1	7	22·1	..	19·3	18	23·7	53·5	+45·1	20·1	17	5	+4·4	17·5	13·2	..	0	6	0	0	1	0	0	0	0	0	0
Tuticorin	32·9	..	35·8	5,6	25·6	..	23·1	19	6·0	29·4	..	10·8	18	4	..	20·9	17·8	..	0	5	0	0	0	0	0	0	0	0	0
Pamban	31·7	−0·1	33·1	11	26·3	0	23·5	18	7.2	67·5	+55·8	25·8	16	5	+4·2	12·5	12·9	−2·4	0	6	0	0	0	0	0	0	0	0	0
Tondi	32·3	..	37·5	2	25·4	..	22·1	5,15	18·6	147·5	..	54·0	15	5	..	16·0	12·2	..	0	6	0	0	7	0	0	0	0	0	0
Mathurai	34·2	−1·3	38·4	6	24·7	−0·5	21·6	7	39·2	182·2	+132·7	65·6	16	7	+4·3	8·0	6·3	−1·6	0	10	0	0	0	0	0	0	0	0	0
Mathurai (Aerodrome)	33·9	..	38·4	6	24·8	..	21·7	8	13·2	149 8	..	53·0	19	8	..	17·0	15.4	..	0	8	0	0	7	0	0	0	1	0	0
Adiramapattinam	32·9	..	35.6	6	24·9	..	21·2	7	13·8	143·8	..	85·0	7	6	..	14·6	11·0	..	0	6	0	0	2	0	0	0	0	0	0
Nagapattinam	33·5	−2·1	37·6	6	25·7	−0·4	22·7	7	90·6	233·6	+190·4	79·0	7	8	+5·1	13·3	10·7	+1·0	0	9	0	0	5	0	0	0	0	0	0
Tiruchirapalli	33·7	−2·8	37.5	6	25·1	−0·6	22·5	13	12.2	148·9	+114·6	45·5	13	13	+10 9	28·3	22·5	−7·6	1	13	0	0	10	0	2	0	1	0	0
Coimbatore	29·7	−0·7	32·8	16	22·4	+0·7	21·0	9,26	31·3	81·3	+39·4	20·8	4	8	+3·3	16.7	13·7	+3·1	1	13	0	0	1	0	0	0	0	0	0
Coimbatore (Peelamedu Aerodrome)	30·0	..	33·1	16	21·9	..	20·5	9	19·2	66·6	..	16.7	19	7	..	31·2	27·7	..	1	15	0	0	7	1	0	0	3	0	0
Salem	31.9	−2·0	34·6	6	23·7	+0·4	22·9	12	62·0	230·6	+134·3	43·0	24	11	+3·9	8.5	7·7	+0·9	0	15	0	0	13	0	0	0	0	0	0
Kallakurichi	34·3	..	37·5	6	24·6	..	23.0	15	53·5	161·2	..	78·0	19	7	..	12·0	9·8	..	1	9	0	0	5	0	0	0	0	0	0
Cuddalore	34·2	−1·4	37·4	5	24.9	−1·0	21·4	6	0·7	91·7	+25·7	46·0	19	4	−1·3	11·2	8·4	+1·0	0	9	0	0	0	0	0	0	0	0	0
Tirupattur	32·8	..	36·9	6	23·9	..	21·5	7	48·6	276·3	..	89.0	7	8	..	9·8	5·7	..	0	10	0	0	3	0	0	0	0	0	0
Vellore	33·9	−0·6	37·7	6	23·9	−1·2	20·9	9	52·4	306·5	+190·5	83·0	7	10	+3·7	11·1	9·5	+1·5	0	12	0	0	7	0	0	0	0	0	0
Tambaram (Aerodrome)	..	..	..	..	25·7	..	22·9	4	29·6	81·1	..	20·8	20	4	..	..	..	..	0	10	0	0	0	0	0	0	0	0	0
Madras	34·8	−0·9	37·0	6	25·9	−0.4	23·6	15	18·8	62·9	−28·5	18·0	19	7	+0·2	17·1	12·9	−2·9	1	12	0	0	8	0	0	0	0	5	0
Madras (Nungambakkam).	34·5	..	37·6	6	25·5	..	23·2	9	..	63·6	..	18·1	23	8	..	..	7·5	..	0	12	0	0	3	0	0	0	0	0	0
Coastal Mysore																														
Karwar	29·5	..	31·4	19	24·5	..	23·0	25	343·9	861·8	−104·9	145·0	25	22	−5·0	18·3	16·6	..	0	27	0	0	0	0	0	0	0	0	0
Honavar	29·1	+0·8	31·2	20,21	23·4	−0·2	22·2	25	299·9	889·2	−238·8	118.9	22, 26	21	−9·6	12·3	11·6	+5·3	0	26	0	0	4	0	0	0	0	0	0
Mangalore	28·9	+0·2	30·7	2	23·5	0	20·9	5	279·9	853·2	−134·9	170·7	22	24	−3·5	11·4	9·9	+0·9	0	27	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe Aerodrome).	28·0	..	30·5	18	23·1	..	22·1	26	306·7	1042·7	..	137.5	22	25	..	11·1	9·1	..	1	26	0	0	7	2	0	0	0	0	0
Interior Mysore (North)																														
Bidar	30·3	+1·0	34·3	22	22·1	+1·0	20·9	30	74·0	140·7	−65·3	60.6	26	9	−2·6	21·6	19·4	−2·8	0	11	0	0	0	0	0	0	0	0	0
Gulbarga	32·6	+0·7	37·2	22	23·3	+1·1	21·8	10,26	43·6	85·4	−58·4	26·2	23	6	−3·1	20·4	17·6	+0·5	0	10	0	0	1	0	0	0	2	0	0
Bijapur	31·9	+1·6	35·3	22,23	22·2	+0·6	21·2	10,26	13·4	60·8	+0·6	19·2	17	6	+1·7	15·6	12·8	−2.3	2	17	0	0	1	0	0	0	0	0	0
Belgaum	26·7	+1·4	32·0	18	21·9	+2·6	20·8	12	126·6	417·0	−9·5	75·2	2	20	−2·1	15·7	10·8	−3·5	1	23	0	0	1	0	0	0	0	0	
Belgaum (Sambre Aerodrome).	26·9	..	31·9	19	20·7	..	19·3	11	69·0	240.9	..	58·3	2	17	..	..	..	..	0	22	0	0	5	1	0	0	0	0	0
Gadag	30·3	+1·9	34·3	18	21·5	+0·4	20·7	4days	5·2	43.6	−29·8	25·8	20	4	−2·9	19·5	17·4	−2·4	1	7	0	0	0	0	0	0	0	0	0
Raichur	33·8	+1·4	37·1	24	24·1	+1·4	22·2	27	29.8	47·1	−12·3	13·3	27	4	−4·4	18·8	19·6	+4·2	0	14	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																														
Bellary	33·2	+0·6	35·8	19	24·5	+0·6	22·9	28	0	18·8	−22·1	11·0	21	3	−0·4	16·3	14·0	+0·3	0	3	0	0	0	0	0	0	0	0	0
Chitaldrug	28·2	+0·1	32·8	16	21·4	+0·9	20·0	27	26·4	86.2	+13·1	14.5	19	10	+1·8	12·5	11·0	−2·2	2	14	0	0	0	0	0	0	0	0	0
Shimoga	27·9	..	32·4	19	21·4	..	20·5	11	40.2	198.0	..	32·2	1	14	..	9·0	6·1	..	0	19	0	0	2	0	0	0	0	0	0
Balehonnur	23·7	+0·9	29·1	18	18·9	+0·3	18·1	15	..	1042·1	+163·5	157·3	3	24	−4·3	..	..	..	0	26	0	0	0	0	0	0	0		0
Hassan	25·2	−0·1	29·7	16,18	19·5	+0.8	18·4	28	41.8	120·4	−26·9	28·6	4	12	−1·2	14·3	11·3	0	0	20	0	0	2	0	0	0	0	0	0
Mysore	28·4	+0·5	32·3	16	20.2	+0.6	19.3	2	24·2	117·5	−49·4	24.6	17	8	+0·7	11·0	9·4	−4·9	0	14	0	0	3	0	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimeteres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Interior Mysore (South)—*Contd.*																														
Bangalore (Central Observatory).	27·9	+0·5	30·9	12	20·1	+1·4	19·3	8	28.0	103.8	+4·0	32.4	16	9	+1·0	18·1	15·1	+1·6	1	16	0	0	3	0	0	0	0	4	0
Bangalore (Aerodrome).	28·5	..	32·3	18	20·4	..	19 6	4 days	39.3	104.0	..	16.3	20	9	..	..	..	..	2	13	0	0	4	0	0	0	0	0	0
Kerala																														
Kozhikode	28·8	+0·8	31·0	16	23·1	−0·3	21·5	1	227.2	865.6	+41·1	94.2	28	21	−5·5	11·1	10·1	+2·4	0	23	0	0	4	0	0	0	0	0	0
Palghat	28·7	..	32·6	16	22·7	..	20·8	1	223.4	577.2	.	105.5	4	19	..	13·8	11·2	..	0	26	0	0	2	0	0	0	0	0	0
Fort Cochin	28·4	+0·3	30·0	1,2	24·0	+0·3	22·6	29	134.2	558·2	−23·9	61·1	28	22	−2·2	13·2	9·8	+1·8	0	27	0	0	2	0	0	0	0	0	0
Cochin (Naval Air Station).	29·1	..	32·2	6	23·8	..	22·6	28	170.7	618·9	..	76·2	4	22	..	11·4	8·2	..	0	27	0	0	5	0	0	0	0	9	0
Alleppey	28·9	..	30·6	1	23·4	..	22·0	22, 28	135.6	615·4	..	47·0	16	22	..	14·6	12·2	..	0	26	0	0	3	0	0	0	0	0	0
Punalur	30·6	..	32·8	16	23·5	..	22·8	22	104.4	432·9	..	57·2	22	18	..	7·5	4·5	..	0	19	0	0	0	0	0	0	0	0	0
Trivandrum	29·5	+0·3	31·7	16	23·0	−0·2	21·7	4,28	82·5	302·3	+104·9	54·5	3	15	+0·7	14·3	10·2	−0·1	1	22	0	0	3	0	0	0	0	0	0
Trivandrum (Aerodrome)	29·4	..	31·5	10	23·3	..	21·8	26	..	252·2	..	48·2	20	15	..	..	8·2	..	0	19	0	0	2	0	0	0	0	0	0
Arabian sea Islands																														
Minicoy*																														
Amini Divi*																														
Hill Stations excluding Kashmir																														
Walong (R)																														
Kohima	24·4	..	28.4	3	18·9	..	17·7	3 days	160.5	447.6	..	62.4	6	25	..	..	..	..	0	26	0	0	12	0	0	0	0	0	0
Aijal	23·9	..	27·8	1,2	19·3	..	15.5	13	101.7	269.5	..	53.5	11	20	..	1·8	1·2	..	0	29	0	0	0	0	0	0	0	0	0
Shillong	23·8	−0·3	26·7	3	18·3	+0·2	17·1	24	194.1	496.1	+149·4	111.0	10	14	−4·2	5·2	4·2	+0·7	0	22	0	0	1	0	0	0	0	0	0
Cherrapunji	20·9	−1·5	..	..	18·3	−0 2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Darjiling (Raj Bhawan).	18·8	−0·8	21·9	3	15·5	+0·2	14.6	20	298.2	831.1	−5·1	77.4	14	30	+4·4	1·2	0.8	−1·5	0	31	0	0	2	19	0	0	0	0	0
Kalimpong	25·6	+1·5	29·7	15	18·1	−1·5	14.5	15, 24	45.8	801.4	+223.3	127.0	19	23	+1·1	7·5	5.6	−3·1	0	23	0	0	0	7	0	0	0	0	0
Mukteswar (Kumaon).	20·8	0	24·1	23	15·1	+0.7	13·0	20	126.8	299·8	−14·4	69·0	18	19	+1.2	11·4	12·7	+4·3	0	23	0	0	10	25	0	0	0	0	0
Nainital	21·1	..	25·1	4	17.3	..	15·6	21, 27	259·0	814·0	..	207·0	18	24	..	10·1	8·3	..	0	25	0	0	0	0	0	0	0	0	0
Joshimath	25·2	..	28·3	1	17·6	..	15·8	21	36·6	340.6	..	61·5	30	23	..	6·6	4·4	..	0	25	0	0	0	0	0	0	0	0	0
Badrinath	16·4	..	18.1	25	12.1	..	10.6	17, 18	..	174.7	..	15.0	18	22	..	..	..	..	0	23	0	0	0	0	0	0	0	0	0
Lokpal	9.7	..	11·7	6	5·6	..	3·7	3	..	615·4	..	45·4	1	29	..	..	..	..	0	30	0	0	0	0	0	0	0	0	0
Mussooree	20·7	0	24·3	4	15.6	−0·3	13.6	20	341·0	689·0	−8·5	77·4	15	21	−2·2	7·1	5·9	−0.9	0	24	0	0	10	9	0	0	0	0	0
Simla	21.0	−0·6	23·6	5,25	15·7	+0·6	12·7	20	192·4	481·5	+67·5	67·1	11	19	−0·7	3·5	3·1	+0·4	0	25	0	0	1	0	0	0	0	0	0
Dharampore	..	..	..	..	..	..	..	..	..	660·7	+257·1	97·0	19	18	+0.3	..	..	..	0	21	..	..	..	..	..	..	..	..	..
Dalhousie (R)	..	..	..	..	..	..	..	..	283·9	930·3	+373.5	124.4	18	14	−6.0	2.3	2.4	..	0	14	0	0	1	0	0	0	0	0	0
Dharamshala	27.6	..	32·2	4	21·4	..	18·9	20	349·8	984.8	..	116·8	29	23	..	6·7	4·8	..	0	27	0	0	14	0	0	0	0	0	0
Abu	24·5	+0·4	30·3	2,3	19·9	+1 0	18·9	5 days	279·0	630·0	+71.5	131·8	4	20	+2·2	17.0	9.1	−3.8	0	20	0	0	5	0	0	0	0	0	0
Pachmarhi	25.9	+1·2	37·4	25	20·3	+0·4	18·9	8, 9 11	125·8	291·4	−374·8	47·2	4	20	−2·0	7.8	9·0	−2·6	0	25	0	0	5	3	0	0	0	0	0
Mahabaleshwar	20·4	+1·8	25·9	21	16·9	+0·1	15·7	12	886·8	2426.4	−249·0	262.0	3	26	−4·1	15·8	17·0	−3·6	1	27	0	0	1	30	0	0	0	0	0
Mercara	21·6	+1.2	26·0	18	17·2	+0.5	16·6	27, 31	439·0	1074.6	−20.4	148.7	3	25	−3.5	16.9	15·0	+3.4	0	28	0	0	0	0	0	0	0	0	0
Kodaikanal	17·3	+0·5	20·4	23	11·6	+0·4	10·5	31	79·8	223·3	+105.2	34·9	17	18	+7·8	14·9	16·3	−0·6	1	24	0	0	7	3	0	0	3	0	0
Ootacamund	17·4	+0·8	20·6	17,18	10·4	−0·8	8·9	11, 15	88·3	213.8	+1·5	29.8	2,9	15	−0·8	8·0	5·2	−4·5	0	22	0	0	0	0	0	0	0	0	0
Coonoor	21·1	−0·5	23·3	31	15·2	+0·1	13·4	9,12	..	192.0	+125·7	46.0	19	14	+7·0	..	7·3	−0·6	0	17	0	0	3	0	0	0	0	0	0
Nepal																														
Kathmandu	27·5	..	29·6	2	20·0	..	18·7	8	92·2	365·1	..	59.4	29	19	..	2·3	1·2	..	0	22	0	0	6	0	0	0	0	0	0
Sikkim																														
Lachen	18·8	..	20·8	28	12·1	..	9·7	11	..	285·6	..	24.4	8	30	..	..	..	..	0	31	0	0	0	0	0	0	0	0	0
Tibet																														
Yatung (Chumbi) (R)																														
Ceylon																														
Colombo	29·4	−0·3	30·7	15	24·2	−0·8	22·1	18	95·2	467·1	+340·4	191·3	18	16	+7·6	..	..	..	0	19	0	0	4	0	0	0	0	0	0
Trincomalee	32·3	−1·1	35·3	4	25·0	−0·3	22·6	7,17	10·7	275·2	+229·7	106·2	1	7	+4·7	..	..	..	0	7	0	0	4	0	0	0	0	0	0
Batticoloa	32·1	..	35·4	1,4	24·9	..	22·7	6	56·6	200·0	..	86·4	17	7	..	..	..	..	0	11	0	0	6	0	0	0	0	0	0
Hambantota	29·9	−1·0	34·4	4	24·7	+0.1	22·9	10	31·7	106.6	+52·5	65·3	18	9	+4·8	..	..	..	0	13	0	0	2	0	0	0	0	0	0
Mannar	30·6	..	33·3	11	25·6	..	23.1	7	14·5	26·7	..	14·0	19	3	..	..	..	..	0	5	0	0	0	0	0	0	0	0	0

Register not received.

*Date given as addenda in December, 1960 issue.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm.)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thudder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories.																													
Damodar Catchment.																													
Bokaro	31·1	..	36·2	1	24·8	..	22·4	20	209·4	333·2	..	72·8	4	19	..	7·0	5·2	..	0	26	0	0	12	0	0	0	0	0	0
Hazaribagh	28·8	..	33·3	1	22·9	..	22·3	21	144·8	256·1	..	51·7	4	18	..	14·0	8·8	..	0	23	0	0	3	0	0	0	0	0	0
Tilaiya	31·1	..	36·1	1	24·6	..	21·9	26	77·7	204·8	..	48·6	5	16	..	13·0	10·9	..	0	21	0	0	0	0	0	0	0	0	0
Ramgarh	31·3	..	36·2	1,2	24·0	..	22·2	12	..	396·9	..	52·0	24	20	..	4·6	2·5	..	0	25	0	0	0	0	0	0	0	0	0
Panchet Hills	32·1	..	36·3	1	26·0	..	24·5	22	159·6	228·3	..	41·2	6	16	..	13·5	11·6	..	0	23	0	0	10	0	0	0	0	0	0
Durgapur	32·0	..	36·0	1	24·2	..	22·8	19,20	..	379·5	..	62·5	13	17	..	..	..	..	0	22	0	0	0	0	0	0	0	0	0
Maithon	32·2	..	36·2	2	24·9	..	23·3	19	..	278·2	..	46·0	4	19	..	..	..	..	0	24	..	..	..	..	..	..	..	..	..
Konar									..	315·5	..	67·9	6	15					0	21									
Manahadi Catchment.																													
Hirakud	31·1	..	35·5	2	24·9	..	22·8	12	253·0	564·5	..	61·8	7	25	..	8·2	6·3	..	0	30	0	0	16	0	0	0	0	0	0
Khijrawan	29·0	..	32·4	24	23·9	..	21·3	8	278·7	508·1		153·8	2	18	..	(c) 11·5	7·4	..	0	22	0	0	0	0	0	0	0	0	0
Sonepur	31·1	..	34·2	24	..	..	..	..	..	780·6	..	74·4	13	20	..	..	7·4	..	0	22	..	..	..	..	..	..	..	..	..
Ginabahar	30·0	..	36·3	1	23·7	..	22.0	21	..	591·4	..	84·8	4	26	..	..	..	..	0	28	..	..	..	..	..	..	..	..	..
Bhimkund	29·8	..	33·4	22	23·5	..	21·3	12	96·7	262·7	.	81·0	25	18	..	3·4	2·0	..	0	25	0	0	3	0	0	0	0	0	0
Narbada Catchment.																													
Punasa	32·0	..	38·3	24	22·0	..	20·3	3,4,5	38·8	138·3		64·6	30	10	..	10·8	7·7	..	0	10	0	0	0	0	0	0	0	0	0
Bagra Tawa	31·4	..	36·2	25	24·7	..	22·6	14	305·3	284·7	..	60·2	4	15	..	8·4	7·0	..	0	19	0	0	3	0	1	0	0	0	0
Thikri	33·4	..	39·2	23	24·8	..	22·5	26	..	163·0	..	60·0	2,6	10	..	..	..	..	3	17	0	0	6	0	0	0	0	0	0
Sabarmati Catchment.																													
Jhadol	30·0	..	36·2	5	21·7	..	20·0	22,24 25	..	168·0	..	65·0	5	6		..	..	..	0	6	..	..	..	..	..	..	..	..	..
Dharoi	33·5	..	37·9	23	25·4	..	24·2	8,28	130·6	290·0	..	67·0	28	15	..	..	..	..	0	15	..	..	..	..	..	..	..	..	..
Ganga Catchment.																													
Mukhim	(a) 23·6	..	26·4	1,2	(a) 17·5	..	15·4	20	128·6	431·5	..	65·4	2	21	..	..	..	..	0	24	0	0	9	9	0	0	0	0	0
Tehri	33·5	..	38·9	2	23·9	..	21·5	2	45·9	204·2	..	50·2	2	14	..	5·1	3·8	..	0	18	0	0	4	0	0	0	0	0	0
Gandak Catchment																													
Gorkha (R)																													
Pokhara	29·3	..	31·9	2	22·2	..	21·1	21	117·6	798·4	..	96·6	4	23		5·2	3·8	..	0	27	0	0	7	0	0	0	0	0	0
Nawakot	29·6	..	32·5	2	21·4	..	20·3	15,16	125·6	446·6	..	74·8	25	23	..	..	..	..	0	24	..	..	..	..	..	..	..	..	..
Jomosom	24·1	..	26·3	29	14·3	..	12·4	3	0	36·5	..	13·1	8	5	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Kundi Bazar	..	..	..	..	..	..	..	..	..	638·5	..	67·3	17	26	..	..	..	..	0	29	..	..	..	..	..	..	..	..	..
Timure	25·4	..	27·6	2	17·9	..	15·8	12	10·5	293·6	..	35·3	25	26	..	..	..	..	0	29	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Gogra Catchment.																													
Dandeldhura	23·6	..	26·5	3	(a) 17·5	..	(a) 16·0	1	115·4	327·6	..	52·5	7	22	..	..	..	..	0	23	0	0	1	25	0	0	0	0	0
Munsiyari	21·1	..	23·4	24	16·2	..	14·0	1	45·6	886·5	..	124·7	19	26	..		..	..	0	27	..	..	..	..	..	..	..	..	..
Butwal	32·1	..	34·9	3	25·7	..	23·4	18	361·3	770·7	..	245·4	18	18	..	..	..	..	0	19	..	..	..	..	..	..	..	..	..
Bagmati Catchment.																													
Katmandu†																													
Kosi Catchment.																													
Chautara	26·3	..	28·3	1	18·0	..	19·0	15	89·9	496·8	..	55·8	25	20	..	..	..	..	0	25	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	43·2	523·0	..	43·9	7	29	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Okhaldunga	23·7	..	27·3	3	17·3	..	16·3	13,21	199·0	492·0	..	60·2	16	22	..	1·5	1·3	..	0	28	0	0	1	16	0	0	0	0	0
Barahkshetra	30·5	..	34·7	3	24·1	..	22·9	20	345·7	650·8	..	126·2	25	22	..	6·4	3·5	..	1	26	0	0	7	0	0	0	0	0	0
Angbung	(a) 28·5	..	(a) 31·6	3	19·5	..	18·2	21	32·0	154·0	..	31·0	17	13	..	..	..	..	0	17	..	..	..	..	..	..	..	..	..
Taplejung	24·1	..	26·7	3	17·5	..	15·9	11	73·1	322·7	..	50·9	17	20	..	..	..	..	1	27	0	0	1	15	0	0	0	0	0
Taplethok	27·1	..	29·9	13,29	18·8	..	17·6	11	112·4	552·0	..	49·8	8	27	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Wallungcheag Gola	17·0	..	19·8	3	10·2	..	8·0	12	107·0	370·0	..	36·2	26	28	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Bhojpur	23·9	..	26·6	3	..	..	..	..	71·5	215·0	..	33·3	17	16	..	..	..	..	0	20	..	..	..	..	..	..	..	..	..
Chainpur	27·7	..	30·5	1	20·6	..	19·4	9	26·8	127·8	..	14·6	31	17	..	..	..	..	0	26	..	..	..	..	..	..	..	..	..
Tista Catchment.																													
Gangtok	21·6	..	26·7	1	16·7	..	15·9	18	181·3	607·7	..	56·1	3	28	..	1·9	1·8	..	0	31	0	0	3	28	0	0	0	0	0
Geyzing	25·0	..	28·7	28	18·5	..	17·6	3,18	118.2	543·0	..	54·3	14	23		..	..	..	0	28	..	..	..	..	..	..	..	..	..

(a) Mean 30 of days. †Data included under 'Nepal.' (R) Register not received. (c) Mean of 28 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1960 (ASADHA 10—SRAVANA 9, 1882 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1004·8	1001·7	..	28·0	26·5	25·9	33·2	89	..	5·9	..	8·0	0	1	28	0	3	0	1	0	24	1	0	2	0
	1730	"	1005·9	1002·8	..	27·4	26·5	26·0	33·1	92	..	5·9	..	8·3	0	1	30	0	1	0	4	1	19	0	0	0	6
Long Island	0830	25	1008·1	1005·3	..	28·0	26·0	25·7	32·0	85	..	6·0	..	1·3	0	0	11	1	0	0	1	2	4	3	0	20	0
	1730	"	1005·8	1003·0	..	27·9	25·7	24·7	31·2	83	..	6·4	..	0.7	0	0	5	0	0	0	2	0	2	1	0	26	0
Port Bilar	0530	79	1007·4	998.5	..	25·3	24·7	24·6	28·7	95	..	7·0	..	8·9	0	4	18	0	0	2	1	2	12	5	0	9	0
	0830	"	1008·6	999.7	+1·2	27·8	25·8	24·9	31·7	84	0	6·7	+0·1	10·8	0	5	20	0	0	3	1	2	12	7	0	6	0
	1130	"	1007·8	999·0	..	28·9	26·0	24·9	31·5	82	..	6·9	..	14·5	0	5	26	0	0	3	5	5	13	5	0	0	0
	1730	"	1006·5	997·6	..	26·8	25·3	24·5	30·1	87	..	6·4	..	10·9	0	4	25	0	0	1	2	3	18	5	0	2	0
	2330	"	1008·1	999·2	..	25·7	24·8	24·4	30·7	93	..	5·9	..	9·6	0	3	20	0	0	2	1	1	12	7	0	8	0
Car Nicodor	0830	10	1009·1	1007·9	..	28·1	25·8	24·8	30·4	82	..	6·5	..	4·1	0	0	26	0	0	0	4	1	19	2	0	5	0
	1730	"	1007·0	1005·8	..	27·4	25·5	24·5	31·0	85	..	6·6	..	2·9	0	0	16	0	0	0	0	1	14	1	0	15	0
Nancowry	0830	26	1009·6	1006·7	..	27·7	25·7	24·8	31·0	84	..	6·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	1007·3	1004·4	..	27·4	25·5	24·7	31·0	85	..	5·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kondul	0830	8	1009·7	1008·8	..	27·8	25·3	24·3	30·2	82	..	6·8	..	7·0	0	2	24	0	1	1	24	0	0	0	0	5	0
	1730	"	1007·5	1006·6	..	26·8	25·1	24·4	30·5	87	..	6·9	..	4·8	0	0	15	0	0	0	15	0	0	0	0	16	0
Assam (Including Manipur, Tripura																											
Pasighat	0830	157	1003.8	986·1	..	25·2	24·5	24·2	30·2	94	..	7·9	..	1·8	0	0	10	1	3	2	1	1	0	0	2	21	0
	1730	"	1000·2	982·8	..	27·7	25·5	24·5	30·8	84	..	6·3	..	1·4	0	0	11	1	1	3	1	0	3	0	2	20	0
Digboi	0830	"	..	..	..	26·5	25·1	24·4	30·8	89	..	(b) 6·0	..	..	0	0	29	2	10	7	6	0	1	3	0	0	0
	1730	"	..	..	..	28·7	25·8	24·5	31·1	78	..	(g) 5·0	..	..	0	0	24	3	4	5	7	0	1	4	0	0	0
Dibrugarh	0830	106	1003·3	991·4	+0·8	26·2	25·4	25·0	31·7	94	+7	7·5	+0·9	1·8	0	0	14	0	1	8	0	3	2	0	0	17	0
	1730	"	999·7	987·9	..	29·1	26·5	25·5	32·5	82	..	5·7	..	1·8	0	0	16	0	1	8	0	1	4	1	1	15	0
Dibrugarh (Mohanbair Aerodrome)	0230	111	1001·6	989·1	..	25·5	24·7	24·3	30·4	96	..	7·4	..	1·7	0	0	10	0	2	3	1	1	1	1	1	21	0
	0530	"	1002·4	989·9	..	24·9	24·5	24·3	30·6	93	..	8 0	..	1·3	0	0	10	0	1	7	2	0	0	0	0	21	0
	0830	"	1003·6	991·1	..	26·4	25·3	24·9	31·3	92	..	7·7	..	2·2	0	0	14	1	3	8	0	1	1	0	0	17	0
	1130	"	1002·3	990·1	..	28·4	26·0	25·1	30.4	83	..	7·4	..	4·1	0	0	24	0	8	3	2	1	6	2	2	7	0
	1730	"	999·7	987·3	..	28·9	26·1	24·8	31·6	80	..	6·5	..	3·5	0	0	22	0	12	3	2	1	1	1	2	9	0
	2330	"	1002·2	989·6	..	25·8	25·0	24·6	31·0	94	..	7·0	..	2·7	0	1	10	0	4	5	0	0	1	1	0	20	0
North Lakhimpur	0830	102	1003·2	991·7	..	26·7	25·6	25·0	31·9	91	..	7·2	..	..	0	2	26	5	6	4	1	7	4	0	1	3	0
	1130	"	1002·4	991·1	..	28·8	26·3	25·3	32·3	82	..	6·5	..	..	0	4	25	0	4	5	3	8	9	0	0	2	0
	1730	"	999·9	988·6	..	28·5	26·5	25·6	33·0	85	..	5·5	..	..	0	2	27	2	6	4	0	6	10	0	0	2	0
Sibsagar	0830	97	1003·8	992·8	+1·4	28·1	25·3	25·1	29·9	84	—3	7·5	+0·3	3·1	0	0	18	0	2	1	0	4	10	0	1	13	0
	1730	"	999·6	989·8	..	30·1	27·0	25·7	33·2	78	..	6·5	..	3·8	0	0	23	7	2	1	1	4	7	0	1	8	0
Jorhat	0530	90	1001·8	991·7	..	25·6	25·0	24·8	31·3	95	..	..	..	..	0	0	17	0	1	0	0	6	10	0	0	14	0
	0830	"	1002·8	992·8	..	28·1	25·9	25·0	31·6	85	..	7·1	.	..	0	2	23	3	3	0	0	5	12	1	1	6	0
	1130	"	1001·9	992·8	..	30·5	26·7	25·6	31·6	77	..	6·5	..	..	0	2	27	1	7	0	0	3	13	3	2	2	0
	1730	"	999.0	989·8	..	29·4	26·4	25·1	31·9	79	..	5·8	..	..	0	2	22	1	6	1	0	0	8	4	4	7	0
	2330	"	1001·7	991·7	..	26·3	25·4	25·1	31·8	94	..	5·6	..	..	0	0	11	1	1	0	3	2	2	2	0	20	0
Golaghat*	0830	..	..	..	..	27·9	26·1	25·2	32·4	86	..	5·4	..	..	0	0	1	0	0	0	1	0	0	0	0	30	0
	1730	..	..	..	..	29·8	27·5	26·1	34·8	83	..	(c) 5·4	..	..	0	0	0	0	0	0	0	0	0	0	0	28	0
Gohpur (R)	0830																										
(R)	1730																										
Tezput	0830	79	1003·7	995·0	+1·3	26·9	25·6	25·3	31·6	90	+4	7·1	+0·5	3·0	0	0	26	0	6	5	5	4	6	0	0	5	0
	1730	"	1000·6	991·9	..	28·9	26·6	25·8	33·1	83	..	5·7	..	1.8	0	0	17	0	3	4	0	5	1	4	0	14	0
Tezpur (P.B.O.)	*0230	78	1002·3	993·4	..	26·1	25·2	24·9	31·4	94	..	4·0	..	..	0	0	0	0	0	0	0	0	0	0	0	17	0
	†0530	"	1002·2	993·4	..	26·0	25·4	25·2	32·1	95	..	6·7	..	..	0	0	4	0	1	0	0	2	1	0	0	24	0
	0830	"	1003·5	994·7	..	27·4	25·8	25·2	31·8	88	..	7·0	..	..	0	0	21	1	2	4	1	5	5	2	0	10	0
	1130	"	1002·7	993·9	..	29·1	26·3	25·0	32·0	79	..	6·4	..	..	0	0	17	0	3	2	0	1	7	4	0	14	0
	1730	"	999·9	991·2	..	29·5	26·5	25·1	31·9	78	..	(a) 6·2	..	..	0	0	7	0	0	2	0	3	1	1	0	23	0
	‡2330	"	1003·5	994·5	..	26·8	25·5	25·0	31·4	90	..	6·6	..	..	0	0	7	1	1	1	0	2	3	0	0	9	0
Majbat	0830	..	..	..	..	..	..	..	..	..	..	7·6	..	..	0	0	30	0	5	5	1	3	8	6	1	1	0
	1730	..	..	..	..	..	..	..		..	..	6·9	..	4·6	0	0	34	1	4	3	0	7	5	3	1	6	0
Chaparmukh ‡‡	0830	66																									
	1730																										
Tangla	0830	78	1002·4	993·6	..	27·7	26·2	25·5	31·9	88	..	5 4	..	1·0	0	0	7	0	1	2	1	0	1	2	0	24	0
	1730	"	998·8	990·3	..	29·6	27·2	26·2	34·2	81	..	3.5	..	0·5	0	0	4	0	0	0	0	0	4	0	0	27	0

‡‡ Tempo arily Closed from 7-7-60 (R) Register not received. (a) Mean of 30 days. (b) Mean of 29 days. * Observations for 17 days. ‡ Observations for 16 days.
† O bservatior s for 28 di ys. (g) Mean of 24 days. (a) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —*Contd.*																											
Gauhati	0830	55	1002·8	996·5	+1·1	27·7	25·9	25·2	32·1	87	+4	6·6	+0·2	1·0	0	0	10	0	4	3	0	0	0	0	3	21	0
	1730	"	999·8	993.5	..	29·6	27·3	26·3	34·5	83	..	6·2	..	0·7	0	0	6	0	2	2	1	0	0	0	1	25	0
Gauhati (Bhorjor Aerodrome)	*0230	54																									
	0530	"	1001·7	995·5	..	26·1	25·4	25·1	32·0	94	..	7·5	..	2·7	0	0	13	2	4	2	0	1	1	1	2	18	0
	0830	"	1003·9	996·7	..	27·8	26·1	25·3	32·5	87	..	7·5	..	5·1	0	1	20	3	6	1	2	2	0	4	3	10	0
	1130	"	1002·1	996·0	..	30·0	26·9	22·4	33·1	79	..	6·7	..	7·2	0	0	26	9	9	1	0	0	1	4	2	5	0
	1730	"	999·6	993·6	..	29·5	26·8	25·6	32·7	80	..	7·0	.	6·4	0	1	27	5	3	1	2	3	0	8	6	3	0
	*2330	"																									
Rangiya	0830	..	..	..	..	28·0	26·1	25·3	32·3	85	..	5·6	..	4·0	0	0	28	0	5	7	1	1	3	9	2	3	0
	1730	..	..	..	..	31·2	27·3	25 7	33·0	75	..	4·6	..	3·8	0	0	30	1	3	7	2	1	4	11	1	1	0
Goalpara	0830	38	1002·3	998·1	..	27·2	25·7	25·2	31·9	89	..	7·0	..	..	0	0	28	2	5	2	9	1	9	0	0	3	0
	1730	"	999.3	995 3	..	29·4	26·9	25·9	33·5	82	..	6·9	..	..	0	0	23	0	1	1	6	0	11	1	3	8	0
Dhubri	0830	35	1003·5	999·3	+1·7	27·5	26·0	25·4	32·4	89	+4	5·4	−0·6	1·1	0	0	10	0	3	2	1	4	0	0	0	21	0
	1730		1000.3	996·3	..	28·3	26·5	25·7	33·1	86	..	6·6	..	1·9	0	1	8	0	2	1	2	2	1	1	0	22	0
Dhubri (Rupsi Aerodrome)	0530	36	1000·8	996·7	..	25·8	25·3	25·1	31·8	96	..	7·2	..	2·0	0	0	10	0	0	3	3	2	2	0	0	21	0
	0830	"	1001·8	997·7	..	27·8	26·1	25·4	32·5	87	..	7·1	..	4·8	0	0	23	0	0	4	9	5	5	0	0	8	0
	1130	"	1001·4	997·3	..	29·3	26·7	25·7	32·9	82	..	7·0	..	7·1	0	0	27	0	1	2	11	5	6	1	1	4	0
	1730	"	999·1	995·1	..	28·7	26·7	25·8	33·5	84	..	6·9	..	3·6	0	0	21	0	0	1	4	8	7	1	0	10	0
Tura	0830	370	1005·4	964·1	..	25·4	24·2	23·6	29·3	89	..	7·7	..	4·9	0	0	27	1	2	5	5	6	5	2	1	4	0
	1730	"	1003·1	961·0	..	27·0	24·7	23·0	29·3	80	..	7·7	..	7·4	0	0	30	1	0	1	7	8	10	2	1	1	0
Agartala	0230	16	1001·7	999·9	..	25·5	25·0	24·7	31·3	96	..	7·1	..	11·2	0	0	30	0	0	1	12	17	1	0	0	0	0
	0530	"	1002·0	1000·2	..	25·3	24·9	24·6	31·3	96	..	7·4	..	8·9	0	0	31	0	2	2	14	12	1	0	0	0	0
	0830	"	1003·1	1001·3	..	27·9	26·1	25·5	32·3	87	..	7·3	..	13·3	0	2	29	0	1	0	12	16	2	0	0	0	0
	1130	"	1002·5	1000·8	..	28 9	26·6	26·1	33·0	83	..	7·4	..	14·5	0	3	28	0	0	1	7	18	4	1	0	0	0
	1730	"	1000·3	998 5	..	27·8	26·0	25·2	32·2	86	..	7·0	..	11·5	0	0	31	1	0	0	8	21	1	0	0	0	0
	2330	"	1002·7	1000·9	..	25·9	25·2	24·8	31·5	94	..	6·9	..	11·2	0	0	31	0	1	0	13	17	0	0	0	0	0
Kailashar	0530	29	1013 5	1000·2	..	25·4	24·6	24·3	30 2	94	..	7·1	..	3·1	0	0	15	0	1	1	2	11	0	0	0	16	0
	0830	"	1004·6	1001·4	..	27·6	25·6	24·7	31·3	86	..	7·5	..	5.2	0	0	29	1	3	0	7	16	2	0	0	2	0
	1130	"	1003·9	1000·6	..	29·4	26·5	25·1	31·6	78	..	7·3	..	9 1	0	2	28	0	3	0	1	22	4	0	0	1	0
	1730	"	1001·6	998 4	..	28·3	25·9	25·0	31·4	83	..	7·2	..	5 5	0	1	25	2	1	0	3	15	3	2	0	5	0
Silchar	0830	29	1004·4	1001·1	+1·5	27·1	25·5	24·7	31·4	88	+3	6·9	+0·7	2·0	0	0	21	3	10	4	2	1	0	0	1	10	0
	1730	"	1001·6	998·4	..	27·8	25·8	24·7	31·7	85	..	6·6	..	1·4	0	0	13	1	1	0	0	1	5	4	1	18	0
Silchar (Kumbhigram Aerodrome)	0530	97	1002·3	991·3	..	24·4	24·1	23·9	29·8	98	..	7·8	..	6·2	0	0	30	4	6	13	1	0	1	2	3	1	0
	0830	"	1003·1	992·2	..	26·4	25·1	24·4	30·7	90	..	7·5	..	6·8	0	0	30	1	7	12	4	0	2	3	1	1	0
	1130	"	1002·3	991·5	..	28·6	25·9	24·7	31·0	80	..	7·1	..	7·4	0	0	31	1	5	6	1	2	4	10	2	0	0
	1730	"	1000·0	989·5	..	27·2	25·5	24·8	31·2	88	..	7·3	..	7·2	0	1	29	0	4	5	3	1	2	10	5	1	0
Imphal	0530	801	1004·5	917·3	..	22·6	21·5	20·9	24·8	90	..	7·6	..	2·6	0	0	12	0	1	0	0	4	4	2	1	19	0
	0830	"	1004·9	918·3	..	24·8	22·3	21·2	25·0	80	..	7·2	..	3·5	0	0	18	0	0	1	7	2	6	1	1	13	0
	1130	"	1003·7	917·4	..	26·4	22·9	21·2	25·2	74	..	7·4	..	7·4	0	0	27	2	0	3	1	5	11	4	1	4	0
	1730	"	1001·8	915·4	..	24·9	22·4	21·2	25·3	80	..	7·2	..	6·5	0	1	23	1	0	1	0	5	11	4	2	7	0
	2330	"	1004·5	917·5	..	23·4	22·2	21·6	26·0	90	..	7·3	..	3·3	0	0	17	1	1	2	2	2	7	2	0	14	0
Haflong	0830	682	1000 6	928.8	..	22·8	21·6	21·1	25·0	90	..	6·7	..	11·4	0	3	28	0	0	0	0	6	25	0	0	0	0
	1730	"	999·6	925·4	..	24·0	22·6	21·6	26·5	86	..	6·8	..	10·3	0	3	28	0	0	0	0	4	27	0	0	0	0
Lumdina	0330	149	1003·3	987·1	..	28·1	26.2	25 4	32·3	85	+3	7·1	..	1·9	0	0	17	1	1	4	3	4	3	1	0	14	0
	1730	"	1000·1	983 8	..	30·2	27·9	26·8	35·8	83	..	6·4	..	3·2	0	0	21	1	1	1	3	7	7	0	1	10	0
Sub-Himalayan West Bengal																											
Cooch Behar	0830	43	1002·3	997·5	..	927·7	26·1	25·4	32·4	88	..	7·1	..	7·1	0	1	25	0	2	13	9	1	1	0	0	5	0
	1130	"	1001·8	997·0	..	29·3	26·5	25·4	32·4	80	..	6·8	..	8·4	0	2	29	1	3	11	9	4	3	0	0	0	0
	1730	"	999·2	994·4	..	28·9	26·5	25·5	33·9	83	..	6·6	..	4·3	0	0	21	0	2	6	8	3	1	0	0	10	0
Jalpaiguri	0830	83	1002.1	992·8	+0·7	26·7	25·6	25·2	31·9	91	+3	6·8	+1·5	7·9	0	1	28	2	10	15	0	0	1	1	0	2	0
	1730	"	998·9	939·7	..	29·4	26·7	25·7	32·7	81	..	5·5	..	9.4	0	1	28	2	4	11	7	3	2	0	0	2	0
Bagdogra	0230	131	1000·6	985·9	..	26·1	25·3	24·9	31·5	93	..	7·1	..	5·9	0	0	26	4	8	10	0	0	4	0	0	5	0
	0530	"	1000·9	986·2	..	25·3	24·8	24·5	39·9	95	..	7·5	..	6·6	0	0	27	1	11	10	2	1	2	0	0	4	0
	0830	"	1002·2	987·4	..	27·4	25·2	25·0	30·7	87	..	7·6	..	8·8	0	1	30	0	6	18	5	0	2	0	0	0	0
	1130	"	1002·5	985·9	..	28·9	26·5	25·4	32·7	82	..	7·2	..	9·7	0	0	31	1	4	15	8	1	1	0	1	0	0
	1730	"	998·9	984·3	..	28·6	26·5	25·7	33·9	85	..	7·1	..	8·0	0	0	30	0	7	12	7	0	3	0	1	1	0
	2330	"	1001·6	986·9	..	26·7	25·6	25·1	31·9	91	..	7·3	..	7·3	0	1	28	5	8	9	4	0	1	2	0	2	0

* Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan (West-Bengal)—*Contd.*																											
Malda	0830	31	1001·6	998·1	+1·4	28·6	26·5	25·7	32·9	84	+2	7·1	+1·3	9·9	0	0	30	0	2	6	7	8	7	0	0	1	0
	1730	,,	998·6	995·1	..	29·5	26·8	25·7	33·0	81	..	6·3	..	8·4	0	0	30	0	1	6	9	7	6	0	1	1	0
Gangetic West Bengal																											
Dum Dum	0230	6	1000·6	999·9	..	26·5	25·6	25·2	32·3	93	..	5·4	..	6·9	0	0	29	1	0	4	8	6	9	1	0	2	0
	0530	,,	1000·7	1000·0	..	26·3	25·4	25·1	31·8	93	..	7·0	..	6·5	0	0	29	0	1	6	5	5	11	1	0	2	0
	0830	,,	1001·8	1001·1	..	28·5	26·1	25·1	32·0	82	..	6·9	..	9·7	0	4	26	0	0	4	6	7	12	1	0	1	0
	1130	,,	1001·5	1000·8	..	29·8	26·6	25·3	32·3	78	..	6·6	..	9·5	0	0	31	0	0	2	6	11	10	1	0	0	0
	1730	,,	999·1	998·4	..	28·7	26·4	25·4	32·7	83	..	6·5	..	8·9	0	1	30	0	0	1	9	12	7	2	0	0	0
	2330	,,	1001·5	1000·8	..	26·7	25·7	25·2	32·1	92	..	5·3	..	7·0	0	0	28	1	0	2	8	11	5	1	0	3	0
Calcutta	0830	6	1001·7	1001·0	+1·7	28·4	26·1	25·0	32·0	82	−1	6·7	−0·3	9·8	0	0	30	0	0	5	5	3	16	1	0	1	0
	1130	,,	1001·2	1000·5	..	30·3	26·6	25·2	31·8	75	..	6·6	..	10·1	0	2	29	0	0	2	6	3	17	3	0	0	0
	1730	,,	998·9	998·2	..	29·0	26·4	25·4	32·3	81	..	6·7	..	10·0	0	1	30	0	0	3	5	13	8	1	1	0	0
Barrackpore (Aerodrome)	0530	7	1000·9	1000·1	..	26·2	25·3	24·9	31·6	93	..	6·6	..	10·8	0	0	28	0	1	5	3	9	6	1	0	3	0
	0830	,,	1002·1	1001·4	..	28·3	26·3	25·5	32·7	86	..	6·7	..	15·0	0	8	23	0	1	9	4	4	13	0	0	0	0
	1130	,,	1001·8	1001·1	..	29·8	27·2	26·1	34·1	81	..	6·6	..	16·0	0	8	23	1	0	4	4	8	13	1	0	0	0
	1730	,,	999·4	998·7	..	28·8	26·5	25·5	32·8	83	..	7·0	..	12·1	0	0	30	0	0	4	7	13	4	2	0	1	0
	2330	,,	1001·7	1000·9	..	26·9	25·8	25·2	32·4	91	..	4·8	..	9·1	0	1	28	0	0	7	4	12	4	2	0	2	0
Saugor Island	0830	3	1001·5	1001·2	+1·7	28·2	26·6	26·0	33·4	88	+6	6·4	0·6	26·4	0	21	10	1	1	2	3	6	14	4	0	0	0
	1730	,,	999·2	998·9	..	28·7	27·1	26·1	34·3	87	..	6·1	..	29·0	0	23	8	0	0	1	5	8	13	4	0	0	0
Sandheads	0530	10	1000·7	999·3	..	28·3	26·6	25·9	33·4	86	..	6·7	..	23·3	0	18	13	1	0	0	2	4	20	3	1	0	0
	0830	,,	1001·9	1000·8	+2·0	28·7	26·7	26·0	33·5	86	+4	6·5	+0·3	19·2	0	9	22	0	1	0	3	6	18	3	0	0	0
	1130	,,	1001·8	1000·7	..	28·6	26·5	25·7	32·9	84	..	6·2	..	21·0	0	14	17	0	1	1	4	5	17	3	0	0	0
	1730	,,	999·3	998·2	..	28·7	26·7	25·9	33·5	85	..	6·8	..	22·9	0	17	14	0	0	0	2	8	19	2	0	0	0
	2330	,,	1001·5	1000·4	..	28·6	26·9	26·2	34·2	86	..	1·6	..	23·3	0	18	13	0	0	0	3	9	17	2	0	0	0
Contai	0830	11	1001·8	1000·6	..	28·4	26·4	25·5	32·7	85	..	4·8	..	9·1	0	2	28	0	0	3	5	7	15	0	0	1	0
	1730	,,	999·2	998·1	..	28·5	26·5	25·6	33·0	85	..	4·7	..	12·1	0	3	28	0	0	1	8	10	10	1	1	0	0
Midnapore	0830	45	1001·4	996·4	+1·6	28·5	26·1	25·3	31·1	84	+2	6·1	+0·3	4·3	0	0	27	1	0	3	2	6	13	2	0	4	0
	1730	,,	998·5	993·4	..	28·9	26·4	25·1	32·4	81	..	5·6	..	3·6	0	0	26	0	0	1	2	14	8	1	0	5	0
Purulia	0830	255	1001·4	973·3	..	27·2	24·9	23·9	29·8	82	..	7·5	..	4·3	0	0	29	0	0	0	22	1	5	0	1	2	0
	1730	,,	998·4	970·4	..	28·7	25·5	24·3	30·1	77	..	7·5	..	4·2	0	0	27	0	0	0	18	2	3	1	3	4	0
Burdwan	0830	32	1000·8	997·3	+1·0	28·1	25·9	25·1	31·5	83	−1	6·0	−0·6	11·5	0	3	26	0	1	8	2	0	17	1	0	2	0
	1730	,,	998·7	995·0	..	29·1	27·2	26·4	34·1	85	..	5·2	..	8·3	0	2	27	0	0	3	5	1	20	0	0	2	0
Krishnagar	0830	15	1002·0	1000·3	+1·7	28·8	26·6	25·9	33·1	84	+1	4·9	−1·7	3·8	0	0	29	0	1	6	3	15	4	0	0	2	0
	1730	,,	999·1	997·4	..	29·3	27·1	26·5	34·0	85	..	4·7	..	6·2	0	0	23	0	0	0	0	19	2	2	0	8	0
Asansol	0230	126	999·8	985·6	..	26·3	25·7	25·4	32·6	95	..	6·5	..	9·4	0	2	23	0	0	6	5	7	3	4	0	6	0
	0530	,,	999·9	985·8	..	26·0	25·5	25·3	32·3	96	..	7·2	..	7·3	0	0	24	0	0	7	4	7	1	5	0	7	0
	0830	,,	1001·1	987·1	+2·2	27·8	26·3	25·6	32·0	88	+3	7·3	+0·5	10·6	0	0	29	0	0	10	3	3	9	4	0	2	0
	1130	,,	1000·6	986·7	..	29·9	27·3	26·3	32·9	82	..	7·1	..	8·9	0	2	22	0	2	8	5	3	3	2	1	7	0
	1730	,,	998·1	984·1	..	28·7	26·9	26·2	34·1	87	..	7·1	..	8·1	0	0	24	0	2	7	3	3	4	3	2	7	0
	2330	,,	1000·3	983·7	..	26·5	26·0	25·7	33·3	95	..	6·9	..	9·1	0	1	23	0	0	4	7	6	4	3	0	7	0
Suri	0830	77	1001·9	993·2	..	28·1	26·0	25·1	31·8	84	..	7·5	..	8·5	0	0	31	0	3	4	6	8	9	1	0	0	0
	1730	,,	998·9	990·3	..	28·7	26·2	25·0	32·0	80	..	7·3	..	10·8	0	2	28	0	2	5	7	8	4	3	1	1	0
Berhampore	0830	19	1001·3	999·2	+1·2	28·3	26·5	25·6	33·1	86	+2	7·8	+1·1	1·3	0	0	8	0	0	3	0	4	0	0	0	23	1
	1730	,,	998·2	996·1	..	29·1	26·7	25·7	33·0	82	..	7·6	..	1·2	0	0	9	0	0	3	0	6	0	0	0	22	0
Orissa																											
Baripada (R)	0830	54																									
(R)	1730	,,																									
Balasore	0830	20	1001·6	999·4	+1·3	27·8	26·1	25·4	32·5	87	+5	7·1	+1·2	13·5	0	8	20	2	0	3	0	9	14	0	0	3	0
	1730	,,	998·9	996·7	..	29·0	26·6	25·5	32·8	83	..	6·8	..	11·5	0	4	22	0	0	1	4	9	12	0	0	5	0
Chandbali	0830	6	1002·2	1001·5	+2·3	28·1	26·5	26·0	33·3	88	+4	7·2	+0·8	7·6	0	1	28	0	1	0	4	4	17	3	0	2	0
	1730	,,	998·8	998·1	..	28·7	26·5	25·8	32·8	84	..	7·4	..	11·2	0	4	25	0	1	0	9	3	12	3	1	2	0
Cuttack	0830	27	1001·8	998·8	+1·1	27·5	25·9	25·1	32·1	87	+7	7·0	+0·8	2·6	0	1	6	0	3	0	0	0	4	0	0	24	0
	1730	,,	999·2	996·2	..	28·4	26·2	25·1	32·1	83	..	7·1	..	2·8	0	2	3	0	1	0	0	0	4	0	0	26	0
Bhubaneswar	0230	46	1000·8	995·6	..	26·2	25·3	25·0	31·6	93	..	5·9	..	15·7	0	11	15	2	1	0	0	2	18	3	0	5	0
	0530	,,	1000·8	995·6	..	25·9	25·1	24·8	31·1	93	..	6·6	..	10·9	0	4	22	3	1	0	0	1	18	2	1	5	0
	0830	,,	1002·2	997·0	..	27·6	25·9	25·2	32·1	87	..	7·3	..	14·8	0	8	20	2	1	0	0	2	20	3	0	3	0
	1130	,,	1001·9	996·6	..	29·4	26·5	25·4	32·2	80	..	7·0	..	19·1	0	13	17	0	1	1	1	2	20	3	2	1	0
	1730	,,	499·7	994·5	..	27·9	25·8	24·8	31·4	84	..	7·1	..	19·7	0	14	16	0	1	0	1	6	14	0	2	0	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*Contd.*																											
Bhubaneswar (*Contd.*)	2330	46	1002·0	996·8	..	26·6	25·5	25·1	31·8	92	..	5·6	..	11·2	0	2	21	0	1	1	0	3	13	4	1	8	0
Puri	0830	6	1002·2	1001·5	+1·7	28·5	26·9	26·2	34·2	87	+5	7·1	+1·3	23·1	1	18	12	1	1	0	0	0	20	8	1	0	0
	1730	"	999·8	999·1	..	28·4	26·7	25·9	33·7	85	..	7·4	..	25·2	0	26	5	0	1	0	1	0	23	5	1	0	0
Gopalpur	0530	17	1001·2	999·3	..	26·7	25·8	25·4	32·6	93	..	6·7	..	13·4	0	7	19	1	0	0	1	6	16	2	0	5	0
	0830	"	1002·6	1000·7	+1·9	28·0	26·4	25·8	33·1	88	+7	6·4	+1·4	14·6	0	10	19	1	0	0	0	10	16	1	1	2	0
	1130	"	1002·4	1000·5	..	29·1	26·8	25·9	33·5	84	..	6·8	..	19·4	0	15	15	1	0	0	0	13	13	1	2	1	0
	1730	"	1000·1	998·2	..	28·0	26·5	25·8	33·4	88	..	6·6	..	22·1	0	15	15	0	1	0	0	13	13	2	1	1	0
	2330	"	1002·4	1000.5	..	26·9	25·9	25·5	32·5	92	..	5·8	..	16·4	0	11	17	1	0	0	0	7	17	1	2	3	0
Koraput	0830	913	1464·7	905·9	..	22·7	21·2	20·5	24·2	88	..	5·8	..	13·0	0	4	27	0	0	0	3	0	22	5	1	0	0
	1730	"	1449·7	904·2	..	23·3	21·0	19·7	23·2	81	..	6·0	..	12·3	0	3	28	1	0	0	0	1	14	13	2	0	0
Titilagarh	0830	211	1001·3	977·9	..	27·4	25·4	24·6	30·9	85	..	4·4	..	3·0	0	0	31	1	2	0	5	1	19	0	3	0	0
	1730	"	999·5	976·1	..	27·4	25·5	24·7	31·0	86	..	2·9	..	3·0	0	0	31	0	4	0	6	3	15	0	3	0	0
Bolangir	0830	190	1000·6	979·4	..	26·9	24·9	24·1	30·0	84	..	7·2	..	6·4	0	0	31	1	0	1	5	16	7	0	1	0	0
	1730	"	999·0	977.9	..	27·7	25·6	24·4	31·0	82	..	7·5	..	6·2	0	1	30	2	0	0	4	14	9	0	2	0	0
Phulbani	0830	464	1000·3	949.5	..	25·6	23·6	22·6	27·7	84	..	6·9	..	1·1	0	0	6	1	0	0	0	0	2	3	0	25	0
	1730	"	997·8	947·2	..	26·9	24·6	23·5	29·3	82	..	7·6	..	3·9	0	0	15	2	0	0	0	1	2	8	2	16	0
Angul	0830	139	1002·2	986·7	+1·7	26·8	24·8	23·9	29·6	85	+5	7·7	+1·4	3·1	0	0	27	1	2	3	1	5	4	8	3	4	0
	1730	"	999·3	983·7	..	27·7	25·5	24·7	30·8	83	..	7·9	..	4·3	0	0	31	2	1	7	0	9	3	5	4	0	0
Keonjhar	0830	463	1002·0	948·3	..	25·9	23·3	22·1	26·8	80	..	7·0	..	6·2	0	0	27	2	1	3	2	2	3	13	1	4	0
	1730	"	999·3	945·8	..	26·6	23·5	22·6	28·1	79	..	7·4	..	4·3	0	0	31	0	2	1	5	3	7	13	0	0	0
Sambalpur	0830	148	1002·0	985·7	+1·9	26·9	25·3	24·4	30·8	87	+3	6·8	+0·2	4·1	0	0	27	1	1	0	1	8	15	1	0	4	0
	1730	"	999·0	982·5	..	27·7	25·5	24·4	30·8	83	..	6·8	..	2·9	0	0	20	1	3	0	0	6	6	4	0	11	0
Jaanuguda	0230	230	1000 2	974·5	..	25·0	24·5	24·2	30·2	96	..	7·7(a)	..	4·5(a)	0	0	23	2	3	0	2	5	10	1	0	7	0
	0530	"	1000·5	974·8	..	24·8	24·3	24·0	30·0	96	..	7·6(a)	..	4·3(a)	0	0	24	0	3	1	2	5	10	2	1	6	0
	0830	"	1001·7	976·0	..	26·3	24·9	24·3	30·4	89	..	7·6(a)	..	6·9(a)	0	0	28	1	5	1	1	2	14	3	1	2	0
	1130	"	1001·1	975·7	..	28·5	25·8	24·5	31·0	77	..	7·6(a)	..	9·8(a)	0	0	30	0	5	1	1	2	15	5	1	0	0
	1730	"	998·6	973·2	..	27·8	25·4	24·3	30·6	82	..	7·7 (a)	..	9·4(a)	0	0	30	3	4	0	0	3	15	4	1	0	0
	2330	"	1001·4	975·7	..	25·4	24·6	24·3	31·3	94	..	7·6	..	6·1	0	0	27	0	4	1	2	8	10	2	0	4	0
Bihar Plateau																											
Jamshedpur	0830	129	1001·3	986·9	+2·0	27·4	25·3	24·4	30·4	84	+3	7·1	0	7·6	0	0	27	1	1	7	1	0	9	7	1	4	0
	1730	"	998·1	983·8	..	29·0	26·0	24·7	31·2	78	..	7·3	..	6·1	0	0	25	0	1	6	4	0	5	6	3	6	0
Jamshedpur (P.B.O.)	0530	142	1000·2	984·3	..	25·7	24·6	24·1	29·9	91	..	7·2	..	4·6	0	0	21	0	4	4	2	6	3	2	0	10	0
	0830	"	1001·4	985·6	..	27·1	25·2	24·2	30·4	83	..	7·2	..	7·6	0	0	30	0	3	5	1	7	12	2	0	1	0
	1130	"	1000·9	984·9	..	29·2	25·0	24·7	31·0	76	..	7·0	..	7·5	0	0	30	0	4	6	0	5	12	2	1	1	0
	1730	"	998·2	982·5	..	28·9	25·9	24.6	32·6	79	..	7·5	..	8·5	0	3	27	0	8	3	1	5	8	4	1	1	0
	2330	"	1001·0	985·2	..	26·7	25·2	24·4	30·8	83	..	5·9	..	6·0	0	0	28	0	5	6	0	7	1	7	2	3	0
Chaibasa	0830	226	1001·2	976·1	+1·9	27·1	25·0	24·1	30·0	84	+3	7·3	+0·8	2·5	0	0	22	0	5	0	0	0	17	0	0	9	0
	1730	"	998·1	973·2	..	28·5	25·7	24·3	30·8	77	..	7·0	..	2·8	0	0	25	1	7	0	2	0	12	1	2	6	0
Ranchi	0830	655	1000·8	929·3	+1·5	25·0	22·9	22·1	26·6	83	−2	6·9	+0·3	0·8	0	0	8	0	2	1	0	2	1	1	1	23	0
	1730	"	998·6	927·3	..	25·5	23·5	22·4	27·1	81	..	7·5	..	0·6	0	0	6	0	0	1	0	0	4	1	0	25	0
Ranchi (C.W.O.)	*0530	652	1000·3	928·7	..	23·2	22·4	22.0	26·4	93	..	7·5	..	6·2	0	0	27	0	5	1	0	3	11	7	0	1	0
	0830	"	1000·9	929·8	..	24·8	23·3	22·5	27·3	87	..	7·5	..	8·8	0	1	29	0	4	3	4	3	12	2	2	1	0
	1130	"	1000·2	929·5	..	26·5	23·9	22·9	27·9	81	..	7·5	..	9·5	0	2	29	0	2	6	3	7	11	0	2	0	0
	1730	"	998·4	927·8	..	25·7	23·4	22·4	27·1	82	..	7·4 (h)	..	8·9 (h)	0	0	22	0	1	3	1	2	11	1	3	1	0
Daltonganj	0830	221	1000·3	976·1	+1·6	29·1	26·1	24·5	31·4	79	−1	7·1	+2·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	997·3	972·9	..	29·2	26·5	25·3	32·4	80	..	7·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	1001·0	934·2	+1·6	25·2	23·8	23·2	28·5	89	+4	7·3	+0·2	7·9	0	1	28	0	0	7	1	3	8	9	1	2	0
	1730	"	997·8	931·6	..	26·7	24·4	23·3	29·7	82	..	7·2	..	6·8	0	1	26	0	1	7	2	1	7	4	5	4	0
Dhanbad	0830	257	1001·0	972.4	..	27·1	25·5	24·9	31·3	88	..	7·1	..	4·9	0	0	29	0	0	9	5	1	8	5	1	2	0
	1730	"	998·1	969·8	..	27·9	25·9	25·1	31·8	89	..	6·7	..	3·7	0	0	22	0	0	3	6	2	3	6	1	9	0
Dumka	0830	149	1000·9	984·3	+1·1	27·5	25·8	25.1	31·9	85	+3	6·0	+0·2	7·5	0	0	24	0	0	8	3	6	4	3	0	7	0
	1730	"	998·1	981·7	..	28·7	26·1	24·7	31·8	79	..	5·1	..	6·5	0	0	21	0	0	5	9	5	0	2	0	10	0
Bihar Plains																											
Purnea	0830	38	1001·3	997·1	+1·0	28·3	26·6	25·9	33·3	88	+3	6·5	+0·6	2·9	0	0	25	0	0	14	3	1	4	2	1	6	0
	1730	"	998·5	994·3	..	29·1	26·9	25·9	33·6	86	..	5·1	..	1·8	0	0	15	0	0	10	1	1	2	0	1	16	0
Forbesganj	0830	61	1001·2	994·3	..	27·8	26·3	25·6	33·2	88	..	7·2	..	5.5	0	0	29	0	1	20	4	0	2	2	0	2	0
	1730	"	997·8	991·0	..	30·5	27·1	25·7	33·4	77	..	5·7	..	4·5	0	0	30	0	1	16	7	0	1	5	0	1	0
Darbhanga	0830	49	1001·0	995·5	+1·2	29·5	27·0	25·9	33·6	81	−2	4·9	−1·2	6·0	0	0	30	0	9	11	1	2	5	1	1	1	0
	1730	"	998·1	992·6	..	30·6	27·3	25·8	33·6	76	..	4·7	..	5·1	0	0	31	1	6	12	1	2	6	3	0	0	0

*Observations for 28 days. (a) Mean of 30 days. (h) Mean of 23 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—*Contd.*																											
Motihari	0830	66	1000·5	993·0	+0·8	28·4	26·6	25·8	33·4	86	+5	4·9	−0·1	3·0	0	0	16	0	2	6	6	0	1	1	0	15	0
	1730	,,	997·7	990·2	..	30·4	27·8	26·7	35·4	81	..	4·2	..	2·4	0	0	14	0	3	4	2	0	3	1	1	17	0
Chapra	0830	..	..	..	..	28·8	26·3	25·6	32·3	83	..	3·7	..	4·8	0	1	23	0	3	4	4	1	8	3	1	7	0
	1730	..	..	..	..	31·0	27·1	25·5	31·9	74	..	5·5	..	4·0	0	0	24	0	4	7	3	1	6	2	1	7	0
Patna	0830	53	1000·6	999·7	+1·2	28·7	26·1	25·7	31·9	84	+3	7·3	+0.7	9·8	0	0	29	0	1	12	5	0	3	7	1	2	0
	1730	,,	997·6	991·7	..	30·5	27·0	25·6	32·8	76	..	6·2	..	7·7	0	1	22	0	1	11	2	1	3	5	0	8	0
Patna (Aerodrome)	0530	60	999·0	992·2	..	27·0	26·0	25·5	32·8	93	..	6·9	..	5·7	0	0	19	0	0	8	3	1	2	4	1	12	0
	0830	,,	1000·1	993·4	..	28·4	26·5	25·6	33·0	85	..	6·9	..	12·6	0	2	27	1	0	7	10	0	4	5	2	2	0
	1130	,,	1000·0	993·3	..	30·5	27·2	25·8	33·3	77	..	6·9	..	13·2	0	2	29	0	3	8	7	0	1	8	3	1	0
	1730	,,	996·8	990·1	..	30·9	27·1	25·5	33·7	74	..	6·1	..	9·6	0	1	26	0	1	9	4	2	1	8	2	4	0
	2330	52	1000·0	994·2	..	28·5	26·9	26·3	34·2	88	..	4·5	..	4·0	0	0	14	0	0	9	1	1	0	3	0	17	0
Dehri	0830	107	1000·2	988·3	..	28·8	26·3	25·2	32·3	82	..	6·4	..	3·7	0	0	31	1	2	4	8	3	11	2	0	0	0
	1730	,,	996·4	984·5	..	30·9	27·0	25·0	32·5	74	..	7·0	..	3·6	0	0	31	1	9	3	3	0	7	7	1	0	0
Gaya	0230	116	999·3	986·6	..	26·9	25·5	24·9	31·4	85	..	(a) 5·5	..	(a) 10·0	0	4	24	1	0	7	4	3	11	2	0	2	0
	0530	,,	999·6	986·5	..	26·5	25·4	24·5	31·6	91	..	(a) 6·7	..	(a) 7·5	0	2	23	0	1	8	3	4	7	2	0	5	0
	0830	,,	1000·7	987·7	+1·7	28·6	26·3	25·1	34·0	82	+7	(a) 7·0	+1·8	(a) 13·0	0	5	24	0	0	8	5	2	10	2	2	1	0
	1130	,,	1000·5	987·6	..	30·9	26·8	25·1	31·8	72	..	(a) 7·0	..	(a) 14·1	0	9	18	1	2	7	3	3	3	7	1	3	0
	1730	,,	997·5	984·[illegible]		30·7	26·9	25·3	32·3	76	..	7·1	..	12·9	0	7	19	0	1	6	5	2	6	6	0	5	0
	2330	,,	1000·2	987·3	..	27·8	26·0	25·2	32·4	87	..	5·8	..	9·3	0	3	24	0	1	8	4	4	8	2	0	4	0
Jamui	0830	82	1001·1	991·7	..	29·2	26·8	25·6	33·2	82	..	7·2	..	1·7	0	0	9	0	0	7	0	0	0	2	0	22	0
	1730	,,	997·7	988·4	..	30·8	27·4	26·0	33·9	77	..	6·0	..	2·5	0	0	12	0	0	7	0	0	0	4	1	19	0
Bhagalpur	0530	49	1000·2	994·7	..	26·8	25·9	25·4	32·8	93	..	7·4	..	4·0	0	0	20	0	0	7	6	3	3	0	1	11	0
	0830	,,	1001·5	996·0	..	28·8	26·6	25·6	33·1	83	..	7·1	..	7·1	0	1	26	0	0	8	9	2	6	1	1	4	0
	1130	,,	1001·1	995·6	..	30·8	27·1	25·7	33·0	75	..	7·0	..	8·8	0	3	23	0	0	8	10	0	3	4	1	5	0
	1730	,,	998·2	992·7	..	30·2	27·0	25·8	33·0	78	..	7·0	..	8·4	0	2	28	0	0	10	9	3	2	5	1	1	0
	2330	,,	1000·9	995·4	..	27·6	26·3	25·7	33·1	90	..	6·0	..	7·6	0	0	29	0	0	8	10	4	4	3	0	2	0
Sabour	0830	37	1001·1	996·9	+1·5	28·5	26·9	26·1	34·2	88	+5	7·1	+0·4	5·7	0	0	27	0	0	10	8	0	4	5	0	4	0
	1730	,,	997·8	993·7	..	30·2	27·7	26·3	35·0	82	..	6·8	..	6·5	0	1	26	0	1	8	11	1	2	4	0	4	0
Uttar Pradesh (East)																											
Gonda	0830	110	999·	987·6	..	29·0	26·5	25·7	33·0	84	+2	5·7	−0·4	3·7	0	0	24	0	0	15	2	0	0	6	1	7	0
	1730	,,	996·7	984·5	..	31·0	27·3	25·8	33·2	76	..	5·1	..	2·3	0	0	16	0	0	9	2	0	0	3	2	15	0
Nautanwa	0830	99	1000·1	989·0	..	28·3	26·3	25·6	32·8	84	..	5·7	..	7·0	0	0	31	1	2	14	10	0	0	1	3	0	0
	1730	,,	996·7	986·1	..	30·8	27·3	25·6	32·8	75	..	4·1	..	6·5	0	0	30	0	3	9	10	3	1	2	2	1	0
Gorakhpur	0830	77	1000·4	991.6	+0·9	28·8	26·9	26·2	33·4	87	+4	6·5	+1·7	3·3	0	0	31	1	0	16	2	8	1	0	3	0	0
	1730	,,	997·4	988·8	..	30·5	27·6	26·1	33·6	78	..	5·9	..	3·2	0	0	31	3	0	11	2	9	4	0	2	0	0
Gorakhpur (P.B.O.)	0230	78	998·7	989·9	..	28·0	26·8	26·2	34·0	90	..	5·4	..	5·2	0	1	28	0	13	8	1	1	5	1	0	2	0
	0530	,,	998·8	990·1	..	27·4	26·2	25·8	33·2	91	..	6·9	..	4·4	0	0	27	0	7	12	1	1	3	3	0	4	0
	1130	,,	999·9	991·2	..	30·2	27·6	26·6	34·8	84	..	7·1	..	7·1	0	1	29	0	8	7	6	3	3	3	0	1	0
	2330	,,	999·5	990·8	..	28·6	27·2	26·6	34·8	89	..	5·0	..	5·6	0	1	26	0	13	3	3	2	4	1	1	4	0
Azamgarh	0830	78	999·5	990·9	..	28·4	26·6	25·9	33·4	86	..	7.0	..	3·8	0	0	30	0	0	18	1	0	1	10	0	1	0
	1730	,,	996·9	988·2	..	30·1	27·2	25·9	33·4	79	..	6·0	..	2·0	0	0	20	1	0	9	0	1	3	6	0	11	0
Ballia	0830	64	1000·6	993·4	..	28·4	26·3	25·4	32·4	85	..	6·7	..	4·7	0	0	27	0	2	10	5	0	4	6	0	4	0
	1730	,,	997·4	990·3	..	34·6	27·4	25·8	33·2	72	..	6·0	..	4·0	0	0	26	1	5	7	3	0	2	6	2	5	0
Varanasi (Banaras)	0830	76	999·7	991·3	+0·9	28·4	26·9	26·1	33·8	89	+9	6·0	−0·3	4·5	0	0	28	0	5	2	0	5	9	3	4	3	0
	1730	,,	997·3	988·9	..	31·6	27·6	26·0	33·6	77	..	6·2	..	4·6	0	0	28	2	7	2	0	0	7	7	3	3	0
Varanasi (Banaras) Badatpur (Aerodrome).	0530	85	999·7	990·1	..	26·9	26·1	25·9	33·4	94	..	5·9	..	9·3	0	1	25	1	4	5	2	2	9	3	0	5	0
	0830	,,	1001·0	991·4	..	28·3	26·7	26·0	33·6	88	..	6·2	..	10·2	0	1	27	0	2	8	2	1	9	6	0	3	0
	1130	,,	1000·7	991·2	..	30·3	27·6	26·6	34·8	82	..	6·5	..	14·2	0	5	23	0	3	5	3	1	10	6	0	3	0
	1730	,,	997·7	988·2	..	30·6	27·3	26·1	33·8	78	..	5·7	..	10·5	0	1	28	2	5	5	2	0	7	6	2	2	0
	2330	,,	1000·5	991·0	..	27·8	26·7	26·3	34·2	91	..	5·0	..	10·1	0	0	25	0	1	8	1	3	10	2	0	6	0
Allahabad (Bamrauli)	0230	98	996·4	987·4	..	27·3	26·1	25·6	32·8	90	..	4·8	..	5·2	0	0	23	0	4	4	2	2	7	3	1	8	0
	0530	,,	998·5	987·5	..	26·9	25·8	25·4	32·4	92	..	6·3	..	5·1	0	0	22	0	1	8	1	1	9	2	0	9	0
	0830	,,	999·7	988·8	+0·9	28·7	26·5	25·5	32·6	84	+5	6·3	−0·2	7·1	0	0	28	1	3	7	0	5	6	6	0	3	0
	1130	,,	999·7	988·6	..	31·4	27·1	25·4	32·4	71	..	6·6	..	10·5	0	1	29	1	2	5	0	2	7	10	3	1	0
	1730	,,	996·7	985·9	..	30·7	26·5	25·1	31·9	74	..	6·5	..	6·8	0	0	26	3	3	4	1	0	6	8	1	5	0
	2330	,,	993·3	966·4	..	27·9	26·4	25·7	33·0	89	..	5·1	..	4·6	0	0	20	0	2	4	2	5	4	3	0	11	0
Sultanpur	0830	97	999·5	988·4	..	29·3	26·9	25·7	33·0	83	..	6·3	..	1·9	0	0	17	0	2	6	0	0	4	5	0	14	0
	1730	,,	997·2	996·7	..	30·3	27·5	26·4	34·4	80	..	6·4	..	1·3	0	0	13	0	0	8	0	0	0	5	0	18	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %.	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—*(Contd.)*																											
Faizabad	0830	102	999·5	988·2	..	28·3	26·7	25·7	33·0	87	..	6·2	..	4·7	0	0	26	0	3	5	12	0	3	3	0	5	0
	1730	"	996·6	985·4	..	30·4	27·3	26·0	33·6	79	..	5·8	..	3·9	0	0	21	0	3	5	5	0	1	6	1	10	0
Banda	0830	121	999·8	986·6	..	29·8	27·0	25·9	33·4	81	..	5·9	..	2·7	0	0	18	0	1	0	1	1	11	3	1	13	0
	1730	"	996·7	983·2	..	31·9	2 2·6	25·8	33·2	73	..	5·5	..	3·9	0	0	28	0	2	0	5	0	19	0	2	3	0
Fatehpur	0830	114	999·5	986·8	..	28.7	26·6	25·7	33·0	85	+4	5·5	—0·1	6·8	0	0	28	1	0	8	1	1	8	9	0	3	0
	1730	"	996·5	983·9	..	31·2	27·2	25·4	32·4	73	..	5·5	..	7·2	0	0	29	1	3	8	1	1	4	5	6	2	0
Kanpur	0830	126	999·8	986·1	+1·5	28·7	26·3	25·3	32·2	81	—2	5·7	+1·2	10·2	0	0	31	1	0	10	0	2	7	10	1	0	0
	1730	"	996·7	982·9	..	31·3	26·7	25·1	31·9	73	..	5·6	..	9·3	0	0	31	1	3	8	0	0	2	15	2	0	0
Kanpur (Aerodrome)	0530	126	998·7	984·3	..	27·2	25·9	25·3	32·2	90	..	6·0	..	11·5	0	2	24	0	2	9	1	4	6	4	0	5	0
	0830	"	999·6	985·3	..	28·9	26·3	25·3	34·2	82	..	5·8	..	17·5	0	6	23	1	0	7	4	1	5	10	1	2	0
	1130	"	999·6	985·5	..	31·1	26·7	24.8	31·3	71	..	6·4	..	17·5	0	9	20	0	0	9	2	0	3	12	3	2	0
	1730	"	996·8	982·5	..	31·3	26·6	24·6	30·9	70	..	6·2	..	13·7	0	7	21	1	2	9	1	0	0	7	8	3	0
	2330	"	999·5	985·1	..	38.3	26·3	25·6	32·8	86	..	5·1	..	11·5	0	3	23	0	1	9	4	0	4	7	1	5	0
Lucknow	0830	111	999·8	987·5	+1·2	28·8	26·7	25·9	34·4	85	+6	5·9	+0·1	3·3	0	0	26	5	3	5	1	3	6	2	0	5	1
	1730	"	996·8	984·6	..	31·3	27·3	25·7	33·0	74	..	5·7	..	2·9	0	0	25	2	0	9	0	1	1	12	0	6	0
Lucknow (Amausi Aerodrome)	0230	128	998·0	983·7	..	27·3	26·3	26·0	33·6	93	..	5·3	..	9·3	0	2	24	0	3	9	3	2	5	4	0	5	0
	0530	"	998·0	983·8	..	27.0	26·1	25·7	33·0	93	..	5·9	..	12·3	0	5	22	0	3	10	2	3	5	4	0	4	0
	0830	"	999·2	985·0	+0·5	28·6	26 9	26·2	34·0	88	+14	6·1	+0·3	17·0	0	12	17	0	0	12	3	1	7	5	1	2	0
	1130	"	999·2	985·1	..	30·5	27·5	26·4	34·4	80	..	6·4	..	19·3	0	12	18	0	1	11	4	0	4	8	2	1	0
	1730	"	996·1	982·1	..	31·0	27·7	26·3	34·2	78	..	6·3	..	15·3	0	7	72	0	3	8	2	2	3	8	3	2	0
	2330	"	998·8	984·6	..	28·0	26·9	26·4	34·4	91	..	5·0	..	9·0	0	2	22	0	2	8	2	3	6	3	0	7	0
Hardoi	0830	142	999·2	983·4	..	28·6	26·8	26·2	34·0	87	..	5·2	..	7·0	0	0	31	3	0	12	4	2	2	7	1	0	0
	1730	"	996·1	980·5	..	31·0	27·5	26·1	33·8	78	..	5.5	..	6·4	0	0	29	3	1	[illegible]	6	1	3	8	2	2	0
Lakhimpur Kheri	0830	147	999·5	982·9	..	27·9	26·5	25 9	33·4	89	..	5.2	..	2·7	0	0	24	1	1	19	0	0	1	2	0	7	0
	1730	"	996·3	980 2	..	30·3	27·4	26·3	34·2	79	..	6·5	..	2·6	0	0	22	0	1	8	[illegible]	0	2	9	0	9	0
Bahraich	0830	124	1000·5	986·4	+1·4	28·8	26·5	25·5	32·6	83	+3	6·2	+1·7	11·1	0	2	29	0	0	22		1	0	5	1	0	0
	1730	"	997·4	983·7	..	30·5	27·1	25·7	33·0	77	..	6·3	..	8·2	0	1	30	0	0	18	1	2	1	9	0	0	0
Uttar Pradesh (West). Orai	0830	141	1001·1	985·5	..	29·4	27·5	26·9	35·4	87	..	6·5	..	4·2	0	0	31	1	1	2	5	0	7	2	15	0	0
	1730	"	997·2	981·7	..	31·7	29·1	28·1	38·0	83	..	5·5	..	3·2	0	0	29	0	5	2	2	0	8	1	11	2	0
Jhansi	0830	251	999·9	972·1	+0·7	28·4	25·5	24·3	30·4	79	+3	5·3	+0·6	1·5	0	0	16	3	2	2	1	0	2	5	1	15	0
	1730	"	997·2	969.9	..	31·7	27·8	25·8	33·2	73	..	5·8	..	1·2	0	0	12	1	4	0	1	0	1	5	0	19	0
Agra	0830	169	999·5	980·9	+1.2	29·5	26·0	24·6	30·9	76	+2	4·8	—0·5	0·7	0	0	6	0	2	0	0	0	2	0	2	25	0
	1730	"	996·0	977·6	..	32·2	26·7	24·6	30·9	64	..	5·8	..	2·0	0	0	12	1	2	2	0	1	4	0	2	19	0
Agra (Aerodrome)	0530	169	998·4	979·	..	27·1	25·5	24·9	31·5	88	..	6.5	..	6·9	0	1	23	0	1	4	5	1	6	6	0	7	0
	0830	"	999·5	980·2	..	29·3	26·4	25·2	32·0	80	..	6·5	..	10·8	0	2	27	0	1	5	1	3	11	7	1	2	0
	1130	"	999·7	980·8	..	31·8	27·3	25·5	32·6	72	..	6·3	..	12·4	0	3	25	1	1	5	2	2	10	5	2	3	0
	1730	"	996·4	977·6	..	31·9	27·3	25·4	32·4	71	..	6·4	..	9·4	0	2	25	1	2	4	5	1	6	7	1	4	0
	2330	"	998·7	979·7	..	28·3	26·2	25·4	32·4	81	..	4·9	..	7·4	0	2	20	0	2	7	2	3	6	2	0	9	0
Mainpuri	0830	157	998·9	981·4	+0·3	28·8	26·1	25·1	31·9	82	+6	5·0	—0·3	2·3	0	0	22	1	6	9	2	0	0	4	0	9	0
	1730	"	996·3	979·1	..	31·3	27·8	26·2	34·0	77	..	5·6	..	2·1	0	0	23	0	3	3	2	0	4	10	1	8	0
Aligarh	0830	187	999·2	978·4	..	28·8	26·7	25·6	32·8	83	+5	6·2	+1·4	6·4	0	2	26	0	0	13	1	1	2	10	1	3	0
	1730	"	996·3	975·6	..	31·5	27·1	25·6	32·8	73	..	6·8	..	3·8	0	0	24	4	0	7	0	4	0	8	1	7	0
Bareilly	0830	173	999·3	980·1	+0·5	28·9	26·9	26·0	33·6	85	+3	6·4	+0·6	6·8	0	1	28	1	1	13	2	0	2	6	4	2	0
	1730	"	996·2	977·2	..	30·2	27·2	25·9	33·4	79	..	7·0	..	3·4	0	0	23	0	2	16	0	0	1	3	1	8	0
Bareilly (P.B.O.)	0230	172	997·8	978·7	..	27·9	26·2	25·6	32·8	88	..	5·3	..	6·6	0	1	26	0	1	15	3	1	0	6	1	4	0
	0530	"	998·1	978·6	..	27·4	25·8	25·1	31·9	89	..	6·4	..	6·5	0	0	28	1	1	15	4	1	1	3	2	3	0
	1130	"	999·1	980·1	..	30·7	27·3	26·1	33·8	78	..	5·8	..	8·0	0	2	28	1	2	10	8	0	2	3	4	1	0
	2330	"	998·7	979·6	..	28·0	26·7	25·8	33·2	87	..	4·7	..	5·1	0	0	23	0	1	13	7	0	0	1	1	8	0
Meerut	0830	222	999·4	974·8	+0·8	28 5	26·3	25·5	32·6	84	+9	5·6	+0·5	1·9	0	0	12	0	0	6	0	0	0	5	1	19	0
Najibabad	0830	270	999·8	969·9	..	27·5	25·9	25·2	32·1	88	..	5·2	..	6·9	0	3	26	0	1	5	16	0	0	1	6	2	0
	1730	"	996·8	967·5	..	31·7	27·2	25·4	32·4	71	..	4·0	..	4·7	0	1	26	0	6	1	14	0	1	1	4	4	0
Roorkee	0830	274	999·5	969·3	+0·8	28·2	25·9	25·2	32·1	86	+8	5·8	+0·7	2·3	0	0	24	0	0	2	17	1	1	0	3	7	0
	1730	"	996·1	966·2	..	30·7	27·3	25·7	33·0	76	..	5 0	..	2·0	0	0	21	0	1	0	15	2	0	0	3	10	0
Dehra Dun	0530	682	999·0	924·6	..	24·1	23·3	22·9	27·9	93	..	6·5	..	1·1	0	0	10	4	2	2	0	0	0	0	2	21	0
	0830	"	999·7	925·7	+0·7	25·7	24·1	23·5	28·9	88	+4	6·2	0	2·0	0	0	20	4	3	0	6	4	0	2	1	11	0
	1130	"	999·6	925·7	..	27·4	24·6	23·5	28·9	80	..	6·2	..	2·7	0	0	24	0	0	1	6	8	6	2	1	7	0
	1730	"	996·5	923·1	..	28·5	24·9	23·4	28·1	80	..	6·2	..	1·5	0	0	15	2	3	0	5	0	3	1	1	16	0
	2330	"	999·4	925·2	..	25·1	24·2	23·8	29·5	89	..	6·0	..	2·4		0	16	7	1	0	1	3	0	2	2	15	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal.	Mean wind speed, Km. per hour.	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)																											
New Delhi	0230	216	997·7	973·7	..	28·3	26·1	25·2	32·1	84	..	4·7	..	4·0	0	0	17	0	0	5	6	3	2	1	0	14	0
	0530	"	997·8	973·8	..	27·7	25·8	25·0	31·7	86	..	5·9	..	6·9	0	1	24	1	0	5	8	1	5	4	1	6	0
	0830	"	999·0	975·0	+0·4	29·4	26·1	24·6	30·9	77	+0·3	5·8	+0.3	12·3	0	3	25	0	1	5	7	1	5	8	1	3	0
	1130	"	999·1	975·3	..	31·7	26·6	24·4	30·5	68	..	6·1	..	15·7	0	8	22	1	0	5	2	3	7	5	7	1	0
	1730	"	985·4	971·9	..	33·1	27·2	24·5	30·7	63	..	6·0	..	10·8	0	3	23	4	1	5	2	1	4	3	6	5	0
	2330	"	998·2	974·3	..	29·2	26·4	25·2	32·1	80	..	4·8	..	4·6	0	0	22	0	1	4	8	3	3	3	0	9	0
New Delhi (Palam Aerodrome)	0230	233	997·6	971·8	..	29·0	26·1	25·2	32·1	83	.	4·4	..	9·7	0	2	24	0	2	7	6	5	5	1	0	5	0
	0530	"	997·9	972·1	..	27·6	25·7	24·7	31·1	85		5·8	..	9·8	0	3	25	0	3	7	4	4	7	3	0	3	0
	0830	"	998·9	974·3	..	29·1	26·2	24·8	31·3	78	..	6·0	..	14·4	0	6	24	0	1	7	5	1	11	5	0	1	0
	1130	"	999·0	973·6	..	31·8	26·8	24·7	31·1	68	..	6·2	..	18·1	0	13	16	1	1	3	3	2	9	9	1	2	0
	1430	"	997·2	971·9	..	33·2	27·0	24·3	30·4	63	..	6·4	..	17·6	0	9	22	3	2	6	1	0	8	9	2	0	0
	1730	"	995·7	969·8	..	33·1	27·1	24.5	30·7	63	..	5·8	..	16.1	0	9	22	2	2	5	2	2	6	6	6	0	0
	2030	"	996·8	971·3	..	30·4	26·9	25·4	32·4	75	..	5·[illegible]	..	10·0	0	2	22	0	2	7	4	5	4	1	1	7	0
	2330	"	998·0	972·5	..	29·1	26·4	25·3	32·2	81	..	4·6	..	9·5	0	3	23	0	1	5	10	5	4	1	0	5	0
Hissar	0530	221	997·5	973·0	..	27·7	25·2	24·1	30·0	81	..	4·4	.	6·4	0	0	29	0	0	1	10	7	10	1	0	2	0
	0830	"	998·5	974·2	+0.7	29·9	26·2	24·6	30·9	74	+7	4·5	+1·7	6·2	0	0	29	0	0	2	5	6	13	3	0	2	0
	1130	"	997·6	973·2	..	29·7	25·9	24·3	30·4	74	..	3·8	..	6·1	0	0	28	1	0	0	11	8	5	2	1	3	0
	1730	"	995·1	971·1	..	34·2	27·1	23·9	29·7	59	..	5·2	..	4·9	0	0	28	0	1	5	3	4	7	7	1	3	0
	2330	"	998·4	974·3	..	33.6	27·0	23·9	29·7	60	..	4·3	..	7.9	0	0	31	0	0	2	8	5	8	8	0	0	0
Karnal	0830	249	999·0	971·5	..	28.8	25·8	25·0	31·7	80	..	2·7	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	996·3	969·0	..	31·6	27·2	25.3	32·2	71	..	3·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Patiala	0830	251	999·1	971·5	..	28·4	26·1	25·1	31·9	84	..	5·4	..	6·7	0	0	22	0	1	0	19	0	0	0	2	9	0
	1730	"	995·4	968.0	..	31·7	26·9	24.8	31·3	69	..	5·6	..	6·0	0	0	23	0	0	0	15	2	0	0	6	8	0
Ambala	0830	272	998·5	968.5	+0·2	28·5	26.5	25·0	31.7	85	+9	3.1	−1.7	2·7	0	0	20	0	2	0	6	0	5	0	7	11	0
	1730	"	995.2	965·2	..	31·6	27.6	25.8	33.2	73	..	2.6	..	1.4	0	0	16	0	5	0	9	0	0	0	2	15	0
Ambala (P.B.O.)	0230	278	997·4	966·7	..	27.6	25·7	25·1	31·9	86	..	5·2	..	8 9	0	0	29	0	1	6	17	1	1	1	2	2	0
	0530	"	997·5	966.7	..	26.9	25·3	24.8	31·3	88	..	5·3	..	7·8	0	0	29	1	1	4	18	2	1	2	0	2	0
	1130	"	998·6	968·1	..	30·7	26·8	25·5	32·6	75	..	5·4	..	9·7	0	1	30	..	0	3	19	5	1	2	0	0	0
	2330	"	997·7	967·2	..	28·6	26.3	25.5	32·6	84	..	4·0	..	8·1	0	0	27	2	1	3	18	1	0	0	2	4	0
Ambala (Aerodrome)	0530	274	997·6	967.1	..	26·4	25·3	42·5	30·7	95	..	5·7	..	12·6	0	7	20	0	0	12	11	0	1	1	2	4	0
	0830	"	998·5	968·3	..	28·1	26·0	25·1	31·9	82	..	6·0	..	15·4	0	8	22	0	1	10	15	0	1	2	1	1	0
	1130	"	998·7	968·5	..	30·3	26·9	25·5	32·6	76	..	6·1	..	22·8	0	15	16	0	0	9	15	2	1	3	1	0	0
	1730	"	995·4	965.6	..	31.1	26·8	25·1	31·9	72	..	5·6	..	14·0	0	6	23	1	1	4	13	3	2	3	2	2	0
	2330	"	997·9	967.6	..	27·6	26·2	25.5	32·6	89	..	4·9	..	12.1	0	5	19	0	2	10	10	0	0	0	2	7	0
Chandigarh	0830	347	998.4	960.4	..	28·9	25·9	24.7	31.1	78	..	4.4	..	1·6	0	0	22	2	2	1	4	0	0	0	13	9	0
	1730	"	995·3	957·[illegible]	..	30·9	26·7	24.5	30.7	70	..	4.2	..	0·7	0	0	7	0	0	1	5	0	1	0	0	24	0
Ludhiana	0830	247	998·0	970·7	−0·1	29.2	26.1	24.7	31.1	73	+6	4·4	+0.5	10.8	0	0	29	0	2	3	16	5	3	0	0	2	0
	1730	"	994·6	967·8	..	32.8	27.1	24·8	31.3	65	..	4.3	..	8·0	0	0	31	1	4	5	8	2	3	6	2	0	0
Halwara (Aerodrome)	0830	242	998·7	972·2	..	29·4	26.3	25·0	31·7	77		5·0	..	17·1	0	11	19	1	1	3	14	8	3	0	0	1	0
	1730	"	996·4	970·2	..	33.4	27.1	24·4	30·5	62		4·8	..	14·1	0	8	20	2	2	3	8	5	5	0	3	3	0
Bhantinda	0830	211	997·7	974·5	..	31·0	26.6	24.9	31·5	72	..	3	..	10.0	0	1	29	0	1	2	14	2	8	2	1	1	0
	1730	"	994·5	971·7	..	35.1	27·6	24.4	30.5	59	..	3 5	..	9.0	0	3	27	2	2	3	8	4	2	2	7	1	0
Ferozepur	0830	200	997·3	975·2	..	29.7	27.3	26·0	33.6	83	..	3·1	..	2.3	0	0	23	1	1	1	10	6	2	0	2	8	0
	1730	"	994·2	972·5	..	34.1	29.1	27·1	35.9	70	..	2 9	..	2.3	0	0	23	1	6	0	3	2	2	2	7	8	0
Amritsar	0530	234	997·0	971·0	..	26·8	25·6	25·1	31·9	91	..	4·1	..	11·8	0	5	19	1	2	7	9	3	1	0	1	7	0
	0830	"	998·2	972.3	..	29.1	26·2	25·0	31·7	80	..	4·3	..	13 4	0	5	23	0	2	9	11	5	1	0	0	3	0
	1130	"	998.3	972·7	..	31.8	27·2	25·3	32·2	71	..	4·2	..	13·2	0	6	25	1	2	8	12	6	2	0	0	0	0
	1730	"	994.7	969·3	..	33·3	27·2	24·7	31·1	63	..	3·2	..	11·3	0	6	20	1	2	6	6	4	2	0	5	5	0
Pathankot (Aerodrome)	0830	312	998.7	964·4	..	28.2	25·4	24·2	30·2	80	..	5·9	..	3·7	0	0	22	2	1	10	6	2	0	0	1	9	0
	1130	"	998.7	964·7	..	30.8	26·2	24·2	30·2	69	..	5·3	..	3·8	0	0	26	0	2	3	6	5	8	1	1	5	0
	1730	"	995·1	961·4	..	33·1	26·6	23·8	29·5	60	..	4·4	..	3.8	0	0	26	0	2	0	4	3	6	7	4	5	0
Adampur (Aerodrome) (R)	0530	238																									
(R)	0830	"																									
(R)	1130	"																									
(R)	1730	"																									
(R)	2330	"																									

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temp. in °C: Dry bulb	Mean temp. in °C: Wet bulb	Mean temp. in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Himachal Pradesh																											
Bilaspur	0830	493	999·4	945·4	..	26·8	24·5	23.9	29·7	84	..	5·7	..	1·1	0	0	11	5	2	1	0	1	0	0	2	20	0
	1730	"	995·8	942 7	..	30·8	25·7	23·7	29·3	67	..	5·5	..	3·3	0	0	27	4	1	1	1	8	3	2	7	4	0
Mandi	0830	761	999·0	916·7	..	24·7	23·4	22.8	27·7	89	..	6·4	..	0·6	0	0	6	0	1	1	3	1	0	0	0	25	0
	1730	"	994·8	913·8	..	28·4	24·8	23·4	28·8	75	..	6·0	..	0·9	0	0	9	0	0	1	3	0	0	1	4	22	0
Jammu and Kashmir																											
Srinagar	0830	1587	1426·7	834·7	+0·8	22·8	19·2	17·4	19·9	72	−7	4·2	+0 8	1·4	0	0	9	0	1	0	5	1	0	1	1	22	0
	1130	"	1422·9	834·4	..	26·7	20·4	17·6	19·6	59	..	3.9	..	1·5	0	0	10	0	0	0	4	1	0	3	2	21	0
	1730	"	1389·0	831·4	..	28·5	20·2	16·2	18·0	49	..	3·5	..	3·7	0	0	13	1	0	0	6	0	3	1	2	18	0
Srinagar (Aerodrome)	0530	1666	1414·0	826·1	..	19·1	17·1	15·9	18·1	82	..	4·4	..	5·1	0	0	22	0	2	6	1	7	1	4	1	9	0
	0830	"	1421·5	827·0	..	22·5	18·4	16·2	18·0	69	..	4·3	..	6·0	0	0	28	4	1	6	6	3	1	2	5	3	0
	1130	"	1415.9	826·8	..	26·0	19·6	16·2	18·8	56	..	4·4	..	7·3	0	0	30	2	3	5	4	9	1	1	5	1	0
	1730	"	1384·9	824·1	..	28·2	19·4	14·7	16·8	46	..	4·2	..	12·9	1	3	27	1	2	4	9	9	1	0	5	0	0
	2330	"	1406.8	825·7	..	22·1	18·2	16.1	18·6	71	..	3·3	..	5·9	0	2	15	1	1	5	4	1	1	2	2	14	0
Gulmarg (R)	0830	2655																									
(R)	1730	"																									
Leh	0530	3514	3056·1	663·6	..	13·8	6·8	—0·4	5·9	38	..	3·3	..	(a) 5·1	0	0	22	5	15	0	1	1	0	0	0	8	0
	0830	"	3059·6	664·3	0	19·1	9·7	1·2	6·7	31	—22	3·6	—0·1	4·6	0	1	18	0	0	1	1	9	6	2	0	12	0
	1730	"	3007·0	660·9	..	22·8	12·0	5·9	9·3	34	..	3·8	..	8·3	0	0	28	3	1	0	0	3	12	8	1	3	0
Skardu (R)	0830	2288																									
(R)	1730	"																									
Gilgit (R)	0830	1491																									
(R)	1730	"																									
Misgar (R)	0830	3106																									
(R)	1730	"																									
Jammu*	0830	..																									
Jammu (Aerodrome)	0530	292	997·3	964·9	..	27·9	25·3	24·2	30·2	81	..	5·3	..	7·5	1	1	16	0	2	3	11	0	0	1	1	13	0
	0830	"	998·6	965·9	..	28·7	25·7	24·2	30·2	78	..	5·5	..	7·6	0	1	22	0	4	5	10	2	0	1	1	8	0
	1130	"	998·6	966 5	..	30·9	26 2	24·2	30·2	69	..	5·1	..	10·5	0	1	25	0	3	1	13	4	1	3	1	5	0
	1730	"	994·9	963·3		33·4	26·9	24·2	31·2	59	..	4·2	..	7·6	0	1	25	0	2	1	6	6	5	5	1	5	0
Rajasthan (West)																											
Sri Ganganagar	0530	177	996·4	976 8	..	28·9	25·4	23·7	29·3	75	..	4·3	..	2·2	0	0	16	0	1	3	2	1	6	2	1	15	0
	0830	"	997·2	977·8	..	30·9	26.0	23·9	29·7	67	+7	2·8	+0·7	4·8	0	0	26	0	1	4	3	2	12	4	0	5	0
	1130	"	997·5	978·2	..	34·3	26·8	23·2	28.4	55	..	4·6	..	5·8	0	0	26	0	2	2	4	1	10	6	1	5	0
	1730	"	993·8	974·8	..	35·8	26·6	22·2	26·7	50	..	3·5	..	4·1	0	0	22	0	0	1	1	7	9	2	2	9	0
	2330	"	996·2	976·9		31·2	26·2	24·0	29·8	68	..	1·8	..	2·4	0	0	18	0	1	0	4	8	3	1	1	13	0
Churu	0830	291	998·9	966·9		29·6	26·0	24·4	30·5	75	..	4·8	..	16·8	0	10	20	1	0	1	0	2	10	16	0	1	0
	1730	"	995·4	964·0	..	34·7	26·8	23·5	28·9	57	..	5·4	..	16·8	0	9	22	2	1	3	0	3	9	12	1	0	0
Bikaner	0830	224	998·5	973·8	+0·7	29·8	25·4	23·4	28·8	67	+1	2·6	−0·3	10·2	0	0	30	0	0	0	4	0	19	6	1	1	0
	1730	"	994·5	970·8	..	36·4	25·9	21·0	24·9	43	..	2·4	..	9·7	0	0	29	0	3	0	4	0	18	3	1	2	0
Bikaner (P.B.O.)	0530	224	996·8	972·3	..	28·7	26·7	25·8	33·4	85	..	4·4	..	7·9	0	0	28	0	1	0	1	6	18	2	0	3	0
	1130	"	998·2	973·8	..	34·2	28·5	26·4	34·4	65	..	4·6	..	10·9	0	0	30	1	1	0	1	8	14	2	3	1	0
	2330	"	997·1	972·5	..	31·1	27·7	26.7	35·0	77	..	4·0	..	9·4	0	0	29	0	0	0	3	16	10	0	0	2	0
Jaisalmer	0830	242	997·9	971·2	..	28·5	25·1	23·5	28·9	76	..	3·9	..	24·2	0	19	11	0	0	1	0	15	14	0	0	1	0
	1730	"	994·9	968·5	..	34·0	26·0	21·6	25·8	51	..	4·4	..	20·8	0	16	14	2	1	0	1	13	12	0	1	1	0
Phalodi	0830	234	994·5	973·6	..	28·4	26·1	25·1	31·9	80	..	4·5	..	16.7	0	9	21	0	1	1	0	3	22	1	2	1	0
	1730	"	996·1	970·8	..	35·0	28.4	25·9	33.4	60	..	5·9	..	17.7	0	10	21	1	1	0	0	7	22	0	0	0	0
Nagaur	0830	298	998·9	966·2	..	29·3	25·9	24·1	30·0	73	..	4·4	..	16·4	0	6	25	0	1	1	1	8	15	5	0	0	0
	1730	"	994.9	962·7	..	34.3	26·2	22·5	27·3	53	..	5·4	..	12·3	0	2	29	1	1	3	1	10	11	3	1	0	0
Jodhpur	0230	224	998·3	973·4	..	28.3	25·6	24·3	30·4	80	..	4·7	..	11·0	0	2	26	0	0	0	0	2	20	6	0	3	0
	0530	"	998·5	973·6	..	27·5	25·3	24·2	30·2	84	..	4·9	..	9·5	0	0	27	1	0	0	0	0	20	6	0	4	0
	0830	"	1000·1	975·2	+2·4	28·4	25·7	24·5	30·7	80	+10	5·6	−0·1	14·3	0	4	27	0	2	0	0	1	19	9	0	0	0
	1130	"	1000·0	975.3	..	31·3	26·1	24·1	30·0	66	..	6·1	..	15·7	0	7	24	1	1	0	1	0	21	5	1	0	1
	1730	"	996·4	972·0	..	33·6	26·6	23·6	29·1	59	..	5·8	..	18·2	0	12	19	1	0	1	0	4	17	6	2	0	0
	2330	"	999·0	974·2	..	29·4	25.8	23·8	29·5	75	..	5·3	..	9·9	0	0	27	0	1	0	0	4	20	2	0	4	0
Barmer	0530	194	998·2	976·6	..	27·3	24·8	23·7	29·3	81	..	5·5	..	6·0	0	0	26	2	0	0	1	5	18	0	0	5	0
	0830	"	999·3	977·7	+0·8	28·1	25·3	24·0	29·8	79	+3	6·0	+0·6	5·1	0	0	30	0	1	1	1	14	12	1	0	1	0
	1130	"	999·2	977·9	..	32.1	25·8	22·9	27·9	58	..	5·7	..	6·2		0	31	0	1	0	3	15	8	4	0	0	0

(R) Register not received. *Temporarily closed. (a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of pressure standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West) —*Contd.*																											
Barmer—*Contd.*	1730	194	995·6	974·5	..	34·3	25·9	21·9	26·3	51	..	5·7	..	6.6	0	0	30	0	1	0	0	8	16	4	1	1	0
	2330	"	998·3	976·9	..	30·1	25·4	23·3	28·6	69	..	4·4	..	6.6	0	0	31	0	0	0	2	11	7	11	0	0	0
Rajasthan (East)																											
Pilani . . .	0830	301	999.2	966.4	..	30·0	24·7	22·0	26.4	63	..	3·0	..	16·0	0	7	24	0	2	1	2	2	9	14	1	0	0
	1730	"	996.0	963.4	..	33·5	25·7	22·2	26.7	54	..	4·0	..	14·4	0	1	30	1	0	3	3	2	7	12	3	0	0
Alwar . . .	0830	271	999·1	968·3	..	29·9	26·2	24·5	30.7	74	..	5·3	..	2·5	0	0	18	1	1	1	0	1	3	10	1	13	0
	1730	"	995·8	966·2	..	33·6	27·2	24·6	30·9	61	..	6·0	..	3·3	0	0	17	2	0	5	1	4	0	4	1	14	0
Sikar . .	0830	433	999·4	952·2	..	28·7	25·5	23·9	32·6	77	..	5·6	..	2·9	0	0	30	0	0	1	4	1	3	17	4	1	0
	1730	"	995·7	949·2	..	32·5	26·4	23·5	29·3	64	..	6·1	..	2·5	0	0	25	0	0	0	4	1	10	10	0	6	0
Jaipur (Sanganer Aerodrome).	0230	390	998·0	955·1	..	27·4	24·5	23·0	28.1	78	..	5·1	..	5.7	0	0	25	1	1	3	0	3	5	8	4	6	0
	0530	"	998·3	955·4	..	26·7	24·3	23·1	28.3	82	..	6·2	..	6.2	0	1	24	0	2	3	1	0	6	8	5	6	0
	0830	"	999·4	956·7	+0·2	28·5	25·0	23·5	28·9	75	+1	6·1	+0·9	14.0	0	6	25	1	0	5	0	1	5	14	5	0	0
	1130	"	999·2	956·8	..	31·5	25·7	23·0	28·1	63	..	6·1	..	16.6	0	9	22	2	0	3	1	0	3	16	5	0	1
	1730	"	995·6	953·6	..	32·5	25·4	21·9	26·3	57	..	6·5	..	13.4	0	4	25	0	1	4	0	1	5	16	2	2	0
	2330	"	998·5	955·8	..	28·6	24·8	22.9	27·9	73	..	5·5	..	6.8	0	1	27	0	1	5	2	2	5	12	1	3	0
Dholpur . . .	0830	176	999·0	979·8	..	29·6	25·8	24·2	30·2	74	..	6·2	..	5·0	0	0	27	1	0	3	5	3	7	8	0	4	0
	1730	"	995·7	976·5	..	32·3	26·5	23.8	29·5	65	..	7·1	..	3·5	0	0	19	1	3	1	1	4	4	3	2	12	0
Tonk .	0830	272	999·0	969·0	..	29·8	26·1	24·3	30·4	75	..	5·4	..	12·9	0	2	29	0	4	1	2	2	9	10	3	0	0
	1730	"	995·6	966·2	..	33·7	26·8	23·0	28·1	60	..	5·9	..	15·3	0	2	29	0	3	0	1	2	10	12	3	0	0
Ajmer . . .	0830	486	998·8	947·0	+0·7	27.5	24·0	22·6	27·4	75	+1	6·2	+1·4	15·3	0	3	27	0	1	1	0	1	17	10	0	1	0
	1730	"	996·2	943·9	..	31·2	24·6	21·8	26·1	60	..	6·2	..	12·5	0	1	30	1	2	0	2	2	12	10	2	0	0
Kotah . . .	0530	257	998·7	970·5	..	28·0	24·6	22·9	27·9	74	..	5·6	..	2·9	0	0	20	0	0	0	1	0	14	4	1	11	0
	0830	"	1000·1	971·8	+1·0	30·2	25·5	23·3	28·6	68	—2	5·5	+0·2	4·0	0	0	26	0	0	0	0	2	7	15	2	5	0
	1130	"	1000.1	972·2	..	32·1	26·2	23·5	28·9	63	..	6·1	..	2·7	0	0	20	0	1	0	0	0	7	4	8	11	0
	1730	"	996·8	968·9	..	33·0	25·9	22·0	26·9	50	..	6·3	..	3·4	0	0	26	0	0	0	1	0	7	13	5	5	0
	2330	"	999·8	971·1	..	29·6	25·2	22·8	27·7	67	..	5·0	..	2·7	0	0	14	0	0	0	0	0	10	3	1	17	0
Chambal . .	0830	351	1000·7	962·1	..	28·0	25·0	23·7	29·3	77	..	5·4	..	8·3	0	0	30	0	0	0	0	2	16	9	3	1	0
	1730	"	997·3	959·2	..	31·7	25·7	22·8	27·7	62	..	6.2	..	10·5	0	0	30	0	1	0	2	5	13	5	4	1	0
Jhalawar . .	0830	321	1000·6	965·1	+0·8	27·3	24·5	23·1	28·3	79	—2	4·9	—1·4	3·6	0	0	25	0	0	0	0	0	13	11	1	6	0
	1730	"	997·5	962·1	..	32·0	25·1	21·8	26·1	57	..	4·9	..	5·5	0	0	31	1	2	1	0	0	11	14	2	0	0
Udaipur . . .	0230	582	999·7	936·1	..	25·2	23·3	22·5	27·3	85	..	5·1	..	2·4	0	0	10	0	0	0	0	3	7	0	0	21	0
	0530	"	999·8	936·1	..	24·6	22·9	22·2	26·7	87	..	6·2	..	3·5	0	0	16	0	0	0	0	4	10	2	0	15	0
	0830	"	1001·0	937·3	+0·6	26·2	23·5	22·4	27·1	81	+5	6·4	+1·0	3·7	0	0	20	0	0	0	1	10	5	3	1	11	0
	1130	"	1000·9	937·9	..	28·8	24·4	22·6	27·4	68	..	6·7	..	5·1	0	0	27	0	0	0	3	10	12	2	0	4	0
	1730	"	998·1	935·0	..	28·9	24·4	22·6	27·4	70	..	6·5	..	5·4	0	0	28	0	0	0	2	5	14	4	3	3	0
	2330	"	1000·6	937·1	..	25·8	23·7	22·8	27·7	85	..	5·3	..	2·9	0	0	15	0	0	0	1	2	12	0	0	16	0
Erinpura (Jawal Dam)	0830	295	1000·8	968·1	..	28·2	25·0	23·8	29·5	77	..	5·7	..	10.3	0	1	28	1	0	0	0	17	5	6	0	2	0
	1730	"	997·8	965·6	..	31·3	26·1	23·7	29·3	66	..	5·5	..	13·4	0	4	25	0	1	0	2	11	11	4	0	2	0
Madhya Pradesh (West)																											
Gwalior (P.B.O.)	0230	207	997·9	975·1	..	28·2	25·1	23·7	29·3	78	..	4·5	..	7·2	0	2	22	0	1	2	1	5	10	4	1	7	0
	0530	"	998·2	975·2	..	27·9	24·8	23·5	28.8	79	..	6·0	..	5·9	0	0	25	2	1	2	0	2	10	7	1	6	0
	0830	"	999·5	976·6	+1·3	29·6	25·8	24·3	30·4	73	—4	6·3	+0·5	7·6	0	0	27	1	1	4	2	2	5	11	1	4	0
	1130	"	999·5	976·8	..	32·0	26·3	23·7	29·6	64	..	6·2	..	8·9	0	0	30	0	1	3	3	0	3	13	7	1	0
	1730	"	996·2	973·7	..	32·4	26·2	23·4	29·0	62	..	6·5	..	9 2	0	1	29	2	3	2	0	1	6	13	3	1	0
	2330	"	998·8	976·2	..	28·7	25·6	24·1	30·2	77	..	5·5	..	6·0	0	0	23	1	0	3	2	2	12	2	1	8	0
Sheopurkalan .	0830	235	1000·1	974·2	..	29·4	26·1	24·7	31·1	78	..	6·5	..	9·4	0	0	29	1	1	1	1	7	11	6	0	2	1
	1730	"	996·0	970·5	..	32·9	26·8	23·8	30·3	65	..	7·0	..	11·8	0	3	27	2	2	1	2	3	6	5	4	1	5
Guna . .	0530	478	999·6	946·9	..	24·9	23·2	22·4	26·4	86	..	6·0	..	4·8	0	0	28	0	0	1	1	1	12	9	4	3	0
	0830	"	1000·8	948·3	+1·0	26·8	24·2	23·1	28·2	81	—2	6·5	+0·7	5·5	0	0	31	2	0	1	0	2	4	21	1	0	0
	1130	"	1000·4	948·5	..	29·6	24·7	22·6	27·6	66	..	6·3	..	8·0	0	0	31	1	2	0	0	0	5	15	8	0	0
	1730	"	996·0	945·3	..	30·7	24·5	21·7	26·3	62	..	6·9	..	12·1	0	1	30	3	2	0	0	2	2	17	5	0	0
	2330	"	1000·1	947·6	..	26·1	23·6	22·3	27·3	79	..	5·1	..	5·1	0	0	27	0	0	2	0	4	9	9	3	4	0
Rajgarh . .	0830	382	1000·9	958·7	..	27·0	24·0	22·5	27·4	77	..	5·2	..	8·3	0	0	30	9	0	0	0	0	2	14	5	1	0
	1730	"	997·4	956·0	..	31·1	24·7	21·6	25·8	60	..	6·1	..	8·3	0	0	29	8	0	0	0	0	3	13	5	2	0
Neemuch . .	0830	496	1001·7	947·2	+1·2	25·8	23·7	22·8	28·6	84	+4	7·2	+1·4	14·3	0	9	20	1	1	0	0	0	10	17	0	2	0
	1730	"	998·6	945·1	..	29.4	24·6	22·4	27.4	68	..	6·8	..	14·8	0	6	23	0	4	0	0	0	13	12	0	2	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Ratlam	0830	486	1002·2	948·5	..	24·8	23·3	22·7	27·6	89	..	6·7	..	9·0	0	0	31	0	0	0	1	0	15	14	1	0	0
	1730	"	998·8	946·3	..	29·4	24·7	22·8	27·7	69	..	7.3	..	11·6	0	1	28	0	0	0	0	2	10	15	2	2	0
Alirajpur	0830	293	1002·9	970·4	..	26·1	24·3	23·5	29·0	86	..	6·1	..	12·2	0	2	29	0	0	1	1	0	11	17	1	0	0
	1730	"	999·6	967·5	..	29·6	25·2	23·2	28·6	70	..	6·5	..	12·1	0	0	31	2	0	0	0	0	13	11	5	0	0
Indore	0530	567	1001·2	938·7	..	23·3	22·1	21·5	25·7	90	..	6·2	..	16·3	0	12	15	0	1	0	0	1	20	3	2	4	0
	0830	"	1002·3	940·0	+0·9	25·2	23·1	22·1	27·1	84	−3	6·4	−0·8	21·5	0	16	13	1	0	0	0	2	14	8	4	2	0
	1130	"	1001·9	940·2	..	27·9	23·8	22·0	26·4	72	..	6·5	..	17·3	0	18	11	1	0	0	0	2	11	12	3	2	0
	1730	"	998·8	937·5	..	28·3	23·5	21·3	25·4	68	..	7·0	..	22·8	0	16	14	0	0	2	0	1	18	5	3	1	1
	2330	"	1002·0	939·7	..	24·6	22·7	21·9	26·1	85	..	5·9	..	16·8	0	11	16	0	0	0	0	2	19	4	2	4	0
Ujjain	0830	..	..	..	..	26·2	23·7	22·6	27·4	81	..	5·7	..	19·8	0	12	18	0	0	0	0	2	2	18	8	1	0
Bhopal (Bairagarh)	0230	523	1000·4	942·8	..	24·6	23·0	22·3	26·9	87	..	6·4	..	12·0	0	2	29	1	0	0	0	1	13	12	4	0	0
	0530	"	1000·6	942·9	..	24·0	22·7	22·2	27·0	90	..	6·8	..	10·9	0	2	28	0	0	0	0	2	10	13	5	1	0
	0830	"	1001·8	944·4	+1·1	25·7	22·9	22·4	26·0	82	−4	6·5	−0·1	17·7	0	7	24	1	0	0	0	1	8	17	4	0	0
	1130	"	1001·2	944·4	..	29·0	24·4	22·4	27·3	69	..	6·6	..	17·9	0	9	22	4	0	0	0	1	5	14	7	0	0
	1730	"	998·1	941·4	..	28·7	24·1	22·4	26·3	69	..	7·6	..	16·3	0	7	23	2	0	0	0	5	10	10	3	1	0
	2330	"	1001·3	943·8	..	25·0	23·1	22·2	26·8	83	..	6·2	..	11·6	0	3	28	1	0	0	1	3	12	10	4	0	0
Khandwa	0830	318	1002·7	967·4	+0·9	26·6	23·9	22·7	27·9	80	0	7·2	+1·1	3·6	0	0	29	0	0	0	0	5	13	9	2	2	0
	1730	"	999·3	964·4	..	29·3	24·5	22·3	26·9	68	..	7·5	..	7·8	0	0	31	0	0	0	0	6	21	1	3	0	0
Hoshangabad	0830	302	1001·8	968·2	+0·5	26·5	24·2	23·2	28·3	82	−4	6·9	0	4·5	0	0	27	0	0	0	0	4	9	13	1	4	0
	1730	"	998·5	965·3	..	29·6	24·8	22·6	27·4	22	..	7·0	..	2·5	0	0	19	1	0	0	0	1	11	6	0	12	0
Betul	0830	653	1002·7	931·2	..	24·3	22·7	21·9	26·3	87	..	7·5	..	6·2	0	0	29	0	1	1	0	3	6	16	2	2	0
	1730	"	999·3	928·8	..	26·4	23·5	22·3	26·9	80	..	7·9	..	6·7	0	0	28	0	2	0	3	0	7	13	3	3	0
Chhindwara	0830	685	1002·1	927·4	..	24·5	23·0	22·3	27·8	87	..	6·9	..	10·4	0	0	31	1	0	1	0	1	2	15	11	0	0
	1730	"	999·0	924·8	..	26·1	23·5	22·4	27·0	82	..	7·6	.	8·2	0	1	25	2	2	0	0	1	5	12	4	5	0
Seoni	0830	619	1001·4	933·7	+0·8	24·6	23·4	22·8	28·0	90	+7	7·5	+1·2	5·3	0	0	31	3	0	1	1	1	11	10	4	0	0
	1730	"	998·1	931·0	..	26·0	23·5	22·2	27·1	81	..	7·6	..	3·0	0	0	24	1	0	0	1	1	14	2	5	7	0
Sagar	0830	551	1000·6	940·3	+1·0	25·5	23·6	22·6	27·6	86	−4	5·6	−0·6	9·5	0	1	28	0	0	1	0	0	8	15	5	2	0
	1730	"	997·4	937·7	..	28·2	24·2	22·4	26·5	74	..	7·3	..	3·8	0	0	28	0	1	2	0	0	6	13	6	3	0
Nowgong	0830	229	1000·2	974·9	+1·0	28·5	25·6	24·3	30·3	79	0	5·7	−0·5	9·1	0	0	31	0	3	2	0	1	17	7	0	0	1
	1730	"	997·0	971·8	..	31·9	26·1	23·5	29·1	65	..	6·5	..	5·5	0	0	27	1	7	1	0	0	17	0	1	4	0
Madhya Pradesh (East)																											
Satna	0530	317	998·8	963·6	..	25·7	24·6	24·0	29·7	90	..	6.8	..	6·1	0	0	26	0	0	3	0	0	6	13	4	5	0
	0830	"	999·9	964·8	+1·0	27·7	25·2	24·2	29·8	82	+3	6·5	+0·3	4·0	0	0	25	0	2	3	0	1	7	12	0	6	0
	1130	"	999·8	965·1	..	29·8	25·9	24·2	30·2	73	..	7·1	..	10·6	0	0	31	0	0	7	0	1	4	18	1	0	0
	1730	"	996·9	962·3	..	30·1	25·7	23·6	29·4	71	..	6·9	..	6·5	0	0	31	1	3	3	1	0	8	8	7	0	0
	2330	"	999·5	964·4	..	27·0	25·0	24·1	30·1	85	..	6·3	..	6·5	0	0	27	0	0	6	1	2	9	9	0	4	0
Sidhi	0830	..	..	..	..	28·0	25·3	24·0	29·6	80	..	5·6	..	6·0	0	0	29	1	1	6	0	2	4	15	0	2	0
	1730	..	..	..	..	29·3	25·8	24·3	30·4	77	..	7·0	..	4·4	0	0	28	1	2	4	1	2	5	13	0	3	0
Umaria	0830	459	1000·5	950·1	..	26·5	24·6	23·8	29 4	85	+2	6·5	−0·5	6·4	0	0	30	1	3	1	0	2	16	6	1	1	0
	1730	"	997·1	947·2	..	28·4	25·4	24·2	30·2	79	..	7·4	..	5·2	0	0	30	0	2	2	1	2	12	8	3	1	0
Jabalpur	0530	393	1000·0	956·5	..	24·3	23·5	23·1	28·3	93	..	6·8	..	4·2	0	0	26	1	0	0	6	7	8	4	0	5	0
	0830	"	1001·3	957·9	+1·4	26·1	24·4	23·7	29·3	87	+4	6·6	−0·5	5·2	0	0	29	0	1	0	3	7	10	8	0	2	0
	1130	"	1000·8	957·8	..	28·4	25·4	24·0	29·9	77	..	6·5	..	7·1	0	0	30	1	2	1	3	3	7	12	1	1	0
	1730	"	997·9	955·0	..	28·6	25·1	23·5	28·9	75	..	7·3	..	4·6	0	0	29	2	2	0	2	5	11	6	1	2	0
	2330	"	1000·8	957·3	..	25·5	24·0	23·3	29·8	88	..	6·6	..	6·9	0	0	28	0	0	1	7	9	7	4	0	3	0
Mandla	0830	443	1001·6	952·7	..	25·5	24·7	23·4	30·6	88	..	6·6	..	1·9	0	0	10	5	0	0	0	2	0	2	1	21	0
	1730	"	998·4	950·1	..	27.4	24·8	23·5	29·3	80	..	(a) 7·2	..	(a) 3·4	0	0	18	1	0	0	1	5	4	3	4	12	0
Pendra	0530	625	1000·2	931·7	..	23·2	22·6	22·3	27 0	95	..	7·6	..	6·0	0	0	29	4	1	1	1	7	12	3	0	2	0
	0830	"	1001·3	933·0	+1·2	24·6	23·4	22·9	28·2	91	+7	7·5	+1·7	6·5	0	0	30	3	1	3	0	9	7	3	4	1	0
	1130	"	1000·6	933·0	..	27·0	24·4	23·2	28·8	80	..	7·8	..	7·4	0	1	30	6	2	0	1	6	7	5	4	0	0
	1730	"	998·1	930·4	..	25·8	23·7	22·8	27·8	84	..	7·8	..	6·0	0	1	30	6	2	0	1	6	11	3	2	0	0
	2330	"	1001·2	932·7	..	23·8	23·0	22·6	27·5	94	..	6·9	..	5·9	0	0	27	4	0	0	0	9	11	2	1	4	0
Ambikapur	0830	611	1001·2	934·5	..	25·0	23·5	22·8	27·9	88	..	6·4	..	7·5	0	0	29	2	3	2	0	1	12	9	0	2	0
	1730	"	998·2	931·9	..	26·3	24·0	23·1	28·2	83	..	5·8	..	8·3	0	0	30	1	4	1	0	1	10	10	3	1	0
Champa	0830	245	1002·5	974·8	..	26·5	25·1	24·5	30·6	89	..	7·2	..	4·2	0	0	28	1	3	3	0	1	8	12	0	3	0
	1730	"	998·8	971·7	..	28·1	25·5	24·3	30·2	81	..	7·7	..	6·1	0	0	28	2	1	2	0	2	12	5	4	3	0
Raigarh	0830	220	1001·5	976·9	..	26·5	24·9	24·2	30·1	88	..	7·4	..	4·2	0	0	30	0	6	0	3	1	17	1	2	1	0
	1730	"	998·4	974·1	..	28·3	25·5	24·4	30·3	80	..	7·5	..	3·5	0	0	24	0	4	0	0	1	18	1	0	7	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(*Contd.*)																											
Raipur	0530	298	1000·8	967·6	..	24·9	24·3	24·0	30·0	94	..	7·8	..	5·5	0	0	28	0	1	1	1	7	12	5	1	3	0
	0830	"	1002·2	969·0	+1·4	26·5	24·8	24·1	30·0	87	+3	7·4	+1·0	7·4	0	0	29	1	0	1	0	4	12	10	1	2	0
	1130	"	1001·7	968·9	..	28·6	25·5	24·1	30·1	78	..	7·5	..	8·9	0	0	31	2	0	2	0	1	15	9	2	0	0
	1730	"	999·2	966·3	..	28·0	25·1	23·8	29·4	79	..	7·5	..	8·5	0	1	29	0	0	3	0	0	14	12	1	1	0
	2330	"	1001·8	968·6	..	25·7	24·6	24·1	29·9	91	..	7·2	..	8·8	0	2	27	0	0	0	0	6	17	5	1	2	0
Kanker	0830	402	1002·4	958·1	+1·5	26·3	24·7	24·0	29·7	87	+5	6·5	−0·9	1·0	0	0	7	0	0	0	0	0	5	0	2	24	0
	1730	"	999·6	955·6	..	27·6	25·8	25·1	31·7	87	..	7·1	..	1·4	0	0	13	0	0	0	0	0	13	0	0	18	0
Jagdalpur	0530	553	1001·9	941·1	..	23·2	22·3	21·9	26·4	92	..	7·4	..	2·8	0	0	13	0	0	0	0	4	9	0	0	18	0
	0830	"	1003·0	942·4	+1·1	24·7	22·9	22·2	26·6	86	+2	7·4	+0·8	4·7	0	0	24	0	0	0	0	4	19	1	0	7	0
	1130	"	1002·7	942·4	..	26·5	23·6	22·3	26·8	79	..	7·6	..	7·1	0	0	28	0	0	0	1	5	16	5	1	3	0
	1730	"	1000·2	940·0	..	26·1	23·3	22·1	26·6	79	..	7·7	..	5·5	0	0	26	0	0	0	2	6	10	8	0	5	0
	2330	"	1002·8	942·1	..	24·0	22·8	22·3	26·4	90	..	6·2	..	1·9	0	0	10	0	0	0	0	4	6	0	0	21	0
Gujarat																											
Deesa	0830	136	1001·4	986·2	+1·0	27·6	25·1	24·1	30·0	82	..	5·5	..	6·1	0	0	31	0	0	0	5	10	8	5	3	0	0
	1730	"	997·7	982·8	..	22·7	26·1	23·1	28·3	59	..	5·5	..	5·8	0	0	28	0	1	1	3	5	10	6	2	3	0
Radhanpur	0830	30	1001·1	997.8	..	28·7	26·8	26·0	33·6	86	..	4·3	..	12·9	0	2	28	0	0	2	0	4	22	1	1	1	0
	1730	"	998·1	994·8	..	34·1	28·2	25·8	33·2	64	..	3·7	..	13·7	0	5	24	0	0	0	3	2	23	0	1	2	0
Idar	0830	219	1001·7	977·3	..	26·6	24·7	23·7	29·3	85	..	6.5	..	6·2	0	0	29	0	0	1	2	6	11	8	1	2	0
	1730	"	998·2	974·2	..	31·0	25·7	23·2	28·4	66	..	7·3	..	7·6	0	0	28	3	1	0	2	6	7	6	3	3	0
Ahmedabad	0230	55	1000·6	994·3	..	27·4	25·0	23·9	29·7	82	..	5·9	..	12·0	0	1	27	0	0	0	3	1	15	8	1	3	0
	0530	"	1000·7	994·4	..	26·7	24·8	24·0	29·8	86	..	6·2	..	12·3	0	2	29	0	0	0	3	4	14	7	3	0	0
	0830	"	1002·0	995·8	+0·5	27·9	25.5	24·4	30·5	82	−1	6·5	+0·1	14·3	0	6	24	1	0	0	3	3	13	7	3	1	0
	1130	"	1002·1	995·6	..	30·7	26·0	23·9	29·7	68	..	6·6	..	16·1	0	10	21	1	0	0	2	3	11	10	4	0	0
	1730	"	998·5	992·3	..	33·0	26·4	23·5	28·9	60	..	6·9	..	16·2	0	8	20	0	0	0	1	6	8	10	3	3	0
	2330	"	1001·5	995·2	..	28·6	25·3	24·0	29·8	77	..	6·2	..	16·1	0	3	26	0	0	0	2	5	14	7	1	2	0
Dohad	0830	333	1002·1	965·2	..	26·6	24·4	23·3	28·6	83	−5	6·0	−1·3	21·1	0	13	18	0	0	0	2	0	14	15	0	0	0
	1730	"	998·9	962·6	..	30·1	25·1	22·7	27·6	66	..	6·5	..	22·5	0	16	15	0	0	0	0	1	14	16	0	0	0
Baroda	0530	34	1001·4	997·4	..	26·5	25·3	24·8	31·3	91	..	5.0	..	2·5	0	0	20	0	0	0	3	1	11	5	0	11	0
	0830	"	1002·7	998·8	..	28·1	26·1	25·2	32·1	85	0	5·8	−1·2	3·1	0	0	23	0	0	1	2	1	13	6	0	8	0
	1130	"	1002·8	999·0	..	31·1	26·6	24·6	30·9	69	..	5·8	..	5·3	0	0	30	0	0	1	3	2	16	8	0	1	0
	1730	"	999·6	995·7	..	31·8	26·5	24·2	30·2	67	..	6·8	..	5·4	0	0	27	0	0	0	2	3	19	3	0	4	0
	2330	"	1002·4	998·4	..	27·8	25·7	24·7	31·1	85	..	4·7	..	5·7	0	0	30	0	0	0	1	1	21	7	0	1	0
Baroda (Aerodrome)	0830	38	1002·6	998·3	..	27·8	25·9	25·1	31·9	86	..	6·5	..	12·4	0	2	29	1	0	1	2	5	17	3	2	0	0
	†1130	"	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	999·4	995·2	..	31·1	26·3	24·1	30·0	69	..	6·9	..	17·8	0	12	19	0	0	0	1	12	13	3	2	0	0
Broach	0830	17	1002·3	1000·4	..	27·4	25·8	24·9	31·5	87	..	6·1	..	7·2	0	0	31	0	0	0	2	5	19	3	2	0	0
	1730	"	999·8	997·8	..	30·4	26·0	24·0	29·8	70	..	6·5	..	10·3	0	0	31	0	0	0	0	0	28	1	2	0	0
Surat	0530	12	1001·8	1000·5	..	26·7	25·4	24·8	31·3	89	..	6·4	..	6·4	0	1	19	0	0	1	0	4	14	1	0	11	0
	0830	"	1003·0	1001·7	+0·6	27·7	25·9	25·1	31·9	86	+3	6·3	−0·6	6·9	0	1	26	0	0	0	1	6	17	3	0	4	0
	1130	"	1003·5	1002·2	..	29·9	26·6	24·9	31·5	76	..	6·9	..	11·2	0	3	26	0	0	0	0	4	23	0	2	2	0
	1730	"	1000·8	999·5	..	29·9	26·2	24·7	31·1	75	..	6·6	..	13·8	0	5	26	0	0	0	0	6	24	0	1	0	0
	2330	"	1003·1	1001·8	..	27·7	25·8	25·0	31·7	85	..	5·2	..	9·2	0	3	22	0	0	0	0	4	21	0	0	6	0
Saurashtra and Kutch																											
Naliya	0830	..	..	..	..	28·5	26·5	25·6	32·8	85	..	6·9	..	16·3	0	9	20	2	1	0	0	1	16	7	2	2	0
	1730	..	..	..	..	30·0	26·6	25·2	32·1	76	..	6·9	..	20·9	0	15	16	0	2	0	0	1	21	7	0	0	0
Bhuj (Aerodrome)	0230	80	999·4	990·4	..	27·1	25·5	24·7	31·1	87	..	4·0	..	13·3	0	0	28	0	0	1	2	0	20	5	0	3	0
	0530	"	999·4	990·3	..	26·8	25·3	24·7	31·1	89	..	5·4	..	12·5	0	2	25	0	0	0	2	1	18	5	1	4	0
	0830	"	1000·7	991·7	+0·7	28·5	25·9	24·8	31·3	81	+6	5·9	−0·1	19·1	0	9	20	1	2	0	1	2	14	8	1	2	0
	1130	"	1000·8	991·9	..	31·4	26·0	23·8	29·5	64	..	6·1	..	23·2	0	18	11	1	1	1	1	2	15	7	1	2	0
	1730	"	998·2	989·3	..	31·8	26·3	23·8	29·5	64	..	6·0	..	26·0	0	21	10	0	0	1	1	2	16	10	1	0	0
	2330	"	1000·8	991·7	..	27·7	25·6	24·6	30·9	84	..	3·5	..	15·4	0	5	25	0	0	2	1	0	22	5	0	1	0
Bhutakia Bhimasar	0830	47	1000·7	995·3	..	27·9	25·9	25·2	32·1	85	..	5·9	..	20·5	0	14	17	0	0	1	3	5	11	10	1	0	0
	1730	"	997·8	992·6	..	33·5	26·6	23·4	28·8	57	..	7·2	..	29·9	0	23	8	0	1	2	1	1	20	5	1	0	0
New Kandla	0830	14	1001·6	1000·0	..	28·8	26·2	25·2	32·1	81	..	6·4	..	23·9	0	20	11	1	0	3	1	1	16	7	2	0	0
	1730	"	999·1	997·5	..	32·0	26·6	24·3	30·4	64	..	5·7	..	34·3	0	28	3	1	0	1	1	2	19	7	0	0	0
Mandvi	0830	9	1000·9	999·9	..	28·9	26·6	25·6	32·8	81	..	6·5	..	36·1	2	23	6	2	3	0	0	0	12	5	1	0	8
	1730	"	999·3	998·2	..	29·8	27·3	26·3	34·2	82	..	6·7	..	35·5	0	30	1	0	1	0	1	0	28	0	0	0	1
Dwarka	0830	11	1001·3	1000·0	+0·3	28·6	26·5	25·6	32·8	84	+1	6·4	−0·2	24·9	0	20	11	0	2	0	0	0	12	13	4	0	0
	1730	"	999·6	998·3	..	29·2	26·6	25·5	32·6	81	..	6·4	..	26·9	0	19	12	1	0	0	1	1	11	14	3	0	0

† Observations not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or heights in g.p.m. of the nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperatur in °C: Dry bulb	Mean temperatur in °C: Wet bulb	Mean temperatur in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal.	Mean wind speed Km. per hour.	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —(*Contd.*)																											
Porbander	0830	7	1002·0	1001·2	..	28·1	26·7	26·3	34·2	89	..	7·2	..	18·3	0	14	17	0	1	1	0	0	10	17	2	0	0
	1730	"	1000·3	999·5	..	29·5	27·6	26·9	35·4	86	..	7·5	..	24·6	0	22	9	0	0	0	1	1	15	10	4	0	0
Porbander (Aerodrome)	0830	7	1001·7	1000·9	..	28·5	26·1	25·2	32·1	83	..	6·4	..	20·1	0	14	17	1	0	1	0	2	16	7	4	0	0
	1130	"	1002·3	1001·5	..	30·5	26·9	25·5	32·6	76	..	5·8	..	24·1	0	21	10	1	0	0	1	0	20	7	2	0	0
	1730	"	1000·0	999·2	..	29 8	26·5	25·3	32·2	77	..	5·8	..	27·9	0	27	4	0	0	0	1	1	18	9	2	0	0
Jamnagar	0530	23	999·9	997·3	..	26·7	25·4	24·9	31·5	90	..	5·2	..	18·3	0	14	16	0	0	1	1	3	16	7	2	1	0
	0830	"	1001·3	998·8	+0·7	28·6	26·2	25·3	32·2	83	+2	6·1	+1·2	24·4	0	22	9	1	0	2	1	0	20	6	1	0	0
	1130	"	1001·7	999·2	..	31·1	26·5	24·6	30·9	69	..	6·4	..	30·3	0	24	7	1	1	2	0	0	11	14	2	0	0
	1730	"	999·0	996.5	..	30·8	26·3	24·4	30·5	69	..	6·3	..	32·9	0	25	6	0	0	1	2	2	8	16	2	0	0
	2330	"	1001·6	999·0	..	27·6	25·7	24·8	31·3	86	..	4 6	..	23·5	0	19	12	0	0	0	2	2	14	12	1	0	0
Rajkot (Aerodrome)	0830	138	1001·6	986·2	+0·5	27·4	25·7	24·9	31·5	87	+6	5·9	—0.7	26·5	0	23	8	1	1	0	1	2	18	7	1	0	0
	1130	"	1001.7	986·5	..	30·5	26·0	24·0	29·8	69	..	6·0	..	29·3	0	26	5	0	2	1	0	2	17	7	2	0	0
	1730	"	998·9	983·7	..	31·0	25·8	23·5	28·9	66	..	5·7	..	31.9	0	29	2	0	0	0	1	2	17	8	3	0	0
Surendranagar	0830	74	1001·7	993·3	..	28·2	25·5	24·3	30·4	80	..	6·1	..	14·5	0	7	24	0	0	3	1	4	14	8	1	0	0
	1730	"	·998.3	990·2	..	32·8	26·8	24·1	30·0	62	..	6·5	..	12·5	0	10	19	0	1	0	2	1	11	13	1	2	0
Bhavnagar	0830	17	1002·5	1000·7	+0·9	28·7	26·2	25·1	31.9	81	+5	4.6	—1·7	8·3	0	1	30	1	0	0	2	0	17	8	3	0	0
	1730	"	999·7	997·9	..	32·0	27·4	25·3	32·2	69	..	6·6	..	17·0	0	11	20	0	0	1	3	6	17	4	0	0	0
Bhavnagar (Aerodrome).	0830	11	1002·3	1001·1	..	28·8	25·7	24·5	30·7	78	..	4·6	..	20 1	0	11	20	1	0	0	0	3	14	10	3	0	0
	1130	"	1002·5	1001·3	..	31·3	26·2	23·9	29·7	67	..	5·6	..	23·3	0	16	15	1	1	2	2	2	15	6	2	0	0
	1730	"	999·4	998·2	..	31·9	26·4	23·8	29·5	65	..	5·1	..	29·9	0	23	7	0	0	0	2	5	21	2	0	1	0
Mahuva	0830	9	1002·3	1001·3	..	27·6	25·9	25·2	32·1	87	..	6·5	..	14·0	0	4	27	2	0	0	1	5	16	5	2	0	0
	1730	"	1000·4	999·4	..	29·2	26.2	24·9	31·5	79	..	6·5	..	21·2	0	17	14	1	0	0	0	10	17	2	1	0	0
Keshod	0830	51	1002·4	996·6	..	27·3	25·8	25·1	31·9	88	..	5·7	..	22 1	0	16	15	2	0	0	1	3	15	7	3	0	0
	1130	"	1002·8	997·1	..	29·5	26·3	25·0	31·7	78	..	6.1	..	32·3	0	25	6	1	0	0	0	1	16	11	2	0	0
	1730	"	1000·5	994·8	..	29·6	26·2	24·6	30·9	76	..	5·6	..	32·5	0	29	2	0	0	0	2	0	16	12	1	0	0
Veraval	0230	8	1001·2	1000·3	..	27·6	26·5	26·0	33·6	91	..	5·8	..	33·9	0	25	6	1	0	0	0	1	17	8	4	0	0
	0530	"	1001·0	1000·1	..	27·4	26·3	25·8	33·2	91	..	6·2	..	32·0	1	21	9	1	0	0	0	0	16	9	5	0	0
	0830	"	1002·4	1001·5	+0·1	27·9	26·5	26.0	33·6	90	+5	6·2	—0·4	30·9	0	22	9	2	0	0	0	1	12	12	4	0	0
	1130	"	1003·1	1002·2	..	28·9	27·0	26·2	34·0	86	..	6·4	..	33 1	2	21	8	0	0	0	0	1	14	12	4	0	0
	1730	"	1000·8	999·9	..	28·7	26·9	26·2	34·0	87	..	6·3	..	31·7	0	27	4	0	0	0	0	0	16	7	8	0	0
	2330	"	1002·6	1001·7	..	27·8	26·6	26·1	33 8	91	..	5·4	..	31·1	0	24	7	2	0	0	0	2	15	8	4	0	0
Konkan Dahanu.	0830	5	1003·4	1002·9	+0.7	27·4	25·7	24·9	31·5	87	—1	7·7	+0·1	19·7	1	4	26	0	1	3	4	4	9	9	1	0	0
	1730	"	1001·6	1001·1	..	28·5	25·9	24·8	31·3	80	..	7·8	..	24·5	0	16	14	4	0	0	0	2	10	12	2	1	0
Bombay (Colaba)	0830	11	1004·5	1003·3	+0·1	27·7	25·9	25·1	31·9	86	+3	6·5	—0·5	13·3	0	6	24	0	1	2	2	0	12	12	1	1	0
	1130	"	1004·8	1003·6	..	29·1	26·4	25·3	32.2	81	..	6·3	..	12·1	0	3	28	2	1	0	2	1	10	13	2	0	0
	1730	"	1002·6	1001·4	..	28·7	26·2	25·1	31.9	81	..	6·7	..	12.4	0	2	29	1	0	0	1	0	8	17	4	0	0
Bombay (Santacruz Aerodrome).	0230	15	1003·0	1001·4	..	26·6	25·3	24·7	31·1	90	..	6·5	..	15·1	0	9	18	0	1	0	0	2	10	14	0	4	0
	0530	"	1002·7	1001·2	..	26·6	25·3	24·7	31·1	89	..	6·8	..	15·7	0	11	14	0	1	1	0	0	10	13	0	6	0
	0830	"	1004 3	1002·7	—0·1	27·7	25·8	25·1	31·9	86	+5	7·3	+0·3	14·7	0	6	19	0	0	0	1	0	9	14	1	6	0
	1130	"	1004·6	1003·0	..	28·6	26·2	25·2	32·1	82	..	7·2	..	19·1	0	13	17	1	0	1	0	0	7	19	2	1	0
	1730	"	1002·3	1000·7	..	28·4	26·0	25·0	31.7	82	..	7·5	..	18 6	0	13	18	2	0	0	0	0	8	17	4	0	0
	2330	"	1004·5	1002·8	..	27·0	25.5	24·8	31·3	88	..	6·0	..	14·4	0	7	21	0	1	1	1	0	10	14	1	3	0
Alibag	0830	7	1004·7	1003·9	0	27.6	26·1	25·5	32·6	88	+4	6·8	—0·8	25·0	0	20	9	0	0	2	4	0	12	11	0	2	0
Harnai	0830	20	1005·0	1002·7	+0·6	27·0	25.6	24·8	31·3	88	+3	7·2	..	17·4	0	13	17	1	1	2	1	3	7	14	1	1	0
	1730	"	1003·2	1001·0	..	27·8	25·8	24·9	31·5	85	..	7·5	..	23·8	0	18	13	0	0	0	0	3	7	18	3	0	0
Ratnagiri	0830	35	1005·8	1001·9	0	27·0	25·4	24·9	31·5	88	..	6·7	..	..	..	..	..	0	0	7	0	0	3	21	0	0	0
	1730	"	1003·9	999·9	..	27·7	25·6	24·7	31·1	83	..	7·1	..	..	..	..	..	0	0	0	0	1	7	23	0	0	0
Devgad	0830	36	1005·9	1001·9	+0 6	26·9	25·3	24·9	31·5	89	+2	6·9	+0·1	25·0	1	21	8	0	0	5	1	0	9	10	5	1	0
	1730	"	1004·1	1000·1	..	27·9	26·1	25.3	32 2	86	..	7·0	..	30·5	1	25	5	0	0	0	0	2	7	12	10	0	0
Vengurla	0230	9	1005·3	1004·3	..	25·8	24·9	24·5	30·5	93	..	(a) 6·1	..	(a) 6·7	0	1	20	3	0	0	0	0	4	13	1	9	0
	0530	"	1005.1	1004·1	..	25·6	24·8	24·4	30·5	93	..	6·6	.	7·0	0	2	19	3	0	1	0	0	13	1	3	10	0
	0830	"	1006·6	1005·6	..	26·5	25·3	24·8	31·3	90	..	7·0	..	5·9	0	1	20	0	0	3	0	0	12	6	0	10	0
	1130	"	1007·0	1006·0	..	28·1	25·9	25·0	31·7	83	..	6·9	..	7·2	0	1	25	0	0	0	1	1	14	7	3	5	0
	1730	"	1004·8	1003·8	..	27·5	25·7	24·9	31·5	86	..	7·5	..	8·6	0	0	31	1	0	0	0	2	11	11	5	0	1
	2330	"	1006·9	1005·9	..	26·1	25·0	24·5	30·7	91	..	6·5	..	7·3	0	2	19	0	0	0	2	1	6	11	1	10	0
Maharashtra (Including Marathwada) Nandurbar	0830	206	1003·2	980·1	..	26·3	24·6	23 9	29·7	87	..	7·3	..	8·8	0	0	31	0	0	2	0	0	2	27	0	0	0
	1730	"	1000·1	977·3	..	29·3	25·2	23·3	28·6	71	..	7·4	..	12·3	0	1	30	0	0	0	0	1	3	27	0	0	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars. At station level	Mean pressure in millibars. Departure from normal.	Mean Temperature in °C. Dry bulb	Mean Temperature in °C. Wet bulb	Mean Temperature in °C. Dew Point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas). Mean amount	Cloud amount (Oktas). Departure from normal.	Mean wind speed Km. per hour.	Wind speed, (Km.p.h.) 62 or more	Wind speed, (Km.p.h.) 20 to 61	Wind speed, (Km.p.h.) 1 to 19	No. of observations. Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Maharashtra (Including Marathwada)—(Contd.)																											
Jalgaon	0830	201	1003·2	980·6	..	26·7	24·5	23·5	28·9	83	..	6·5	..	10·7	0	2	27	0	2	3	0	1	6	12	5	2	0
	1730	"	1000·0	977·9	..	30·4	24·9	22·4	27·1	65	..	6·5	..	19·0	0	13	18	1	1	3	1	2	4	14	5	0	0
Malegaon	0830	437	1003·2	954·9	+0·5	25·7	23·1	21·8	26·1	79	+5	7·1	+1·1	7·9	0	3	22	2	1	1	0	0	9	9	3	6	0
	1730	"	999·9	952·3	..	29·4	23·7	20·8	24·6	61	..	7·3	..	14·5	0	5	25	2	2	0	1	0	9	11	5	1	0
Deolali	0830	571	1004·6	941·6	..	24·2	22 7	22·1	26·6	88	..	6·8	..	17·0	0	10	20	0	2	0	0	0	19	9	0	1	0
	1730	"	1002·2	939·7	..	25·9	23·2	22·0	26·4	80	..	7·0	..	21·3	0	21	10	1	2	0	0	0	18	9	1	0	0
Aurangabad	0830	581	1004·0	940·3	+0·4	24·7	22·3	21·1	25·0	81	0	6 5	−0 5	11·1	0	5	17	0	0	0	0	0	6	16	1	8	0
	1730	"	1000·3	937·4	..	28 5	22·8	20·1	23·5	62	..	6·7	..	(a) 24·4	0	20	10	2	1	1	0	3	4	18	1	1	0
Aurangabad (Chikalthana Aerodrome).	0230	579	1002·5	938·7	..	23·3	21·6	20·7	24·4	85	..	5·9	..	12·1	0	3	25	0	0	1	0	1	5	19	2	3	0
	0530	"	1002·6	938·6	..	22·6	21·4	20·8	24·6	90	..	6·6	..	10·9	0	3	22	0	0	0	0	0	6	16	3	6	0
	0830	"	1003·6	940·0	..	24·8	22·3	21·2	25·2	81	..	6·7	..	12·1	0	3	25	0	0	2	0	0	5	19	2	3	0
	1130	"	1002·8	940·0	..	28·2	23·2	21·1	25·0	66	..	6 5	..	17·5	0	12	17	0	0	0	1	0	4	21	3	2	0
	1730	"	999·6	937·1	..	28·8	22·9	20·1	23·5	61	..	7·3	..	23.9	0	19	11	1	2	0	2	0	6	15	4	1	0
	2330	"	1003·5	939·8	..	24·3	22·0	20·9	24·7	82	..	6·2	..	13·4	0	7	18	0	0	0	2	0	4	17	2	6	0
Ahmednagar	0830	657	1004·2	932·2	+0·3	24·2	21·8	20·6	24 3	81	+4	6·3	+0·5	3·0	0	0	20	0	0	0	0	0	7	13	0	11	0
	1730	"	1000·1	929·4	..	28·3	22·4	19·7	22·9	59	..	7.1	..	5·5	0	0	29	2	1	1	0	0	9	10	6	2	0
Bhir	0830	519	1004·4	947·4	..	25·8	23·1	21·9	26·3	79	..	5·5	..	12·3	0	1	30	2	1	1	1	4	7	11	4	0	0
	1730	"	1000·5	944·3	..	30·0	24·2	21·6	25·8	63	..	6·6	..	15·0	0	4	27	1	1	0	2	4	6	12	5	0	0
Parbhani	0830	423	1004·4	957·5	..	25·4	22·5	20·9	24·7	77	..	6·7	..	13·2	0	1	30	0	0	1	2	1	8	15	4	0	0
	1730	"	999·8	954·0	..	30·7	23·5	19·3	22·4	55	..	7·3	..	14.5	0	6	25	2	0	0	4	2	4	14	5	0	0
Nanded	0830	358	1003·7	963·9	..	26·0	24·3	23·5	28·9	87	..	2·9	.	10·5	0	0	30	1	0	0	0	4	12	9	4	1	0
	1730	"	999·9	960·9	..	30·7	26·7	24·9	31·5	72	..	3·2	..	8·9	0	0	29	1	1	1	1	2	9	11	3	2	0
Poona	0530	559	1003·2	941·3	..	22.7	21·5	20·8	24·6	90	..	6·5	..	3·5	0	0	14	0	0	0	0	0	6	7	1	17	0
	0830	"	1004·3	942·7	+0·1	24·5	22.5	21·5	25·6	84	+5	6·9	+0 3	2·5	0	0	12	0	0	0	0	0	7	4	1	19	0
	1130	"	1003·0	942·9	..	27·4	23·4	21·6	25·9	72	..	6·5	..	8·3	0	0	30	3	0	1	0	2	15	6	3	1	0
	1730	"	1001·4	940·4	..	26·9	23·2	21·5	25·6	73	..	7·2	..	8·1	0	0	29	0	0	0	0	1	10	14	4	2	0
	2330	"	1004·6	942·8	..	23·5	21·9	21·1	25·0	86	..	6·3	..	4·5	0	0	19	0	0	0	0	0	6	12	1	12	0
Poona (Lohagaon Aerodrome).	0230	593	1003·9	938·2	..	22·5	21·5	21·0	24·9	92	..	6·7	..	6·6	0	0	25	0	0	1	0	0	0	24	0	6	0
	0530	"	1003 3	937·7	..	22·0	21·1	20·8	24·6	93	..	6·8	..	5·8	0	1	21	0	0	1	0	0	0	20	1	9	0
	0830	"	1004·5	939·2	..	23·9	22·1	21·2	25·2	85	..	5·7	..	11·3	0	5	25	0	1	0	0	0	1	27	1	1	0
	1130	"	1004·2	939·4	..	26·6	23·0	21·2	25·2	73	..	7·0	..	18·6	0	12	19	0	0	0	2	0	1	26	2	0	0
	1730	"	1001·6	936·8	..	26·4	22·8	21·2	25·2	75	..	7·0	..	22·5	0	18	13	0	0	1	0	0	2	27	1	0	0
	2330	"	1004·9	939.3	..	23·0	21·7	21·0	24·9	89	..	6·7	..	9·7	0	3	25	0	1	0	0	0	0	27	0	3	5
Baramati	0830	551	1004·3	943·9	..	25·4	22·5	21.2	25·2	78	..	6·7	..	11·1	0	1	30	0	0	1	2	0	13	14	1	0	0
	1730	"	1000·6	941·0	..	29·0	23·4	20·8	24·6	63	..	6.7	..	23·7	0	19	12	0	0	1	2	1	8	16	3	0	0
Jeur	0830	521	1004·3	946·9	..	25·1	22·5	21·3	25·3	79	..	5·8	..	14·0	0	5	25	0	0	1	1	0	7	13	8	1	0
	1730	"	1000·3	944·0	..	29·9	23·3	20·1	23·5	57	..	6·8	..	22·6	0	20	10	0	0	1	2	1	1	18	7	1	0
Sholapur	0530	479	1003·9	950·8	..	23·3	22·4	21·9	26·3	92	..	6·2	..	3·3	0	0	20	0	0	0	1	0	15	3	1	11	0
	0830	"	1004·9	951·9	+0·3	25·1	23·2	22·4	27·1	85	+12	6·6	+0·6	8·0	0	0	28	1	0	0	2	1	19	3	2	3	0
	1130	"	1003·9	951·8	..	29·6	24·8	22·8	27·7	68	..	6·4	.	13·5	0	6	24	0	0	0	1	3	10	12	4	1	0
	1730	"	1000·5	948·6	..	30·1	24·5	22·0	26·4	65	..	7·3	..	13·4	0	7	23	2	0	0	4	0	14	3	7	1	0
	2330	"	1004·8	952·0	..	25·2	23·0	22·1	26·6	83	..	6·3	..	7·6	0	1	30	0	1	1	0	0	19	9	1	0	0
Miraj	0830	554	1005·8	944·7	+0·2	23·8	22·2	21·5	25·6	86	+3	6·1	−1·3	..	..	..	..	0	0	1	0	0	5	13	0	12	0
	1730	"	1002·8	942·4	..	26·8	22·6	20·7	24·4	71	..	6·1	..	..	..	..	..	0	0	0	0	0	2	21	2	6	0
Kolhapur	0530	570	1004·3	941·1	..	21·9	21·2	20·8	24·6	94	..	6·6	..	10·8	0	4	24	0	1	1	0	0	9	16	1	3	0
	0830	..	1005·4	942·5	−0·1	23·3	22·0	21·4	25·5	89	0	7·1	−0·2	13·5	0	4	26	0	1	2	0	0	9	17	1	1	0
	1130	"	1005·1	942·7	..	25·7	23·0	21·8	26·1	80	..	7·2	..	17·9	0	10	20	0	1	1	1	1	4	18	4	1	0
	1730	"	1002·8	940·4	..	25·1	22·5	21·4	25·5	81	..	7·3	..	19·1	0	14	17	0	1	1	0	1	4	22	2	0	0
	2330	"	1005.9	942·8	..	22·5	21·6	21·2	25·2	93	..	6·7	..	12·8	0	4	26	0	0	1	0	0	15	15	1	1	1
Vidarbha																											
Buldhana	0830	650	1002·8	931·5	..	23·9	21·8	20.7	24.5	83	..	6·9	..	3·8	0	0	26	0	0	0	0	0	2	0	24	5	0
	1730	"	999·7	929·8	..	27·4	23·0	21·1	24·9	70	..	7·3	..	3·2	0	0	21	0	4	0	0	0	0	0	17	10	0
Akola	0830	282	1003·0	971·6	+0·8	26·2	24·1	23·1	28·2	84	+6	7·0	+0·7	3·9	0	0	27	0	0	2	0	0	8	13	4	4	0
	1130	"	1002·5	971·5	..	29·2	25·0	23·1	28·0	70	..	6·8	..	5·5	0	0	25	0	1	1	0	1	5	15	2	6	0
	1730	"	999·2	968·3	..	29·9	25·2	23·0	28·1	69	..	7·6	..	3·3	0	0	26	2	1	0	0	0	1	17	5	5	0
Akola (Aerodrome)	0530	309	1001·2	966·6	..	24·4	23·1	22·5	27·2	89	..	6·6	..	5·5	0	0	26	0	0	3	0	0	5	17	1	5	0
	2330	"	1002·0	967·6	..	26.1	23·9	22·8	27.8	84	..	6·8	..	5.5	0	0	25	0	0	1	1	0	8	12	3	6	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 61	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—(Contd.)																											
Amravati	0830	370	1003·2	962·2	+1·2	25·8	23.8	22·8	28·0	84	+3	7·0	+0.8	14·1	0	5	22	1	1	0	0	0	14	9	2	4	0
	1730	"	999·2	958·6	..	28·4	24·2	22·0	26·8	71	..	6·7	..	11·8	0	0	31	2	1	0	2	0	12	5	9	0	0
Yeotmal	0830	451	1002.4	952·4	..	25·1	23·3	22·4	27 2	85	..	5·4	..	8·0	0	0	31	0	1	0	1	3	11	15	0	0	0
	1730	"	998.8	949·8	..	29·3	24·4	22·0	26·7	67	..	7·5	..	8·1	0	0	81	0	0	0	1	6	4	14	6	0	0
Nagpur	0230	310	1001·0	966·4	..	24·7	23·9	23·5	29·0	93	..	6·8	..	4·1	0	1	19	0	0	0	0	2	6	9	3	11	0
	0530	"	1001·2	966·6	..	24·4	23·7	23.4	28·8	94	..	7·6	..	4·7	0	1	18	1	0	0	0	1	8	8	1	12	0
	0830	"	1002·7	968·1	+1·1	25·9	24·2	23·4	29·7	87	+5	7·2	+0.7	7·0	0	1	25	1	0	1	1	1	8	9	5	5	0
	1130	"	1002·4	968·1	..	28·4	25·0	23·5	28·9	76	..	7·4	..	10·4	0	4	23	1	0	0	1	2	8	10	5	4	0
	1730	"	999·2	965·1	..	26·6	24·8	22·9	28·3	73	..	7·1	..	10·8	0	0	30	0	1	1	3	1	3	13	8	1	0
	2330	"	1002·0	967·2	..	25·4	24·2	23·7	29·2	91	..	7·4	..	5·7	0	1	20	0	0	0	1	4	4	8	4	10	0
Gondia	0830	313	1002·6	967·8	..	25·9	24·2	23·4	28·8	87	..	7·7	..	3·6	0	0	26	1	1	0	1	1	14	0	6	5	2
	1730	"	999·5	965 0	..	28·0	25·1	23·9	29·4	78	..	7·5	..	5·1	0	0	28	1	0	0	3	1	15	0	5	3	3
Brahmapuri	0830	229	1003·6	978·0	..	26·1	24·5	23·8	27·8	88	..	7·4	..	6·3	0	1	24	2	1	0	0	3	11	6	2	6	0
	1730	"	999.9	974·7	..	29·2	25·6	24·1	29·3	75	..	6·7	..	5·2	0	0	26	3	1	0	1	4	9	6	2	5	0
Chanda	0830	193	1003·3	981·7	+1.0	26·8	24·7	23·7	29·3	84	+6	7·1	+0·9	8·7	0	2	26	0	0	0	3	6	7	8	4	3	0
	1730	"	999·5	978·2	..	30·0	25·6	23·7	29·1	70	..	7·5	..	8·3	0	1	28	2	0	2	1	4	8	10	2	2	0
Sironcha	0830	123	1004·1	990·3	..	26·8	24·8	24.0	29·6	85	..	7·0	..	5·7	0	0	29	0	1	2	9	2	7	7	1	2	0
Coastal Andhra Pradesh	1730	"	1000·4	986·7	..	30·4	26.0	24·1	30·0	71	..	6·8	..	3·8	0	0	29	1	1	3	7	3	6	4	4	2	0
Nellore	0530	20	1004·0	1001·8	..	26·9	24·6	23·5	28·9	82	..	6·1	..	2·5	0	0	18	0	0	3	0	2	3	10	0	13	0
	0830	"	1005·5	1003·3	+0.5	29·5	25·5	23·7	29·3	72	+9	6·6	−0·3	3·7	0	0	31	0	1	1	2	4	5	17	1	0	0
	1130	"	1004·8	1002·6	..	33·0	25·5	22·1	26·6	54	..	6·2	..	5·8	0	0	30	0	0	3	1	0	2	23	1	1	0
	1730	"	1001·9	999·7	.	32·7	26.0	23·0	28·1	58	..	6·0	..	3·7	0	0	29	1	0	10	3	1	1	12	1	2	0
	2330	"	1005·0	1002·8	.	28·1	25·3	24·0	29·8	80	..	4·7	..	1·8	0	0	10	0	0	2	1	0	3	4	0	21	0
Ongole	0830	12	1004·6	1003 3	..	29·5	25·5	23·4	28·8	72	..	6·8	..	5.2	0	0	26	0	0	0	5	0	10	6	5	5	0
	1730	"	1001·2	999·9	..	32.7	26·4	23·6	29·1	60	..	7·1	..	5·4	0	0	26	0	0	1	11	0	3	2	9	5	0
Rentlachintala	0830	106	1004·8	992·9	..	28·7	24·8	22·9	27·9	72	+2	6·9	−0·1	14·0	0	0	28	0	0	2	2	0	0	24	0	3	0
	1730	"	1000·8	989·1	..	33·2	25·4	21·7	25·9	52	..	6·3	..	4·9	0	0	29	0	0	4	2	0	0	23	0	2	0
Gannavaram	0230	24	1003·3	1000·6	..	26·4	25·4	25·0	31·7	92	..	6·1	..	4·8	0	1	16	0	0	1	1	2	4	7	2	14	0
	0530	"	1003·5	1000·8	..	26·1	25·2	24·8	31·3	93	..	6·9	..	5·2	0	1	18	1	0	2	1	0	6	8	1	12	0
	0830	"	1004·8	1002·1	..	27·7	25·7	24·9	31·5	85	..	7·1	..	8·9	0	2	27	0	0	3	2	2	8	10	4	2	0
	1130	"	1004·5	1001·8	..	30·4	26·1	24·3	30·4	70	..	7·0	..	13 5	0	5	25	0	0	1	4	1	6	14	4	1	0
	1730	"	1001·5	999·2	..	30·9	26·2	24·2	28·4	69	..	6·8	..	9·9	0	0	26	1	0	0	4	1	5	8	7	5	0
	2330	"	1004·5	1001·8	..	27·1	25·7	25·1	31·9	89	..	5·7	..	9·1	0	2	22	0	0	1	5	4	5	8	1	7	0
Masulipatam	0830	3	1004·7	1004·4	+0·6	28·4	26·1	25·1	31.9	83	+5	6·7	+0·5	5·8	0	0	31	3	0	0	0	12	1	15	0	0	0
	1730	"	1001·9	1001·6	..	30·3	27·7	25·2	32·1	75	..	5·9	..	6·6	0	0	31	6	0	0	0	16	1	8	0	0	0
Nidadavolu	0830	12	1004·6	1003·2	..	27·2	25·7	25·0	31·7	88	..	7·6	..	11·0	0	3	27	1	3	2	1	0	9	14	0	1	0
	1730	"	1001·6	1000·1	..	29·9	26·1	24·5	30·7	74	..	7·0	..	12·6	0	3	26	0	0	0	4	3	9	10	3	2	0
Kakinada	0830	8	1004·5	1003·6	+1·3	28·7	26·2	25·1	31·9	81	+3	6·7	+0·5	10·7	0	0	30	0	0	0	0	0	29	1	0	1	0
	7 30	"	1001·5	1000·6	..	30·0	26·3	24·6	30·9	74	..	6·1	..	10·8	0	0	31	0	0	0	2	0	27	0	2	0	0
Visakhapatnam	0230	3	1002·3	1001·9	..	27·0	25·4	24·8	31·3	88	..	5·8	..	7·5	0	4	18	0	0	0	0	1	20	0	0	9	1
	0530	"	1002·4	1002·0	..	26·5	25·1	24·4	30·5	89	..	6·6	..	5·7	0	5	9	0	0	0	0	0	9	3	0	17	2
	0830	"	1003·5	1003·1	+1·4	28·7	25·5	24·2	30·2	77	−8	6·7	−0·1	11·6	0	7	22	0	0	0	0	1	24	4	0	2	0
	1130	"	1003·2	1002·8	..	31·0	26·1	24·0	29·8	68	..	6·7	..	17·6	0	14	15	0	0	1	1	4	21	2	0	2	0
	1730	"	1001·0	1000·6	..	29·9	25·9	24·2	30·2	72	..	6·7	..	15·0	0	8	22	0	0	1	1	8	18	2	0	1	0
	2330	"	"	1002·8	..	27·6	25·5	24·6	30·9	84	..	5.6	..	7·3	0	4	18	0	0	0	0	0	17	3	1	9	1
Calingapatam	0830	6	1003·6	1003·0	+2.2	28·2	27·4	27·1	35·9	94	+14	6·1	+0.7	14·1	0	4	27	0	0	0	3	4	15	6	0	0	3
	1730	"	1001·2	1000·5	..	28·7	28·0	27·7	37.1	94	..	6·3	..	15·4	0	6	23	1	1	0	0	14	11	1	1	2	0
Telangana																											
Ramagundam	0830	156	1003·5	985·9	..	27·2	24·4	23·1	28·3	79	..	7·6	..	6·7	0	1	25	1	0	0	5	5	3	7	5	5	0
	1730	"	1000·1	982·9	..	31·1	25·6	23·1	28·3	64	..	7·1	..	4·8	0	1	23	1	3	2	3	2	6	5	2	7	0
Nizamabad	0830	381	1003·9	961·7	+0·6	26·4	23·1	21·5	25·6	75	−2	5·9	+0·6	2·2	0	0	16	0	0	0	2	0	9	5	0	15	0
	1730	"	999·9	958·5	..	30·4	24.7	22·1	26·6	63	..	7·0	..	2·1	0	0	16	0	0	1	4	0	7	4	0	15	0
Mahbubnagar	0830	505	1005·2	949.4	..	24·9	22·4	21·2	25·2	80	..	7·3	..	11·3	0	0	31	0	0	2	1	1	13	6	8	0	0
	1730	"	1001·0	946·2	..	29·2	23·5	21·0	24·9	63	..	7·3	..	5·5	0	0	26	1	1	3	1	1	7	9	3	5	0
Hyderabad (Begumpet Aerodrome)	0230	545	1003·1	943·2	..	24·1	21·9	20·9	24·7	83	..	6·4	..	12·7	0	6	21	0	0	0	4	1	3	18	1	4	0
	0530	"	1003·4	943·4	..	23.4	21·6	20·8	24·6	86	..	7·0	..	12·5	0	5	23	0	0	0	4	1	3	20	0	3	0
	0830	"	1004·6	944·7	+0·8	25·0	22·2	20·9	24·7	78	−3	7·1	+0·7	18·9	0	13	17	0	0	0	4	0	3	19	4	1	0
	1130	"	1003·8	944·5	..	27·9	23·0	20 7	24·4	61	..	7·1	..	20·8	0	11	15	0	0	0	3	2	0	18	7	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—*Contd.*																											
Hyderabad (Begumpet Aerodrome *Contd.*	1730	545	1000·5	941·6	..	28·8	22·9	20·1	24·3	62	..	6·9	..	15·1	0	8	21	3	0	1	3	0	10	7	5	2	0
	2330	"	1004·1	944·2	..	25·4	22·4	21·1	25·0	78	..	6·6	..	12·3	0	2	25	0	0	1	4	1	5	14	2	4	0
Hakimpet	0530	613	1003·5	936·0	..	22·8	21.7	21·2	25·2	91	..	6.9	..	16·2	0	11	20	0	0	1	5	0	5	19	1	0	0
	0830	"	1004·1	936·9	..	24·3	22·4	21·5	25·6	84	..	6·8	..	19·4	0	16	15	0	0	1	4	0	5	20	1	0	0
	1130	"	1003·4	936·9	..	27·1	23·4	21·8	26·1	73	..	6·9	..	20·5	0	15	16	1	0	1	3	1	4	19	2	0	0
	1730	"	1001·1	934·8	..	28.1	23·6	21·6	25·8	69	..	6·9	..	15·1	0	8	22	2	0	0	4	0	5	13	6	1	0
Hanamkonda	0830	269	1004·0	974·0	+0·4	27·1	24·1	22·7	27·6	78	+4	5·7	−0·5	5·4	0	0	31	0	0	0	2	12	1	14	2	0	0
	1730	"	1000·7	971·3	..	30·6	24·9	22·4	27·1	63	..	6·0	..	4·3	0	0	31	2	0	0	4	3	1	15	6	0	0
Bhadrachallam	0830	111	1004·3	991·9	..	27·3	25·2	24.3	30·4	84	..	7·3	..	7·1	0	0	27	0	0	6	3	1	13	2	2	4	0
	1730	"	1000·6	988·3	..	30·6	25·8	23·7	29 3	69	..	7·2	..	6·6	0	0	30	2	5	2	4	1	10	2	4	1	0
Khammameth	0830	112	1004 3	991.8	..	27·3	25·1	24·1	30·0	83	..	7·5	..	6·3	0	0	26	1	0	1	2	3	10	9	0	5	0
	1730	"	1000·5	988.1	..	31·3	26·1	23·8	29·5	66	..	7·5	..	6·4	0	0	28	0	1	3	3	3	2	14	2	3	0
Rayalaseema																											
Arogyavaram	0830	701	1006·1	929·6	..	24·6	21·0	19·2	22·2	72	..	6·2	..	7·9	0	0	26	1	0	0	0	1	6	9	9	5	0
	1730	"	1001·9	926·7	..	28·6	21·9	18·5	21·3	56	..	6·5	..	8·6	0	2	26	1	2	1	3	1	3	10	7	3	0
Cuddapah	0830	130	1006·3	991·7	+0·2	29·4	24·1	21·5	25·6	63	−2	5·7	−0·5	1·5	0	0	5	0	0	0	0	0	0	4	1	26	0
	1730	"	1001·6	987·3	..	33·4	25·2	21·2	25·2	50	..	5·7	..	5·7	0	0	17	0	0	6	0	0	0	8	3	14	0
Anantapur	0530	350	1004·9	965.9	..	24·6	21·7	20·1	23·5	77	..	6·1	..	12·6	0	6	19	0	0	2	1	1	0	21	0	6	0
	0830	"	1006·0	967·2	..	26·7	22·4	20·1	23·5	68	..	6·7	−2·9	16·4	0	7	23	0	0	1	3	1	4	20	1	1	0
	1130	"	1004·9	966·6	..	30·2	23.0	19·2	22·2	52	..	6·5	..	19 0	0	12	18	0	0	2	1	0	4	20	3	1	0
	1730	"	1001·3	963·3	..	31·9	23·1	18·1	20·8	44	..	6·5	..	21·9	0	18	11	2	1	0	2	0	4	17	3	2	0
	2330	"	1005 4	966·7	..	27·3	22·4	19·7	22·9	74	..	5·5	..	20·5	0	16	12	0	1	2	0	1	3	21	0	3	0
Kurnool	0830	281	1005·8	974·5	+0.5	27·2	24·5	23·2	28·4	79	+7	6·2	−0·1	7·3	0	0	29	0	0	3	1	0	1	20	4	2	0
	1730	"	1000·9	970·3	..	31·6	25·4	22·5	27·3	60	..	6·5	..	11·6	0	3	26	3	1	4	0	0	0	15	6	2	0
Madras State																											
Palayamcottai	0830	51	1007·4	1001·7	..	29·0	23·9	21·4	25·5	64	..	6·2	..	10·5	0	5	26	5	0	1	0	0	3	17	5	0	0
	1730	"	1005·0	999·3	..	30·0	24·3	21·4	25·5	59	..	7·1	..	12·5	0	5	26	3	0	0	2	2	3	19	2	0	0
Tuticorin	0830	4	1007·6	1007·2	..	29·1	24·3	22·0	26·4	66	..	5·7	..	16·9	0	10	21	4	2	1	0	0	7	15	2	0	0
	1730	"	1004·9	1004·5	..	30·6	25·0	22·2	26·7	63	..	5·4	..	22·3	0	15	16	0	0	1	4	9	3	14	0	0	0
Pamban	0830	11	1007·0	1005·7	−0·7	28·1	25·9	25·1	31·9	84	+9	4·7	+1·7	7·4	0	0	30	3	0	3	2	1	20	1	0	1	0
	1730	"	1004·6	1003·3	..	28·9	26·0	24·8	31·3	79	..	5·1	..	8·0	0	1	28	1	0	0	0	16	11	1	0	2	0
Tondi	0830	5	1007·3	1006·7	..	28·0	24·6	23·0	28·1	75	..	6·6	..	3·2	0	0	14	3	0	1	0	3	4	2	1	17	0
	1730	"	1004·1	1003·5	..	30·2	26·1	24·2	30·2	72	..	6·5	..	20·2	0	15	15	0	0	1	11	11	3	2	2	1	0
Mathurai	0830	133	1007·0	992·1	−0.4	27·4	23·6	21·6	25·8	71	+14	7·3	+1·8	4·0	0	0	30	0	2	0	0	0	9	0	19	1	0
	1730	"	1003·7	989·0	..	30.9	24·0	20·6	24·3	56	..	7·4	..	8·6	0	0	28	0	3	0	4	1	15	1	4	3	0
Mathurai (Aerodrome)	0530	131	1005·8	991.0	..	25·5	22·6	21·1	25·0	78	..	5·9	..	10·5	0	4	23	9	0	0	1	0	2	13	2	4	0
	0830	"	1007·0	992·3	..	26·2	23·7	21·4	25·5	68	..	5·7	..	13·7	0	4	27	5	3	0	2	0	6	9	6	0	0
	1130	"	1006·5	991·9	..	31·3	24·5	21·1	25·0	56	..	6·0	..	16·5	0	7	22	5	1	2	1	0	3	16	1	2	0
	1730	"	1003·9	989·3	..	30·6	24·0	20·6	24·3	57	..	6·5	..	23·9	0	17	13	0	1	1	4	5	0	17	2	1	0
Adirampattiriam	0830	"	..	..	..	28.5	24·8	23·0	28·1	73	..	4·7	..	9·4	0	1	29	3	0	0	0	0	15	0	12	1	0
	1730	"	..	..	..	30·2	25·9	24·2	30·2	70	..	5·1	..	19·8	0	15	16	0	2	1	2	18	5	1	2	0	0
Nagapattinam	0830	9	1007·1	1006.0	0	28·2	24·5	22·7	27·6	72	+7	6·2	+1·6	9·7	0	0	31	0	1	0	1	2	9	15	3	0	0
	1730	"	1003·9	1002·8	..	30·3	25·9	23·9	29·7	70	..	5·6	..	17·6	0	2	29	0	1	5	4	8	10	2	1	0	0
Tiruchirapalli	0230	88	1005·5	995·6	..	26·0	23·1	21·7	25·9	78	..	5·2	..	19·1	0	11	18	1	0	0	0	0	1	25	2	2	0
	0530	"	1005·6	995·6	..	25·5	22·8	21·3	25·3	79	..	5·5	..	19·5	0	11	18	0	0	0	1	0	1	22	5	2	0
	0830	"	1006·8	996·9	−0·6	27·4	23.5	21.5	25·6	71	+12	5·9	+0.9	21·5	0	12	19	0	0	0	0	0	1	27	3	0	0
	1130	"	1006·2	996·4	..	30.8	24·3	21·2	25·2	58	..	5·9	..	26·7	0	17	14	0	1	0	0	0	3	22	5	0	0
	1730	"	1003·3	993·6	..	30·9	23·9	20·4	24·0	55	..	6·5	..	23·2	0	13	16	2	0	0	1	1	3	18	4	2	0
	2330	"	1006·9	996·9	..	26·6	23·3	21·5	25·6	75	..	5·6	..	20·5	0	11	16	2	1	1	1	1	3	18	0	4	0
Coimbatore	0830	409	1007·9	962·3	0	24·5	22·1	20·9	24·2	80	0	7·2	+2.3	19·7	0	12	19	0	1	1	0	13	15	1	0	0	0
	1730	"	1004·4	959·5	..	26·8	23·0	21·0	24·9	71	..	7·1	..	19·7	0	13	18	0	0	1	1	9	14	6	0	0	0
Coimbatore (Peelamedu Aerodrome)	0530	400	1006·5	961·8	..	22·4	21·6	21·1	25·0	92	..	6·7	..	17·3	0	13	17	0	0	0	1	5	20	3	0	1	1
	0830	"	1007·6	963·1	..	24·2	22·4	21·5	25·6	85	..	6·2	..	20·5	0	15	15	1	1	0	1	4	22	1	0	1	0
	1130	"	1006·9	962·9	..	27·5	23·2	21·0	24·9	68	..	6·3	..	28.9	0	21	10	0	0	0	1	3	21	0	0	0	2
	1730	"	1004·4	960·4	..	26·9	22·7	20·6	24·3	69	..	6·7	..	31·3	0	25	6	0	1	0	1	5	19	5	0	0	0
	2330	"	1007·7	963·1	..	23·3	21·9	21·1	25·0	88	..	6.3	..	31·9	0	26	5	0	0	0	0	12	18	1	0	0	0
Salem	0530	278	1006·1	974·8	..	23·8	22·4	21·6	25·8	88	..	7·1	..	1·5	0	0	14	0	0	0	0	4	8	2	0	17	0
	0830	"	1007·0	975·9	−0·5	25·6	23·1	21·9	26·3	80	+3	6·1	+1.1	3·1	0	0	28	1	0	2	0	7	12	6	0	8	0
	1130	"	1006·1	975·4	..	29·6	24·0	21·3	25 3	62	..	7·0	..	5·2	0	0	30	2	1	0	0	5	9	1	1	1	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1960 (ASHADHA 10—SRAVANA 9, 1882 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(*Contd.*) Salem—*Contd.*	1730	278	1003·3	972·6	..	29·8	23·9	21·0	24·9	61	..	7·5	..	5·1	0	1	21	0	1	2	0	2	5	12	0	9	0
	2330	"	1007·0	975·9	.	25·4	22·9	21·7	25·9	81	..	6·3	..	4·6	0	0	22	0	0	0	1	13	6	2	0	9	0
Kallakurichi	0830	127	1006·2	992·0	..	27·8	24·8	23·5	29·1	77	..	4·7	..	7·0	0	2	19	1	1	0	1	4	11	0	3	10	0
	1730	"	1002·5	988·6	..	31·5	25·6	22·5	27·3	60	..	5·5	..	9·7	0	1	29	0	1	2	4	7	11	3	2	1	0
Cuddalore	0530	12	1004·9	1003.6	..	26·3	24·6	23·8	29·5	87	..	6·7	..	2·0	0	0	12	0	0	0	0	1	11	0	0	19	0
	0830	"	1006·3	1005·0	−0·3	28·5	25·4	24·0	29·8	77	+8	6·7	+1·6	2·6	0	0	20	1	0	0	0	1	15	2	1	11	0
	1130	"	1005·8	1004·5	..	32·0	26·3	23·8	29·5	63	..	6.3	..	3·8	0	0	24	0	1	0	5	3	11	2	2	7	0
	1730	"	1002·9	1001·6	..	31·2	25·7	24·7	31·1	70	..	6·9	..	6·0	0	0	29	1	0	3	13	3	4	5	0	2	0
	2330	"	1006 1	1004·8	..	28·0	25·4	24·3	30·4	81	..	6·3	..	3·1	0	0	14	0	1	0	2	3	5	2	1	17	0
Tirupattur	0830	390	1006·8	963·3	..	25·6	22·8	21·3	25·3	78	..	6·4	..	3·2	0	0	17	8	1	0	0	4	1	3	0	14	0
	1730	"	1002·7	960·1	..	30·0	23·8	20·8	24·7	60	..	6·8	..	9·7	0	1	28	4	2	1	0	10	1	11	0	2	0
Vellore	0530	214	1005·4	981·3	..	25·1	23·1	22·0	26·4	84	..	6·2	..	2·5	0	0	20	0	0	1	0	0	0	19	0	11	0
	0830	"	1006·3	982·3	+0.2	27·1	23·7	22·0	26·4	74	+7	6·3	+1·5	2·9	0	0	20	0	1	1	0	0	2	16	0	11	0
	1130	"	1005·4	981·7	..	30·7	24·9	22·2	26·7	61	..	6·6	..	3·6	0	0	28	0	1	1	0	0	2	24	0	3	0
	1730	"	1002·2	978·6	..	31·3	24·8	21·6	25·8	58	..	6·4	..	0·0	0	0	23	1	1	2	0	0	5	13	1	8	0
	2330	"	1006·4	882·4	..	27·0	24·1	22·6	27·4	78	..	5·7	..	4·8	0	0	22	0	0	0	1	0	1	20	0	9	0
Tambaram (Aerodrome)	0830	29	1005·7	1002·5	..	28·8	25·2	23·2	28·4	73	..	6·0	..	10·8	0	2	28	1	0	1	0	1	11	13	3	1	0
	1730	"	1002·5	999·3	..	32·1	26·3	23·8	29·5	63	..	6·5	..	21·2	0	15	16	0	0	5	6	9	4	6	1	0	0
Madras	0230	16	1004·7	1002·9	..	27·6	24·5	23·1	28·3	77	..	4·8	..	8·3	0	3	22	0	0	1	1	6	12	4	1	6	0
	0530	"	1004·9	1003 1	..	26·9	24·3	22·9	27·9	80	..	5·6	..	7·4	0	1	22	0	1	0	0	4	9	8	1	8	0
	0830	"	1006·1	1004·4	+0·3	28·9	24·7	22·7	27·6	70	+8	5·5	−0·2	11.8	0	5	24	0	1	0	0	5	9	14	0	2	0
	1130	"	1005·4	1003·7	..	32.6	25·0	21·4	25·5	53	..	5·4	..	18·6	0	11	19	0	1	0	1	2	8	12	6	1	0
	1730	"	1002·8	1001·1	..	31·9	25·6	22·6	27·4	59	..	6·5	..	18·2	0	11	20	0	1	7	10	4	8	1	0	0	0
	2330	"	1005·8	1004·1	..	28·4	25·1	23·6	29·1	76	..	5·0	..	9·8	0	2	28	0	0	2	4	10	9	4	1	1	0
Madras (Nungambakkam).	0830	6	1006·2	1005·5	..	28·8	24·8	23·0	28·1	72	..	5·3	..	7·3	0	0	27	0	0	1	0	1	16	8	1	4	0
Coastal Mysore																											
Karwar	0830	4	1006·9	1006·4	−0·5	26·6	25·1	24·5	30·7	88	..	7·3	..	10·1	0	4	20	0	1	4	1	2	0	7	6	7	3
	1730	"	1005·6	1005·1	..	27·5	25·5	24·6	30·9	85	..	7·2	..	16·2	0	9	19	1	0	0	0	0	2	10	12	3	3
Honavar	0830	26	1007·3	1004.4	−0·9	25·5	24·5	24·0	29·8	92	+1	7·6	+0·6	4·7	0	0	26	0	0	10	1	2	6	6	1	5	0
	1730	"	1005·6	1002·7	..	27·1	25·1	24·3	30·4	85	..	7·4	..	16·8	0	1	30	0	0	0	0	4	4	15	8	0	0
Mangalore	0830	22	1008·0	1005.5	−0·4	26·1	24·7	24·1	30·0	89	−1	7·5	+0·5	9·4	0	0	31	0	5	6	3	0	9	5	1	0	2
	1730	"	1006·0	1003.5	..	27·0	25·1	24·3	30·4	85	..	7·5	..	9·0	0	0	31	5	1	1	0	1	3	10	8	0	2
Mangalroe (Bajpe Aerodrome)	0230	102	1006·6	995·2	..	24·4	23·9	23·6	29·1	95	..	7·2	..	5·4	0	1	16	0	1	3	2	0	3	8	0	14	0
	0530	"	1006·5	994·9	..	24·0	23·4	23·2	28·4	95	..	7·3	..	9·0	0	0	27	0	0	5	7	1	1	10	3	4	0
	0830	"	1007·9	996·4	..	25·2	24·2	23·8	29·5	92	..	7·0	..	5·4	0	0	26	0	2	7	6	0	1	8	2	5	0
	1130	"	1008·0	996·6	..	26·8	24·9	24·0	29.8	85	..	7·2	..	9·3	0	0	31	2	1	0	2	3	6	11	5	0	1
	1730	"	1006·0	994·5	..	26·3	24·6	23·8	29·5	86	..	7·6	..	10·3	0	1	29	2	0	0	1	1	2	16	8	1	0
	2330	"	1008·2	996·6	..	24·6	24·0	23·7	29·3	94	..	7·0	..	8·3	0	2	25	1	0	3	2	1	2	10	8	4	0
Interior Mysore (North)																											
Bidar	0830	664	1004·4	931·6	..	23·5	21·6	20·7	24·4	84	+2	6·9	+1·3	27·2	0	22	9	0	0	0	3	0	24	1	3	0	0
	1730	"	1000·1	928·6	..	27·8	22·1	19·3	22·4	62	..	6·9	..	23·4	0	16	15	0	3	0	3	1	15	4	5	0	0
Gulbarga	0830	458	1005·0	954·6	+0·6	25·9	22·8	21·3	25·3	76	−3	7·0	+1·2	21·3	0	13	18	0	0	1	3	1	15	9	2	0	0
	1730	"	1000·4	950·8	..	30·4	23·0	19·3	22·4	56	..	7·7	..	38·5	1	27	3	0	0	2	1	4	6	16	2	0	0
Bijapur	0830	594	1005·3	939·9	+2·0	28·9	22·1	21·2	25·2	86	+9	7·2	+1·1	8·9	0	0	29	1	0	0	1	1	11	14	1	2	0
	1730	"	1001·0	936·7	..	29·1	23·0	20·0	23·4	61	..	7·0	..	7·2	0	0	30	0	0	2	0	2	8	17	1	1	0
Belgaum	0830	753	1006.1	923·6	−0 1	22·1	21·1	20·6	24·3	92	+4	7·0	−0·4	8·3	0	0	31	0	1	1	0	1	4	22	2	0	0
	1730	"	1003·8	921·9	..	23·7	21·6	20·6	24·3	84	..	7·5	..	13·4	0	0	31	0	1	0	0	1	2	20	7	0	0
Belgaum (Sambra Aerodrome)	0530	747	1005·4	923·1	..	20·8	20·2	19·9	23·2	95	..	7·2	..	14·0	0	11	13	0	0	0	0	1	1	22	0	7	0
	0830	"	1006·3	924·4	..	22·3	21·1	20·5	24·1	89	..	7·3	..	15·9	0	7	20	0	0	1	0	3	1	22	0	4	0
	1130	"	1005·8	924·5	..	24·8	21·9	20·4	24·0	77	..	6·8	..	19·0	0	13	15	0	0	2	0	3	0	20	3	3	0
	1730	"	1004·1	922·7	..	23·7	21·6	20·6	24·3	83	..	6.8	..	19·8	0	14	17	1	0	0	1	1	1	27	0	0	0
Gadag	0530	650	1005·5	933·7	..	21·6	21·0	20·7	24·4	94	..	6·5	..	14·5	0	3	28	0	2	0	1	0	8	20	0	0	0
	0830	"	1006·3	934·9	+0·2	23·7	21·8	20·9	24·7	84	+1	7.5	+1·1	11·9	0	1	27	0	0	1	0	0	5	22	0	3	0
	1130	"	1005·3	934·8	..	27·4	22·8	20·6	24·3	67	..	6·6	..	15·9	0	0	30	0	1	1	0	1	15	1	10	1	0
	1730	"	1012·6	932·3	..	27·1	22·9	20·5	24·1	69	..	7·3	..	11·3	0	9	22	0	0	2	2	0	5	19	3	0	0
	2330	"	1006·7	935·0	..	22·5	21·5	21·0	24·9	91	..	6·3	..	15·7	0	3	28	0	0	0	0	1	11	19	0	0	0
Raichur	0830	400	1005·7	961·8	+0·8	26·1	23·1	21·6	25·8	76	+2	5·8	+1·0	13·1	0	0	30	0	3	0	3	2	13	0	9	1	0
	1730	"	1002.6	959·2	..	31·5	24 1	20·2	23·7	54	..	6·0	..	12·6	0	9	21	0	4	0	4	0	6	0	16	1	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1960 (ASADHA 10,—SRAVANA 9, 1882 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)—contd.																											
Bellary	0830	449	1005·7	956·0	−0·1	26·3	24·0	23·0	28·1	82	+17	7·0	+1·1	8·8	0	0	31	0	0	0	1	0	6	2	22	0	0
	1730	"	1001·1	952·5	..	31·1	25·4	23·8	29·5	65	..	6·6	..	10·0	0	0	31	0	0	0	3	0	4	2	22	0	0
Chitaldrug	0830	733	1006·6	926·2	+0·1	22·5	20·8	20·0	23·4	86	+5	6·4	−0·7	9·8	0	0	30	0	0	1	1	1	7	20	0	1	0
	1730	"	1002·7	923·6	..	26·4	21·7	19·3	22·4	68	..	6·4	..	8·4	0	0	28	0	0	0	3	1	7	17	0	3	0
Shimoga	0830	571	1007·0	943·8	..	23·2	22·1	21·5	25·6	90	..	7·5	..	5·2	0	0	28	1	1	1	0	3	16	6	0	3	0
	1730	"	1004·0	941·6	..	25·8	23·7	22·8	27·7	84	..	7·5	..	9.5	0	1	28	2	0	0	1	2	15	7	2	2	0
Balehonnur	0830	..	..	..	..	20·2	19·7	19·4	22·5	95	+1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1480·1	903·0	..	20·8	19·9	19·5	22·7	92	+7	7·1	+0·1	11·3	0	1	30	0	1	3	2	0	5	20	0	0	0
	1730	"	1466·6	901·1	..	23·1	20·5	19·2	22·2	80	..	9·2	..	13·8	0	4	26	0	0	0	3	0	4	23	0	1	0
Mysore	0830	767	1007·8	923·7	−0·2	22·4	20·6	19·6	22·8	83	+3	6·5	−0·1	6·2	0	1	27	0	1	2	1	0	6	15	0	3	0
	1730	..	1004·6	921·5	..	25·5	21·0	18·6	21·4	67	..	6·5	..	7·2	0	1	22	0	1	1	2	0	8	11	0	8	0
Bangalore (Central Observatory).	0230	921	1467·6	905·9	..	20·6	19·6	19·1	22·1	91	..	6·3	..	14·1	0	5	26	0	0	1	2	0	5	22	1	0	0
	0830	"	1480·3	907·1	0	21·2	20·0	19·3	22·4	89	+4	7·4	+0·3	14·2	0	3	29	0	1	1	1	0	8	15	5	0	0
	1130	"	1485·4	906·9	..	24·9	21·0	19·0	22·0	70	..	7·0	..	18·1	0	12	19	1	2	0	2	0	4	17	5	0	0
	1730	"	1464·7	904·9	..	25·5	20·9	18·5	21·3	67	..	7·4	..	17·4	0	8	23	1	2	1	1	0	7	14	5	0	0
Bangalore (Aerodrome)	0530	897	1465·3	908·3	..	20·4	19·7	19·3	22·4	93	..	6·8	..	15·7	0	11	17	0	1	0	0	1	12	14	0	3	0
	0830	"	1479·8	909·5	..	21·7	20·2	19·3	22·4	86	..	7·3	..	19·3	0	16	13	0	0	2	0	0	8	16	3	2	0
	1130	"	1485·2	909·3	..	25·5	21·4	19·3	22·4	70	..	6·9	..	23·8	0	19	11	0	0	2	2	0	6	18	2	1	0
	1730	"	1464·1	907·0	..	25·9	21·3	18.9	21·8	67	..	7·2	..	22·4	0	18	11	1	0	2	2	0	9	14	1	2	0
	2330	"	1481·2	909·6	..	21·9	20·3	19·4	22·6	86	..	6·1	..	16·1	0	10	18	0	0	1	1	1	8	16	1	3	0
Kerala																											
Kozhikode	0530	5	1007·6	1007·0	..	24·4	23·8	23·5	28·9	95	..	6·6	..	9·5	0	5	21	2	6	6	1	1	1	5	4	5	0
	0830	"	1009·0	1008·4	−0·5	25·4	24·3	23·8	29·5	91	−1	6·7	−0·4	6·0	0	2	24	3	1	5	1	1	1	5	9	5	0
	1130	"	1009·1	1008·5	..	27·1	25·2	24·3	30·4	85	..	6·7	..	8·8	0	2	28	0	2	0	0	2	5	12	9	1	0
	1730	"	1006·9	1006·3	..	26·6	25·0	24·3	30·4	87	..	7·5	..	12·2	0	3	27	2	0	0	0	1	3	8	16	1	0
	2330	"	1009·3	1008·7	..	25·2	24·3	23.9	29·7	93	..	6·6	..	9·1	0	3	25	3	4	4	1	0	1	5	10	3	0
Palghat	0830	97	1008·8	997·7	..	24·6	23·6	23·1	28·3	92	..	7·2	..	8·8	0	0	30	0	0	1	1	0	6	19	3	1	0
	1730	"	1006·1	995·1	..	26·2	24·3	23·4	28·8	85	..	7·3	..	12·5	0	1	30	1	0	0	0	0	8	20	2	0	0
Port Cochin	0830	3	1008·3	1008·9	−0·9	26·0	24·6	24·0	29·8	90	+3	7·5	+0·9	5·5	0	1	21	5	5	3	1	0	1	3	4	9	0
	1730	"	1006·9	1006·6	..	26·4	24·8	24·1	30·0	87	..	7·5	..	8·2	0	0	29	2	0	1	2	0	3	9	12	2	0
Cochin (Naval Air Station).	0230	3	1007·3	1008·0	..	24·9	24·1	23·8	29·5	94	..	7·2	..	5·5	0	1	21	4	1	4	0	2	3	4	4	9	0
	0530	"	1008·1	1000·8	..	24·5	23·6	23·6	29·1	95	..	7·2	..	5·2	0	1	25	3	5	6	4	1	2	4	1	5	0
	0830	"	1009·3	1009·0	..	25·4	24·2	23·6	29·1	90	..	7·0	..	5·6	0	2	18	3	4	2	3	1	1	3	3	11	0
	1130	"	1009·5	1009·2	..	27·7	25·0	23·9	29·7	80	..	7·0	..	10·8	0	1	28	5	0	1	0	0	4	7	12	2	0
	1730	"	1007·3	1007·0	..	26·9	24·7	23·8	29·5	83	..	7·5	..	15·2	0	6	24	4	0	0	0	2	5	7	12	1	0
	2330	"	1009·8	1009·5	..	25·2	24·3	23·9	29·7	92	..	7·5	..	7·0	0	5	17	1	1	1	2	0	2	7	5	9	0
Alleppey	0830	4	1008·9	1008·5	..	25·7	24·8	24·4	30·5	93	..	7·0	..	7·2	0	2	27	4	2	4	2	0	0	5	12	2	0
	1730	"	1006·7	1006·3	..	26·9	25·2	24·4	30·5	86	..	7·2	..	12·4	0	8	23	7	0	1	0	0	1	7	15	0	0
Punalur	0830	34	1008·9	1005·0	..	24·8	23·9	23·5	28·9	92	..	6·4	..	0·4	0	0	3	1	0	0	0	0	0	0	2	28	0
	1730	"	1006·7	1002·9	..	27·7	24·8	23·4	28·8	78	..	6·6	..	5·8	0	0	29	5	0	0	0	1	2	7	14	2	0
Trivandrum	0230	64	1007·9	1000·6	..	24·1	23·5	23·2	28·4	95	..	5·2	..	9·7	0	3	24	8	0	0	0	1	1	2	15	4	0
	0530	"	1008·0	1000·6	..	23·7	23·1	22·8	27·7	94	..	7·4	..	8·6	0	0	30	8	1	0	0	0	2	0	19	1	0
	0830	"	1009·2	1001·9	..	25·2	23·9	23·2	28·4	89	+2	6·5	−0·3	6·8	0	0	27	9	0	1	0	0	1	1	15	4	0
	1130	"	1009·0	1001·8	..	28·0	24·7	23·2	28·4	76	..	6·5	..	15·4	0	7	24	5	1	0	0	0	2	4	19	0	0
	1730	"	1007·1	999·8	..	26·6	24·4	23·4	28·8	83	..	6·8	..	13·3	0	5	25	1	0	0	0	0	0	5	24	1	0
	2330	"	1009·5	1002·3	..	24·3	23·6	23·2	28·4	94	..	7·0	..	10·6	0	2	28	8	0	2	0	0	0	3	17	1	0
Trivandrum (Aerodrome)	0830	8	1009·0	1008·1	..	26·1	24·3	23·4	28·8	86	..	6·7	..	9·9	0	1	30	16	0	0	0	0	1	3	11	0	0
Arabian Sea Islands																											
Minicoy*	0530	2																									
	0830	"																									
	1130	"																									
	1730	"																									
	2330	"																									
Amini divi*	0830	4																									
Hill Stations excluding Kashmir																											
Walong (R)																											
Kohima	0830	1406	1495·8	859·0	..	21·1	19·8	19·5	22·2	90	..	7·7	..	..	0	0	28	6	2	1	2	0	2	3	12	0	0
	1730	"	1464·0	855·5	..	22·3	20·7	20·1	23·2	90	..	7·2	..	..	0	0	31	3	7	0	0	1	0	1	19	0	0

(R) Register not received. *Data given as addenda in "December, 1960 issue".

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure millibars: At station level	Mean pressure millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Kms. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—(*Contd.*)																												
Ajjal	0830	..	..	..	..	21·4	21·2	19·6	24·7	92	..	8·0	.	5·2	0	0	31	0	0	5	2	8	7	9	0	0	0
	1730	..	..	..	..	21·8	20·9	20·5	24·2	90	..	8·0	..	6·0	0	0	31	1	0	1	1	9	3	16	0	0	0
Shillong	0830	1500	1457·2	846·2	+1.8	21·5	19·3	18·1	20·6	82	+1	8·0	+1·3	0·6	0	0	4	0	0	0	0	0	4	0	0	27	0
	1730	„	1430·4	840 2	..	21·3	19·2	18·1	21·4	82	..	8·0	..	0.8	0	0	5	0	0	0	0	1	4	0	0	26	0
Cherrapunji*	0830	1313	1448·0	863·5	+0·4	19·2	18·9	18·7	21·6	94	+4	7 9	..	12·0	0	0	15	3	0	6	3	0	3	0	2	2	0
	1730	„	1439·0	862·6	..	19·2	18·8	18·6	21·4	96	..	7·6	..	13·7	0	0	16	0	1	0	5	0	8	0	1	1	0
Darjeeling (Raj Bhawan)	0830	2128	1470·5	787·9	+3·0	17. 5	16·9	16·4	18·9	94	+5	7·6	+0·5	0 9	0	0	5	1	2	0	1	0	1	0	0	26	0
	1730	„	1452·3	786·3	..	17·5	17·0	16 6	19·0	95	..	8·3	..	1·1	0	0	6	1	0	0	3	0	0	2	0	25	0
Kalimpong	0830	1209	1452·8	874 4	+1·5	21·8	20·7	20·3	23·6	90	−1	3·9	−2·7	3·7	0	0	28	1	0	1	6	0	0	2	18	3	0
	1730	„	1445·0	873·6	..	22·2	21·2	20·9	24·3	91	..	3·8	..	3·6	0	0	30	0	0	1	27	2	0	0	0	1	0
Mukteshwar (Kumaon)	0830	2311	3099·2	768·8	+0·6	16·7	16·0	15·6	17·7	94	+4	6·9	+0·3	9·8	0	3	26	0	4	7	3	1	1	7	6	2	0
	1730	„	3085·8	767·3	..	18·1	17·3	16·8	19·1	92	..	6·4	..	11·9	0	4	26	0	1	4	2	0	6	11	6	1	0
Nainital	0830	1953	1426·7	800·0	..	19·0	17·2	16·1	18·3	86	..	6·9	..	9·3	0	1	28	1	1	10	11	0	0	3	3	2	0
	1730	„	1401·8	797·9	..	19·5	18·1	17 4	19·9	85	..	7·0	..	8·9	0	2	28	6	1	8	6	3	0	4	2	1	0
Joshimath	0830	..	..	..	..	19·4	18·5	17·9	20·7	92	..	7·1	..	7.2	0	0	30	5	6	8	1	0	0	5	5	1	0
	1730	..	..	..	..	22·4	19·3	17·7	20·2	76	..	7·4	..	6·0	0	0	27	2	0	2	1	1	5	9	6	4	1
Badrinath	0830	..	..	..	..	13·7	9·9	5·7	9·1	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpal	0830	..	..	..	..	6·3	5·9	5·2	8·8	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooree	0830	2042	1424·2	791·8	−0·8	18·5	17·6	17·1	19·5	92	−1	7·0	0	1·6	0	0	12	2	1	0	1	4	2	0	2	19	0
	1730	„	1408·9	790·3	..	18.9	18·5	18·2	21·3	96	..	7·8	..	2·1	0	0	21	1	0	0	7	9	3	0	1	10	0
Simla	0830	2202	1433·3	777·8	..	17·7	16·5	15·9	18·3	89	−9	6·7	+0.4	2·8	0	0	29	5	2	1	7	6	6	1	1	2	0
	1730	„	1417·2	776·7	..	19·3	18·0	17·3	19·8	89	..	6·8	..	2·9	0	0	30	3	3	1	7	7	3	2	4	1	0
Dalhousie	0830	1959	1424.0	799.1	..	18·9	17·8	17·2	19·6	89	..	2·5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	„	1407.4	797.9	..	20·9	19·4	18·1	21·7	85	..	2·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Dharamshala	0830	..	..	..	..	23·5	21·4	20.4	24·0	84	..	6·5	..	2·7	0	0	27	2	10	6	1	3	3	0	2	4	0
	1730	..	..	..	..	25·4	22·9	21·8	26·1	80	..	6·5	..	2·8	0	0	29	5	2	0	3	2	12	4	1	2	0
Abu	0830	1195	1436·7	874·1	+0·9	21·1	20·0	19·6	22·8	92	+1	6·4	−0·7	3·3	0	0	14	0	0	0	1	6	5	2	0	17	0
	1730	„	1423·8	872·7	..	23.2	21·3	20·4	24·0	86	..	6·4	..	7·2	0	1	20	1	1	0	0	6	12	1	0	10	0
Pachmarhi	0830	1075	1448 2	887·5	+1·3	22·1	21·0	20·4	24·2	91	+3	6·9	−0·3	5·0	0	0	29	0	0	0	0	0	1	19	9	2	0
	1730	„	1429·5	885·4	..	24·3	22·0	21·0	24·8	84	..	7·3	..	3·8	0	0	25	0	0	0	0	0	1	21	3	6	0
Mahabaleshwar	0830	1382	1464·1	858·4	+0·1	18.4	18·2	18·1	20.8	98	+1	7·9	−0·1	10·4	0	0	31	0	0	1	2	2	13	11	2	0	0
	1730	„	1450·3	857·0	..	19·0	18·8	18.7	21.6	98	..	8·0	..	10·0	0	0	31	1	0	0	1	1	21	4	3	0	0
Mercara	0830	1152	1483·2	883·6	+0·1	19·0	18·5	18·2	20·9	59	0	6·6	−1·0	8·2	0	2	29	0	0	1	0	0	0	14	14	0	2
	1730	„	1468 6	882·0	..	19·9	19·1	18·7	21·6	93	..	7·1	..	7·3	0	2	29	0	0	0	0	0	1	19	10	0	1
Kodaikanal	0830	2343	3129·5	769·3	+0·4	13·8	12·7	11·9	13·[illegible]	88	+11	6·4	+0·6	17·1	0	9	18	5	2	0	1	0	2	8	9	4	0
	1130	„	3137 5	769·6	..	15·7	14·2	13·3	15·3	86	..	7·0	..	14·0	1	6	21	2	3	1	3	1	0	8	10	3	0
	1730	„	3115·5	767·9	..	14·1	13·2	12·7	14·7	92	..	7·1	..	16·1	0	9	16	3	3	1	1	0	0	5	12	6	0
Ootacamund	0830	2249	1485·3	777·5	+0·1	13·5	12·8	12·5	14·5	93	+4	5·6	−1·5	4 9	0	0	12	0	0	0	0	0	6	6	0	19	0
	1730	„	1467·6	776·3	..	14·9	13·6	12·6	14·6	87	..	7·5	..	3·6	0	0	11	0	0	0	0	1	8	2	0	20	0
Coonoor	0830	1747	1484·7	824·9	..	18·2	16·1	14·9	19·9	81	+12	7·1	+0·7	6·2	0	0	31	4	0	1	2	5	11	4	4	0	0
Nepal																												
Katmandu	0830	1324	1438·7	861·4	..	23·2	21·0	20·0	23·4	83	..	6·7	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	„	1435·1	861·0	..	25·9	22·0	20·1	23·5	71	..	6·7	..	0·4	0	0	4	1	0	1	1	0	1	0	0	27	0
	1730	„	1414·8	859·1	..	23·6	21·6	20·7	24·4	84	..	7·6	..	0·7	0	0	7	0	0	0	0	0	4	2	1	24	0
Sikkim																												
Lachen	0830	..	..	..	..	16·4	14·7	13·3	15·7	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet																												
Yatung (Chumbi) (R)	0830																											
Ceylon																												
Colombo	0830	7	1009·4	1008·6	−0·6	26·7	24·0	22·7	27·6	79	−5	6·4	+0·2	8·5	0	1	26	0	2	0	2	1	9	11	2	4	0
	1730	„	1007·4	1006·5	..	26·9	23·8	22·3	26·9	77	..	6·9	..	11·5	0	0	31	0	1	0	0	1	17	12	0	0	0
Trincomalee	0830	3	1007·3	1007·0	+0·2	27·3	23·6	22·1	26·6	74	−2	6·0	+1·9	16·4	0	13	16	0	0	0	0	5	20	3	1	2	0
	1730	„	1005·0	1004·7	..	30·1	24·8	22·5	27·3	66	..	6·5	..	16·7	0	7	23	5	2	1	2	3	15	0	2	1	0
Batticola	0830	3	1007·8	1007·5	..	27·6	24·6	23·3	28·6	73	..	5·5	..	7·6	0	0	23	1	0	3	2	4	3	8	2	8	0
	1730	„	1005·5	1005·2	..	29·5	25·4	23·5	28·9	71	..	5·8	..	14·6	0	3	28	1	5	11	5	0	1	6	2	0	0

* Observation for 17 days . (R) Register not received

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Ceylon—*Contd.*																											
Hambantota	0830	15	1008·5	1006·8	−0·2	26·6	24.2	23·2	28·4	82	−3	5·7	+1.7	18·9	0	17	14	0	0	0	1	0	16	13	1	0	0
	1730	"	1006·4	1004·6	..	27·8	24·0	22·2	26·7	73	..	6·3	..	22·1	0	22	9	1	0	0	0	0	14	15	1	0	0
Mannar	0830	4	1007·9	1007·4	..	27·5	25·6	24·7	31·1	86	..	6·4	..	10·1	0	2	28	0	1	0	2	9	16	0	2	1	0
	1730	"	1005·3	1004·9	..	28·2	25·6	24·6	30·9	81	.	6·6	..	11·9	0	2	27	2	0	0	0	6	19	1	1	2	0
Hydrometeorological Observatories																											
Damodar Catchment																											
Bokaro	0830	242	1000·0	973·0	..	27·4	25·4	24·5	31·3	84	..	7·0	..	4·7	0	0	31	0	2	11	3	0	7	7	0	0	0
	1730	"	997·6	970·0	..	28·3	25·8	25·0	30·9	81	..	6·6	..	4·4	0	0	30	0	1	11	3	2	3	6	0	1	0
Hazaribagh	0830	615	1000·2	933·2	..	25·5	23·8	23·1	28·3	87	..	7·2	..	7·2	0	1	26	0	0	7	2	1	5	10	0	4	0
	1730	"	997·2	930·6	..	26·3	24·1	23·1	28·4	84	..	7·0	..	8·2	0	0	24	0	0	6	3	2	7	5	1	7	0
Tilaiya	0830	..	..	..	..	26·3	24·4	23·7	29·1	87	..	8·0	..	12·8	0	3	27	1	0	10	4	1	1	8	5	1	0
	1730	..	..	..	..	28·6	25·2	23·7	29·5	75	..	8·0	..	12·4	0	3	28	3	0	10	4	1	1	8	4	0	0
Ramgarh	0830	..	..	..	..	27·1	25·2	24·5	30·6	86	..	6·0	..	1·4	0	0	12	1	3	5	0	0	2	1	0	19	0
	1730	..	..	..	..	27·8	25·6	24·7	30·9	83	..	6·5	..	2·1	0	0	22	1	6	3	2	1	6	3	0	9	0
Panchet Hills	0830	..	..	..	..	28·2	26·0	25·0	32·0	81	..	8·0	..	12·1	0	1	30	0	2	14	0	1	14	0	0	0	0
	1730	..	..	..	..	28·6	26·1	25·1	31·8	81	..	8·0	..	7·5	0	0	30	1	4	8	2	5	8	2	0	1	0
Durgapur	0830	..	..	..	..	27·9	26·1	25·5	33·4	86	..	..	..	..	0	1	30	0	0	0	7	16	3	4	1	0	0
	1730	..	..	..	..	28·5	26·5	25·7	32.5	85	..	..	..	..	0	1	30	0	0	0	7	16	4	2	2	0	0
Mathon*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Konar	0830	..	..	..	..	..	..	..	..	..	..	..	..	100·0	0	3	28	0	1	14	2	1	5	8	0	0	0
	1730	..	..	..	..	..	..	..	..	..	..	..	..	7·6	0	0	31	0	1	14	3	2	6	4	1	0	0
Mahanadi Catchment																											
Hirakud	0830	159	1001·7	984·0	..	26·9	25·2	24·5	30·7	87	..	7·5	..	8·2	0	0	30	2	0	2	2	8	13	3	0	1	0
	1730	"	998·8	981·2	..	28·1	25·8	24·8	31·3	83	..	7·5	..	8·3	0	1	27	2	1	1	1	5	10	5	3	3	0
Khijrawan	0830	..	..	..	..	25·9	24·1	23·3	28·4	86	..	(b) 5·5	..	9·0	0	1	29	0	0	1	1	2	17	6	1	1	2
	1730	..	..	..	..	26·9	24·3	23·1	28·3	80	..	(d) 6·0	..	(c) 10·0	0	1	27	2	1	1	0	3	11	5	4	0	1
Sonepur	0830	..	..	..	..	27·7	25·4	24·3	30·6	76	..	..	..	7·6	0	0	28	3	2	1	2	1	9	9	1	3	0
Ginabahar	0830	..	..	..	..	25·6	24·1	23·1	27·7	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..
Bhimkund	0830	..	..	..	..	26.4	24·6	23·7	29·4	85	..	7·3	..	1·2	0	0	6	0	2	0	1	0	2	1	25	25	0
	1730	..	..	..	..	26·4	24·9	23·7	30·2	82	..	7·2	..	3·0	0	0	19	0	0	0	4	4	9	2	0	12	0
Narbada Catchment																											
Punasa	0830	..	..	..	..	27·2	24·5	23·3	28·4	80	..	..	..	10·0	0	1	28	0	0	0	1	2	16	8	2	2	0
	1730	..	..	..	..	29·8	25·4	23·4	29·0	71	..	..	..	8·0	0	1	27	0	0	0	1	2	15	8	2	3	0
Bagra Tawa	0830	..	..	..	..	26·6	24·2	23·1	28·3	82	..	5·9	..	10·0	0	0	31	0	0	0	0	5	23	3	0	0	0
	1730	..	..	..	..	28·6	25·0	23·3	28·8	75	..	6·5	..	8·5	0	0	28	0	2	0	1	4	18	3	0	3	0
Thikri	0830	..	..	..	..	27·4	25·5	24·8	31·0	86	..	5·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Jhadol	0830	..	..	..	..	24·5	23·5	23·0	28·1	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharoi	0830	..	..	..	..	27·4	25.6	24·8	31·3	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	31·3	26·1	23·7	29·3	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	..	..	..	(a) 19·6	(a) 18·5	(a) 17·7	(a) 20·6	(a) 89	..	6·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·0	19·3	18·5	21·3	87	..	5·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	26·5	23·9	22·7	27·9	80	..	6·0	..	0.9	0	0	7	4	1	0	0	0	2	0	0	24	0
	1130	..	..	..	..	30·3	24·6	22·3	26·8	62	..	6·1	..	3·3	0	0	23	2	0	5	2	5	4	1	2	8	0
	1730	..	..	..	..	31·1	24·7	22·0	26·5	61	..	6·4	..	4·2	0	0	22	0	2	1	6	13	2	0	0	9	0
Gandak Catchment																											
Gorkha (R) (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	24 5	22·8	22·1	26·6	87	..	7·0	..	2·8	0	0	26	4	1	1	8	3	4	1	4	5	0
	1130	..	..	..	..	27·2	23.7	22.2	26.7	75	..	6·2	..	4·5	0	0	25	0	0	3	17	4	1	0	0	6	0
Nawakot	1730	..	..	..	..	26·5	23·7	22·6	27·4	79	..	7·0	..	5·0	0	0	27	3	3	3	12	2	1	0	3	4	0
	0830	..	..	..	..	24·8	23·2	22·6	27·2	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom	1730	..	..	..	..	25·5	23·1	21·8	26·6	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	..	..	..	..	18·0	15·6	14·3	16·3	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·7	15·6	14·2	16·0	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	25·1	23·1	22·4	26·9	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·2	23·9	23·1	28·1	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	20·1	19·0	18·4	21·1	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21.8	19·5	18 3	21.1	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(b) Mean of 29 days. (c) Mean of 28 days. (a) Mean of 30 days. *Data not available. (d) Mean of 27 days. (R) Regester not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories— *Contd.*																											
Gogra Catchment (Trans-Himalayan Region)																											
Dailekh (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment																											
Dandeldhura	0830	..	..	..	..	19·4	18·7	18·3	21·0	93	..	6·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·4	19·6	19·2	22·2	94	..	7·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Munsiyari	0830	..	..	..	..	17·9	17·1	16·8	19·0	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·6	17·4	16·9	19·2	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	28·6	26·2	25·3	32·1	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	29·5	27·0	26·2	33·6	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu†	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment																											
Chautara	0830	..	..	..	..	21·1	20·5	20·4	23·8	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·8	21·1	20·6	24·0	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	19·3	18·0	17·1	19·3	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·6	18·3	17·9	20·4	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga	0830	..	..	..	..	20·0	19·3	18·9	21·8	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	21·8	20·4	19·6	22·8	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·2	19·5	19·0	22·0	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahkshetra	0830	146	1001·6	985·3	..	26·9	25·5	25·0	31·5	90	..	7·5	..	4·1	0	0	24	0	2	0	0	0	11	8	3	7	0
	1130	..	1001·3	985·0	..	28·5	26·3	25·3	32·4	83	..	7·5	..	6·1	0	0	27	0	1	1	0	0	13	11	1	4	0
	1730	..	998·5	982·3	..	28·2	26·4	25·6	32·8	86	..	7·2	..	4·7	0	0	26	0	3	0	0	0	13	7	3	5	0
Angbung	0830	..	..	..	..	22·8	21·7	21·1	25·0	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·5	21·9	20·7	24·4	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Taplejung	0830	..	..	..	..	20·1	19·2	18·5	21·7	92	..	7·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	22·7	20·7	19·9	23·2	85	..	6·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·4	19·5	18·6	21·4	84	..	7·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	21·6	20·5	19·9	23·2	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·2	20·7	19·9	23·2	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	14·1	12·8	12·1	14·1	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·0	12·4	11·9	14·1	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	21·1	19·9	19·4	22·6	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·3	19·6	19·3	22·4	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	22·7	21·8	21·6	25·5	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·4	22·1	21·2	25·5	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment																											
Gangtok	0830	1812	1445·7	814·9	..	18·8	18·5	18·3	21·1	97	..	7·7	..	0·6	0	0	5	2	0	0	0	0	2	1	0	26	0
	1130	..	1442·7	814·8	..	20·0	19·3	18·9	22·0	94	..	7·6	..	0·9	0	0	9	0	0	0	1	2	5	1	0	22	0
	1730	..	1424·4	813·1	..	19·1	18·5	18·2	20·9	95	..	7·9	..	0·6	0	0	5	0	0	0	0	4	1	0	0	26	0
Geyzing	0830	..	..	..	..	20·8	20·1	19·9	23·1	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·1	20·1	19·7	22·9	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received.

† Data included under "Nepal".

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 42 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons and the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the Table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9·0 km. a. m. s. l. are given under Table IV and data above 9.0 km. a. m. s. l. under Table V.

In Tables IV and V :

n—represents the number of observations ;

V—represents the mean wind speed in metres per second* irrespective of direction ;

v—represents the resultant mean velocity in metres per second* ;

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a. g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a. m. s. l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a. m. s. l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

*Values obtained by converting the original data in knots.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flights (I.S.T.)			
1. Agartala	23°53′	91°15′	17	28th November, 1951	0530	1730	2330	
2. Ahmedabad	23°04′	72°38′	61	19th May, 1928	0530	1730	2330	
3. Amausi	26°45′	80°53′	133	20th November, 1950	0530	1730	2330	
4. Ambala	30°23′	76°46′	279	1st April, 1941	0530	1730	2330	
5. Anantapur	14°41′	77°37′	365	12th February, 1946	0530	1730	2330	
6. Asansol	23°41′	86°59′	135	29th May, 1942	0530	1730	2330	
7. Baghdogra	26°38′	88°19′	140	7th June, 1953	0530	1730	2330	
8. Bairagarh	23°17′	77°21′	532	26th February, 1943	0530	1730	2330	
9. Bajpe	12°55′	74°53′	104	25th May, 1959	0530	1730	2330	
10. Bamrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
11. Bangalore	12°58′	77°35′	936	19th May, 1915	0530	1730	2330	
12. Bareilly	28°22′	79°24′	181	12th January, 1943	0530	1730		
13. Begumpet	17°27′	78°28′	543	1st September, 1929	0530	1730	2330	
14. Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1730		
15. Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530	1730	2330	
16. Bhuj	23°15′	69°48′	90	14th September, 1937	0530	1730	2330	
17. Bikaner	28°00′	73°18′	229	18th October, 1946	0530	1730	2330	
18. Chikalthana	19°51′	75°24′	583	7th October, 1951	0530	1730	2330	
19. Cochin†	09°56′	76°14′	13	16th March, 1942	0530	1730	2330	
20. Darjeeling	27°03′	88°16′	2115	21st May, 1956	0830	1730		
21. Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530	1730		
22. Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
23. Gadag	15°25′	75°38′	650	3rd May, 1943	0530	1730	2330	
24. Gannavaram	16°32′	80°48′	32	8th April, 1942	0530	1730	2330	
25. Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
26. Gaya	24°45′	84°57′	119	19th March, 1937	0530	1730	2330	
27. Gopalpur	19°16′	84°53′	24	15th February, 1946	0530	1730	2330	
28. Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530	1730		
29. Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1730	2330	
30. Imphal	24°51′	93°58′	805	8th March, 1952	0530	1730	2330	
31. Jabalpur	23°10′	79°57′	402	30th July, 1928	0530	1730	2330	
32. Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530	1730	2330	
33. Jaipur	26°49′	75°48′	403	6th June, 1953	0530	1730	2330	
34. Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1730		
35. Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530	1730	2330	
36. Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
37. Madras	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38. Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1730	2330	
39. Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1730	2330	
40. Nagpur	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41. Nanpara	27°50′	81°30′	142	23rd April, 1957	0530	1730		
42. New Delhi	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
43. Poona	18°32′	73°51′	593	5th January, 1925	0530	1730	2330	
44. Port Blair	11°40′	92°43′	93	29th October, 1945	0530*	1130	1730*	2330
45. Raipur	21°14′	81°39′	308	15th July, 1944	0530	1730	2330	
46. Raxaul	26°59′	84°51′	83	28th October 1957	0530	1730		
47. Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
48. Tezpur	26°37′	92°47′	79	12th August, 1932	0530	1730	2330	
49. Tiruchirapalli	10°46′	78°43′	96	22nd June, 1936	0530	1730	2330	
50. Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
51. Udaipur	24°35′	73°42′	587	24th June, 1947	0530	1730	2330	
52. Vengurla	15°52′	73°38′	8	22nd November, 1941	0530	1730	2330	
53. Veraval	20°54′	70°22′	17	13th October, 1941	0530*	1130	1730*	2330
54. Visakhapatnam	17°43′	83°14′	10	24th September, 1928	0530	1130	1730*	2330

*Radiowind ascents.

†Naval Meteorological office.

5—1 D. D. G. Obs.P/65

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

July, 1960 (Asadha 10— Sravana 9, 1882 Saka)

Station	AGARTALA												AHMEDABAD											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·7	2·4	150	31	3·0	2·8	168	31	3·1	2·8	159	31	3·3	2·4	231	31	4·1	2·5	228	31	4·1	3·2	213
0·15 a. g.	23	6·9	6·4	151	25	6·3	5·9	168	28	7·6	7·4	168	30	6·1	4·4	230	30	5·3	4·2	228	31	7·6	6·3	221
0·3 a.m.s.l.	23	9·1	8·3	171	25	7·2	6·8	179	28	9·1	8·7	185	30	7·7	5·8	235	30	5·7	4·4	229	31	9·0	7·8	224
0·6 ,,	23	10·3	9·4	178	25	9·3	8·6	189	28	11·0	10·4	195	28	9·5	8·1	245	30	6·3	4·9	236	27	9·4	8·6	234
0·9 ,,	21	10·2	8·6	189	25	9·6	8·9	193	23	11·0	10·2	197	19	7·9	6·5	252	28	6·4	5·3	249	27	7·9	7·3	241
1·5 ,,	17	9·0	6·7	192	21	9·9	8·2	192	18	9·3	7·5	193	14	6·3	5·6	224	18	5·6	4·5	255	20	5·1	3·8	239
2·1 ,,	14	9·2	6·1	189	17	5·7	5·9	195	14	8·1	6·9	186	8	5·6	3·8	200	12	5·0	3·0	246	11	3.3	1·4	153
3·0 ,,	8	6·2	4·6	160	15	8·0	4·8	196	5	5·6	5·2	166	4	4·2	2·9	120	6	4·0	1·7	090	6	3·3	2·3	128
3·6 ,,	5	5·7	4·8	110	13	6·9	3·0	182	2	4·6	4·4	157					6	5·0	4·1	100				
4·5 ,,	5	6·5	5·7	111	7	7·3	3·8	138									4	6·2	3·7	123				
5.4 ,,	5	7·5	7·4	114	6	8·5	3·5	141									4	6.2	4·9	107				
6·0 ,,	5	8·7	8·4	109	4	10·3	9.8	106									3	6·8	6·7	108				
7·2 ,,	2	8·0	7·8	105																				
9·0 ,,	2	12.6	12.6	099																				

Station	AMAUSI												AMBALA											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·2	0·9	157	31	3·9	0·5	247	31	2·7	0·5	183	31	2·4	1·7	129	31	2·2	0·9	150	31	2·2	1·4	130
0·15 a. g.	21	6·3	1·7	151	26	5·3	0·7	290	26	6·0	1·4	163	29	6·9	5·0	117	29	5·3	1·7	159	30	7·1	4·4	124
0·3 a.m.s.l.	21	6·6	1·5	172	26	5·4	0·5	320	26	6·3	1·4	146	29	3·6	2·4	122	29	3·2	1·3	152	30	3·2	2·1	120
0·6 ,,	20	7 7	0·5	178	26	5 9	1·3	291	25	7·1	1·0	188	29	7·7	5·2	137	29	6·0	2·0	155	30	7·2	3·9	141
0·9 ,,	19	7·4	1·1	294	25	6·5	2·0	302	25	6·8	1·1	240	28	7·0	3·5	152	29	6·5	1·7	167	30	6·7	2·8	161
1·5 ,,	17	7·4	2·1	308	23	7·4	2·7	299	22	6·4	1·9	275	25	6·3	1·5	203	27	6·7	1·1	240	27	6·3	1·9	248
2·1 ,,	15	7·8	2·5	318	17	6·4	2·6	300	13	7·8	1·1	330	25	6·3	1·4	286	24	7·3	1.7	298	25	7·2	2·5	285
3·0 ,,	9	7·6	2·0	061	10	6·3	2·4	325	4	7·6	0·9	313	18	7·1	2·8	300	18	7·8	5·7	318	19	6·9	2.6	307
3·6 ,,	4	5·1	2·0	073	6	6·3	1·4	085	1	6·2	6·2	150	12	5·9	2·6	316	14	9·0	6·9	330	8	4·6	2·7	317
4·5 ,,	3	4.3	1·5	110	3	5·3	1·8	018					9	7·1	2·2	326	10	9·6	6·4	343	2	7.5	7.4	334
5·4 ,,	3	3.8	3·4	099	2	3·1	2·8	039					4	7·6	5·8	317	7	6·1	3·0	348				
6·0 ,,	2	6·2	5.7	118	1	3·6	3·6	140					3	8·0	6·5	318	6	6·8	4·6	354				
7·2 ,,													1	13·9	13·9	320	4	6·9	4·0	328				
9·0 ,,													1	13·9	13·9	290	1	8·7	8·7	345				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Station	ANANTAPUR												ASANSOL											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·5	3·8	263	31	6·6	5·3	272	31	6·0	4·4	267	31	2·0	0·8	176	31	1·9	0.7	177	31	1·9	1·0	162
0·15 a.g.	30	7·1	6·0	254	31	9·4	7·6	263	31	8·4	6·7	255	28	6·1	2·9	196	29	5.6	2·4	194	26	7·1	4·1	191
0·3 a.m.s.l.													28	6·4	3·3	214	29	5·7	2.4	191	26	7·3	4·3	201
0·6 ,,	30	7·9	6·8	252	31	9·5	7·8	260	31	8·7	6·9	255	26	7·8	3·0	249	29	7·4	2·2	193	26	9·1	5·3	214
0·9 ,,	30	10·4	9·0	262	31	10·2	8·3	261	31	10·4	8·3	259	22	7·9	3·3	282	29	7·7	1·7	194	25	8·6	4·8	220
1·5 ,,	30	11·4	9·9	269	31	10·6	8·4	266	31	10·9	8·5	268	19	6·5	1·2	285	24	7·8	2·3	200	20	8·6	3·5	241
2·1 ,,	30	10·5	8·3	270	31	10·5	7·6	269	31	10·0	7·5	271	14	6·5	1·4	299	20	7·4	2.4	182	15	7·5	2·6	249
3·0 ,,	26	9·3	6·8	269	24	10·3	6·8	274	23	7·1	3·9	266	8	7·2	1·3	174	13	6·2	1·8	168	10	7·1	1·0	155
3·6 ,,	16	6·8	3·5	235	13	7·6	2·2	204	20	7·4	4·0	256	4	6·3	3·5	250	7	6·1	5·4	140	4	6·9	3·8	122
4·5 ,,	13	6·5	3·0	233	12	6·5	2·6	166	10	7·1	2·6	266	1	2·1	2·1	155	4	4·6	2·9	110	1	7·7	7·7	120
5·4 ,,	10	5·5	1·6	170	8	7·2	6·2	119	3	5·1	2·7	112	1	4·1	4·1	095	2	4·1	3·6	074	1	8·2	8·2	120
6·0 ,,	8	6·2	2·7	160	7	5·6	4·4	115					1	6·2	6·2	110	1	6.7	6.7	090	1	8.7	8.7	120
7·2 ,,	3	7·2	6·1	102	4	8·5	8·1	104																
9·0 ,,	1	6·7	6·7	080	2	13·4	13·1	096																

Station	BAGHDOGRA												BAIRAGARH											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·1	1·4	073	31	2·4	1·7	086	31	2·3	1·6	065	31	3·8	3·3	259	31	4·2	3·4	250	31	3·7	3·2	242
0·15 a.g.	15	4·2	4·0	066	28	3·6	2·5	087	16	5·5	4·4	076	29	7·7	6·9	258	29	6·7	5·0	243	30	8·1	7·3	248
0·3 a.m.s.l.	15	4·2	3·9	077	28	3·6	2·5	093	16	5·5	4·5	083												
0·6 ,,	13	4·5	4·1	092	26	4·3	2·9	108	14	5·7	4·4	098	29	7·0	6·4	252	29	6·1	4·5	241	30	7·2	6·2	241
0·9 ,,	12	4·8	4·5	086	23	4·8	3·2	101	12	6·1	4·3	108	25	7·5	8·4	272	29	7·2	5.8	259	30	9·2	8·4	262
1·5 ,,	9	4·0	4·0	080	18	5·0	2·9	114	10	6·7	2·7	098	20	8·0	5·8	275	29	7·5	6·1	276	27	7·2	5·5	272
2·1 ,,	7	4·4	4·2	087	15	5·0	3·4	114	8	5·5	1·4	113	18	5·8	2·6	268	27	8·7	6·5	282	21	5·5	2·7	279
3·0 ,,	5	5·8	4·5	107	7	4·7	4·5	111	6	5·1	3·7	128	14	5·5	1·3	288	14	9·5	4·3	308	16	6·0	2·3	334
3·6 ,,	4	6·0	6·0	107	5	4·7	4·3	117	2	4·6	4·3	154	10	4·6	0·9	274	10	6·7	3·3	325	4	4·8	2·9	317
4·5 ,,	3	5·5	5·3	107	2	7·2	5·0	109	1	4·6	4·6	175	7	5·6	2·2	317	6	7·1	4·7	352	2	4·4	3·4	307
5·4 ,,	2	5·7	5·3	096					1	2·6	2·6	100	3	5·7	5·6	032	3	6.0	4.2	352				
6·0 ,,	2	8.5	8.4	091					1	2·6	2·6	110	3	7·9	7·8	027								
7·2 ,,	2	6·4	6.4	120					1	3.6	3.6	070	3	7·7	7·3	058								
9·0 ,,													2	9·3	9·3	074								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Station	BAJPE												BAMRAULI											
Time in I. S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·6	0·8	262	31	3·8	3·0	288	31	2·7	1·5	275	31	2·2	0·7	210	31	3·0	1·2	252	31	2·6	1·0	280
0·15 a. g. . .	26	6·3	4·3	278	28	6·7	5·6	275	24	5·7	4·6	285	30	7·1	2·7	228	27	5·6	2·3	275	30	6·0	3·2	277
0·3 a.m.s.l. .	26	6·8	5.3	277	28	7.3	6.1	273	24	6.3	5.3	284	30	7·1	2·7	228	26	5·6	1·7	270	30	6·0	3·2	277
0·6 „ .	25	9·2	8·2	279	26	8·4	7·4	276	24	8·4	7·5	285	30	8·3	4·1	266	26	5.8	2·0	287	30	6·8	3·8	287
0·9 „ .	19	8·2	7·4	286	21	9·4	8·7	282	22	9·4	8·6	285	30	8·2	3·3	265	22	7·2	2·3	298	30	6·4	3·3	291
1·5 „ .	11	8·0	7·5	284	12	7·0	5·8	285	13	8·1	8·0	294	30	8·1	4·4	295	16	9·3	4·5	288	30	7·1	3·4	292
2·1 „ .	6	4·6	4·3	292	5	2·9	1·0	253	10	5·1	4·9	289	30	7·6	3·9	298	11	9·3	7·6	287	30	8·0	4·1	284
3·0 „ .	5	4·0	0·7	247	3	4·3	3·2	113	8	4·1	2·8	280	29	7·2	3·4	324	8	7·3	5·3	296	30	7·5	3·2	305
3·6 „ .	3	6·1	2·3	042	3	5·1	3·7	097	4	2.6	1·4	270	29	6·3	2·5	325	5	8.5	6·2	285	30	7·3	2·3	312
4·5 „ .	2	3·1	2·8	090	1	0·5	0·5	130	2	3.1	1·6	250	29	5·5	0·9	357	1	6·7	6·7	120	30	6·7	2·6	338
5·4 „ .									1	2·6	2·6	360	29	5·7	1·0	075	1	4·1	4·1	095	29	5.7	0·9	033
6·0 „ .													28	6·1	2.8	093	1	4·1	4·1	100	29	6·1	2·2	058
7·2 „ .													28	6·8	4·5	091	1	5·7	5·7	095	29	6·2	3·3	080
9·0 „ .													23	7·7	6·5	083	1	11·8	11·8	115	24	6·8	5·5	087

Station	BAMRAULI				BANGALORE												BAREILLY							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·6	0·4	160	31	4·4	3·7	267	31	6·0	4·0	258	31	4·8	3·5	261	31	2·1	1·5	081	31	2·0	0·4	114
0·15 a. g. . .	24	5·8	0·9	165	11	5·7	4·9	261	30	9·3	7·2	253	17	6·2	4·3	241	27	5·7	2·8	117	28	5·0	0·6	122
0·3 a.m.s.l. .	24	6·1	0·8	170													27	5·4	2·5	106	28	4·7	0·6	116
0·6 „ .	24	7·8	0·7	100													24	7·4	2·3	136	26	6·7	0·9	210
0·9 „ .	23	7·6	0·1	210													23	7·4	1·5	118	27	6·5	1·0	158
1·5 „ .	18	6·8	1·1	270	8	7·3	5·1	279	30	9·1	6·6	263	17	8·6	6·5	259	20	7·7	0·8	343	23	7·5	0·8	310
2·1 „ .	11	6·5	1·1	310	8	5·9	2·7	281	28	10·2	7·4	270	16	7·0	4·8	266	15	7·3	2·9	328	22	7·2	2·7	297
3·0 „ .	7	6·5	2·2	330	6	4·8	3·7	282	15	8·0	4·8	275	14	5·6	2·6	252	12	7·9	3·7	332	15	8·1	3·9	318
3·6 „ .	2	3·1	0·9	100	5	3·3	0·9	342	11	6·0	0·9	212	13	5·0	1·9	189	9	5·4	1·7	011	13	7·3	2·8	324
4·5 „ .					5	3·7	1·1	083	6	4·3	1·9	142	10	5·1	2·3	163	6	4·5	2·4	143	6	4·5	0·7	356
5·4 „ .					3	4·6	2·8	101	4	3·6	1·0	188	6	6·1	3·1	115	4	3·1	1·1	182	6	4·8	1·4	282
6·0 „ .					2	6·4	4·5	101	4	3.3	1·3	176	4	3·2	1·0	092	2	4·4	3·2	166	5	6·6	1·4	264
7·2 „ .					1	1·5	1·5	275	4	4·6	3·7	138	2	6·2	6·1	125	2	7·2	6·0	160	4	6·7	6·2	201
9·0 „ .									2	8·7	8·3	118	1	14·4	14·4	115	1	5.7	5·7	095	2	8·5	8·4	118

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Station	BEGUMPET												BHAGALPUR								BHUBANESHWAR			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·0	3·2	251	31	4·5	3·2	251	31	3·9	2·8	250	31	1·6	1·0	112	31	2·3	1·0	123	31	3·6	2·4	232
0·15 a.g.	29	8·2	6·4	255	30	6·9	4·7	264	26	7·2	4·4	243	29	4·8	2·6	130	31	5·8	2·8	131	26	6·1	4·9	228
0·3 a.m.s.l.													29	5·6	2·8	140	31	6·4	3·2	131	26	8·1	6·5	235
0·6 ,,	30	5·3	4·0	252	30	5·7	3·5	265	26	4·8	2·6	244	29	6·7	2·1	161	31	7·2	3·8	139	25	8·3	6·6	241
0·9 ,,	28	10·8	8·2	265	30	8·2	6·3	260	26	9·4	6·3	258	29	6·9	1·4	163	31	7·2	3·1	153	24	8·4	6·9	255
1·5 ,,	24	10·6	7·8	272	29	9·9	8·0	267	26	10·8	8·0	265	25	6·7	0·5	186	28	7·7	2·2	161	23	8·4	6·9	276
2·1 ,,	22	7·6	5·5	262	25	9·8	7·2	273	23	8·5	6·7	268	20	6·9	0·9	209	21	6·5	2·3	163	17	8·2	6·8	267
3·0 ,,	20	5·0	2·4	230	19	7·9	5·5	270	18	5·5	4·1	266	18	7·5	1·7	217	15	6·7	1·2	139	12	8·7	6·5	262
3·6 ,,	16	4·8	1·7	208	11	6·3	3·7	234	10	3·9	2·3	215	14	7·2	1·9	205	12	6·0	1·7	151	8	7·4	4·4	268
4·5 ,,	14	4·6	2·0	200	7	8·3	4·4	230	1	5·1	5·1	130	11	6·0	2·1	163	6	5·5	4·6	102	4	4·9	1·1	134
5·4 ,,	12	4·5	0·1	244	2	5·1	4·9	164					9	5·6	3·7	139	3	4·1	0·8	029	3	6·8	4·8	099
6·0 ,,	11	4·7	0·8	097	2	4·1	3·5	148					7	5·1	4·4	120	2	4·1	0·8	003	3	6·8	6·1	124
7·2 ,,	5	4·6	2·4	060	1	7·7	7·7	115					4	7·2	5·6	119	1	5·1	5·1	020	1	7·2	7·2	120
9·0 ,,																								

Station	BHUBANESHWAR								BHUJ												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·6	3·0	213	31	3·5	2·7	224	31	3·3	2·0	235	31	6·1	4·8	230	31	4·2	3·5	226	31	2·6	2·3	127
0·15 a.g.	26	7·3	5·3	213	29	8·2	6·6	217	31	7·4	6·0	240	30	9·1	7·4	235	30	7·5	6·6	230	29	8·1	4·7	235
0·3 a.m.s.l.	26	8·4	5·5	214	29	9·0	6·9	223	31	8·1	6·5	240	30	9·4	7·8	236	30	7·9	6·9	232	29	5·4	4·7	231
0·6 ,,	25	8·8	5·7	227	28	9·5	7·1	233	31	9·4	8·0	242	30	9·6	7·7	240	30	9·4	8·2	239	28	10·8	9·8	251
0·9 ,,	21	7·2	5·1	252	26	9·4	6·4	248	29	8·9	7·2	242	30	9·5	7·6	240	29	8·6	7·8	236	28	10·1	8·7	250
1·5 ,,	18	8·8	6·7	269	22	8·8	7·4	265	18	6·9	3·7	217	21	7·7	5·2	239	27	7·2	4·1	227	25	5·9	3·8	245
2·1 ,,	14	6·8	5·1	275	15	8·3	7·5	261	10	6·8	2·4	138	14	6·2	2·8	210	20	5·7	2·0	166	24	4·5	0·6	167
3·0 ,,	10	6·7	4·0	292	9	7·4	4·9	271	7	7·6	7·1	080	9	5·6	2·9	088	18	5·3	1·7	105	22	3·9	1·9	027
3·6 ,,	7	5·8	3·7	311									6	5·3	2·3	142	12	3·9	3·2	097	16	4·6	2·9	013
4·5 ,,	4	5·1	3·4	279									4	5·9	3·9	113	5	4·8	4·3	072	4	5·8	3·1	348
5·4 ,,													3	2·6	2·6	174					2	4·1	2·9	292
6·0 ,,													2	4·4	3·9	175					1	3·6	3·6	320
7·2 ,,													2	5·7	5·6	105								
9·0 ,,																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 Km. above mean sea level

July, 1960 (Asadha 10— Sravana 9, 1882 Saka)

Station	BIKANER								CHIKALTHANA												COCHIN			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·5	1·6	226	31	2·6	2·3	197	31	3·6	3·3	265	31	7·2	5·0	265	31	3·8	3·3	266	31	1·2	0·2	084
0·15 a.g.	31	6·0	4·2	229	31	8·4	7·9	208	31	6·5	5·4	263	30	9·3	6·8	264	29	7·8	6·1	272	25	3·6	1·3	320
0·3 a.m.s.l.	31	5·1	3·6	221	31	6·0	5·5	205													25	5·1	3·1	306
0·6 ,,	31	7·1	5·3	226	31	10·2	9·1	217													25	9·0	7·7	299
0·9 ,,	31	6·9	5·2	230	30	9·9	8·1	225	31	8·1	7·0	264	30	9·1	6·9	268	29	9·0	7·0	272	25	10·3	9·2	297
1·5 ,,	29	6·2	4·0	241	28	7·6	4·9	237	29	10·1	8·2	258	30	8·9	7·4	274	29	10·4	8·4	269	21	11·1	10·1	295
2·1 ,,	24	4·9	1·7	275	26	5·3	1·4	245	28	8·5	6·5	257	25	8·5	6·4	262	26	9·5	6·6	260	10	10·2	9·1	302
3·0 ,,	19	5·7	3·9	344	18	4·3	1·8	020	21	4·2	2·1	253	16	6·8	3·8	240	22	6·1	3·9	260	3	5·3	2·7	349
3·6 ,,	17	6·4	4·8	006	8	6·0	3·4	027	12	4·0	0·8	193	8	5·0	3·4	243	13	4·4	1·9	296	1	2·1	2·1	095
4·5 ,,	11	7·2	6·6	031	2	6·4	6·3	307	1	3·6	3·6	210	3	2·7	1 3	145	2	2·6	2·0	137	1	7·7	7·7	095
5·4 ,,	8	6.3	5·3	019	1	5·1	5·1	360	1	3·1	3·1	215	2	3·9	3.9	184	1	3·1	3·1	050	1	8·2	8·2	105
6·0 ,,	8	6·5	4·4	356	1	3·1	3·1	010					1	3·6	3·6	110	1	3·6	3·6	035	1	9·8	9·8	110
7·2 ,,	6	7·5	6.2	354																				
9·0 ,,	4	3·9	2·5	083																				

Station	COCHIN								DARJEELING								DEHRADUN							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·1	2·5	262	31	2·4	1·0	304	31	0·1	0·1	045	31	0·1	0·1	270	31	0·3	0·1	020	31	1·0	0·2	025
0·15 a.g.	27	5·2	4·5	292	15	3·7	2·8	299	5	2·3	0·9	017	1	2·6	2·6	125	22	1·5	0·5	036	25	2·1	0·4	268
0·3 a.m.s.l.	27	7·0	6·0	291	15	5·4	4·4	298																
0·6 ,,	27	9·7	8·7	296	15	9·5	8·4	295																
0·9 ,,	26	10·8	9·8	296	15	11·2	10·2	296									22	1·5	0·3	138	24	2·2	0·5	273
1·5 ,,	24	11·0	10·3	301	13	12·9	12·2	298									19	3·0	0·6	260	23	3·2	1·9	257
2·1 ,,	19	10·5	8·6	297	10	11·3	9·7	300									14	4·1	1·1	306	17	3·9	3·2	280
3·0 ,,	9	5·6	3·1	325	4	6·4	6·0	334	5	2·3	1·6	067	1	2·6	2·6	075	8	8·0	5·0	322	8	4·3	1·2	251
3·6 ,,	6	5·3	2·0	331					3	2·4	1·5	082					6	7·5	5·9	328	6	3·9	0·1	010
4·5 ,,	1	7·2	7·2	280					2	3·3	3·1	135					3	10.8	8·2	343	5	6·1	1·9	070
5·4 ,,									2	4·1	4·1	107									2	4·6	4·5	117
6·0 ,,									2	4·4	4·4	108									1	3·1	3·1	115
7·2 ,,																								
9·0 ,,																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Station	DUM DUM																GADAG							
Time in I.S.T.	0530*				1130*				1730*				2330*				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·4	1·4	197	30	3·0	2·1	185	31	2·6	2·0	176	31	2·2	1·4	183	30	4·8	4·0	247	31	6.1	4.6	252
0·15 a.g.	29	6·5	4·1	195	30	6·3	4·1	196	28	7·0	5·7	180	28	6·3	4·8	191	27	8·5	6·9	242	31	9.9	7.9	245
0·3 a.m.s.l.	29	6·7	4·3	201	30	6·0	4·0	197	28	9·2	5·5	182	28	7·1	5·4	198								
0·6 ,,	28	7·3	4·8	211	30	6·0	4.0	199	28	7·7	5·9	185	28	8·3	5·9	206								
0 9 ,,	27	7·3	4·3	215	29	7.3	4·6	196	28	7·6	2·7	214	28	8·5	5·6	213	27	10·2	8·2	262	31	11.1	9.0	250
1·5 ,,	27	6·9	3·4	211	28	7·2	3·4	198	28	7·5	3.4	190	27	8·0	5·3	209	22	10·8	8·3	270	26	11.5	9.0	261
2·1 ,,	27	6·6	2·9	207	28	5·4	3·1	200	28	7·2	3·7	198	26	7·7	3·9	214	17	8·0	4·5	256	15	6·8	3.7	266
3·0 ,,	27	6·7	2·4	202	28	5·3	2·6	184	28	6·8	3·3	185	26	7·3	3·1	220	14	5·5	2·5	216	12	5.6	0.9	110
3·6 ,,	27	6·1	2·3	178	27	6·5	2·5	194	28	6·4	2·8	174	26	6·8	2·0	187	11	5.1	1·7	141	9	6.4	1.9	120
4·5 ,,	27	7·0	2·8	158	27	6·8	2.2	153	28	5·8	2·7	141	25	5·9	1·7	181	7	5·1	3·3	143	3	5·1	1·8	140
5·4 ,,	27	6.9	2.7	151	26	6·7	3·1	134	28	5·8	2·8	101	25	6·3	3·0	140	4	7·1	5·9	133	1	4·6	4·6	195
6·0 ,,	27	6·7	3·4	133	26	6·5	3·9	119	28	5·8	3·4	100	25	7·2	2·8	106	3	7·6	7.6	107	1	6·2	6·2	175
7·2 ,,	26	6·6	3·6	104	26	6·7	3·3	127	27	5·4	3·4	079	25	7.5	5·0	097	1	3·1	3·1	065				
9·0 ,,	19	7·5	6·3	085	23	7·5	6·6	102	20	8·6	7·9	087	20	8·7	6·8	074								

Station	GADAG				GANNAVARAM												GAUHATI							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·6	4·9	254	31	2·5	1·6	242	31	3·6	1·8	251	31	3·2	1·6	202	31	1·0	0·3	017	31	2·0	1·2	006
0·15 a.g.	31	9·8	9·2	253	27	6·1	4·5	238	29	5·5	3·2	249	27	5·8	3·2	196	31	2·6	0·5	355	28	2·6	1·5	020
0·3 a.m.s.l.					27	8·0	6·1	240	29	5·9	3·4	255	27	6·6	3·8	204	31	2·8	0·5	340	28	2·7	1·4	027
0·6 ,,					27	10·0	7·7	249	29	6·6	4·4	266	27	6·9	4·0	226	31	3·8	1·0	296	28	3·4	0·6	021
0·9 ,,	31	11·2	10·5	259	27	10·6	8·0	261	29	7·9	5·9	276	26	7·3	4·9	253	31	4·3	1·9	250	24	3·9	1·1	197
1·5 ,,	30	11·6	9·8	266	26	9·1	6·8	274	29	9·2	7·6	278	25	8·1	6·3	268	31	6·0	4·1	229	19	5·7	2·5	210
2·1 ,,	21	8·0	4·6	269	26	8·0	6·2	279	28	9·0	7·3	274	22	7·9	6·2	274	31	7·4	5·5	225	15	6·6	3·2	181
3·0 ,,	16	5·7	1·3	245	22	6·5	4·0	269	27	9·3	6·9	265	20	5·1	3·4	257	31	6·1	4·0	224	13	5·9	2·6	155
3·6 ,,	12	5.3	0·9	204	17	6·1	3·8	239	21	7.8	5·3	266	16	4·7	2·4	244	31	5·8	3·3	225	7	5·0	2·5	135
4·5 ,,	8	5·2	0·4	193	15	6·1	2·6	230	18	7·4	4·4	249	9	3·4	1·2	190	31	6·0	2·8	201	4	4·8	1·4	147
5·4 ,,	5	4·7	3·3	155	11	4·5	1·8	101	16	6·6	2·9	231	6	3·4	1·3	085	31	5·9	2·3	192	3	5·5	2·6	107
6·0 ,,	4	4·3	2·6	120	11	5·8	3·4	099	15	5·6	1·2	220	2	4·9	4·9	088	31	5·4	1·8	170	2	4·1	3·9	078
7·2 ,,	1	6·7	6·7	115	5	6·8	6·6	075	8	5·6	3·5	091	1	8·7	8·7	105	31	5·4	2·0	125				
9·0 ,,					2	11·3	10·9	085	6	11·1	10·9	092					27	6.5	3.2	072				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Station	GAUHATI								GAYA												GOPALPUR			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·3	0·7	310	3	0·9	0·9	315	30	2·3	1·0	164	31	3·6	1·0	157	31	3·2	1·1	145	31	3·7	3·6	214
0·15 a. g. .	31	4·6	1·2	320	3	3·2	1·9	025	25	6·2	2·7	170	25	5·0	1·1	147	28	6·1	2·9	175	27	7·3	6·8	216
0·3 a.m.s. l. .	31	3·2	1·3	320	3	3·2	1·3	040	25	6·5	2·6	186	25	5·5	0·9	149	28	7·0	2·9	187	27	8·0	7·2	225
0·6 ,, . .	31	3·5	1·6	282	3	3·6	0·3	113	25	7·7	2·5	226	25	5·9	0·6	217	28	8·2	3·4	197	27	8·1	6·8	232
0·9 ,, . .	31	4·1	2·6	264	3	4·5	1·8	185	21	7·9	2·7	257	22	5·9	0·9	122	27	7·5	2·3	218	23	6·7	4·9	256
1·5 ,, . .	31	5·7	4·3	236	3	4·3	3·2	153	18	8·1	1·0	344	17	7·5	0·6	297	25	7·3	1·5	253	17	6·0	4·8	278
2·1 ,, . .	31	6·4	4·8	230	3	5·5	5·0	159	13	7·3	1·1	343	13	8·7	0·4	324	14	6·6	1·2	291	14	5·9	5·6	263
3·0 ,, . .	31	6·6	4·0	222					8	6·7	3·4	026	9	10·5	2·4	065	5	5·8	4·8	098	11	6·0	5·3	259
3·6 ,, . .	31	6·7	3·5	216					6	4·8	3·7	063	3	5·1	4·7	083	1	3·1	3·1	135	9	6·4	5·3	273
4·5 ,, . .	31	6.0	2·2	207					3	4·8	3·9	097					1	3·6	3·6	135	7	6·8	6·2	264
5·4 ,, . .	30	5·5	1·1	213					3	4·6	4·4	093									2	2·8	2·7	221
																					1	1·5	1·5	095
6·0 ,, . .	30	5·8	1·4	204					3	5·1	5·0	088												
7·2 ,, . .	30	5·2	0·3	345					1	6·7	6·7	085												
9·0 ,, . .	29	5·7	2·8	062																				

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I. S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	6·4	5·9	206	31	4·6	4·2	212	31	1·6	0·9	078	31	2·0	0·7	124	31	1·7	1·2	252	31	2·4	1·2	274
0·15 a.g. . .	25	6·3	7·8	204	25	9·0	8·7	213	22	6·7	4·2	091	30	5·5	2·1	132	26	6·9	4·3	258	31	5·3	2·9	279
0·3 a.m.s.l. .	25	8·2	7·9	210	25	8·0	7·6	220	22	8·3	5·0	101	30	5·9	2·4	131	26	5·5	3·5	256	31	4·6	2·5	278
0·6 ,, . .	25	6·1	5·6	223	25	7·1	6·2	233	20	9·7	5·2	113	29	6·9	2·6	127	26	9·0	7·5	279	31	6·4	4·0	278
0·9 ,, . .	24	5·7	5·1	254	25	6·4	5·6	252	19	9·0	4·8	102	28	7·0	1·9	132	26	9·0	5·7	286	31	7·2	4·3	278
1·5 ,, . .	21	6·3	5·7	269	23	6·7	5·8	268	18	9·7	4·1	089	23	9·1	1·3	104	26	7·1	4·7	303	30	7·6	3·8	289
2·1 ,, . .	19	6·5	5·8	268	18	5·9	5·3	264	16	10·1	2·6	066	16	9·6	1·0	082	22	6·0	3·1	328	27	7·9	3·9	300
3·0 ,, . .	14	7·6	6·7	260	15	6.3	5·6	265	6	7·6	2·8	004	11	7·4	0·5	313	18	6·3	3·3	330	21	7·5	3·8	313
3·6 ,, . .	11	8·3	7·3	275	3	5·3	5·0	253	3	3·1	2·4	111	6	4·8	3·9	101	14	5·5	2·8	342	16	8·0	3·9	348
4·5 ,, . .	9	4·5	3·0	261					3	3·1	2·7	139	3	3·6	3·6	117	12	5·3	2·9	332	12	7·3	4·2	008
5·4 ,, . .	5	3·6	2·9	245					3	2·4	1·5	087	1	4·1	4·1	100	10	5·5	1·5	059	7	7·4	5·7	011
6·0 ,, . .	3	2·9	0·6	219					2	3.3	3·1	077	1	2·6	2·6	115	9	6·4	3·1	081	6	8·6	6·9	020
7·2 ,, . .	1	2·6	2·6	085									1	8·7	8·7	110	9	7·0	2·6	083	5	6·4	2·9	035
9·0 ,, . .													1	9·8	9·8	110	8	6·9	5·3	099	4	7·6	4·0	087

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Station	GWALIOR				IMPHAL												JABALPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	0·5	237	31	0·8	0·5	215	31	2·1	1·4	234	31	1·0	0·6	219	31	1·4	1·1	208	31	2·2	1·3	231
0·15 a. g.	30	6·2	2·9	241	23	1·9	1·0	210	28	4·2	3·3	222	22	2·6	1·6	238	26	5·6	4·3	234	30	5·5	3·5	253
0·3 a.m.s.l.	30	5·3	2·2	234																				
0·6 „	30	7·6	3·7	257													26	6·5	5·3	244	30	6·0	3·8	253
0·9 „	30	7·5	3·7	267	23	1·9	0·9	210	28	3·8	2·8	224	22	2·5	1·3	231	24	9·3	7·7	270	29	6·7	4·9	273
1·5 „	30	7·1	4·3	279	22	4·4	3·0	236	27	4·9	3·5	228	22	4·4	3·2	240	19	9·3	7·1	285	25	7·7	4·8	292
2·1 „	26	6·1	3·3	299	13	5·6	4·5	239	18	5·2	3·3	219	12	4·3	2·0	219	13	6·7	4·2	308	19	7·9	3·9	307
3·0 „	16	6·4	2·9	338	5	7·4	2·0	186	7	5·6	2·9	221	6	7·1	6·7	116	10	7·4	4·6	333	16	7·6	3·2	345
3·6 „	12	5·6	3·0	021					5	4·3	2·4	197	2	11·1	10·2	098	7	6·3	4·1	022	11	7·3	4·5	357
4·5 „									1	3·1	3·1	075					5	5·1	4·2	011	6	6·9	5·8	010
5·4 „																	4	5·5	4·5	030	2	7·7	7·3	073
6·0 „																	4	7·2	6·5	043	1	8·7	8·7	070
7·2 „																	1	13·9	13·9	085				
9·0 „																								

Station	JABALPUR				JAGDALPUR												JAIPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·2	1·5	184	31	0·9	0·8	216	31	1·5	1·3	234	31	0·5	0·5	216	31	1·6	0·4	274	31	3·3	1·7	271
0·15 a. g.	29	6·4	5·4	223	23	6·4	6·2	215	26	5·4	4·8	237	25	5·4	4·8	226	29	6·7	4·6	259	29	6·7	3·9	265
0·3 a.m.s.l.																								
0·6 „	29	7·1	6·1	231	23	8·7	3·5	215	26	3·7	3·3	232	25	4·0	3·6	223	30	7·3	5·0	261	29	6·9	4·4	267
0·9 „	28	8·5	3·3	252	23	8·0	7·7	231	26	5·8	5·3	247	25	6·2	5·8	241	28	9·9	7·2	268	29	7·9	4·8	271
1·5 „	26	7·5	5·5	282	21	8·2	7·7	251	17	6·8	6·1	274	21	6·8	6·1	265	20	6·0	2·7	289	29	8·2	5·0	269
2·1 „	23	7·9	5·5	299	16	7·6	6·7	264	13	7·2	5·8	276	18	7·5	6·9	273	18	5·0	2·2	277	26	7·6	3·4	269
3·0 „	17	6·2	3·2	321	11	6·1	4·9	257	9	6·3	5·0	273	13	5·0	4·5	271	12	4·2	1·8	353	16	6·0	3·0	314
3·6 „	7	6·2	3·5	025	10	6·4	4·3	284	7	6·7	5·3	275	6	4·9	4·1	274	8	5·4	2·2	355	12	7·4	4·6	357
4·5 „	1	7·7	7·7	015	6	6·3	2·5	263	6	5·3	3·7	266	2	2·8	1·7	249					9	8·1	6·3	013
5·4 „					3	2·1	1·5	277	2	3·3	2·9	295	2	2·1	1·4	140					6	9·2	7·9	019
6·0 „					2	2·1	2·0	033	2	4·1	3·3	309	1	4·6	4·6	110					5	7·7	5·6	360
7·2 „					2	5·1	3·4	073	1	3·1	3·1	085									3	8·6	6·8	357
9·0 „					1	12·9	12·0	075	1	8·7	8·7	090									1	5·7	5·7	350

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Station	JAIPUR				JAMSHEDPUR								JHARSUGUDA											
Time in I.S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·7	0·9	250	31	1·5	0·5	179	31	2·5	0·5	201	30	1·5	0·9	216	31	2·5	1·1	247	31	2·0	0·9	202
0·15 a.g. . .	29	6·3	4·0	251	27	4·3	1·8	216	24	4·7	1·2	188	20	5·0	1·9	232	19	5·2	1·4	283	21	5·6	3·3	214
0·3 a.m.s.l. .					27	4·4	2·0	216	24	4·9	1·4	190	20	3·8	1·3	221	19	4·7	1·2	287	21	4·6	2·9	205
0·6 ,, .	29	7·2	5·2	251	27	7·2	3·5	241	24	6·6	2·4	209	20	7·1	3·3	261	19	6·6	1·9	291	21	6·8	4·4	238
0·9 ,, .	30	8·6	5·9	254	26	8·0	4·1	258	24	7·7	2·5	214	18	8·9	3·8	274	18	7·1	2·5	307	17	8·1	4·0	240
1·5 ,, .	27	8·2	4·8	259	16	7·8	3·2	300	17	6·6	2·0	245	16	8·2	4·4	295	16	7·1	2·7	339	15	7·7	2·3	248
2·1 ,, .	23	8·6	1·5	271	11	7·9	3·5	328	14	5·9	2·6	260	10	7·9	4·2	322	14	7·1	2·3	348	13	7·1	1·1	262
3·0 ,, .	13	5·4	3·4	029	9	6·8	3·9	310	7	5·3	2·7	256	7	8·2	4·3	008	11	7·7	2·6	002	7	7·1	0·3	029
3·6 ,, .	11	5·3	3·8	016	7	5·8	1·0	004	7	5·7	2·8	260	7	8·7	5·1	017	6	9·3	2·4	018				
4·5 ,, .	6	7·1	4·9	044	5	5·6	0·2	008	3	5·0	2·1	097	2	8·0	5·0	329	6	8·3	2·9	056				
5·4 ,, .	3	6·3	5·9	070	4	5·4	5·3	103	1	5·7	5·7	110					2	13·4	12·6	078				
6·0 ,, .					3	7·4	5·7	108	1	3·6	3·6	105												
7·2 ,, .					2	12·1	11·8	107																
9·0 ,, .																								

Station	JODHPUR																MADRAS							
Time in I.S.T.	0530*				1130				1730*				2330				0530*				1130*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	27	3·0	2·9	235	31	4·6	4·0	232	31	4·4	3·9	234	31	3·6	3·1	216	31	3·2	2·4	245	30	5·1	3·8	270
0·15 a.g. . .	27	7·9	6·3	250	28	6·3	5·7	232	31	7·0	5·2	245	30	8·7	8·6	212	31	6·6	5·3	257	30	6·4	4·6	278
0·3 a.m.s.l. .	27	5·1	4·1	246	28	6·2	4·4	254	31	5·1	5·0	239	31	6·7	6·4	209	31	7·2	5·8	259	30	6·3	4·7	270
0·6 ,, .	27	9·3	8·5	245	28	6·7	5·8	231	31	7·9	6·0	243	30	10·1	9·6	220	31	8·4	6·5	266	30	6·2	4·9	270
0·9 ,, .	27	10·5	8·1	235	28	8·1	6·6	233	31	8·3	6·8	231	30	10·0	9·0	227	31	9·2	6·8	269	30	7·3	5·5	270
1·5 ,, .	27	9·9	8·0	234	19	9·1	6·0	233	31	7·9	5·7	228	26	7·9	5·5	242	31	9·9	7·2	281	30	8·2	5·7	280
2·1 ,, .	27	7·5	3·6	232	11	6·8	1·9	205	30	6·4	3·5	234	20	4·9	0·3	350	31	8·3	5·2	292	30	8·7	5·8	288
3·0 ,, .	27	6·0	0·3	042	8	4·2	3·1	102	30	5·9	0·4	330	17	5·6	3.6	058	31	7·2	4·1	275	30	8·6	5·1	268
3·6 ,, .	27	6·4	1·6	040	8	5·5	3·5	092	29	5·7	1·3	340	6	5·3	4·4	033	31	7·5	3·3	260	30	8·2	4·1	260
4·5 ,, .	25	6·8	1·7	016	8	6·7	3·6	078	29	7·1	2·5	357	3	10·5	7·5	009	31	7·8	3·1	238	30	8·1	3·4	241
5·4 ,, .	22	6·3	1·2	022	5	6·6	5·6	058	27	5·8	2·3	332	1	8·7	8·7	055	31	8·1	2·6	213	29	8·1	3·0	220
6·0 ,, .	22	5·9	1·0	047	4	6·7	3·8	052	26	5·7	1·8	350	1	11·3	11·3	045	31	8·0	3·1	192	27	7·7	2·1	215
7·2 ,, .	20	5·3	2·4	067	3	7·4	7·1	048	25	4·7	2·3	034					30	7·6	2·5	124	27	8·0	2·5	150
9·0 ,, .	15	7·2	6·0	080	1	5·1	5·1	350	23	5·8	2·7	074					26	7·8	6·3	090	22	7·8	5·7	094

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Station	MADRAS								MINICOY												MOHANBARI			
Time in I. S. T.	1730*				2330*				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4·4	2·2	162	31	3·5	2·3	206	31	5·9	5·3	285	31	6·6	6·1	290	31	6·7	6·0	285	31	0·6	0·5	109
0·15 a. g. . .	30	6·7	3·5	183	30	7·2	4·9	211	29	9·3	8·4	285	30	10·2	9·6	288	29	8·5	8·0	287	18	3·1	1·8	092
0·3 a.m.s.l. . .	30	6·7	3·7	198	30	7·3	5·1	220	29	10·0	9·3	288	30	10·9	10·3	286	29	9·1	8·5	287	18	3·5	1·4	109
0·6 ,, . .	30	6·8	4·0	220	30	8·0	6·0	234	29	11·2	10·5	288	30	12·7	11·9	284	29	11·3	10·4	284	17	3·3	1·6	218
0·9 ,, . .	30	6·6	3·8	251	30	8·3	5·9	248	29	12·8	11·9	289	30	14·7	14·0	290	26	12·9	12·2	290	15	4·5	3·8	223
1·5 ,, . .	30	7·4	5·5	281	30	7·8	5·5	265	29	12·8	12·3	291	29	14·5	14·0	293	26	13·8	13·4	292	9	6·3	3.6	223
2·1 ,, . .	30	8·4	6·3	290	30	7·8	5·3	283	26	12·7	12·1	290	25	12·9	12·3	291	20	11·8	11·5	290	5	2·8	0·4	244
3·0 ,, . .	30	8·7	5·6	273	30	7·5	4·5	279	17	9·7	8·7	290	16	11·1	10.5	282	8	6·4	4·6	308	3	1·3	0·4	180
3·6 ,, . .	30	8·1	4·6	260	30	7·2	3 3	268	11	9·5	8·0	298	11	8·5	7·7	286	2	4·9	4·9	098	3	2·1	1·4	240
4·5 ,, . .	30	7·6	3·5	245	30	7·6	2·7	240	4	7·4	6·7	288	7	8·2	6·1	275	1	5·7	5·7	080	2	1·8	0·5	204
5·4 ,, . .	30	7·8	2·9	243	30	7·1	1·8	209					4	6·0	4·6	316					1	5·1	5·1	090
6·0 ,, . .	29	7·4	1·9	227	30	6·7	2·1	196					3	5·7	4·7	298					1	8·7	8·7	090
7·2 ,, . .	28	7·6	2·0	170	28	7·7	2·3	151					3	10·3	4·1	138								
9·0 ,, . .	24	7·4	5·1	089	24	8·4	7·0	083					1	18·0	18·0	105								

Station	MOHANBARI								NAGPUR															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·4	1·0	080	31	0·8	0·4	067	30	1·0	0·8	265	31	3·2	2·5	261	31	3·5	2·8	263	31	1·8	1·3	244
0·15 a. g. . .	29	3·5	1·9	070	23	3·4	1·8	074	30	6·3	5·3	259	28	5·5	4·8	261	31	6·8	4·7	268	29	5·2	3·6	256
0·3 a.m.s.l. .	29	3·5	2·2	077	23	3·6	1·7	088																
0·6 ,, . .	29	2·3	1·1	136	23	3·9	1·1	140	30	7·2	5·5	259	28	5·0	4·1	263	31	6·6	5·5	271	29	5·9	4·3	269
0·9 ,, . .	29	3·9	2·5	214	22	4·2	2·0	191	30	8·2	6·0	270	27	5·8	4·5	267	31	6·4	5·5	271	29	6·7	5·4	278
1·5 ,, . .	28	7·2	6·5	229	16	4·7	3·8	221	30	8·5	6·4	285	15	6·8	5·0	283	31	7·8	6·5	280	27	6·7	5·8	279
2·1 ,, . .	20	6·7	6·0	220	8	3·5	2·5	199	30	7·8	6·0	281	8	5·7	4·4	285	31	8·1	6·0	290	23	5·8	4·5	277
3·0 ,, . .	14	5·7	4·2	214	3	4·8	2·7	155	30	6·9	3·9	295	5	2·3	0·4	267	30	7·9	5·0	366	15	5·3	3·4	296
3·6 ,, . .	10	4·9	3·0	207					30	6·4	2·6	329	4	3·2	1·5	312	28	7·4	3·5	297	7	4·6	1·3	014
4·5 ,, . .	7	3·4	1·4	170					30	6·1	2·6	339	2	3·1	2·8	245	27	6·4	2·3	343	4	3·1	2·7	023
5·4 ,, . .	4	4·6	2·1	115					28	6·3	1·3	009					27	5·9	2·0	001	2	3·9	1·6	326
6·0 ,, . .	4	5·5	3·7	107					27	6·9	2·1	058					26	6·5	2·6	090	2	5·1	1·1	269
7·2 ,, . .	2	3·3	2.5	059					23	7·4	3·7	089					26	7·9	4·3	083				
9·0 ,, . .	1	5·7	5·7	055					18	10·4	9·5	097					25	11·6	8·4	082				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

July, 1960 (Asadha 10— Sravana 9, 1882 Saka)

Station	NANPARA								NEW DELHI															
Time in I. S. T.	0530				1730				0530*				1130*				1730*				2330*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·6	1·4	110	31	2·9	1·9	127	31	2·3	0·7	225	31	3·5	1·2	245	31	3·0	0·5	120	31	2·1	1·2	129
0·15 a. g. . .	29	6·1	4·9	113	31	5·3	2·4	132	31	7·3	2·3	129	31	5·6	1·9	257	30	5·2	0·5	320	31	5·3	2·9	162
0·3 a.m.s.l. .	29	6·4	5·1	120	31	5·3	2·5	136	31	4·5	1·5	241	31	4·9	1·5	255	30	3·8	0·4	071	31	4·8	2·3	153
0·6 „ . .	29	9·1	6·6	121	31	6·7	3·3	144	31	6·9	2·7	237	31	6·1	2·5	262	30	5·1	0·9	270	31	5·3	2·4	193
0·9 „ . .	28	9·1	5·8	121	27	7.5	3·2	143	31	7·6	3·0	239	31	6·3	3·0	271	30	5·4	2·1	266	31	5·6	2·8	229
1·5 „ . .	22	7·4	2·1	122	24	7·9	2·7	135	31	7·1	2·3	262	31	5·8	2·4	285	30	6·8	4·5	270	31	6·1	3·7	255
2·1 „ . .	18	8·1	1·7	314	20	7·6	2·3	126	31	6·9	1·7	292	31	5·9	2·4	289	30	7·1	3·9	271	31	6·4	3·8	275
3·0 „ . .	13	7·2	0·9	285	15	6·5	1·5	143	31	5·6	1·7	312	31	6·1	1·3	313	30	7·2	3·7	298	31	6·0	3·1	310
3·6 „ . .	7	3·8	2·1	129	11	6·8	0·6	197	31	5·1	1·0	348	30	5·8	0·9	326	30	6·7	2·7	038	31	6·3	2·7	339
4·5 „ . .	7	4·3	2·9	128	8	5.9	0·8	341	30	5·4	2·3	288	30	5·9	1·6	337	30	6·7	3·5	340	31	6·0	2·4	345
5·4 „ . .	6	3·1	0·6	178	6	6·3	1·0	017	30	5·5	0·6	257	30	5·3	2·3	316	30	6·2	2·5	340	31	5·8	2·0	356
6·0 „ . .	6	3·0	2·0	081	6	5·0	0·5	080	29	4·9	0·4	250	30	5·8	0·8	277	30	5·5	2·1	359	31	5·4	1·2	345
7·2 „ . .	4	3·9	3·3	088	3	3·2	0·0	180	29	5·3	0·6	031	30	5·2	0·5	319	30	5·7	1·3	002	30	6·6	2·4	051
9·0 „ . .	3	4·0	3·5	128	2	4·9	4·9	095	28	6·6	1·7	190	26	5·7	1·6	149	29	5·7	0·5	046	29	7.3	2·5	089

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·7	1·5	258	31	3·3	2·8	267	31	1·9	1·8	262	31	2·4	2·1	231	31	4·7	3·8	216	31	3·3	2·9	230
0·15 a.g. . .	30	6·1	5·2	254	30	7·8	6·9	264	31	6·5	5·9	254	31	6·7	5·6	226	31	6·4	5·0	220	31	6·8	5·7	222
0·3 a.m.s.l. .													31	7·2	6·1	225	31	6·8	5·5	221	31	6·7	5·6	223
0·6 „ . .	30	2·9	2·6	256	30	4·7	4·2	266	31	3·3	3·0	258	31	8·4	6·5	225	31	7·5	6·3	221	31	8·1	6·8	231
0·9 „ . .	30	7·7	6·7	257	30	8·3	7·7	262	31	7·6	6·8	257	31	8·6	6·7	227	29	7·3	6·0	225	31	8·9	7·5	234
1·5 „ . .	19	10·1	7·0	249	28	11·1	9·2	258	24	10·0	8·0	255	31	8·4	6·4	225	22	6·6	4·9	213	31	8·3	6·1	230
2·1 „ . .	12	9·5	5·9	238	14	9·2	4·9	232	14	7·3	2·5	194	31	7·4	4·9	222	16	5·5	3·5	192	31	7·2	4·8	231
3·0 „ . .	7	4·9	3·4	181	7	8·4	4·7	157	9	5·9	3·2	155	31	8·2	4·2	226	11	4·6	2·9	149	31	8·0	4·0	230
3·6 „ . .	4	3·9	3·5	204	5	5·6	5·3	121	8	4·6	2·1	159	30	7·9	3·1	231	9	4·9	2·1	155	30	7·4	2·4	231
4·5 „ . .					1	1·5	1·5	140	4	4·5	3·9	146	30	6·7	1·5	226	3	6·2	5·0	109	29	7·1	1·8	217
5·4 „ . .					1	3·1	3·1	170	2	2·6	2·6	071	30	7·4	1·2	227	3	6.3	5·3	103	29	7·2	1·0	200
6·0 „ . .					1	3·6	3·6	165	2	5·9	5·7	112	30	6·8	1·0	200	3	6·5	3·1	117	27	6·9	1·2	162
7·2 „ . .													28	5·8	2·1	083	1	7·2	7·2	105	26	6·4	2·8	127
9·0 „ . .													22	10·5	9·5	080	1	10·8	10·8	110	25	8·9	7·9	087

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·8	3·0	229	31	2·1	1·6	219	31	3·0	2·5	232	31	2·5	2·2	219	31	1·1	1·1	091	31	1·3	0·9	099
0·15 a.g.	31	6·7	5·3	216	25	6·1	5·3	231	26	6·5	5·0	239	24	6·6	6·1	237	26	6·2	5·3	101	29	5·7	2·6	119
0·3 a.m.s.l.	31	7·2	5·8	218													26	6·9	6·3	107	29	5·7	3·2	120
0·6 „	31	7·9	6·1	224	25	7·7	6·7	251	26	7·1	6·1	251	24	7·2	6·4	251	21	9·1	8·6	115	28	7·3	3·5	126
0·9 „	31	8·0	5·9	223	25	8·2	7·0	257	26	7·8	6·6	259	24	7·2	6·2	256	19	8·7	8·1	109	25	7·8	3·8	127
1·5 „	30	7·3	4·7	222	21	7·0	5·4	277	23	8·4	6·0	269	24	6·7	4·7	277	14	8·2	6·1	104	23	8·7	3·2	126
2·1 „	24	5·6	3·8	204	17	6·4	3·8	299	18	8·3	6·6	276	23	6·9	4·9	283	12	9·4	6·3	103	15	9·9	4·5	118
3·0 „	18	4·7	2·5	152	12	6·0	2·8	335	12	6·8	5·3	288	16	6·3	3·3	293	6	6·5	6·3	086	10	8·5	6·2	107
3·6 „	11	3·9	2·9	119	9	6·1	3·8	330	10	7·8	6·5	291	6	5·0	2·4	293	5	5·0	4·5	089	7	4·8	3·0	102
4·5 „	4	2·2	2·1	096	5	4·9	4·2	280	6	4·8	3·4	296	2	6·7	2·9	062	2	3·1	2·9	088	3	4·8	2·0	013
5·4 „	1	5·1	5·1	115	3	4·3	2·2	262	1	3·6	3·6	100									1	4·6	4·6	026
6·0 „	1	4·1	4·1	095	1	4·6	4·6	295	1	5·7	5·7	080									1	1·5	1·5	276
7·2 „																					1	2·6	2·6	220
9·0 „																								

Station	SANTA CRUZ																TEZPUR							
Time in I.S.T.	0530*				1130*				1730*				2330*				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·0	4·6	250	31	5·7	5·2	256	31	5·8	5·0	264	31	4·2	3·7	249	28	0·3	0·1	132	28	0·6	0·2	206
0·15 a.g.	31	8·6	7·5	250	31	8·4	6·7	260	31	9·0	7·9	260	31	8·0	6·3	244	20	3·3	1·3	166	28	3·4	1·2	220
0·3 a.m.s.l.	31	8·9	7·6	250	31	8·7	7·3	258	31	8·9	7·8	260	31	8·0	6·3	244	20	3·9	1·5	183	28	3·8	1·4	213
0·6 „	31	9·5	8·3	248	31	8·7	7·6	254	30	8·6	7·8	260	31	8·1	7·0	247	18	5·0	2·4	231	28	4·6	2·5	217
0·9 „	31	10·5	9·3	248	31	9·5	8·3	254	30	8·6	7·7	257	31	9·3	7·3	251	18	5·1	3·4	236	27	5·4	4·1	223
1·5 „	31	10·4	8·6	245	31	9·9	8·0	250	30	8·9	7·4	246	31	9·4	7·3	244	3	17·8	10·3	210	23	5·8	4·9	229
2·1 „	31	9·5	7·3	235	31	10·1	6·9	244	30	8·2	6·2	243	31	9·3	6·6	236	3	4·3	1·9	109	20	7·4	4·8	220
3·0 „	31	10·0	5·9	235	31	9·9	6·9	238	30	9·4	5·9	243	31	9·0	5·6	244	1	8·2	6·2	146	9	4·8	2·1	195
3·6 „	31	7·6	4·6	247	31	8·0	4·9	252	30	8·2	5·0	247	31	8·1	4·7	245	1	13·9	13·9	120	5	5·3	2·2	132
4·5 „	31	8·3	2·5	240	31	6·9	2·8	224	30	5·9	3·2	237	30	6·2	2·5	254					1	1·5	1·5	045
5·4 „	31	5·8	0·3	103	31	6·8	0·9	191	30	5·9	1·7	206	29	5·0	1·1	163								
6·0 „	31	6·5	1·0	115	31	6·6	1·5	104	30	6·1	1·3	146	29	5·8	1·9	113								
7·2 „	31	6·7	3·2	075	31	6·9	4·3	090	30	7·2	4·4	097	29	6·8	4·9	098								
9·0 „	28	9·5	8·4	089	21	10·3	9·4	098	23	10·0	9·3	092	24	10·4	9·3	095								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Station	TEZPUR				TIRUCHIRAPALLI												TRIVANDRUM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	16	0·7	0·3	180	31	5·4	5·0	274	31	7·2	6·3	275	31	5·3	4·3	266	31	3·6	2·9	332	31	4·4	4·0	321
0·15 a.g. .	14	4·3	3·1	195	31	8·8	8·3	275	31	8·7	7·7	271	30	7·6	6·0	263	31	8·4	7·5	330	30	8·0	7·3	317
0·3 a.m.s.l. .	14	5·3	4.0	201	31	10·0	9·5	275	31	8·7	7·9	270	30	7·7	6·1	263	31	8·7	7·8	327	30	8·2	7·6	313
0·6 „ . .	14	6·3	5·0	214	31	13·2	12·4	273	31	8·6	7·5	270	30	10·3	8·3	263	31	11·6	10·4	310	27	9·8	9.1	307
0·9 „ . .	14	6·4	5·0	229	31	12·8	11·7	274	31	9·4	8·0	268	30	10·8	8·7	262	31	13·0	11·8	305	21	11·0	10·3	314
1·5 „ . .	11	6·8	5·1	244	31	11·2	9·4	275	31	10·3	8·4	268	30	9·2	7·1	269	31	12·2	11·2	299	16	10·0	8 6	311
2·1 „ . .	4	7·4	2·5	158	30	9·8	7·1	279	28	9·5	7·3	276	25	9·0	7 2	275	31	11·1	9·4	296	12	8·4	5·8	318
3·0 „ . .	1	3·1	3·1	250	23	6·5	1·9	277	24	7·7	4·0	287	15	7·5	5·0	271	31	10·0	8·0	286	7	6·2	3·4	023
3·6 „ . .					21	5·9	1·1	234	19	6·1	1·4	308	10	5·8	2·1	255	31	8·9	6·1	285	7	6·8	4·2	032
4·5 „ . .					15	5·5	2·4	177	11	5·2	2·8	074	4	4·0	1·7	204	31	7·0	2·7	273	5	8·2	2·7	024
5·4 „ . .					10	6·6	5·3	121	6	6·2	5·2	101	1	4·6	4·6	110	30	6·2	1·1	176	4	7·7	6·4	104
6·0 „ . .					7	8·5	7·7	119	6	7·4	7·2	103	1	3·6	3·6	085	30	5·6	2.1	102	3	11·0	10·9	108
7·2 „ . .					3	7·2	6·9	113	5	8·1	6·8	105					30	7·1	4·9	110	1	13.9	13·9	095
9·0 „ . .					1	3·6	3·6	120	1	18·5	18·5	080					28	10·5	9·7	102				

Station	TRIVANDRUM								UDAIPUR												VENGURLA			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5·3	5·0	303	31	3·3	3·0	321	31	1·2	1·0	220	31	2·1	1·4	217	31	1·4	1·2	205	31	2·1	1·6	251
0·15 a.g. .	31	8·7	8·3	302	26	7·5	6·5	314	28	3·8	2·7	245	28	4·8	2·8	232	28	3·7	3·1	215	29	6·0	4·5	276
0·3 a.m.s.l. .	31	9·1	8·6	301	26	9·0	7·8	314													29	7·2	5·5	276
0·6 „ . .	31	10·4	9·6	300	25	11·7	10·6	307													28	8·5	6·9	278
0·9 „ . .	31	11·2	10·3	302	24	12·4	11·4	304	28	4·9	3·3	254	27	5·5	3·2	231	28	5·1	4·2	221	13	8·2	5·5	267
1·5 „ . .	31	11·5	10·5	301	22	12·2	11·5	304	15	4·7	1·6	275	23	4·6	2·8	262	20	4·8	3·1	238	10	7·9	2·5	249
2·1 „ . .	31	10·7	9·1	297	16	10·8	9·2	304	11	4·4	3·2	065	19	3·6	1·3	278	16	4·3	0·9	193	4	7·6	3·1	085
3·0 „ . .	31	10·5	8·1	292	10	4·9	2·7	333	6	4·8	3·3	070	14	3·7	0.5	153	15	3·3	1·2	086	2	7·7	7·5	102
3·6 „ . .	31	9·7	6·7	292	5	5·3	2·8	008	3	5·0	3·7	102	10	3·9	1·5	082	15	3·8	2·5	067				
4·5 „ . .	31	8·3	3·9	304	3	8·7	2·0	033					7	4·9	2·7	094	8	3·7	4·4	052				
5·4 „ . .	31	6·6	0·3	246	2	7·7	2·9	072					4	5·0	2·3	096	2	6·7	6·5	062				
6·0 „ . .	31	5·9	1·6	093	2	9·0	4·2	038					1	6·7	6·7	215	2	4·6	4·6	058				
7·2 „ . .	31	7·6	4·8	100	1	13·4	13·4	075																
9·0 „ . .	28	11·4	10·3	094																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Station	VENGURLA								VERAVAL															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·8	2·4	260	31	2·2	1·6	250	31	9·3	8·2	243	31	9·1	7·8	241	31	9·6	8·2	245	31	8·9	7·2	237
0·15 a. g.	27	6·8	5·9	260	28	7·3	5·8	269	29	9·7	8·1	255	27	8·8	7·9	241	31	11·0	10·1	250	27	8·7	7·5	239
0·3 a.m.s. l.	27	7·9	6·6	266	28	8·4	7·0	271	29	9·1	7·6	255	27	8·7	7·7	245	31	10·2	9·4	249	27	9·2	8·0	243
0·6 ,,	26	9·4	8·2	271	27	10·5	9·0	272	27	8·5	7·7	254	22	9·0	7·8	251	30	9·3	8·3	250	27	9·2	8·2	245
0·9 ,,	20	9·5	8·0	275	18	10·2	9·5	266	25	7·9	7·1	257	13	8·1	6·9	258	26	8·5	7·2	258	21	8·6	7·4	246
1·5 ,,	6	5·4	2·1	161	11	5·1	4·0	255	27	7·4	6·0	246	8	5·1	3·0	240	26	7·2	5·1	250	15	8·2	5·7	241
2·1 ,,	4	7·7	6·6	142	8	4·9	3·8	239	27	6·8	4·8	238	6	6·5	4·1	211	26	7·2	4·2	240	10	8·2	6·1	219
3·0 ,,	3	9·1	8·9	132	3	7·2	1·9	193	26	6·1	3·2	217	3	5·1	5·1	175	26	6·9	3·9	227	6	6·8	5·1	173
3·6 ,,	2	11·1	10·4	134	1	6·2	6·2	125	26	5·1	1·3	213	3	3·8	2·9	126	26	6·3	3·1	232	2	5·7	4·8	126
4·5 ,,									26	5·9	0·2	100	3	4·4	3·9	105	26	5·3	1·0	200	1	4·6	4·6	050
5·4 ,,									26	6·0	2·3	093	2	3·6	3·2	111	26	5·7	2·7	110				
6·0 ,,									26	6·4	2·6	090	2	5·4	5·1	110	26	5·9	3·4	106				
7·2 ,,									26	6·8	3·8	109	2	5·4	5·4	102	26	8·4	5·7	111				
9·0 ,,									16	9·0	7·5	100					18	8·9	7·7	112				

Station	VISAKHAPATNAM															
Time in I.S.T.	0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	19	2·0	1·7	267	11	4·3	4·0	216	18	2·6	2·1	234	31	2·5	2·3	226
0·15 a. g.	19	6·4	5·8	282	9	5·7	5·3	223	18	5·7	4·0	277	29	4·7	4·5	228
0·3 a.m.s. l.	19	6·7	6·3	264	9	5·8	5·7	228	18	5·6	4·1	261	29	6·2	5·9	235
0·6 ,,	19	7·5	6·8	247	9	5·3	5·1	251	18	5·8	5·0	243	29	7·6	6·9	245
0·9 ,,	19	7·1	6·5	257	9	6·8	6·2	267	18	4·8	4·7	253	27	6·7	6·2	259
1·5 ,,	19	6·0	4·9	269	5	7·0	6·6	277	18	5·7	5·2	286	26	7·9	7·2	272
2·1 ,,	19	5·9	4·7	276	5	6·9	5·8	289	18	5·4	4·4	280	25	6·7	5·4	268
3·0 ,,	19	6·4	5·4	272	3	6·3	6·2	290	18	5·7	4·7	257	18	6·7	5·0	258
3·6 ,,	19	5·6	4·3	265	3	10·5	10·4	290	18	5·2	4·2	256	15	6·9	5·0	255
4·5 ,,	19	5·9	3·3	224	1	6·2	6·2	330	18	4·6	2·9	241	10	4·7	2·9	257
5·4 ,,	19	5·0	2·1	317					18	3·9	0·9	258	4	1·7	0·6	177
6·0 ,,	19	5·1	0·5	307					18	4·2	0·1	090	3	2·7	2·0	124
7·2 ,,	19	5·8	3·7	103					18	5·9	4·1	091	3	7·1	7·0	100
9·0 ,,	15	8·3	8·2	097					16	10·8	9·9	078	1	10·8	10·8	090

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 Km. above mean sea level

July, 1960 (Asadha 10— Sravana 9, 1882 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA			
	0530 hrs.			
10·5	1	18·0	18·0	085
12·0	1	23·2	23·2	075
	AMBALA			
	0530 hrs.			
10·5	1	13·4	13·4	305
	ANANTAPUR			
	1730 hrs.			
10·5	2	19·8	19·8	102
	BAIRAGARH			
	0530 hrs.			
10·5	2	9·8	9·8	083
	BAMRAULI			
	0530 hrs.*			
10·5	12	9·5	9·0	088
12·0	6	12·9	11·0	068
14·0	2	16·5	14·2	074
16·0	1	21·1	21·1	105
18·0	1	18·0	18·0	110
	1730 hrs.*			
10·5	20	10·4	9·7	083
12·0	17	11·9	11·7	083
14·1	7	17·2	16·2	091
16·0	4	20·1	17·9	088
18·0	3	23·8	23·8	097
	BANGALORE			
	1730 hrs.			
10·5	1	14·9	14·9	070
	BAREILLY			
	0530 hrs.			
10·5	1	4·6	4·6	110
12·0	1	5·7	5·7	140
14·1	1	22·1	22·1	110
	1730 hrs.			
10·5	1	10·8	10·8	139
12·0	1	14·4	14·4	135
14·1	1	19·0	19·0	115

Ht. in Km.	n	V	v	D
	BIKANER			
	1730 hrs.			
10·5	3	5·5	1·0	117
	DUM DUM			
	0530 hrs.*			
10·5	13	10·2	8·9	081
12·0	11	16·4	14·1	074
14·1	6	19·1	18·2	065
16·2	1	24·7	24·7	080
18·0	1	27·8	27·8	080
	1130 hrs.			
10·5	14	9·7	7·0	083
12·0	10	14·7	13·6	073
14.1	4	18·6	18·1	071
16·2	1	18·0	18·0	045
	1730 hrs *			
10·5	14	10·5	9·1	085
12·0	13	16·0	13·2	091
14·1	10	17·9	13·4	083
16·2	5	21·4	17·5	092
18·0	1	11·8	11·8	050
	2330 hrs.			
10·5	14	11·8	10·7	071
12·0	9	14·4	13·0	068
14·1	2	21·6	21·6	071
16·2	1	20·6	20·6	075
18·0	1	30·3	30·3	085
	GANNAVARAM			
	1730 hrs.*			
10·5	4	15·8	15·6	091
12·0	3	24·9	24·8	096
	GAUHATI			
	0530 hrs.*			
10·5	21	9·2	7·6	073
12·0	18	13·2	11·2	066
14·1	5	14·1	13·3	054
16·2	3	24·6	23·2	067

Ht. in Km.	n	V	v	D
	GAUHATI			
	1730 hrs.*			
10·5	22	8·9	7·0	061
12·0	15	11·1	9·1	058
14·1	6	19·1	18·0	063
16·2	1	27·8	27·8	070
	GORAKHPUR			
	1730 hrs.			
10·5	1	7·7	7·7	100
	GWALIOR			
	0530 hrs.			
10·5	6	9·4	7·2	094
12·0	2	13·1	12·4	125
14·1	1	7·7	7·7	090
	1730 hrs.			
10·5	1	3·1	3·1	265
	JAGDALPUR			
	1730 hrs.			
10·5	1	11·8	11·8	110
	JODHPUR			
	0530 hrs.*			
10·5	14	8·2	7·0	093
12·0	10	10·5	9·6	102
14·1	3	23·2	20·9	087
	1730 hrs.*			
10·5	17	7·0	5·3	097
12·0	10	8·1	3·9	078
14·1	2	19·0	16·6	093
	MADRAS			
	0530 hrs.*			
10·5	19	13·6	13·0	090
12·0	15	21·9	21·3	081
14·1	7	31·2	30·8	086
	1130 hrs.			
10·5	18	11·0	10·4	094
12.0	11	17·7	17·2	087
14·1	8	30·8	30·3	082
16·2	1	38·5	38·5	110

Ht. in Km.	n	V	v	D
	MADRAS			
	1730 hrs.*			
10·5	18	12·5	11·8	089
12·0	13	21·1	20·6	095
14·1	6	31·2	29·6	096
	2330 hrs.			
10·5	19	12·8	11·4	088
12·0	11	19·4	18·7	090
14·1	4	29·3	28·1	078
	MINICOY			
	1730 hrs.			
10·5	1	25·2	25·2	090
12·0	1	35·5	35·5	100
	MOHANBARI			
	1730 hrs.			
10·5	1	11·8	11·8	050
12·0	1	13·4	13·4	055
	NAGPUR			
	0530 hrs.*			
10·5	17	15·3	15·1	093
12·0	14	22·7	22·1	090
14·1	9	31·3	30·8	089
16·2	3	28·6	27·7	084
18·0	3	37·0	36·9	090
	1730 hrs.*			
10·5	20	13·9	13·5	082
12·0	17	20·3	19·3	081
14·1	15	27·6	27·0	088
16.2	8	30·3	29·8	082
18·0	4	36·1	35·7	093
21·0	2	31·9	31·9	095
24·0	1	40·1	40·1	085
	NANPARA			
	1730 hrs.			
10·5	1	6·7	6·7	140
12·0	1	6·7	6·7	155
	NEW DELHI			
	0530 hrs.*			
10·5	25	6·7	2·0	147
12·0	23	7·2	2·6	138
14·1	18	9·6	4·0	126
16·2	11	13·5	9·4	081
18·0	9	14·5	13.0	078

Ht. in Km.	n	V	v	D
	NEW DELHI			
	1130 hrs.			
10·5	24	5·8	2·0	169
12·0	23	6·9	2·4	124
14·1	20	8·5	3·4	105
16·2	14	10·5	8·4	067
18 0	9	16·6	16·2	095
21·0	4	17·7	17·0	092
	1730 hrs.*			
10·5	27	6·0	1 4	096
12·0	27	7·4	2·2	085
14·1	25	9·7	5·5	092
16·2	18	13·6	11·4	087
18·0	14	15·9	14·5	086
21·0	3	17·3	17·3	086
	2330 hrs.			
10·5	26	7·7	2·6	119
12·0	22	8·5	3·5	122
14·1	17	9·9	7·5	121
16·2	12	9·3	7·4	110
18·0	6	12·5	10·4	083
	PORT BLAIR			
	0530 hrs.*			
10·5	20	14·8	13·6	074
12·0	18	17·5	16·1	078
14·1	9	27·3	27·1	076
16·2	3	26·7	26·4	091
18·0	1	18·5	18·5	065
	1130 hrs.			
10·5	1	9·8	9·8	100
	1730 hrs.*			
10·5	24	12·9	11·6	075
12·0	20	15·4	14·0	067
14·1	10	26·8	26·2	071
16·2	3	25·6	24·9	057
18·0	2	28·8	21·1	068
	SANTA CRUZ			
	0530 hrs.*			
10·5	19	14·3	13·8	089
12·0	15	19·9	19·2	070
14·1	7	30·1	29·4	082
16·2	2	35·4	35·4	075

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Ht. in Km.	n	V	v	D
		SANTA CRUZ		
		1130 hrs.		
10·5	18	14·3	14·0	090
12·0	11	20·0	19·7	090
14·1	3	27·2	25·9	073
		1730 hrs.*		
10·5	19	14·0	13·4	080
12·0	13	20·9	20·3	087
14·1	6	33·6	33·3	084
		2330 hrs.		
10·5	13	15·1	14·5	092
12·0	5	20·6	20·4	087
14·1	1	24·7	24·7	090
		TRIVANDRUM		
		0530 hrs.*		
10·5	25	16·8	15·9	088
12·0	23	22·9	22·0	080
14·1	14	31·6	31·2	075
16·2	6	41·2	41·1	085
18·0	4	30·8	30·5	096
		1730 hrs.*		
10.5	24	14·1	13·3	090
12·0	21	23·4	22·5	083
14·1	17	37·0	36·7	081
16·2	10	29·2	27·9	092
18·0	4	33·7	33·3	096
21·0	1	26·7	26·7	070
		VERAVAL		
		0530 hrs.*		
10·5	12	12·4	10·9	094
12.0	9	20·2	20·0	096
14·1	5	29·2	26·8	101
16·2	3	26·7	25·0	097
18·0	3	30·2	30·2	091
21·0	1	32·9	32·9	090

Ht. in Km.	n	V	v	D
		VERAVAL		
		1730 hrs.*		
10·5	14	13·3	10·4	105
12·0	11	19·1	14·0	122
14·1	7	28·1	22·1	125
16·2	2	21·1	20·2	102
		VISAKHAPATNAM		
		0530 hrs*		
10·5	14	13·1	12·9	089
12·0	14	15·2	14·7	083
14·1	11	20·6	20·6	082
16·2	10	21·7	15·9	091
18·0	4	23·7	23·4	087
21·0	3	37·7	37·0	087
24·0	1	37·0	37·0	080
		1730 hrs.*		
10·5	15	15·3	14·0	092
12·0	15	22·3	20·9	083
14·1	13	24·8	22·9	075
16·2	10	26·0	25·2	087
18·0	7	17·7	17·2	083
21·0	2	19·3	19·0	096

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad	Clock type	1st October, 1944	00 and 12	
2	Bombay	Clock type	7th September, 1954	00 and 12	
3	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
4	Gauhati	Clock type	22nd July, 1955	00 and 12	
5	Gwalior	Clock type	28th June, 1960	00 and 12	
6	Jodhpur	Clock type	17th April, 1946	00 and 12	
7	Madras	Fan type	29th June, 1946	00 and 12	
8	Nagpur	Fan type	1st October, 1946	00 and 12	
9	New Delhi	Clock type	3rd December, 1943	00 and 12	
10	Port Blair	Fan type	4th December, 1949	00 and 12	
11	Trivandrum	Fan type	1st July, 1947	00 and 12	
12	Veraval	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 0000 hrs. G. M. T.

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (988 mb.)						BOMBAY (1001 mb.)						CALCUTTA (1000 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	98	300·1	303	298	298·4	31	13	299·7	301	298	297·7	31	6	299·8	301	297	298·4
1000	30	—12	..	..	..	..	31	24	..	..	..	..	31	8	..	..	..	..
900	30	921	298·0	303	293	293·6	31	951	295·3	298	293	293·0	31	932	295·3	299	292	291·9
850	30	1423	295·4	300	291	291·0	31	1448	292·5	296	290	290·1	31	1427	293·0	298	291	289·3
800	30	1949	292·3	295	289	288·5	31	1969	289·7	293	287	287·0	31	1948	290·5	295	288	286·9
700	30	3087	286·1	290	283	282·3	31	3098	284·5	287	281	280·4	31	3079	284·8	289	282	281·2
600	30	4371	279·7	283	276	274·1	31	4374	278·0	281	274	273·0	31	4356	278·6	283	275	274·3
500	30	5851	272·6	275	266	264·0	31	5844	270·9	274	267	260·7	31	5831	271·1	276	267	263·2
400	30	7606	263·6	268	260	..	31	7588	261·6	268	258	..	30	7577	261·7	268	256	..
300	27	9779	250·4	257	244	..	25	9738	248·3	256	243	..	25	9726	247·7	255	243	..
250	24	11090	241·2	249	233	..	20	11053	240·3	253	234	..	21	11034	238·2	244	233	..
200	22	12624	229·8	239	221	..	16	12573	228·4	237	223	..	18	12573	227·3	232	223	..
175	19	13503	222·8	231	214	..	13	13451	221·9	233	216	..	14	13442	221·0	227	217	..
150	18	14494	215·7	224	207	..	10	14476	216·3	226	212	..	10	14439	214·5	219	212	..
125	17	15569	208·1	215	201	..	6	15587	207·7	212	204	..	7	15553	206·4	209	203	..
100	13	16960	202·1	209	196	..	5	16930	201·4	207	198	..	5	16937	201·4	205	199	..
80	6	18268	200·7	208	196	..	..	..	..	..	..	..	..	..	..	..	..	..

	GAUHATI (997 mb.)						GWAL'OR (976 mb.)						JODHPUR (975 mb.)					
Surface	31	49	300·9	304	299	298·8	29	203	302·0	305	300	296·9	28	218	301·1	306	299	296·8
1000	31	19	..	..	..	..	29	—19	..	..	..	..	28	—12	..	..	..	..
900	31	947	295·8	300	291	293·4	29	916	298·9	305	294	292·8	28	923	297·6	301	295	291·8
850	31	1444	293·1	297	288	291·0	29	1415	296·1	302	292	290·3	28	1423	295·3	299	292	289·1
800	31	1966	290·4	294	286	288·8	29	1940	293·0	299	289	287·8	28	1950	292·8	297	289	285·9
700	31	3098	285·0	288	281	283·1	29	3078	286·5	291	283	280·9	28	3092	287·3	291	284	278·0
600	31	4376	278·7	283	275	276·4	29	4361	279·8	283	277	273·9	27	4378	280·0	284	277	269·3
500	31	5849	271·1	277	267	267·4	29	5839	272·1	275	268	264·9	27	5861	271·9	278	267	265·2
400	31	7595	261·8	267	257	..	29	7591	263·4	271	255	..	27	7611	262·8	270	257	..
300	27	9762	249·0	259	245	..	24	9758	249·2	253	238	..	24	9780	250·3	256	246	..
250	23	11072	240·1	247	235	..	19	11092	241·6	250	236	..	21	11100	241·5	249	237	..
200	20	12609	228·9	237	220	..	18	12635	230·6	241	221	..	16	12641	229·9	238	226	..
175	9	13481	220·4	225	216	..	15	13500	224·7	238	209	..	14	13511	222·5	228	219	..
150	8	14497	214·9	220	209	..	12	14549	218·9	229	209	..	13	14500	215·3	221	211	..
125	5	15640	209·2	213	205	..	6	15735	212·8	219	209	..	11	15639	207·4	213	202	..
100	..	..	..	..	..	..	5	17114	207·0	211	203	..	8	16981	201·1	207	196	..
80	..	..	..	..	..	..	..	..	..	..	..	..	5	18233	204·4	213	198	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 0000 hrs. G. M. T.

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Standard Pressure Surface (mb.)	MADRAS Surf. Pr. (1003 mb.)						NAGPUR (967 mb.)						NEW DELHI (975 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	15	300·1	302	298	296·3	30	311	297·6	300	296	296·5	31	210	300·9	303	298	298·2
1000	31	43	..	..	..	..	30	14	..	..	..	..	31	—18	..	..	..	..
900	31	969	295·0	299	291	289·4	30	941	295·8	300	293	291·4	31	917	298·7	303	294	294·0
850	31	1464	292·3	297	289	286·9	30	1438	292·8	297	290	28·85	31	1419	296·2	301	293	291·0
800	31	1984	289·0	294	285	284·4	30	1960	290·1	294	287	285·7	31	1946	293·2	297	289	288·5
[illegible]	31	2106	282·2	287	278	277·0	30	3089	283·3	287	280	278·9	31	3087	286·8	290	281	282·1
[illegible]	[illegible]	4368	274·9	280	271	269·6	30	4360	276·8	281	273	273·3	31	4373	280·1	284	276	273·7
[illegible]	3	5814	266·0	273	261	..	27	5821	268·7	275	263	..	30	5852	272·2	276	269	267·7
[illegible]	31	7520	255·1	261	249	..	24	7543	259·1	264	252	..	29	7607	262·8	267	258	..
[illegible]	31	9606	239·0	248	232	..	21	9670	245·4	251	238	..	27	9766	249·6	253	245	..
[illegible]	25	10854	228·9	239	221	..	20	10946	235·1	245	228	..	26	11076	240·4	245	236	..
[illegible]	20	12312	216·7	228	206	..	17	12424	222·8	235	209	..	25	12611	229·0	234	223	..
[illegible]	18	13162	210·8	220	201	..	17	13270	215·6	229	203	..	23	13483	221·6	228	215	..
[illegible]	15	14108	204·0	212	195	..	17	14300	207·8	221	197	..	23	14467	213·9	221	207	..
125	9	15266	201·4	209	197	..	15	15356	202·7	217	193	..	23	15580	206·0	215	197	..
[illegible]	7	16609	199·3	204	190	..	10	16734	199·9	213	193	..	22	16914	199·7	211	193	..
[illegible]		..	..	..	..	..	8	17999	197·9	204	192	..	20	18218	201·5	214	193	..

	PORT BLAIR (998 mb.)						TRIVANDRUM (1000 mb.)						VERAVAL (1000 mb.)					
Surface	31	79	298·3	299	295	297·3	31	64	297·1	298	296	295·4	31	8	300·6	301	299	299·1
1000	31	62	..	..	..	..	31	68	..	..	..	..	31	9	..	..	..	..
900	31	985	293·8	296	289	291·1	31	986	292·3	295	287	289·5	31	935	294·8	298	291	291·0
850	31	1478	291·1	293	287	287.7	31	1477	289·6	292	283	286·1	31	1431	292·4	295	288	287·5
800	31	1996	288·5	291	284	284·3	31	1992	287·2	291	282	283·4	31	1958	289·9	294	285	284·1
700	31	3120	282·7	286	279	278·2	31	3110	281·8	288	277	275·3	31	3082	285·7	289	282	276·4
600	31	4386	275·9	279	272	272·0	31	4370	274·4	281	270	268·6	31	4360	278·0	283	273	271·1
500	31	5842	268·5	272	263	..	31	5814	265·7	273	262	..	31	5826	269·8	277	261	..
400	31	7566	257·4	264	252	..	31	7514	254·5	261	248	..	31	7556	258·5	266	251	..
300	25	9692	243·1	250	237	..	31	9594	238·7	249	233	..	21	9699	245·7	255	237	..
250	24	10961	232·8	241	225	..	31	10843	228·7	239	219	..	18	10965	234·2	241	222	..
200	21	12448	220·3	229	208	..	31	12299	216·6	228	205	..	17	12456	221·9	233	215	..
175	16	13320	213·0	225	205	..	28	13110	210·3	221	198	..	13	13320	215·2	225	206	..
150	9	14235	207·7	219	198	..	26	14081	204·8	215	196	..	12	14265	207·7	217	200	..
125	6	15367	200·5	210	197	..	23	15161	200·7	208	193	..	8	15369	201·7	212	194	..
100							20	16489	200·5	217	194	..	7	16708	199·0	205	193	
80							17	17839	202·9	223	196	..	5	18276	198·8	203	192	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 0000 hrs. G. M. T.

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (997 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	300·0	302	297	297·4
1000	31	23	..	..	..	..
900	31	953	295·8	300	293	290·7
850	31	1450	293·2	296	291	287·9
800	31	1972	290·4	292	288	285·1
700	31	3101	283·8	287	279	278·1
600	31	4371	276·4	279	273	271·6
500	31	5832	268·7	272	266	..
400	31	7558	258·5	262	254	..
300	28	9681	244·2	250	240	..
250	25	10956	233·6	242	224	..
200	23	12439	220 0	232	210	..
175	22	13288	213·3	229	204	..
150	21	14247	206.3	227	196	..
125	21	15327	201·6	224	192	..
100	17	16663	201·2	222	191	..
80	9	18079	202·0	216	192	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 hrs. G.M.T.

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (986 mb.)						BOMBAY (1001 mb.)						CALCUTTA (998 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew point
Surface	30	98	303·8	309	299	298·6	30	13	301·6	305	298	298·1	30	6	301·8	304	298	299·0
1000	30	−28	..	..	..	..	30	21	..	..	..	..	30	−78	..	..	..	..
900	30	913	299·4	304	295	294·1	30	952	296·1	299	293	292·7	30	921	296·3	299	292	293·9
850	30	1417	296.4	299	293	291·1	30	1450	293·3	297	291	289·5	30	1419	293·8	297	290	291·0
800	30	1945	293·5	297	291	288·6	30	1973	290·6	294	288	286·6	30	1941	291·2	295	288	287·9
700	30	3088	287·4	291	285	282·5	30	3106	285·2	287	281	279·4	30	3075	285·8	289	282	281·8
600	30	4378	280·9	285	276	274.4	30	4386	279·2	284	277	273·1	30	4357	279·5	283	276	274·9
500	30	5863	273·6	277	270	266.2	30	5863	271·7	275	269	268·1	30	5835	271·9	276	269	267·1
400	29	7622	263·9	269	259	..	30	7613	262·9	267	259	..	29	7584	261·5	265	256	..
300	26	9792	250·4	256	244	..	26	9781	249·7	256	243	..	22	9740	248·3	253	241	..
250	26	11107	241·5	247	234	..	21	11084	240·6	245	234	..	19	11045	239·0	243	232	..
200	23	12657	231·2	237	224	..	14	12617	229·9	235	225	..	17	12572	227·6	233	222	..
175	20	13567	224·8	231	211	..	12	13501	224·6	233	220	..	12	13478	221·9	228	217	..
150	18	14576	218·5	226	210	..	10	14533	218·7	229	213	..	10	14468	214·9	223	209	..
125	14	15710	210·3	220	200	..	5	15690	213·2	224	210	..	6	15617	209·0	216	203	..
100	12	17036	203·6	214	193	..	..	..	..	..	..	..	6	16970	200·7	207	196	..
80	8	18329	204·0	213	199	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mbs.	GAUHATI (994 mb.)						GWALIOR (974 mb.)						JODHPUR (973 mb.)					
Surface	31	49	303·5	306	301	300·7	30	203	305·3	312	299	297·4	30	218	307·0	313	299	296·0
1000	31	−6	..	..	..	..	30	−36	..	..	..	..	30	−28	..	..	..	..
900	31	928	297·3	301	294	294·8	30	905	301·4	307	295	294·2	30	918	301·2	309	296	292·7
850	31	1427	294·5	298	291	292·2	30	1412	298·1	302	293	291·0	30	1423	297·1	303	293	290.3
800	31	1951	291·4	295	287	291·4	30	1941	294·5	298	291	287·6	30	1951	293.8	298	291	287·5
700	31	3087	285·9	292	281	283·8	30	3083	287·5	290	285	280·9	30	3095	287·6	291	283	278·0
600	31	4370	280·1	284	275	277·3	30	4374	280·9	285	275	264·7	30	4386	281·2	284	279	270·9
500	30	5848	272·5	278	267	271·1	30	5856	273·4	278	270	265·2	29	5868	273·0	279	270	263·4
400	30	7604	263·2	272	256	..	29	7623	264·2	268	260	..	28	7626	263·5	267	258	..
300	28	9768	249·9	259	243	..	28	9800	251·6	257	244	..	24	9796	250·6	258	244	..
250	20	11090	240·7	247	234	..	27	11122	242·8	250	237	..	19	11119	241·8	249	233	..
200	19	12616	228·7	233	219	..	26	12678	231·7	243	221	..	15	12658	230·1	236	220	..
175	9	13470	220·8	226	214	..	24	13573	226·3	239	215	..	13	13537	223·6	232	215	..
150	6	14488	215·5	220	209	..	21	14601	219·9	236	207	..	11	14546	217·2	222	209	..
125	..	..	..	..	..	..	18	15777	212·9	233	197	..	8	15733	209·5	215	205	..
100	..	..	..	..	..	..	18	17025	206·7	229	195	..	..	..	..	..	..	..
80	..	..	..	..	..	..	12	18489	203·9	214	190	..	..	..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 1200 hrs. G. M. T.

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1001 mb.)						NAGPUR (965 mb.)						NEW DELHI (973 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	15	304·8	308	301	296·6	31	311	302·1	306	298	296.4	31	210	305.8	311	301	299·0
1000	31	26	..	..	..	..	31	−6	..	..	..	..	31	−40	..	..	..	..
900	31	962	297·4	301	293	291·0	31	930	297·7	303	294	292·2	31	907	301·7	307	297	295·2
850	31	1461	293·4	298	289	288·9	31	1430	294.4	300	290	289·9	31	1413	298·2	303	294	292·6
800	31	1982	289·6	293	286	285·8	31	1954	291·2	298	288	286·5	31	1943	294.3	299	291	289·6
700	31	3106	282·9	287	279	278·7	31	3088	284·8	290	280	279·3	31	3086	287·5	291	283	281·9
600	31	4371	275·8	280	271	270.3	30	4367	277.8	283	274	273·8	31	4374	280.9	284	276	274·5
500	31	5826	267·7	273	263	..	29	5831	269.8	274	267	..	31	5860	273·5	278	269	266·3
400	31	7540	256·0	264	252	..	28	7559	259.9	264	258	..	31	7622	263·8	269	257	..
300	28	9634	240·0	248	233	..	27	9688	244.8	250	239	..	29	9780	249·9	255	244	..
250	25	10878	229·4	235	224	..	23	10967	234.0	243	226	..	28	11088	240·6	247	235	..
200	21	12353	219·0	225	212	..	18	12455	222.0	234	214	..	28	12626	228.8	235	223	..
175	17	13196	212·9	221	207	..	17	13320	216.0	229	208	..	28	13507	221·7	225	216	..
150	15	14149	205·6	217	197	..	17	14288	208.8	224	200	..	27	14496	213·9	220	207	..
125	13	15247	201·5	209	196	..	13	15382	203.7	219	195	..	24	15604	205·9	213	201	..
100	8	16543	199·7	203	193	..	12	16703	199.5	212	191	..	23	16928	199·8	204	196	..
80						..	8	17939	197.6	206	192	..	18	18231	200·7	213	194	..

	PORT BLAIR (997 mb.)						TRIVANDRUM (999 mb.)						VERAVAL (1000 mb.)					
Surface	31	79	300·3	302	297	297·5	31	64	300·2	303	297	296·4	31	8	302·2	305	298	299·5
1000	31	54	..	..	..	..	31	59	..	..	..	..	31	10	..	..	..	..
900	31	980	294·5	297	291	291·0	31	982	293·1	296	290	289·5	31	938	294·9	301	292	291·4
850	31	1474	291·9	294	289	287·4	31	1474	290.2	295	287	286·5	31	1433	291·9	299	289	289·2
800	31	1995	289·2	292	285	283·6	31	1990	287·6	293	282	283·3	31	1956	289·5	295	286	286·1
700	31	3120	283.2	286	278	276·9	31	3109	281·7	289	271	276·8	31	3082	284·2	289	281	278·2
600	31	4390	276·5	281	271	270·6	31	4369	274·8	279	265	269·9	31	4355	277·5	284	274	271·3
500	31	5848	269.0	273	263	..	31	5816	266·6	273	256	..	31	5820	269·3	277	265	264·6
400	31	7575	258·7	264	251	..	31	7526	255·7	265	245	..	31	7547	258·0	263	253	..
300	26	9693	243·7	249	232	..	29	9606	238·3	247	233	..	23	9662	243·0	249	229	..
250	24	10982	235·5	246	224	..	27	10862	229·0	240	219	..	18	10936	232·6	241	220	..
200	21	12490	222·4	239	198	..	25	12321	217·4	227	211	..	17	12425	220·1	234	211	..
175	15	13341	217·4	235	208	..	23	13153	211·3	222	205	..	14	13270	213·2	219	206	..
150	14	14357	210·9	228	203	..	23	14106	204·5	217	196	..	13	14221	205·5	213	199	..
125	9	15452	205·0	221	198	..	22	15162	199·4	214	191	..	11	15287	199·3	206	192	..
100						..	22	16486	201·2	211	191	..	7	16625	200·0	208	195	..
80							17	17843	204·8	211	191	..	5	17939	199·6	209	194	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 1200 hrs. G. M. T.

July, 1960 (Asadha 10—Sravana 9, 1882 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (996 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	48	302·3	305	299	298·3
1000	30	9	..	..	..	..
900	30	943	296·6	300	294	292.4
850	30	1446	293·7	297	290	288·8
800	30	1964	290·7	295	287	286·0
700	30	3096	284·8	293	281	276·7
600	30	4371	277·5	284	271	269·2
500	30	5835	269·4	278	262	..
400	30	7563	258·7	263	253	..
300	26	9678	242·7	251	229	..
250	26	10947	232·2	243	219	..
200	25	12429	221·3	234	210	..
175	23	13258	213.1	228	204	..
150	22	14218	205·8	222	197	..
125	20	15272	199·7	213	194	..
100	16	16601	196·6	201	192	..
80	12	17950	198·3	207	189	..

NOTE : Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273 °A.

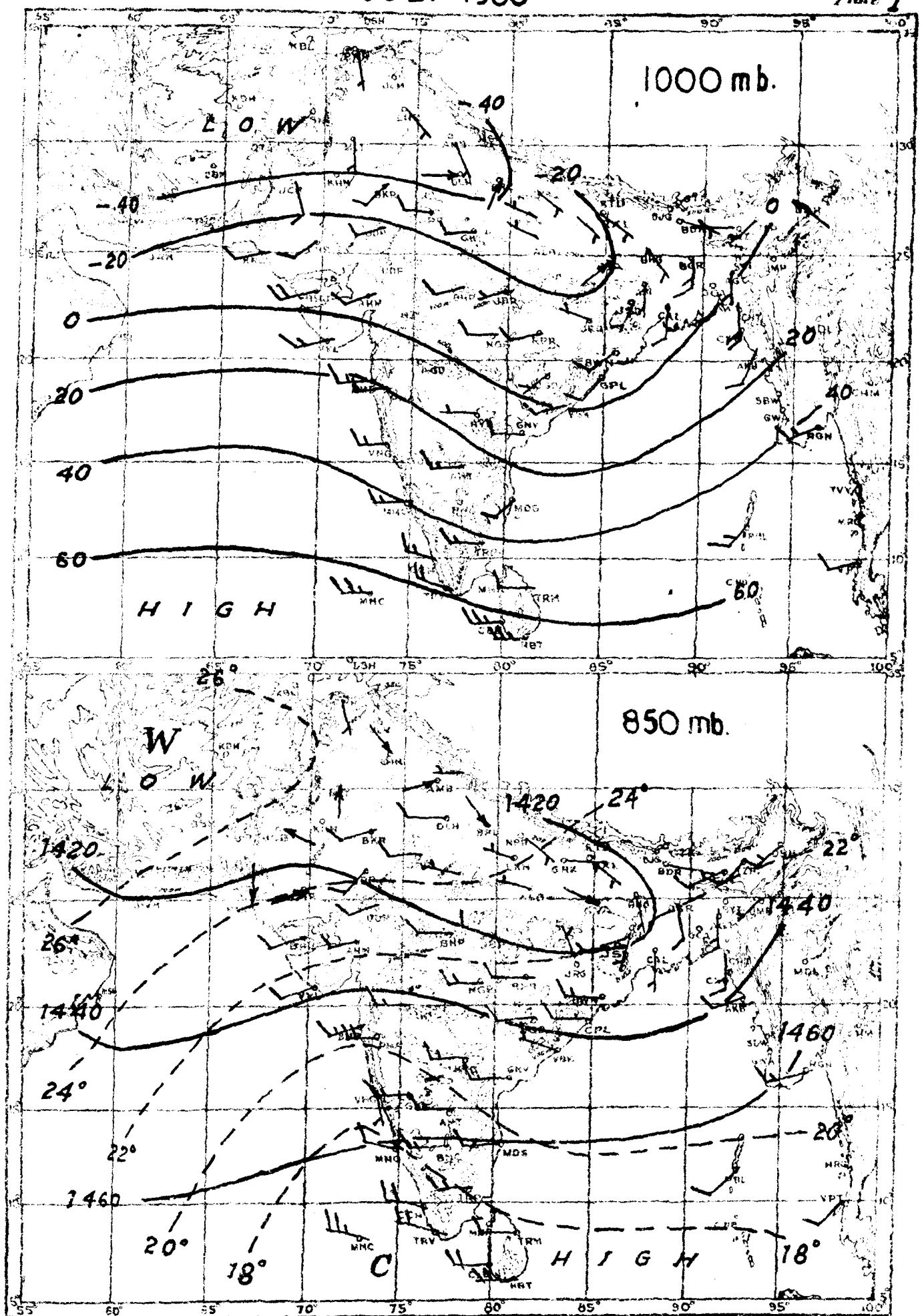
Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S1—1 D.D.G. Obs P/64—10-6-65—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JULY 1960

I.Met.D *Plate I*



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

- - - - - - Isotherms in degrees centigrade ———— Contours in geopotential metres.

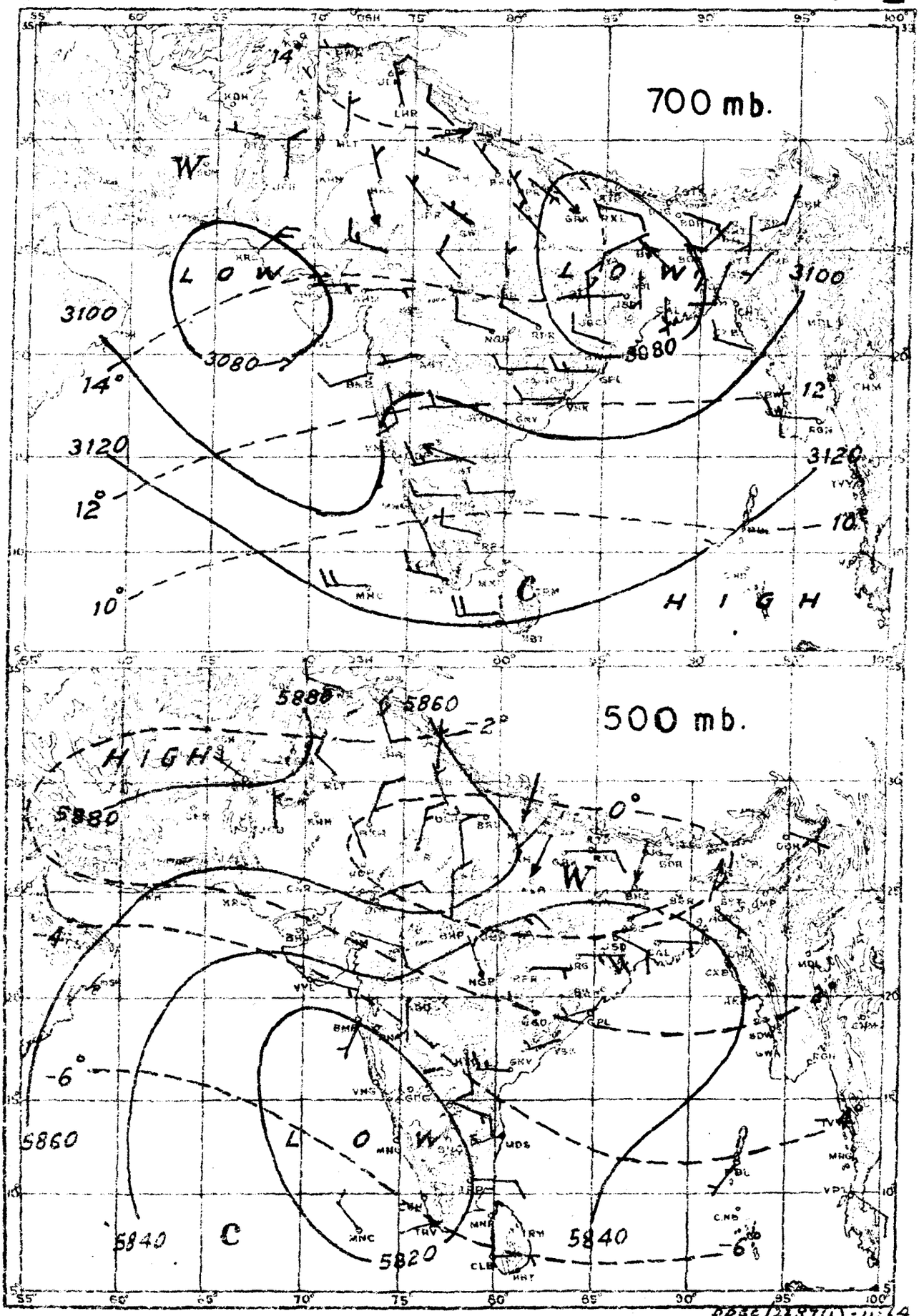
DOGC/2287(ii) : 11.64

G.P.O. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JULY 1960

I.Met.D. *Plate* **II**



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

Isotherms in degrees centigrade — Contours in geopotential metres.

S.PZ.P. POONA, 1853

Registered No. B-309

INDIA WEATHER REVIEW, 1960

Monthly Weather Report

August

Published by authority of the Government of India

Chief features :

(i) Formation of three depressions over the head Bay of Bengal and their subsequent west-northwesterly movement;

(ii) Heavy rainfall over north India and the central parts of the country, resulting in flooding of rivers in west Madhya Pradesh, Uttar Pradesh, Orissa and the Punjab(I); and

(iii) Weak monsoon conditions over the Peninsula during the last three weeks resulting in deficiency of rainfall.

A shallow low developed over coastal West Bengal, north coastal Orissa and adjoining northwest Bay of Bengal on 2nd August. Moving westwards it lay over northeast Madhya Pradesh on 4th and merged into the seasonal low by 7th. Under its influence, active to vigorous monsoon conditions prevailed over west Madhya Pradesh on 4th and 5th. Sagar reported 25cm. on 4th and Indore 16 cm. and Alirajpur 14 cm. on 5th. The heavy rains led to extensive flooding of rivers in the Malwa region, resulting in considerable dislocation of traffic.

In association with the movement of a low pressure wave from central Burma, a low pressure area formed over the head Bay of Bengal on 7th. It concentrated into a depression on 9th morning with centre close to Sandheads and crossed coast near Balasore the same night. Moving westnorthwestwards, it weakened into a low pressure area, which lay over northeast Madhya Pradesh on the 10th morning and over south Uttar Pradesh on the 12th. Thereafter, it weakened and merged into the seasonal trough. This low pressure system caused fairly widespread rain in coastal West Bengal, Orissa and Bihar Plateau from 8th to 10th, in west Madhya Pradesh on 11th, 12th and 14th and in West Uttar Pradesh on 13th and 14th. A few noteworthy amounts reported were : Chandbali 19 cm. on 9th, Sagar 18 cm. on 11th and Orai 24cm. and Jhansi 14 cm. on 14th. According to press reports, the heavy rains caused large scale floods in Ganga which inundated a number of villages in Uttar Pradesh.

A low pressure area developed over the head Bay of Bengal on 10th and concentrated into a depression on 12th with centre at 0830 hrs. IST near Lat. 21.5°N and Long. 89.0°E. It became deep by 14th evening and crossed Sunderbans coast the same night between Saugar Island and Calcutta. Moving westnorthwestwards and gradually weakening, it lay as a depression over northwest Madhya Pradesh and adjoining east Rajasthan on 19th. It weakened thereafter into a low pressure area, moved northnorthwestwards and lay over the Punjab(I) and adjoining northwest Uttar Pradesh on 21st. It became unimportant by 25th. In association with the movement of this depression, heavy to very heavy rain fell in Orissa on 14th and 15th, in Madhya Pradesh between 15th and 18th and in the Punjab(I) on 21st. Some of the noteworthy amounts are: Balasore 26 cm. on 15th, Raigarh 19 cm. on 17th, Allahabad 18 cm. and Pachmarhi and Bhopal 15 cm. each on 18th and Gorakhpur and Patiala 16 cm. each and Ambala 15 cm. on 21st. Following the heavy rains in the catchment areas of Mahanadi river unprecedented floods occurred in Orissa which inundated about five thousand square miles of land and caused misery and suffering to over four million people, besides completely dislocating road, rail, telephone and telegraphic communications. In the Punjab(I), rains and floods were reported to have submerged large areas, dislocated communications and marooned many villages.

Another low pressure area developed over the north Bay of Bengal on 23rd and concentrated into a depression the next day with centre at 0830 hrs. IST near Lat. 21.5°N and Long. 89.5°E. Moving in a northwesterly direction, it crossed coast the same evening and lay over Bihar State with centre near Hazaribagh on 25th morning. Continuing to move northwestwards, it lay over west Uttar Pradesh and the adjoining areas of northeast Rajasthan and of the Punjab(I) on 28th. It weakened thereafter and merged into the seasonal low by the end of the month. In association with the depression, fairly widespread rain with a few heavy to very heavy falls occurred in Bihar Plateau on 24th and 25th, in east Madhya Pradesh on 25th and 26th, in west Uttar Pradesh on 27th and 28th and in the Punjab(I) on 28th. Ambikapur and Varanasi reported 14 cm. of rain each on 25th and 26th respectively. Following the heavy rains, rivers in Uttar Pradesh and the Punjab(I) were in spate and inundated large tracts of land.

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1—2 D.D G. Obs. Poona/65.

Another low pressure area which developed over Gangetic West Bengal and neighbourhood, on 28th moved in a northerly direction to Bihar Plains and adjoining West Bengal on 30th and weakened thereafter. It caused fairly widespread rain in West Bengal and Bihar State between 29th and 31st and in Assam on 30th and 31st. Jammu reported 16 cm. and Gauhati 14 cm. on 30th and Cherrapunji 13 cm. on 30th and 28 cm. on 31st.

The monsoon remained weak over the Peninsula during the last three weeks of the month For the month as a whole, there was deficiency of rainfall over the Peninsula. The deficiency was as much as 50% or more in Andhra Pradesh, the Madras State and Interior Mysore State. In particular, Rayalaseema had a rainfall deficiency of about 90%. The lack of rains was reported to have badly affected the crops at most places in the Peninsula, specially in Andhra Pradesh.

The rainfall for the month was in large excess in the Punjab(I) and west Madhya Pradesh, in moderate excess in Orissa, west Uttar Pradesh and east Rajasthan, in slight excess in Assam and Bihar Plateau and normal in Gangetic West Bengal, east Uttar Pradesh, east Madhya Pradesh, east Gujarat State and the Arabian Sea Islands. It was in slight defect in Bihar Plains, Deccan (including Marathwada) and Kerala, in moderate defect in the Bay Islands, Sub-Himalayan West Bengal, Jammu and Kashmir, west Rajasthan, the Konkan, Vidarbha, coastal Andhra Pradesh, the Madras State, Coastal and south Interior Mysore and in large defect over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Assam, coastal Andhra Pradesh and Telangana, below normal in the Punjab(I), east Rajasthan, west Madhya Pradesh and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in the Bay Islands, below normal in Rayalaseema and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in west Uttar Pradesh, the Punjab(I), east Rajasthan and east Madhya Pradesh, below normal in Jammu and Kashmir and Rayalaseema and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in west Uttar Pradesh and the Punjab(I) and normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose obervations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column. Similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

R. ANANTHAKRISHNAN,
for *Director General of Observatories.*

Poona 5,
The 31st March 1961.

Errata to M.W.R..for August 1960 (Sravana 10 - Bhadra 9, 1882 Saka)

Page No.	Station	Hour	Column	For	Read
Table I - Division					
399	10. Maharashtra		4	0.4	-0.4
Table I - Sub-division					
399	1. Bay Islands		2	+123.7	-123.7
399	25. Madras State		2	+25.8	-25.8
399	26. Coastal Mysore		2	+157.4	-157.4
399	27. Interior Mysore (South)		8	-0.1	+0.1
399	29. Kerala		2	49.1	-49.1
399	29. Kerala		8	+0.1	-0.1
Table II					
400	Dibrugarh (Mohanbari Aerodrome)		23	13	18
400	Sibsagar		11	530.4	530.6
400	Sibsagar		23	13	18
400	Gohpur		6	5.7	25.7
400	Majbat		24	(Blank)	0
400	Gopalpur		13	62.2	65.2
400	Cooch Behar		12	-475.1	-475.7
400	Contai		25	2	0
400	Krishnagar		11	207.2	270.2
400	Balosore		12	+537.4	+537.7
401	Ranchi (C.W.O.)		10	40.7 (b)	40.7 (h)
401	Ranchi (C.W.O.)		17	9.9 (b)	9.9 (h)
401	Daltonganj		12	+175.4	+75.4
401	Dumka		3	+0.6	+0.5
401	Purnea		7	-0.2	+0.2
401	Varanasi (Banaras)		12	+61.5	+61.8
401	Varanasi (Banaras)		17,18	4.6(b),3.9(b)	4.6,3.9
401	Varanasi (Banaras) (Babatpur Aerodrome)		20(a)	0	2
401	Sultanpur		17	5.0	5.9
401	Banda		25	1	0
401	Mainpuri		5	45	4,5
401	Mainpuri		10	35.4	85.4
401	Mainpuri		12	+127.2	+177.2
401	(Foot Note)		-	(a) Mean of 19 days only.	(a) Mean of 30 days.
401	(Foot Note)		-	(b) Total or Mean of 29 days.	(h) Total or Mean of 23 days.
402	Hissar		11	65.9	265.9
402	Bhatinda		17	10.8(c)	10.8(a)
402	Bhatinda		18	8.1(c)	8.1(a)
402	Srinagar (Aerodrome)		26	2	0
402	(Foot Note)		-	(c) Mean of 28 days.	(a) Mean of 30 days.
403	Ratlam		15	4	14
403	Umaria		4	(Not clear)	33.2
403	Kanker		3	+0.8	-0.8
403	Jagdalpur		3	+0.5	-0.5
403	Idar		9	26,29	26,29,31
403	Idar		23	2	0
403	Ahmedabad		23	3	0
403	Dohad		23	2	0
403	Baroda		23	1	0
403	Baroda (Aerodrome)		23	1	0
403	Bhuj (Aerodrome)		3	(Not clear)	+0.2
403	Bhutakia Bhimasar		10	(Not clear)	10.6
403	Bhavnagar		12	-103.3	-103.2
404	Aurangabad		19	-3.9	+3.9
404	Ahmednagar		3	+0.2	-0.2
404	Poona		18	5.3	5.8
404	Sholapur		3	-0.1	+0.3

...2

Page No.	Station	Hour	Column	For	Read
404	Miraj		7	+0.2	-0.2
404	Miraj		11	33.5	33.0
404	Kolhapur		3	+0.5	-0.5
404	Kolhapur		7	+0.4	-0.4
404	Amravati		10	85.3	85.0
404	Brahmapuri		11	318.5	368.5
404	Chanda		4	84.2	34.2
404	Chanda		10	36.6	36.4
404	Visakhapatnam		11	116.6	116.0
404	Kurnool		19	13.7	22.8
404	Pamban		12	+15.0	-15.0
405	Coimbatore		13	1.8	6.8
405	Coimbatore (Peelamedu Aerodrome)		25,27	1,0	0,2
405	Madras		16	..	-0.9
405	Madras		28	0	2
405	Madras (Nungambakkam)		16	-0.9	..
405	Karwar		5	36	30
405	Mangalore (Bajpe Aerodrome)		2	23.5	28.5
405	Bidar		15	3	2
405	Belgaum		20(b)	(Blank)	27
405	Balehonnur		11	503.1	503.6
405	Hassan		11	(Not clear)	45.6
405	Bangalore (Central Observatory)		16	-2.4	-2.3
405	Bangalore (Central Observatory)		28	0	2
405	Kozhikode		17	(Not clear)	8.8
405	Cochin (Naval Air Station)		28	0	8
405	Shillong		4	26.8	26.3
405	Shillong		10	115.5	111.5
405	Mukteswar (Kumaon)	22,23,24		7,24,0	0,7,24
405	Nainital		4	23.7	23.9
405	Nainital		10	265.5	256.5
405	Nainital	22,23,24		1,2,0	0,1,2
405	Joshimath		24	0	1
405	Lokpal		20(a)	(Blank)	0
406	Simla		19	(Not clear)	+1.2
406	Dharamshala		20(a)	(Blank)	0
406	Abu		20(a)	(Blank)	0
406	Pachmarhi		6	92.2	19.2
406	Mercara		13	(Not clear)	+43.3
406	Bokaro		10	...	178.7
406	Hazaribagh		10	187.0	187.8
406	Ramgarh		22	2	0
406	Panchot Hills		24	1	0
406	Durgapur		11	218.3	218.4
406	Hirakud		5	20.2	20,21
406	Mukhim		20(b)	3	31
406	Tehri		4	36.6	36.7
407	Chepua		11	544.2	544.0
407	Angbung		4	32.3 (b)	32.3 (d)
407	Gezing		13	56.	56.8
407	(Foot note)		-	(Not given)	(d) Mean of 27 days.
Table III					
408	Kondul	1730	27	3	13
408	Dibrugarh (Mohanbari Aerodrome)	0530	4	1001.3	1001.5
408	North Lakhimpur	1730	8	27.3	27.8
408	Tezpur (P.B.O)	0530	9	52.6	25.6
409	Goalpara	0830	2	0830	0830(a)
409	Silchar (Kumbhigram Aerodrome)	0830	25	9	0
409	Lumding	0830	21	2	8
409	Cooch Behar	0830	20	8	2

Page No.	Station	Hour	Column	For	Read
409	Jalpaiguri	1730	5	988.3	988.8
409	Jalpaiguri	1730	20	(Blank)	6
411	Jamshedpur	0830	11	35	85
411	Ranchi	0830	17	1	0
411	Purnea	0830	20	2	3
411	Purnea	1730	20	3	0
411	Forbesganj	0830	17	1	0
411	Forbesganj	1730	17	1	0
411	Motihari	1730	19	0	1
412	Ballia	0830	8	26.3	26.9
412	Varanasi (Banaras) (Babatpur Aerodrome)	0530	5	989.4	989.8
412	Fatehpur	0830	12	+0.4	+4
412	Kanpur	0830	12	+0.1	+1
413	Kanpur (Aerodrome)	1730	4	999.7	996.7
413	Lucknow	0830	14	-0.8	+0.8
413	Agra (Aerodrome)	0830	19	11	4
413	New Delhi	0230	8	28.9	25.9
414	New Delhi (Palam Aerodrome)	1430	5	972.2	972.2
414	Patiala	1730	10	33.0	32.8
414	Ambala (P.B.C)	0530	22	5	9
414	Ambala Aerodrome)	0530	22	54	5
414	Bhatinda	1730	22	(Blank)	8
415	Jammu (Aerodrome)	1130	9	25.9	25.0
415	Sri Ganganagar	0830	5	978.3	978.8
415	Sri Ganganagar	1130	5	979.4	979.3
415	Jaisalmer	0830	5	(Not clear)	972.2
415	Nagaur	1730	15	9.0	9.9
415	Barmer	1730	22	2	3
415	Barmer	2330	22	3	2
415	Pilani	1730	27	1	2
415	Jaipur (Sanganer Aerodrome)	0830	4	1000.1	1000.0
416	Ratlam	0830	21	2	0
416	Ratlam	1730	21	4	0
416	Alirajpur	0830	21	4	0
417	Chhindwara	0830	19	2	0
417	Jabalpur	2330	9	23.3	23.5
417	Mandla	1730	8	23.3	24.3
417	Pendra	1130	11	69	85
417	Pendra	1130	13	8.9	8.0
417	Pendra	1730	17	5	0
417	Ambikapur	0830	8	23.2	23.6
417	Ambikapur	0830	22	0	2
417	Ambikapur	0830	23	(Blank)	0
417	Champa	1730	17	(Blank)	0
417	Raigarh	0830	7	20.4	26.4
417	Raigarh	0830	27	2	1
417	Raigarh	1730	18	0	20
417	Raipur	0530	5	963.1	967.1
417	Raipur	0830	11	83	88
417	Raipur	2330	7	25.2	25.6
417	Jagdalpur	0830	8	22.2	22.7
418	Ahmedabad	0230	5	995.7	995.6
418	Porbander (Aerodrome)	1130	4	1004.4	1004.0
418	Jamnagar	0530	5	993.8	998.8
418	Jamnagar	0830	28	(Blank)	0
419	Bhavnagar	0830	10	29.8	29.3
419	Veraval	0530	5	1000.5	1001.5
419	Veraval	1130	4	1004.6	1004.8

Contd.4

Page No.	Station	Hour	Column	For	Read
419	Veraval	2330	9	25.3	25.2
419	Bombay (Colaba)	1730	7	26.6	27.6
419	Bombay (Santacruz Aerodrome)	0830	14	-0.6	+0.6
419	Aurangabad	0830	25	26	29
420	Poona	0830	20	(Blank)	0
420	Sholapur	1730	15	3.1	13.1
420	Miraj	1730	10	25.4	23.5
420	Miraj	1730	19,22	1,3	0,0
420	Kolhapur	1130	19	3	0
420	Kolhapur	1730	10	24.5	24.4
420	Buldhana	0830	19	(Blank)	0
421	Brahmapuri	0830	10	88.3	28.3
421	Brahmapuri	0830	24	0	10
421	Chanda	0830	6	0.4	-0.4
421	Nellore	0830	6	0.6	-0.4
421	Rentachintala	0830	5	993.9	993.3
421	Nidadavolu	0830	20	6	0
421	Kakinada	0830	14	-0.6	-0.8
421	Kakinada	1730	27	2	0
421	Visakhapatnam	0530	15	9.4	6.4
421	Visakhapatnam	0530	21	1	0
421	Visakhapatnam	0830	14	-0.8	-0.6
421	Ramagundam	1730	11	65	64
421	Nizamabad	0830	21	1	0
422	Bhadrachalam	0830	25	3	8
422	Mathurai	1730	2	730	1730
422	Coimbatore	1730	23	3	7
422	Coimbatore (Peelamedu Aerodrome)	1130	28	0	1
422	Cuddalore	0530	5	004.1	1004.1
422	Cuddalore	1730	13	6.0	6.1
423	Mangalore	0830	28	0	2
423	Chitaldrug	1730	28	(Blank)	0
424	Bangalore (Central Observatory)	0830	4	1488.3	1488.2
424	Trivandrum	1730	13	5.9	5.3
424	Darjilling (Raj Bhavan)	0830	14	+2.4	-2.4
424	Kalimpong	0830	6	+1.1	-1.1
425	Pachmarhi	0830	4	1434.9	1439.9
425	Pachmarhi	1730	4	1424.6	1421.6
426	Panchat Hills	0830	11	5	85
426	Hirakud	1730	4	999.8	997.8
426	Dharoi	1730	9	24.5	25.5

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Page No.	Station	Time in I.S.T	Height in Km.	Entry under column	Existing Entry	Correct Entry
Table IV						
428		In the second line			41	42
428		In the third line			13	12
429	Visakhapatnam			Approximate times of flights (IST)	1730	1730*
433	Bhubaneshwar	2330	4.5	v	6.6	6.7
434	Chikalthana	0530	3.0	V	5.9	7.9
435	Dum Dum	1130	5.4	v	3.0	3.1
437	Jabalpur	2330	0.6	V	7.4	7.8
439	Minicoy	2330	3.6	v	6.3	3.6
443	Veraval	1130	1.5	v	1 9	10.9
444	Baghdogra	0530	14.1	V	1.49	14.9
444	Dum Dum	0530*	10.5	v	8.4	8.6
444	Gwalior	0530	10.5	D	306	360
444	Madras	0530	16.2	v	35.4	35.5

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	403·7	112	32·7	25·8	87	81	6·2	5·0
	+42·8		+1·1	+0·6	+1		−0·2	
2. West Bengal	289·6	78	32·0	26·5	88	86	6·1	6·1
	−81·7		+0·4	+0·7	+1		0	
3. Orissa	474·9	147	31·1	26·0	85	83	6.6	6·8
	+151·6		0	+0.3	+3		+0·8	
4. Bihar	337·5	101	32·1	25·9	85	81	6·5	6·0
	−7·7		+0·7	+0·4	+3		+0·4	
5. Uttar Pradesh	355·9	116	32·2	25·8	88	81	5·6	5·9
	+48·8		+0·1	+0·3	+5		+0·7	
6. Punjab (India) (Including Delhi)*	350·5	190	33·4	26·9	87	72	5·5	5·0
	+166·1		−1·1	+0·7	+11		+1·2	
7. Jammu and Kashmir.	31·4	52	26·0	13·6	61	54	4·1	3·9
	−28·7		+0·9	+0·9	−10		+0·2	
8. Rajasthan	161·8	108	32·3	25·3	81	61	5·3	5·4
	+12·8		−0·7	+0·3	+5		+0·5	
Sub-Division								
1. Bay Islands	290·1	70	29·5	24·9	85	89	7·3	7·4
	+123·7		+0·9	+1·2	+1		+0·7	
2. Assam (Including Manipur, Tripura).	403·7	112	32·7	25·8	87	81	6·2	5·0
	+42·8		+1·1	+0·6	+1		−0·2	
3. Sub-Himalayan West Bengal	262·2	52	31.6	26·3	95	79	5·4	5·3
	−246·0		−0.1	+0·7	0		+0·1	
4. Gangetic West Bengal.	301·3	96	32·1	26.5	86	85	6·3	6·4
	−11·3		+0·6	+0·7	+1		0	
5. Orissa	474·9	147	31·1	26·0	85	83	6·6	6·8
	+151·6		0	+0.3	+3		+0·8	
6. Bihar Plateau	423·5	117	31·5	25·1	86	82	6·7	6·7
	+61·6		+0·6	+0·3	+3		+0·4	
7. Bihar Plains	283·7	85	32·6	26·5	84	81	6·3	5·3
	−51·0		+0·7	+0·5	+2		+0·4	
8. Uttar Pradesh, East.	309·6	101	32·6	26·4	88	81	6·3	6·3
	+3·5		+0·3	+0·6	+4		+0·7	
9. Uttar Pradesh, West.	408·1	132	31·9	25·2	88	81	4·7	6·4
	+99·9		−0·3	0	+7		+0·8	
10. Punjab (India) (Including Delhi).	350·5	190	33·4	26·7	87	72	5·5	5·0
	+166·1		−1·1	+0·7	+11		+1·2	
11. Himachal Pradesh	397·8	..	31·1	23·1	88	75	5·9	5·6
	..		..	..	..		..	
12. Jammu and Kashmir.	31·4	52	26·0	13·6	64	54	4·1	3·9
	−28·7		+0·9	+0·9	−10		+0·2	
13. Rajasthan (West)	52·1	54	35·5	26·5	77	55	4·3	4·6
	−44·1		+0·3	+0·5	+3		+0·2	
14. Rajasthan (East)	305·7	138	29·2	24·2	86	77	6·6	6·4
	+83·9		−1·6	0	+7		+0·9	
15. Madhya Pradesh (West).	486·7	168	28·3	22·9	90	83	7·6	7·4
	+196·7		−1·2	−0·2	+5		+1·2	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
9. Madhya Pradesh	449·3	138	28·4	23·0	91	84	7·5	7·4
	+122·8		−1·0	0	+6		+1·2	
10. Bombay	180·8	69	29·5	23·6	90	76	7·2	6·9
	−79·8		0·4	−0.2	0		+0·5	
11. Andhra Pradesh	52·6	41	34·0	25·3	70	59	5·6	6·4
	−75·9		+1·3	+0·3	−5		−0·4	
12. Madras State	42·5	62	34·6	25·1	69	56	5·1	5·8
	−25·8		+0·7	+0·5	−3		+0·5	
13. Mysore	154·4	64	28·7	21·4	85	63	6·2	6·3
	−87·9		+0·1	+0·4	+1		+0·6	
14. Kerala	257·1	84	28·9	23·4	89	82	6·1	5·8
	−49·1		+0.5	−0·1	+1		−0·1	
Sub-Division—*Contd.*								
16. Madhya Pradesh (East).	395·9	105	28·5	23·4	91	85	7·5	7·4
	+17·1		−0·7	+0·2	+7		+1·1	
17. Gujarat	179.1	90	30·0	24·1	89	76	7·3	6·9
	−20·9		−1·0	−0·3	0		+0·6	
18. Saurashtra and Kutch.	32.7	31	30·8	24·1	88	79	7·2	7·2
	−71·3		−0·4	−0·2	−5		+0·9	
19. Konkan	279·8	61	28·9	24·6	86	83	7·2	5·9
	−175·2		−0·1	−0·2	+1		+0·1	
20. Maharashtra (Including Marathwada)	204·2	86	28·7	21·3	73	71	6·5	6·7
	−33·8		−0·3	0	+2		+0·2	
21. Vidarbha	136·2	58	29·9	23·1	84	72	6·8	6·9
	−97·7		−0·5	−0·4	+3		+0·7	
22. Coastal Andhra Pradesh.	69.7	54	34·6	26·6	71	63	5·6	6·5
	−58·8		+1·3	+0·8	−5		−0·4	
23. Telangana	65·1	42	31·9	23·7	73	59	5·7	6·4
	−90·7		+1·8	+0·9	−5		−0·3	
24. Rayalaseema	10·2	9	34·3	22·8	65	49	5·3	6·3
	−100·2		+0·7	−1·7	−6		−0·6	
25. Madras State	42·5	62	34·6	25·1	69	56	5·1	5·8
	+25.8		+0.7	+0·5	−3		+0·5	
26. Interior Coastal Mysore	370·9	70	29·2	23·3	90	82	7·0	6·8
	+157·4		+0·4	−0·1	0		+0·4	
27. Interior Mysore (North)	47·5	36	30·0	22·0	80	64	6·8	7·1
	−85·8		+0·4	+0·5	−1		+1·1	
28. Interior Mysore (South)	119·5	68	26·3	20·2	86	66	6·6	6·5
	−55·5		−0·3	+0·4	+4		−0·1	
29. Kerala	257·1	84	28·9	23·4	89	82	6·1	5·8
	49·1		+0·5	−0·1	+1		+0·1	
30. Arabian Sea Islands	126·1	92	30·1	25·1	81	78	5·1	6·3
	−11·6		+0.6	−0·1	+1		−0·1	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29		
Bay Islands																															
Maya Bandar	29·8	...	31.2	6	25·2	...	22·7	26	139·3	256·0	...	40·0	18	20	...	19·0	14·5	...	0	25	0	0	0	0	0	0	0	0	0		
Long Island	30·5	...	32·2	6	24.8	...	23·3	8,28	214·4	418·2	...	93·2	8	20	...	3.6	2·0	...	0	22	0	0	0	0	0	0	0	0	0		
Port Blair	29·5	+0·9	30·2	22	24·9	+1·2	22·8	31	181·0	290·1	−123·7	88·8	26	16	−4·9	20.9	17.4	−4.2	3	23	0	0	0	0	0	0	0	0	0		
Car nicobar	30.4	...	31·3	5,23	25.4	...	22·8	30	56.0	115·4	...	23·6	27	12	...	9·0	6·3	...	2	15	0	0	2	0	0	0	0	0	0		
Nancowry	30·0	...	30.6	9 days	25·9	...	23·7	26	34·3	101.3	...	27.0	26	11	...	...	0	...	0	13	0	0	2	0	0	0	0	0	0		
Kondul	29·4	...	30·3	18	25.0	...	23·3	11	61·7	149·9	...	24·6	11	17	...	11·0	8·8	...	0	22	0	0	2	0	0	0	0	0	0		
Assam (Including Manipur, Tripura)																															
Pasighat	32·5	...	36·7	10	24·6	...	22·2	8	99·5 (g)	251·3 (c)	...	68·0	8	13	...	3·6	3·6	...	1	17	0	0	6	0	0	0	0	0	0		
Digboi	33·4	...	37·7	10	25·1	...	23·5	25	26·4	444·2	...	98·2	5	12	...	...	...	...	0	13	0	0	0	0	0	0	0	0	0		
Dibrugarh	32.7	+2·0	36.4	14	25·1	+0·7	23·3	10,31	27·4	497·8	+46·7	84.2	15	18	−0.7	2·6	1·7	+0·1	1	20	0	0	8	0	0	0	0	0	0		
Dibrugarh (Mohanbari Aerodrome).	32·5	...	35.6	10,21	25·2	...	23.3	10,31	30·9	489·8	...	94·6	3	15	...	2·1	1 5	...	1	23	0	0	13	0	0	0	0	3	0		
North Lakhimpur	32·4	...	36.5	10	25.3	...	22.9	8	52·9	500·8	...	87·9	31	17	...	...	...	...	2	21	0	0	13	0	0	0	0	0	0		
Sibsagar	32.9	+1.3	36.9	10	25·7	+0·3	24·2	8	21·9	530·4	+114·3	99·0	25	21	+2·9	3·9	3.4	+0.2	0	23	0	0	13	0	0	0	0	0	0		
Jorhat	33·5	...	36.2	21	25·6	...	23·3	11	68·3	248·5	...	43·2	8	15	...	...	...	...	0	18	0	0	13	0	0	0	0	0	0		
Golaghat	33.7	...	36.7	9,10	25.6	...	23.9	3 days	32·1	313·0	...	79·0	11	13	...	...	...	...	0	15	0	0	0	0	0	0	0	0	0		
Gohpur	33.0	...	35·4	14,16,22	5·7	...	23·3	29,30,31	13·2	225·5	...	40.8	28	10		5·1	3·8	...	0	10	0	0	0	0	0	0	0	0	0		
Tezpur	32·7	+0.8	35·6	10	25.9	+0·5	22·5	4 days	2·7	288·4	−42·3	41·4	6	17	+1·1	5·0	4·2	+1·9	1	20	0	0	0	0	0	0	0	0	0		
Tezpur (P.B.O.)†	32·9	...	35.6	10	26·1	...	24·4	12	0·5	306·1	...	66·3	18	14	...	...	...	...	1	18	0	0	9	0	0	0	0	0	0		
Majbat	...	...				...	...		19·2	359.6	...	61.4	1	17	...	6·0	3·7	...	0	22	0	0	14		0	0	0	0	0		
Chaparmukh*	...																														
Tangla	34·1	...	36·6	14	25·6	...	22·1	17	13·0	234.1	...	33·4	31	15	...	1·7	0·3	...	0	16	0	0	2	0	0	0	0	0	0		
Gauhati	33·1	+0·7	35·7	14	26.4	+0·8	24·6	26,30	83·6	595·1	+334.5	143·1	30	14	+0·9	1·2	1·0	−1·1	0	18	0	0	1	0	0	0	0	0	0		
Gauhati (Bhorjor Aerodrome).	33·1	...	35.6	10	26·0	...	24.8	17,29	87·3	375·8	...	129·2	29	14	...	7·5	4·6	...	1	21	0	0	25	0	0	0	0	0	0		
Rangiya	34·1	...	37·2	23	24.9	...	23.3	29	6·0	360·8	...	100.8	6	13	...	...	...	...	0	13	0	0	0	0	0	0	0	0	0		
Goalpara	33·4 (a)	...	36.2	23,24	26·1 (a)	...	21·3	1	62·1	209·9	...	62·2	29	14	...	4.1 (b)	3.0 (b)	...	0	19	0	0	0	0	0	0	0	0	0		
Dhubri	31·6	+1.4	35.3	15	27·1	+1·3	25·4	17	47·4	107·9	−229·7	30·6	26	11	−3·6	1·4	0·9	−4·7	1	14	0	0	3	0	0	0	0	0	0		
Dhubri (Rupsi Aerodrome).	32·7	...	35.3	23	26·0	...	24·8	18	83·5	174·3	...	37·4	17	13	...	5·7	3·5	...	1	18	0	0	11	0	0	0	0	0	0		
Tura	30·2	...	31.7	14	21·4	...	20.5	17	161·2	254·8	...	37·3	31	15	...	6·5	3·9	...	0	21	0	0	0	0	0	0	0	0	0		
Agartala	32.2	...	34·2	23	25·1	...	24.3	13,31	124·1	279·4	...	98·9	23	13	...	10.6	8·5	...	2	25	0	0	12	0	0	0	0	0	0		
Kailashar	33·4	...	35.5	22	25·2	...	23.4	13	104·4	230·1	...	30·1	15	16	...	6·0	3·9	...	0	26	0	0	23	0	0	0	0	0	0		
Silchar	32·0	+0·1	34·5	14	25·2	+0·3	23·4	12	49·0	556·0	+41·4	135·8	20	23	+0·8	3·3	1.8	−0·6	0	27	0	0	14	0	0	0	0	0	0		
Silchar (Kumbhigram Aerodrome)	33·3	...	36·8	14	24·6	...	23·1	21	56·2	489·7	...	72·4	7	22	...	6·4	5·7	...	0	25	0	0	17	0	0	0	0	1	0		
Imphal	29·3	...	31·7	22	22.3	...	20·8	20,30	29·2	207·3	...	31·4	8	17	...	6·5	3·8	...	1	20	0	0	10	1	0	0	0	0	0		
Hailong	29·7	...	32·2	22	22·1	...	21·0	31	19·2	354·7	...	70·3	3	22	...	...	...	...	0	24	0	0	4	0	0	0	0	0	0		
Lumding	34·0	+1·7	35.9	14	25.2	+0·4	22·3	5	53·0	250.0	+44·8	56·0	20	12	+0·7	3·9	2·3	...	0	12	0	0	0	0	0	0	0	0	0		
Sub Himalayan—West Bengal																															
Cooch Behar	32·9	...	35·4	23	26·2	...	24·7	18	87·1	127·3	−475·1	37·8	27	11	−7·7	5·8	3·1	...	0	15	0	0	16	1	0	0	0	0	0		
Jalpaiguri	30·6	−1·0	34·8	14	25·9	+0.7	23·6	21	148·6	440·4	−201·5	124·0	27	16	−4·4	9·9	6·8	+4·1	0	18	0	0	9	0	0	0	0	0	0		
Bagdogra	31·9	...	34·9	14	25·2	...	23·8	29	53·7	432·1	...	80·4	31	21	...	13·3	10·5	...	0	23	0	0	14	0	0	0	0	0	0		
Malda	32·6	+0·9	35·2	14	26·8	+0·6	25·2	31	127·0	219·0	−60·9	48·4	7	13	−1·6	9·8	8·1	+0·5	0	20	0	0	10	0	0	0	0	0	0		
Gangetic West Bengal																															
Dum Dum	32·5	...	35·5	1	26·4	...	24·6	27	122·2	301·8	...	34.6	15	19	...	10·6	8·1	...	0	26	0	0	12	0	0	0	0	0	0		
Calcutta	32·4	+0·7	35·0	13	26·8	+1·1	25·4	16	163·3	366·1	+37·9	38·6	27	21	+3·0	9·4	5·9	+0·4	0	26	0	0	18	0	0	0	0	3	0		
Barrackpore (Arodrome)	32.4	...	34·1	14 22,23	26·2	...	24·5	27	117·3	269·6	...	35·5	27	22	...	...	...	...	0	25	0	0	12	0	0	0	0	0	0		
Saugor Island	30·7	+0·2	32·8	22	26·9	+0·5	21·4	16	162·4	359·6	+22·3	73·9	15	18	+1·7	22·0	23·1	+6·0	2	24	0	0	9	0	0	0	0	0	0		
Sandheads	30·7	...	35·8	22	27·3	...	25·6	27	129·8	300·8	+76·3	52·0	28	15	+3·0	...	...	...	0	21	0	0	3	0	0	0	0	0	0		
Contai	31·1	...	34·4	21	26.6	...	24·3	28	121·1	540·0	...	169·1	15	14	...	9·7	9·0	...	0	17	0	0	0	0	2	0	0	0	0		
Midnapore	32·0	+0·2	34·8	20	26·2	+0·4	22·3	16	148·9	295·4	−28·5	42·4	10	17	+0·2	5·9	4·6	+1·1	0	19	0	0	0	0	0	0	0	0	0		
Purulia	31·3	...	34·4	21	25.5	...	24.1	28	201·0	403·4	...	118·8	29	19	...	6·9	5·0	...	0	23	0	0	1	0	0	0	0	0	0		
Bankura	...	...	...	...	...	...	...	...	...	314·8	+6·7	78·0	28	17	+1·0	...	...	...	0	20											
Burdwan	30·3	−1·5	...	...	26·5	+0·4	23·3	31	109·4	104·6	−118·2	31·0	3	17	+0·8	7·0 (a)	5·3 (a)	+1·6	2	20	0	0	2	0	0	0	0	0	0		
Krishnagar	32·9	+1·0	35·4	22	26·7	+0·9	25·6	16	190·4	207·2	+6·5	55·4	7	19	+3·7	4·2	3·8	−1·8	0	26	0	0	6	0	0	0	0	0	0		
Asansol	32·1	+0·5	33·9	21,22	26·1	+0·8	24·2	21	50.7	290.3	−47·0	152·1	21	19	+2·0	8·5	6·8	−0·8	1	25	0	0	14	0	0	0	0	0	0		
Suri	32·6	...	36·6	4	26·2	...	24.4	17	118·0	250·0	...	34·2	7	15	...	8·8	7·1	...	1	25	0	0	11	0	0	0	0	0	0		
Berhampore	32.6	+0·9	35·1	21 23	26·6	+0·6	25·0	18	138·3	213·4	−76·4	39·6	4	16	−0·3	3·5	2.3	−2·5	0	19	0	0	1	0	0	0	0	0	0		
Orissa																															
Baripada	32·2	...	35·5	22	25·9	...	23·8	24	201·2	562·4	...	198·2	15	17	...	3·6	2·2	...	1	22	0	0	16	0	0	0	0	0	0		
Balasore	31·6	+0.3	33·9	21	26·3	+0·5	24·2	25	338·1	836·4	+537·4	255·2	15	16	+1·2	12·1	7·1	+1·3	0	19	0	0	15	0	0	0	0	0	0		
Chandbali	31·2	−0·1	34·4	21	25·8	0	23·9	6days	168·6	549·7	+177·1	194·3	9	14	−1·8	10·6	11·0	+0·4	0	17	0	0	1	0	0	0	0	0	0		
Cuttack	31·6	−0.1	35·1	21	25·9	+0·3	23·8	9, 29	100·8	258·1	−82·3	56·2	9	17	+1·2	8·5	6·9	+3·4	0	22	0	0	3	0	0	0	0	0	0		

(a) Total or Mean of 30 days. (b) Mean of 29 days. (g) Mean of 24 days. † Observatory closed on 30-8-60, observations for 29 days. *Data not reliable. (c) Mean of 28 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Orissa—*contd.*																													
Bhubaneswar	30.9	...	34·2	21	25·5	...	23·2	29	250.2	379·8	...	69·4	9	17	...	16·1	13·3	...	0	24	0	0	12	0	0	0	0	2	0
Puri	31·1	+0·2	34·2	1	27·1	+0·7	24·5	9	44·0	184·0	−93·4	38·4	9	11	−1·9	20·0	18·0	+2·1	0	16	0	0	3	0	0	0	1	0	0
Gopalpur	31·7	+0·7	34.6	12	26·4	+0·4	24·3	29	49·2	206·7	+11·1	76.8	30	10	−0 8	16·8	12·6	+0·2	2	19	0	0	10	0	0	0	0	0	0
Koraput	24·5	...	27·8	4 days	21·4	...	19·4	1	118·7	361·8	...	49·0	16	22	...	...	...	...	0	22	0	0	0	0	0	0	0	0	0
Titilagarh	30·1	...	33·4	21	24·4	...	22·8	11	160·6	324·6	...	70·1	22	13	...	5·2	3·8	...	0	13	0	0	6	0	0	0	0	0	0
Bolangir	31·2	...	38·4	8	24·8	...	23·7	17	134.7	399·4	...	116·0	16	18	...	6·3	8·0	...	0	20	0	0	0	0	0	0	0	0	0
Phulbani	28·5	...	31·7	20	23·5	...	21·9	26	130·5	342·9	...	44·1	22	14	...	8·7	7·0	...	1	19	0	0	0	0	0	0	0	0	0
Angul	30.5	−0·4	33·8	20	25·5	+0·6	23·9	9,16	173·8	515·4	+221·8	97·0	16	14	−1·1	13.2	9·8	+1·9	0	19	0	0	6	0	0	0	0	0	0
Keonjhar	29·4	...	31.7	9,21,24	23·7	...	21·8	16	236·9	518·6	...	162·0	15	16	...	8·3	7.3	...	0	24	0	0	3	0	0	0	0	0	0
Sambalpur	29·9	−0·5	32·9	21	24·7	−0·2	22·3	16	209·6	774·1	+290·5	290·7	16	18	−0·9	7·9	8·5	+2·7	1	25	0	0	4	0	0	0	0	0	0
Jharsuguda	30·1	...	32·3	20,22	24·8	...	23·7	10,21	138.3	657·9	...	161·6	16	19	...	11·0	9·1	...	0	26	0	0	16	0	0	0	0	0	0
Bihar Plateau																													
Jamshedpur	32·2	+0·6	34·5	22	26·2	+0·6	24·1	16	161·6	444·4	+53·0	77·0	29	20	+2·0	9.3	7·2	+0·8	0	25	0	0	8	0	0	0	0	0	0
Jamshedpur (P.B.O.)	31·7	...	34·1	20	25·6	...	23·6	16	153·8	422·6	...	86·2	29	19	...	9·1	6·8	...	1	25	0	0	18	0	0	0	0	0	0
Chaibasa	31·4	+0·1	34·0	24	25·4	+0·5	23·3	29	109·3	481·4	+170.5	66.2	15	17	+0·4	4·3	2·9	−0·5	0	19	0	0	7	0	0	0	0	0	0
Ranchi	30·0	+1·5	32·2	27	20·6	−2·1	15·4	17	89·6	463·7	+112·2	77·0	25	18	−0·6	5·7	4·2	−3·2	0	21	0	0	3	0	0	0	0	0	0
Ranchi (C.W.O.)	28.7	...	31·0	15	23·4	...	22·1	13	(b) 40·7	475·3	...	120·0	8	18	...	(b) 9·9	7·6	...	0	23	0	0	11	0	0	0	0	0	0
Daltonganj	32·7	+1·2	34·8	1	25·5	+0·6	24·8	28,29	130·5	418·5	+175·4	41·6	10	19	+2·6	...	...	...	1	24	0	0	0	0	0	0	0	0	0
Hazaribagh	29·5	+0·6	32·2	21	23·4	+0·5	22·0	13	186.7	565·9	+230·4	77·5	13	20	+2·4	10·4	8·3	−1·2	1	25	0	0	14	1	0	0	0	0	0
Dhanbad	31·2	...	33.2	21,23	25·3	...	23·6	20	227·3	329.4	...	55·6	29	18	...	9.6	7·2	...	0	30	0	0	9	0	0	0	0	0	0
Dumka	31·9	+0·6	34·4	22	24·8	−0 5	23.2	17	82.4	216.5	−112·2	48.2	30	13	−4·6	(a) 7·5	(a) 6·4	+3·0	0	20	0	0	9	0	0	0	0	0	0
Bihar Plains																													
Purnea	32·8	+1·1	35·2	14	26·0	−0·2	23·9	31	153.8	242.2	−91·8	47.4	31	15	−1·2	6·6	4·2	+0·5	0	18	0	0	6	0	0	0	0	0	0
Forbesganj	34·0	...	36·7	15,22	25·7	...	21·4	19	62.0	213.6	...	73·6	12	15	...	9·4	6·9	...	1	20	0	0	18	0	0	0	0	0	0
Darbhanga	33·7	+2·0	36·2	50	26·7	+0·5	23·5	18	109.7	235·6	−107·5	94·2	30	10	−3·8	8·9	7·0	+1·9	1	13	0	0	7	0	0	0	0	0	0
Motihari	30·9	−1·0	33·5	16	26·8	+1·1	24·9	29	229·9	304·3	−25·1	58.0	30	13	−0·2	3·2	2·0	−4·1	0	15	0	0	0	0	0	0	0	0	0
Muzaffarpur	...	...	...	...	...	...	...	...	...	183·5	−135·5	50·8	27	5	−8·6	...	...	...	0	5	0	0	0	0	0	0	0	0	0
Chapra	33·6	...	39·2	20	26·6	...	23·7	3	74.3	196·7	−89·8	38·0	29	11	−2·4	2·9	1·6	...	0	16	0	0	5	0	0	0	0	0	0
Arrah	...	...	...	...	...	...	...	...	...	192·2	−127·1	31·8	31	17	+2·4	...	...	...	0	17	0	0	0	0	0	0	0	0	0
Patna	33·2	+1·5	34·9	15	27·0	+0·5	24·7	6	32.6	223·2	−109·3	64·4	29	10	−3·9	7·3	6·6	+0·3	0	17	0	0	0	0	0	0	0	0	0
Patna (Aerodrome)	32·7	...	34·7	20	26·5	...	24·7	6	71.3	216·3	...	60.0	29	14	...	9·5	7·2	...	0	18	0	0	8	0	0	0	0	0	0
Dehri	32·3	...	35·0	1	26·3	...	23·9	24	44.4	314·1	−21·7	69.0	24	20	+5·4	5·6	4·9	...	0	22	0	0	16	0	0	0	0	0	0
Gaya	32·3	+0·1	35·7	1	26·1	+0·4	24·0	6	187·2	523.2	+173·9	115·8	29	17	+1·3	10.3	8·1	−0.4	2	20	0	0	22	0	0	0	0	2	0
Jamui	32·9	...	35·3	15	25·5	...	23·7	18	100·2	425·2	...	168·8	30	16	...	8·3	6·5	...	0	22	0	0	2	0	0	0	0	0	0
Bhagalpur	32·7	...	34·6	14,22,23	25·8	...	24·4	7,17	49 1	219·6	...	48·9	29	18	...	8·0	6·6	...	0	26	0	0	18	0	0	0	0	0	0
Sabour	32.5	+0·8	33·7	20	26·6	+0·4	25·1	31	55·6	230·0	−36·9	28.6	6	18	+3·0	10.0	7.8	−1·2	2	25	0	0	0	0	0	0	0	0	0
Uttar Pradesh (East)																													
Gonda	32·3	+0·2	35·7	16	26·6	+0·8	24·4	26	94·8	278.7	−118·8	44·4	28	17	+3·5	4·8	3·5	−2·3	0	18	0	0	3	0	0	0	0	0	0
Nautanwa	31·2	...	34·4	15,29	26·3	...	24·2	12	67.2	452·0	...	219·6	31	13	...	10·8	7·1	...	0	15	0	0	0	0	0	0	0	0	0
Gorakhpur	33·4	+1·4	36·4	15	26·6	+0·7	22·0	30	159·7	349·7	+0·4	158·4	21	16	+1·1	...	...	...	0	17	0	0	1	0	0	0	0	0	0
Azamgarh	32·7	...	35·4	15	23·7	...	22·4	31	0	··	...	...	...	...	...	...	...	...	...	...	0	0	0	0	0	0	0	0	0
Ballia	33·2	...	37·0	1	26.4	...	24·2	9	71.2	285·2	...	71·8	13	16	...	6·0	4·6	...	0	18	0	0	0	0	0	0	0	0	0
Varanasi (Banaras)	32·5	+0·5	35·1	15	26·5	+0·7	24·3	24,26	86·0	366·9	+61·5	138·4	26	16	+1·1	(b) 4·6	(b) 3·9	−1·2	0	17	0	0	6	0	0	0	0	0	0
Varanasi (Banaras) (Babatpur Aerodrome)	32·5	...	34·8	15	26·4	...	24·9	25,26	72·3	217·4	...	64·9	26	12	...	10·9	8·1	...	0	22	0	0	16	0	0	0	0	0	0
Allahabad (Bamrauli)	32·6	+0·7	34·4	16,20	26·2	+0·4	24·3	31	139·5	491·4	+236·6	177·6	18	22	+7·3	8·2	5·7	−1·2	0	29	0	0	17	0	0	0	0	1	0
Sultanpur	32·5	...	35·1	4 days	26·4	...	24·9	22,26	53.9	194.8	...	99.4	26	10	...	5.0	4·8	...	0	13	0	0	2	0	0	0	0	0	0
Faizabad	32·3	...	34·8	15	24·8	...	23·2	24	95.8	305.9	...	107.1	1	17	...	5·7	3·9	...	0	18	0	0	11	0	0	0	0	0	0
Banda	31·4	...	33·9	5	24·7	...	22·8	31	168·4	590·0	...	102.6	23	20	...	4·4	3·6	...	0	23	0	0	9	0	1	0	0	0	0
Fatehpur	31·7	−0·4	34·3	3,4,17	26·5	+0·7	23·4	31	206·2	315·2	+60·4	80·2	27	16	+1·6	7·0	5·2	+0·1	0	19	0	0	0	0	0	0	0	0	0
Kanpur	32·1	...	35·1	17	26·3	+0·4	24·8	27	80·4	179·8	−104·7	39·6	27	14	+0·7	12·5	9.2	−1·1	0	18	0	0	4	0	0	0	0	0	0
Kanpur (Aerodrome)	32·1	...	35·7	17	26·3	...	24·7	17,28	102·0	198.3	...	37·6	27	14	...	...	...	...	0	20	0	0	10	0	0	0	0	0	0
Lucknow	33·1	+0·6	35·5	17	26·0	+0·1	24·4	16	125.9	323·4	+31·3	48·0	8	17	+3·3	5·6	4·1	+1·0	0	22	0	0	5	0	0	0	0	0	0
Lucknow (Amausi Aerodrome).	32·5	0	35·0	17	26·4	+1·0	25·4	8,28	163·9	295·9	+3·8	41·3	8	15	+1·3	13.2	9·9	...	4	22	0	0	13	0	0	0	0	0	0
Hardoi	32·8	...	36·2	11	26·4	...	25.0	16,25	180·2	296·5	...	70·8	25	13	...	9·5	6·6	...	0	21	0	0	0	0	0	0	0	0	0
Lakhimpur Kheri	32·5	...	35·7	11	26.4	...	25·0	23,24	239·4	409·0	...	130·4	24	12	...	6·5	4·1	...	0	16	0	0	8	0	0	0	0	0	0
Bahraich	32·9	+0·6	35·8	16	26.5	+0·7	24·5	26	102.1	185·2	−139·7	44·5	26	11	−1·5	11·0	7·5	+4·0	0	13	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Orai	29·6	..	32·0	4days	23·6	..	21·2	19	327.4	862.8	..	187·8	27	25	..	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Jhansi	30·3	−1·5	33·9	11	23·9	−1·0	18·3	7	231.6	470.2	+175·8	141.0	14	16	+2·7	6·8	5·4	−0.2	0	19	0	0	0	0	0	0	0	0	0
Agra	31·8	−1·2	35.0	4	25.7	−0·4	23·4	1	245·3	494·3	+288·3	106·1	28	17	+6·7	7·5	5·4	−0·6	0	21	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	31·7	...	34·8	4	25.6	...	22·7	1	271.6	522·5	...	97·5	28	19	...	...	...	...	0	23	0	0	20	0	0	0	0	0	0
Mainpuri	32·5	−0·7	35.4	45	26·1	+0·3	21·8	26	35·4	407·1	+127·2	80·2	14	22	+11·5	2·3	2·0	−1·1	0	23	0	0	1	0	0	0	0	0	0

(a) Mean of 19 days only.

(b) Total or Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm).	Precipitation (0·3 mm. or more)	Snow or Sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—*con'd.*																													
Aligarh	32.3	−0.8	34.9	5,11	25.7	0	23.5	1	121·8	346·4	+145.0	57.2	28	17	+7·6	9·4	6·8	+0.2	0	21	0	0	1	0	0	0	0	0	0
Bareilly	32·8	+0·5	36.5	11	26·1	+0.4	24.2	27	190·6	387·7	+93·1	53.0	27	15	+2.7	7·3	4·7	+1·8	1	17	0	0	8	0	0	0	0	0	0
Meerut	32·7	−0.1	37.8	18	26·3	+0.6	24.3	18	...	388·7	+165.2	122·0	23	9	−0.8	...	5·0	...	0	11	0	0	1	0	0	0	0	0	0
Najibabad	32.6	...	35.6	11	25.6	...	24·2	23	119·6	184·8	...	53·6	5	13	...	7·4	5·5	...	0	15	0	0	3	0	0	0	0	0	0
Roorkee	32.8	+0.7	39.8	14	25·8	+0.7	24.1	23,25	118·9	174·6	−110.4	80·0	16	9	−2.8	8·0	5·1	+1·9	0	15	0	0	2	0	0	0	0	0	0
Dehra Dun	29.8	+0.6	32.8	11	22·0	−0.7	20.4	14,16	249·1	595.7	−135.6	92.9	13	22	+0.7	4.5	3.2	+0.9	0	27	0	0	11	0	0	0	0	0	0
Punjab (India), (Including Delhi)																													
New Delhi	32·6	−1.0	37.5	1	26·1	0	24.0	28	166.3	357.3	+173.7	60·9	8	15	+6.0	12·7	8.9	0	0	20	0	0	11	0	0	0	0	3	0
New Delhi (Palam Aerodrome)	32.4	...	36.8	1	25·7	...	23.9	30	201·2	391.8	...	63.1	21	15	...	...	...	...	0	19	0	0	12	0	0	0	0	0	0
Hissar	34·6	−1.1	42·5	2	26·4	+0.3	23·1	22	111·8	65.9	+142·2	82.2	21	10	+4.5	8.0	7.4	−0.5	1	15	0	0	7	0	0	0	0	0	0
Karnal	32.5	...	36.1	4	21.7	...	18·4	26	71.8	120.0	...	14.2	22	13	...	...	...	...	0	15	0	0	0	0	0	0	0	0	0
Patiala	32.6	...	36.7	12	25.6	...	23.1	31	112·6	491.5	+246.1	155.0	21	13	+3.8	6.4	5·0	...	1	17	0	0	1	0	0	0	0	0	0
Ambala	32.8	−1·2	36.9	5	25.6	0	23·9	30,31	101.6	382.6	+182.2	154.2	21	16	+7.0	7.3	5·8	+2.1	0	17	0	0	1	0	0	0	0	0	0
Ambala (Aerodrome)	32.1	...	36.1	12	24.9	...	23.2	30	162.5	491·8	...	147.5	21	15	...	...	...	...	0	18	0	0	15	1	0	0	0	0	0
Chandigarh	32.9	...	36·7	12	23·8	...	21·3	30,31	140·1	312.3	...	83.9	21	13	...	...	...	...	0	14	0	0	0	0	0	0	0	0	0
Ludhiana	33·6	−1.3	37·8	4	28.1	+1·9	23.7	30	57.9	255.2	+86.3	5.8	22	11	+3.7	5·1	4·4	+2.0	0	13	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	33·6	...	37.6	4	25·4	...	22·4	25	124.5	202.0	...	43.4	30	9	...	...	...	...	0	11	0	0	16	0	0	0	0	0	0
Bhatinda	35·8	...	40.7	2,4	26·3	...	23·9	29	42.0	100·5	...	42·0	10	4	...	(c) 10.8	(c) 8·1	...	0	6	0	0	1	0	0	0	0	0	0
Ferozepur	35·7	...	39·4	4	26·5	...	23·9	13,25	20·5	61·7	...	33·6	13	5	...	3·5	2·2	...	0	6	0	0	0	0	0	0	0	0	0
Amritsar	34.2	...	37·6	8	25.6	...	22·3	17	42.6	123.5	...	30.3	2	8	...	9·1	7.9	...	0	10	0	0	9	0	0	0	0	0	0
Pathankot (Aerodrome)	32.9	...	35·4	4	24.9	...	22.6	2	75·1	484.0	...	77.1	8	16	...	7.0	6.3	...	1	20	0	0	20	0	0	0	0	2	0
Adampur Aerodrome (R)																													
Himachal Pradesh																													
Bilaspur	31.5	...	34.8	11,12	24.3	...	22.1	24	171·8	271·5	...	57.2	22	14	...	5.9	4.1	...	0	21	0	0	7	0	0	0	0	0	0
Mandi	30.7	...	33·7	12	22·0	...	19·7	22	104.4	524.2	...	271.1	31	22	...	2·6	2·1	...	0	25	0	0	8	0	0	0	0	0	0
Jammu and Kashmir																													
Srinagar	30.4	+0.1	33.9	8,15	18.8	+1.4	15.8	3	0.8	75.4	+13·9	54.4	10	4	−1.3	4·6	3.7	0	0	8	0	0	7	0	0	0	0	0	0
Srinagar (Aerodrome)	29.9	...	32.9	15	18.8	..	16.1	3	2.6	28.7	...	15.0	10	4	...	...	...	...	0	7	0	0	6	0	0	2	0	0	0
Gulmarg	21·5	+1·0	25·6	9	10·4	−0·5	7.2	5	34·1	51·6	−66·3	17·2	16	6	−3·9	7·1	4·1	−0·2	0	12	0	1	6	1	0	0	0	0	0
Sonamarg	...	...	...	...	...	...	...	...	...	10·6	−81·3	3·2	10	2	−7·0	...	...	...	0	5	...	...	...	...	...	...	...	...	...
Dras	...	...	...	...	...	...	...	...	...	0	−14·0	0	...	0	−1·7	...	...	...	0	0	...	...	...	...	...	...	...	...	...
Leh	26·1	+1·7	31·1	10	11·6	+1.8	8·1	23,25	0	19.2	+4.2	9.6	22	3	+1.1	6.1	5.9	+3.2	0	5	0	0	1	0	0	0	0	0	0
Skardu (R)																													
Gilgit (R)																													
Misgar (R)																													
Jammu*																													
Jammu (Aerodome)	32.8	...	36.3	4	25·6	...	22.8	16,17	120.0	412.9	...	110.2	8	16	...	...	...	...	0	18	0	0	15	0	0	0	0	0	0
Rajasthan (West)																													
Sri Ganganagar	38·1	+0.4	42.4	5	28.0	+1.1	23.7	24	0	21.4	−30·7	15.2	24	2	−1.3	7.1	5.9	−3.6	1	4	0	0	8	0	0	0	0	0	0
Churu	35·0	...	40·6	4	26·4	..	23·6	28,29	56·8	118·1	...	57 4	28	5	...	12·8	10·6	...	1	9	0	0	6	0	0	0	0	0	0
Bikaner	36·6	+0·2	41·3	5	26·8	−0.1	24·3	10	17·9	69·4	−22.0	47·1	10	4	−0.9	9·8	9·8	−0·3	0	7	0	0	1	0	0	0	0	0	0
Jaisalmer	36·0	...	39·1	3,4	25·7	..	23·8	11	13·2	37.2	..	22·1	20	2	...	22·8	22·5	...	3	0	0	0	0	0	0	0	0	0	0
Phalodi	35·2	...	39·7	6	26·3	...	24·1	11,16	42·4	67·2	−13.3	24·8	10	4	−0.4	21·8	19.1	...	0	4	0	0	0	0	0	0	0	0	0
Nagaur	34·7	...	39·6	4	26·0	...	24·2	23	38·0	43·8	..	12·0	20	6	...	12·7	13·2	...	0	7	0	0	0	0	0	0	0	0	0
Jodhpur	33·6	+0.4	37·0	3	25·5	+0.5	24·1	20	8·1	18·6	−104.3	8.2	19	2	−3.9	17·3	15·0	+0·4	1	7	0	0	2	0	0	0	0	0	0
Barmer	33·7	+0.1	37·4	3,19	25·5	+0.6	23·1	20	21·7	83·8	−50.1	37·6	20	5	−0·8	...	...	...	1	7	0	0	2	0	0	0	0	0	0
Rajasthan (East)																													
Pilani	33·9	...	40·3	4	25·9	...	24·1	21	112·4	180·1	...	50.3	29	6	...	16·3	11·9	...	0	13	0	0	0	0	0	0	0	0	0
Alwar	32·4	...	37·5	4	26·1	...	23·5	26	294·4	519·4	...	81·2	28	17	...	5·5	4·0	...	0	21	0	0	0	0	0	0	0	0	0
Sikar	31.9	...	38·3	3	24·9	...	22·9	28	68·2	167·2	...	69·0	29	9	...	10·8	8·9	...	11	0	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer Aerodrome).	31·2	−1·5	36·2	3	24·2	−0.2	22·6	29	182·3	377·3	+172·6	80.0	19	19	+8·8	...	...	...	0	22	0	0	12	0	0	0	0	1	0
Dholpur	31·4	...	34.7	4	25·4	...	17·7	5	280·6	498·2	...	89·8	28	21	...	9.0	5.9	...	0	29	0	0	18	0	0	0	0	0	0
Tonk	31.2	...	36·6	3	24·8	...	23 3	29	128·0	312.6	...	50.4	11	16	...	13.6	9·7	...	1	20	0	0	5	0	0	0	0	0	0
Ajmer	30·4	−0·5	36·4	3	24·5	+0·1	23.6	10	51·0	150.2	−21.3	58·2	10	10	+1.6	14·6	13·9	+5·7	1	13	0	0	5	0	0	0	0	0	0
Kotah	29·5	−2·5	33·8	3	25·3	−0·1	24·1	4	109.2	254.1	+8·7	50·8	18	11	+0·6	12·0	10·2	+4·7	1	23	0	0	7	0	0	0	0	0	0
Chambal	29·2	...	32·2	3	24·2	...	22·8	26	184·6	404.8	...	89·2	6	13	...	9·9	7·0	...	0	20	0	0	7	0	0	0	0	0	0
Jhalawar	29·1	−1·5	31·7	22	24·1	+0·2	23·3	9	237·3	560.9	+268·6	125·2	9	17	+4·2	11·3	9·8	+3·5	1	19	0	0	0	0	0	0	0	0	0
Udaipur	27·7	−2·0	31·6	3	22·9	−0·3	20·6	30,31	160.3	257.6	+79·5	49·2	9	9	+0·4	6·0	4·2	...	0	10	0	0	1	0	0	0	0	0	0
Erinpura (Jawai Dam).	29·8	...	33·4	3	24·4	...	23·1	20	124·8	210.5	...	49·0	7	10	...	7·3	8·1	...	0	13	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	30.8	−1.1	34.0	4	25.4	+0.1	22·8	1	255·5	525.6	+295.2	94.8	13	20	+7.3	11.5	8.8	...	1	23	0	0	13	0	0	0	0	0	0
Sheopur Kalan	30.2	..	33.1	3	24.5	...	22.9	26,30	367.0	673.3	...	99.8	15	24	...	11.7	8.4	...	0	26	0	0	11	0	0	0	0	0	0
Guna	28.2	−1.4	30.9	11	22.9	−0.2	21.7	15,31	354·9	713.5	+32[illegible].1	97.2	5	23	+9.4	17.2	13.8	...	0	26	0	0	4	0	0	0	0	0	0

(c) Mean of 28 days.

(R) Registered not received.

*Temporarily closed.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2mm)	Precipitation 0.3 mm. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Madhya Pradesh (West) *(contd.)*																													
Rajgarh	28·5	...	31·3	25,26	23·4	...	22·6	31	212·8	624·6	...	300·2	8	18	...	16·9	12·7	...	0	20	0	0	0	0	0	0	0	0	0
Neemuch	28·2	−1·1	30·7	18	22·8	+0.1	21·5	26,31	173·0	406·6	+174·2	84.8	9	12	+2·0	16·4	14·2	+1·5	0	15	0	0	4	0	0	0	0	0	0
Ratlam	27·7	..	31·2	11	..	...	..	..	160·4	277·9	...	53·0	19	4	...	13·4	11·4	...	0	24	0	0	0	0	0	0	0	0	0
Alirajpur	28·1	...	30·0	7,31	22·9	...	22·0	5,6,31	83·2	310·4	...	138·2	5	16	...	14·5	12·2	...	0	23	0	0	0	0	0	0	0	0	0
Indore	26·7	−1·4	29·4	31	21·7	−0·1	20·1	30	176·2	365·1	+158·1	155·0	5	15	+3·7	27·7	23·8	...	2	23	0	0	0	0	0	0	0	0	0
Ujjain	27·2	...	29·4	26	22·7	...	21·8	27,30, 31	..	233·8	...	52·1	18	11	...	...	19·3	...	1	18	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	27·4	−1·3	30·2	9	22·2	−0·4	20·7	28	172·1	456·1	+178·2	153·6	18	15	+0·2	24·8	20·0	+8·6	2	21	0	0	0	0	0	0	0	0	0
Khandwa	28·7	−1·2	31·5	31	22·3	−1·0	17·4	6	79·0	159·9	+1·2	59·8	5	12	+2·1	16·5	13·5	+2·6	1	22	0	0	0	0	0	0	0	0	0
Hoshangabad	28·1	−1·1	31·8	22	23·1	−0.5	22·4	11,29	188·1	451·6	+69·1	119·9	18	20	+4·3	9·8	7·9	+3·1	0	25	0	0	3	0	0	0	0	0	0
Betul	26·2	...	28·8	28	21·3	...	20·5	27,28 30	134·8	310·4	...	81·4	5	18	...	11·5	9·1	...	0	25	0	0	0	0	0	0	0	0	0
Chhindwara	27·1	...	30·1	30	21·9	...	20·5	28,29	108·4	237·5	...	75·3	18	12	...	14·1	10·9	...	1	19	0	0	0	0	0	0	0	0	0
Seoni	27·4	−0·8	30·6	1,29	22·0	+0·1	21·2	29	81·6	250·3	−87·3	44·2	17	17	+0·5	9·8	7·4	+1·3	0	24	0	0	2	0	0	0	0	0	0
Sagar	26·8	−1·8	30·0	4	22·0	−0.1	21·2	4,29, 30	224·8	983·8	+626·4	250·0	4	25	+9·4	12·8	11·8	...	0	29	0	0	3	0	0	0	0	0	0
Nowgong	30·3	−0·9	32·8	11	24·5	−0·4	23·0	2	159·9	564·1	+231·6	127·1	17	22	+8·1	8·8	7·0	+3.0	1	28	0	0	11	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	29·8	−0·2	32·7	1	24·4	−0·2	22·2	16	197·7	467·1	+131·8	77·2	10	21	+5.9	9·2	7·4	+0·5	0	25	0	0	14	0	0	0	0	0	0
Sidhi	30·9	...	33.0	22	24·8	...	22·0	26	142.3	616·0	..	90·4	26	17	...	9·0	6·4	...	1	21	0	0	4	0	0	0	0	0	0
Umaria	28·7	−0·7	33·	4	23·0	−0·6	21·2	26,30	154·7	513·6	+180·4	108·1	17	17	+1·0	8·3	6·9	+0·6	0	23	0	0	2	0	0	0	0	0	0
Jabalpur	27·9	−1·3	31·4	29	25·5	+0·4	22·7	8	144·7	573·7	+142·7	92·7	17	23	+5.6	10·3	9·1	+4·1	0	25	0	0	2	0	0	0	0	0	0
Mandla	27·9	...	30·5	28	23·3	..	22·6	8,30	140·4	431·0	...	50·8	9	20	..	5·3	3·5	...	4	25	0	0	3	0	0	0	0	0	0
Jendra	28·1	+0·2	30·0	21	22·3	+0·1	22·1	26	128·7	278·8	−84·9	68·6	17	20	+1.6	10·6	8·3	...	1	25	0	0	8	1	0	0	0	0	0
Ambikapur	29·3	...	32·0	21	23·0	...	21·6	10	279·0	743·1	...	137·6	25	22	...	9·1	8·2	...	0	26	0	0	11	0	0	0	0	0	0
Champa	30·0	...	33·1	21	24·6	...	23·5	17	219·0	543·0	...	83·0	23	16	...	13·4	11·0	..	1	20	0	0	8	0	0	0	0	0	0
Raigarh	30·2	...	33·4	1,21	24·8	...	23·4	18	216·0	692.7	...	193·0	17	19	...	7·4	7·4	...	0	25	0	0	0	0	0	0	0	0	0
Raipur	29·1	−0·8	32·4	12	23·8	0	22·4	9,22	96·9	314·1	−49·6	70·9	25	13	−2.5	13·2	12·7	+0·8	2	16	0	0	0	0	0	0	0	0	0
Kanker	28·3	+0·8	31·4	21	24·7	+1·5	23·2	1,15	57·3	322·6	+11·7	130·6	1	11	−4·2	13·8	10·9	+2·9	0	16	0	0	0	0	0	0	0	0	0
Jagdalpur	27·8	+0·5	30·4	31	22·4	+0·4	20.8	29	135·3	301·2	−112·3	38·6	20	22	+3·1	(g) 9·0	(h) 6·3	...	3	26	0	0	3	0	0	0	0	0	0
Gujarat																													
Deesa	..	...	..	...	24·4	...	22·9	25	41·2	77·8	...	35·9	6	5	...	10·3	8·9	...	1	12	0	0	0	0	0	0	0	0	0
Radhanpur	32·2	...	34·6	4 days	...	..	..	..	25·6	85·5	...	66·2	10	4	...	12·1	9·9	...	0	5	0	0	0	0	0	0	0	0	0
Idar	28·9	...	31.6	3	23·7	...	22·5	26,29,	88·2	196·8	...	37·2	8	15	...	7·8	5.2	...	0	18	0	0	2	0	0	0	0	0	0
Ahmedabad	31·0	−1·1	33·0	14	24·4	0	23·0	10	42·2	144·7	−59·8	59·1	10	11	0	8·2	7·4	−1·0	1	18	0	0	3	0	0	0	0	0	0
Dohad	28·2	−1·4	30·0	15	22·5	−1.0	21·5	31	108·5	181·5	+4·5	82·4	5	12	+1·3	24·2	23.3	..	1	22	0	0	2	0	0	0	0	0	0
Baroda	30·7	−1.3	33·3	27	24·8	0	23·5	31	73·0	183·3	−45·8	37·6	7	13	+3·3	(l) 7.2	(m) 5·3	2·6	3	17	0	0	1	0	0	0	0	0	0
Baroda (Aerodrome)	30·4	...	33·0	27	24·5	...	23·3	30,31	46·1	155·4	...	43·5	7	12	...	11·7	10·5	...	0	18	0	0	1	0	0	0	0	0	0
Broach	30·5	...	34·9	26	24·9	...	23·6	6	44·6	157·5	...	40·2	2	10	...	14·8	11·5	...	1	16	0	0	0	0	0	0	0	0	0
Surat	30·2	−0·1	31·7	4	24·7	−0·3	23·4	9	51·4	206·7	+17·5	63·8	9	13	+0·6	12·6	12·1	+2·6	0	23	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Naliya	30·5	...	32·4	3,4	25·7	...	24·0	8	13·6	35·9	...	14·2	12	3	...	26·1	21·3	...	1	10	0	0	1	0	0	0	0	0	0
Bhuj (Aerodrome)	32·0	+1·2	34.9	3	25·3	+0·4	23·6	30	3·8	10·6	−63·8	5·8	6	1	−2·7	23·4	18.5	−0·2	1	4	0	0	0	0	0	0	0	0	0
Bhutakia Bhimasar	32·1	..	35·1	4	25·3	...	23·7	30,31	10·	43·7	...	42·0	11	1	...	21·9	19·3	...	1	5	0	0	0	0	0	0	0	0	0
New Kandla	31·0	...	33·3	3,4	25·8	...	24·3	11	10·4	31·6	...	7·2	10	5	...	30·8	26·0	...	2	14	0	0	0	0	0	0	0	0	0
Mandvi	30·5	...	32·8	3	26·1	...	25·0	7,12,31	21·0	45·0	...	16·0	12	5	...	34·6	33·7	...	0	9	0	0	0	0	0	0	1	0	0
Dwarka	29·7	+0.4	31·3	4	25·8	−0·1	24·8	24,31	5·4	15·2	−50·3	6·2	7	2	−1·8	26·0	25·0	+4·7	0	6	0	0	0	0	0	0	0	0	0
Porbander	30·0	...	31·4	4	25.4	...	23·8	8	10·2	45·0	...	14·2	7	6	...	20·3	17.9	...	0	12	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome). *	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23·9	21.0	...	...	...	0	0	0	0	0	0	0	0	0
Jamnagar	31·3	−0·1	33·9	4	24·9	−0·5	23·9	24	24·7	26·7	−71·1	10·4	12	3	−2·2	...	...	...	0	9	0	0	0	0	0	0	0	0	0
Rajkot (Aerodrome)	30·6	−1·0	32·7	31	23·9	+0·1	22·7	31	14·2	37·5	−92·0	14·6	2	5	−2·0	28·7	22·2	...	1	9	0	0	0	0	0	0	0	0	0
Surendranagar	32·2	...	34·3	14	25·0	...	22·2	26	1·0	4·6	...	1·4	15	0	...	(a) 19·3	(a) 16·9	...	2	5	0	0	0	0	0	0	0	0	0
Bhavnagar	31·7	−1·0	34·2	27	24·5	−0·3	23.4	26, 31	15·2	32·2	−103·3	10·4	5	5	−2·3	16·1	12·8	+2·7	0	7	0	0	0	0	0	0	0	0	0
Bhavnagar (Aerodrome).	32·0	...	34·8	27	25·0	...	22·8	26	46·9	66·2	...	25·6	6	8	...	24.6	20·2	...	2	12	0	0	0	0	0	0	0	0	0
Mahuva	30·0	...	31·8	26	24.3	...	22·6	31	72·2	87·4	...	30·8	6	7	...	17·8	13·2	..	1	16	0	0	0	0	0	0	0	0	0
Keshod	29·7	...	31·3	4	24·2	...	23·1	31	18.9	52·2	...	7·6	1	9	...	30·9	23·4	...	2	21	0	0	0	0	0	0	0	0	0
Veraval	28·2	..	29·3	1	24·9	...	22·7	16	19·3	51·9	−39·8	9·1	13	8	+2·1	25·4	26·3	...	3	21	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu	29·4	−0·2	31·6	3	24·4	−0·9	23·2	10,24	94·0	325·5	−68·2	110.1	2	23	+6·2	31·2	28·0	+4·5	0	28	0	0	0	0	0	0	0	0	0
Bombay (Colaba)	29·6	+0·2	31·1	31	24·8	+0·3	23.1	10	102·8	25·4	−114·7	36·9	4	18	−1·0	18·1	17·0	+1.1	0	27	0	0	0	0	0	0	0	15	0
Bombay (Santacruz Aerodrome).	29·2	0	30·2	30	24·4	+0·4	22·4	10	138·4	358·9	−279·7	89·6	2	22	−1·3	23·2	21.2	...	0	30	0	0	0	0	0	0	0	0	0
Alibag	28·7	−0·1	30·0	29,30	24·7	−0·3	23·4	10	...	292·2	−125·1	63·0	4	23	+1·9	...	28·5	+4·8	2	25	0	0	0	0	0	0	0	0	0
Harnai	28·1	−0·1	29·6	30	24·7	+0.2	23.5	24	79·6	215·8	−295·8	45·0	2	22	+2·2	23·7	24·4	+5·2	0	28	0	0	0	0	0	0	0	0	0

(g) Mean of 24 days. (h) Mean of 23 days. (a) Mean of 30 days. (l) Mean of 19 days only (m) Mean of 18 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5mm or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation 0·1 and 0.2	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Konkan—(Contd.)																													
Ratnagiri	28·5	...	29·7	30	24·0	...	22·2	24	106·8	287·4	−198·5	31·6	2	25	+1·7	...	...	...	1	28	0	0	0	0	0	0	0	0	0
Devgad	28·7	−0·1	30·3	29	24·3	−0·7	23·3	31	83·5	253·7	−144·3	35·4	3	22	+1·8	28·4	28·5	+4·0	0	23	0	0	0	0	0	0	0	0	0
Vengurla	29·2	...	30·0	31	23·8	...	22·9	8	135·2	406·6	...	52·6	11	26	...	11.7	8·9	...	1	28	0	0	1	0	0	0	0	0	0
Maharashtra (Including Marathwada)																													
Nandurbar	28·3	...	31·4	4	23·0	...	21·8	31	66·0	154·5	...	44·0	4	12	...	13·2	10.9	...	3	22	0	0	0	0	0	0	0	0	0
Jalgaon	29·7	..	33·0	30	22·8	...	20·9	31	97·4	205·2	+43·7	65·0	4	11	−0·3	19·4	13·9	...	1	18	0	0	0	0	0	0	0	0	0
Malegaon	29·7	−1·0	32·6	30	22·1	+0·1	19·2	27	26·4	45·4	−31·8	17·4	5	4	−1·3	16 5	13·1	−0·7	0	7	0	0	0	0	0	0	0	0	0
Deolali	26·4	..	28·5	28	21·1	...	19·9	30,31	20·0	43·2	...	8·9	2	6	...	24·5	19·3	...	0	20	0	0	0	0	0	0	0	0	0
Aurangabad	29·3	0	33·2	29	21·3	+0·4	19·4	31	30·2	91·6	−30.1	52·8	4	5	−3·9	25 5	20·2	−3·9	0	18	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome)	29.5	...	32·5	29	21·0	..	19·4	27	15·9	83·0	...	58·9	4	5	...	23 2	18·0	...	2	10	0	0	0	0	0	0	0	0	0
Khandala	...	...	...	...	...	...	...	..	0	1301·4	+39·0	163·4	2	30	+0·7	..	...	...	0	31	...	...	...	...	...	...	...	...	...
Ahmednagar	29·4	+0·2	32·4	30	20·8	+0·2	17·3	27	0	2·2	−66.9	1.6	2	0	−4·6	14 0	10·6	−3·6	0	2	0	0	0	0	0	0	0	0	0
Bhir (R)																													
Parbhani	31·2	...	34·2	29	22·0	...	21·1	26	102·0	150·8	+3.2	52·2	3	6	−3·0	17·7	13·1	...	1	9	0	0	1	0	0	0	0	0	0
Nanded	30 9	..	33·4	16,29,31	22·9	..	21·4	8,12,13	43·6	93·8	...	26·5	3	7	...	13.4	8·8	...	0	10	0	0	0	0	0	0	0	0	0
Poona	26·9	−0·7	28·6	29	20·9	−0.5	19·5	31	25·2	73·9	−16.3	21·0	2	11	+2.7	8.5	5.3	−8·5	1	23	0	0	0	0	0	0	0	0	0
Poona (Lohagaon Aerodrome)	26·7	...	29·2	31	20·4	...	18·3	29,30,31	24·9	62·1	...	18·3	2	8	...	...	...	...	0	21	0	0	0	0	0	0	0	0	0
Baramati	28·6	...	32.1	29	21·6	...	19·1	31	24·4	30·5	...	24·4	29	2	...	24·0	19 2	...	0	2	0	0	0	0	0	0	0	0	0
Jeur	31.2	...	34·5	29	21·5	...	18·0	27	20·1	28·1	...	6.3	23	5	..	23·4	16·8	..	0	12	0	0	0	0	0	0	0	0	0
Sholapur	31·7	−0·1	34·9	30	22·2	+0·5	21·2	5	7·5	10·1	−98.6	5·5	3	1	−6·0	15·8	12.6	−1·4	1	6	0	0	0	0	0	0	0	0	0
Miraj	28·0	+0·2	31·0	29,30	20·9	+0·2	19 1	27	15·8	33·5	−86.6	5·4	11	5	−4.2	...	...	...	0	16	0	0	0	0	0	0	0	0	0
Kolhapur	25·9	+0·5	29·2	30	20·6	+0.4	19·5	30	40·1	128·3	−93.2	15·7	2	19	+0·5	21·5	16.7	−0.5	1	27	0	0	0	0	0	0	0	0	0
Vidarbha																													
Buldhana	27·0	...	29·0	13	20.7	...	19·5	26,28,29	48·6	201.8	...	85.0	4	15	..	11.9	10·3	...	0	18	0	0	0	0	0	0	0	0	0
Akola	30·1	−0·7	34·0	16	22.5	−0·7	21·5	9	22·3	86·8	−73.7	20·7	3	7	−2·1	17.2	12·6	+2.3	0	14	0	0	0	0	0	0	0	0	0
Amravati	29·3	−0·6	33·0	31	21.9	−0·9	20·4	5	85·3	120·6	−44.3	26·0	11	8	−1 8	20.0	15 9	+5·3	1	18	0	0	0	0	0	0	0	0	0
Yeotmal	30·2	...	32·4	28	22·1	...	20·6	9	47·6	188·1	..	45·8	9	10	...	22·6	18·6	...	0	13	0	0	0	0	0	0	0	0	0
Nagpur	29·7	−1·0	33·1	26	23·3	−0·5	21·8	8	46·4	155·5	−134.6	27·0	4	12	−1.3	18.1	13·0	...	3	20	0	0	0	0	0	0	0	2	0
Gondia	28·8	...	32·0	31	23·7	...	21·9	8,9	117·8	424·8	...	66·2	1	15	..	9 2	6·5	...	0	21	0	0	0	0	0	0	0	0	0
Brahmapuri	29.5	...	33·2	28	24·1	...	22·6	9	79·3	318·5	..	117·0	1	16	...	10 6	7·9	...	0	21	0	0	0	0	0	0	0	0	0
Chanda	30·4	−0·3	84·2	21	24·5	+0 5	22·4	1	36·6	181·8	−138·2	68·4	3	11	−3·8	16 1	10·6	+3·2	0	17	0	0	1	0	0	0	0	0	0
Sironcha	31·6	...	35·2	14	24·9	...	23·2	1,10	25·8	141·6	...	64·0	1	10	..	9·6	5·1	...	0	15	0	0	1	0	0	0	0	0	0
Coastal Andhra Pradesh																(j)	(k)												
Nellore	36.7	+1·1	38·1	20	27.9	+1·6	25.0	30, 31	27·4	23·6	−53·1	13·8	30	2	−3.5	13.2	9.8	+0.9	0	3	0	0	0	0	0	0	0	0	0
Ongole	36·5	..	38·5	19	28·6	...	23·4	30	24·6	36·2	...	36·0	30	1	..	16·6	12·8	...	1	1	0	0	0	0	0	0	0	0	0
Rentachintala	36·4	+2·6	38·7	19	27·1	+1·3	23·8	29	10·0	23·0	−66·9	17·4	29	1	−6·8	17 8	14·0	+0·2	0	5	0	0	2	0	0	0	0	0	0
Gannavaram	34·0	...	36·4	21,26	26·5	...	23·5	28	28·4	84·1	...	59·6	28	6	...	23·3	15 5	...	2	10	0	0	5	0	0	0	0	0	0
Masulipatam	33·7	+0·8	35·3	22	26·3	+0.8	24·3	29	28·4	20·2	−138·8	10·2	30	3	−7·2	15·9	10·6	+0·9	0	5	0	0	0	0	0	0	0	0	0
Nidadavolu	32·2	...	34.5	21	25·4	..	23.4	28	16·8	45·8	...	11·4	28	6	...	18·3	10·9	..	0	8	0	0	1	0	0	0	0	0	0
Kakinada	33·5	+1·4	36·6	21	25·9	+0 2	23·6	11	21·4	57·4	−83·8	13·2	3	7	−2 6	12 6	9 5	+0·8	0	10	0	0	0	0	0	0	0	0	0
Visakhapatnam	34.3	+1.6	38.2	13	26.3	+0.6	23.0	30	105·3	116·6	−15.1	69·5	22	6	−2.2	21.7	15.1	+2.8	0	9	0	0	6	0	0	0	0	1	0
Calingapatam	32·6	+0.4	35·0	28	26·0	+0·1	22.8	28	78·4	177·9	+5.2	54·0	28	7	−2.5	16.1	12·2	+2.4	0	10	0	0	2	0	0	0	0	0	0
Telangana																													
Ramagundam	32 2	...	37.4	28	...	...	...	...	34.2	145·1	...	33·4	29	12	...	9.2	6 2	...	0	17	0	0	0	0	0	0	0	0	0
Nizamabad	30·7	+0·3	32·9	29	23·3	+0·5	21·6	1	38·0	144·0	−103·9	30·0	4	12	−1·8	14·6	10·8	+3·1	0	16	0	0	0	0	0	0	0	0	0
Mahbubnagar	32·0	...	34·2	29,	22·8	...	21·9	25	63·5	76 8	...	67·8	31	2	...	16·2	14·4	...	0	7	0	0	1	0	0	0	0	0	0
Hyderabad (Begumpet Aerodrome)	31·4	+1·8	33·3	19,29	22·8	+0·9	21·6	24	20.3	26·1	−108·3	14·5	31	2	-7 9	28·5	22 6	+6.2	1	10	0	0	1	0	0	0	0	0	0
Hakimpet	30·2	...	33·2	19	21·9	...	21·0	6,8	8·6	11·2	...	3·8	31	1	...	...	..	...	0	7	0	0	0	0	0	0	0	0	0
Hanamakonda	32·3	+1·9	35·0	27	24·7	+0·8	23·0	31	27·2	104·2	−73.1	27.0	4	8	−2·7	16·2	11·4	+1·7	0	13	0	0	1	0	0	0	0	0	0
Bhadrachallam	32·8	...	36·0	21	25·8	...	23·6	28	25·4	98·9	...	22·0	30	8	...	9·6	7·1	...	0	11	0	0	0	0	0	0	0	0	0
Khammameth	33·3	...	36·3	21	25·1	...	22·3	30	38·2	97.2	...	24·8	28	7	...	12·5	8·2	...	0	12	0	0	1	0	0	0	0	0	0
Rayalaseema																													
Arogyavaram	31·3	...	32·7	22	22·1	...	20·4	31	24·6	37·8	...	35·0	31	1	...	16·8	13·4	...	0	3	0	0	0	0	0	0	0	0	0
Cuddapah	35·1	+0·3	37·3	21	..	..	..	...	6·4	10·6	−122·5	9·4	31	1	−6·7	6 5	4·8	−5 8	0	2	0	0	0	0	0	0	0	0	0
Anantapu	33·6	...	35·8	28	24·0	...	23·1	16	2·1	2·8	−81·0	1·5	31	0	−4·8	23·5	20·5	...	0	3	0	0	0	0	0	0	0	0	0
Kurnool	33·5	+0.1	35.2	28	23·9	+0·4	22·0	30	8·8	17·1	−97·2	9·5	29	2	−6·6	25·6	13·7	+8·0	0	4	0	0	0	0	0	0	0	0	0
Madras State																		...											
Palayamcottai	35·2	...	38·2	28	25·9	...	24·5	30	26·6	28·2	+11·4	26·4	29	1	0	25·4	20·1		1	1	0	0	1	0	0	0	0	0	0
Tuticorin	34·6	...	36·9	18	26·1	...	24·2	15	0	0	...	0	...	0	...	23·1	20·5	...	0	0	0	0	0	0	0	0	0	0	0
Pamban	31·8	+0·1	32·5	6	..	..	...	...	0	0	+15·0	0	...	0	−1·0	13·8	13·7	+0.7	0	0	0	0	0	0	0	0	0	0	0
Tondi	33·6	..	36·5	6	26·1	..	25·6	16	0	0	...	0	...	0	...	21·2	15.4	...	0	0	0	0	3	0	0	0	0	0	0
Mathurai	36·0	+0.9	38·1	20	25.0	+0·3	22·3	30	0	22.0	−81·4	7·6	5	4	−2.0	7·2	5·5	−0·6	0	4	0	0	0	0	0	0	0	0	0

(R) Register not received.

(j) Mean of 21 days.

(k) Mean of 20 days.

Division and Station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Madras State—(Contd.)																													
Mathural (Aerodrome)	35.5	...	38·0	20	25.0	...	22·8	31	7·0	71.7	...	44·6	28	3	...	16·7	14.5	...	0	5	0	0	4	0	0	0	0	0	0
Adirampattinam	34·4	...	37·7	21	25·5	...	23·5	17	0	8·8	...	6·8	5	1	...	18·7	13·7	...	0	2	0	0	0	0	0	0	0	0	0
Nagapattinam	35·6	+1·1	37·0	16	26·4	+1.0	25.0	29	0	0	−77 5	0	...	0	−4·9	14·4	12·1	+3·7	0	0	0	0	0	0	0	0	0	0	0
Tiruchirapalli	35·8	0	37·3	15	25·9	+0·8	23·1	30	0	36·6	−60·7	14·4	30	3	−1·7	31·3	30·2	+5·7	0	5	0	0	2	0	0	0	0	0	0
Coimbatore	31·2	+0·4	32 8	29	22·2	+0.5	20·6	17	0	7·2	−24 0	1·8	5	1	−2·1	20·7	16·1	+7·4	0	2	0	0	1	0	0	0	0	0	0
Coimbatore (P elamedu Aerodrome)	31·9	...	33·2	25	21·8	...	20·4	10	0·3	10·2	...	8·9	4	1	...	36·8	31·0	...	0	3	0	0	1	0	1	0	0	0	0
Salem	33·0	−0·5	35·9	20	23·9	+1·0	22·5	17	2·6	59·6	−107·3	11·0	28	7	−2·9	9·7	8·9	+2·9	0	12	0	0	3	0	0	0	0	0	0
Kallakurichi	36·0	...	38·0	20,26	25·1	...	21·9	29	7·0	74·8	...	44·0	29	5	...	10·4	9·4	...	0	7	0	0	2	0	0	0	0	0	0
Cuddalore	36.2	+1·6	38·4	4 days	25·2	+0.2	22·6	29	0	106·0	−15·9	96·0	29	3	−4·1	10·7	8·6	+1·8	0	4	0	0	2	0	0	0	0	0	0
Tirupattur	34·2	...	37·6	22	24·7	...	22·1	8	0	12·2	...	12·2	30	1	...	14·4	10·9	...	0	1	0	0	0	0	0	0	0	0	0
Vellore	35·2	+1·2	37·6	19	24·7	0	22·6	31	75·4	97·4	−48·4	65·0	29	5	−2·4	13·4	10·7	+4·3	0	6	0	0	3	0	0	0	0	0	0
Tambaram (Aerodrome)	...	...	..	..	26·0	...	22·3	29	4·0	112·5	...	40·9	29	8	...	...	...	...	0	10	0	0	1	0	0	0	0	0	0
Madras	36·3	+1·4	38·1	13	26·5	+0.9	22·8	29	1·2	68·1	−48·2	14·4	22	7	...	20·5	15·2	−0.4	0	12	0	0	6	0	0	0	0	0	0
Madras (Nungambakkam)	36·3	...	38·5	13	26·2	...	22.5	29	...	32 6	...	7·5	21	5	−0·9	...	8·9	...	0	8	0	0	3	0	0	0	0	0	0
Coastal Mysore																													
Karwar	28·7	...	30·0	36	24.1	...	23·0	6,10,18	167·2	445·6	−97·5	80·0	10	24	+0·1	17·3	15·0	...	0	26	0	0	0	0	0	0	0	0	0
Honavar	28·8	+0·1	29.7	4,30	23·1	−0·5	22·2	2	116·1	404·4	−240·3	42·2	4	26	+0.7	10·3	9·8	+4·8	0	30	0	0	1	0	0	0	0	0	0
Mangalore	29·5	+0·7	30·5	16	23·6	+0·2	22·2	24	113·2	462·9	−134·5	54·6	20	22	−3·1	10.1	8·3	+1·1	1	25	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe Aerodrome)	23.5	...	30·0	30	23·0	...	22·0	8,25	135·3	400·8	...	50·5	6	23	...	11·4	8·0	...	0	27	0	0	0	4	0	0	0	0	0
Interior Mysore (North)																													
Pidar	29·5	+0·6	32·0	20	21·3	+0·2	20·1	8,13	10·2	16.5	−140·5	10·2	2	3	−8·4	24·3	21·0	+3·3	0	5	0	0	0	0	0	0	0	0	0
Gulbarga	32·1	+0·5	34·4	29	22.5	+0.6	21·4	4 days	0	9·2	−119·6	5·8	1	1	−6·7	21·8	20·5	+5·9	0	3	0	0	0	0	0	8	0	0	
Bijapur	30.8	+0·4	33·4	29	21·9	+0·8	20·8	22,24	1·6	2·4	−58·6	1·4	3	0	−3·7	18·4	14.6	+0.4	0	3	0	0	0	0	0	0	0	0	0
Belgaum	24·9	−0.7	27·7	31	...	...	...	...	69·6	231·2	−6·8	28·2	3	20	+2.4	15·2	11·6	−1·2	0		0	0	0	0	0	0	0	0	0
Belgaum (Sambre Aerodrome).	25·2	...	27·9	31	20·1	...	18·6	31	49·3	138·3	.	18·1	11	16	...	...	...	...	1	26	0	0	0	0	0	0	0	0	0
Gadag	29·0	+0·3	31·9	30	20·8	0	19·8	25	12·8	17·5	−86·1	5·0	3	2	−6.3	19.7	18·3	+1·7	4	10	0	0	0	0	0	0	0	0	0
Raichur	33·7	+1·5	35·2	29	23·5	+0.9	22.3	3	3·4	8.4	−103·1	5·4	19	1	−6·8	25·0	22·2	+6·8	0	5	0	0	0	0	0	0	1	0	0
Interior Mysore (South)																													
Bellary	32·2	−0·3	33·8	30	24·1	+0.8	22·4	26	4.5	4·5	−56·0	2·5	3	1	−3.0	20·1	17·5	+4·8	0	2	0	0	0	0	0	0	0	0	0
Chitaldrug	27·4	−0·7	30·1	28	20·7	+0·4	19·6	27	7·5	33·5	−52·4	7·4	3	4	−3·4	13·8	12·7	+0·8	1	13	0	0	0	0	0	0	0	0	0
Shimoga	27·4	...	29·6	19	20·8	...	19·0	25	18·0	56.2	...	13·4	3	3	...	10.0	6·2	...	0	19	0	0	0	0	0	0	0	0	0
Balehonnur	22·5	−0·8	26·4	30	18·6	0	17·2	25	...	503·1	−90·8	86·1	5	22	−2·5	...	...	...	0	28	0	0	0	0	0	0	0	0	0
Hassan	25·0	−0·9	28·3	30	18·7	+0·2	17·0	27	19.6	6	−53.5	10.4	5	5	−4.2	15·9	12·0	+2·0	0	11	0	0	0	0	0	0	0	0	0
Mysore	28·5	+0·2	31·3	30	19·6	+0·3	17·2	25	14·8	39·4	−44·2	8·2	28	6	−1·0	12·5	11·6	−0·8	1	10	0	0	0	0	0	0	0	0	0
Bangalore (Central Observatory)	28·4	+1·0	30·7	28	19·6	+0·9	17·9	25	12·4	90·7	−35·8	51·8	31	7	−2·4	20.6	16.3	+4·6	0	12	0	0	1	0	0	0	0	0	0
Bangalore (Aerodrome).	28·8	...	30·4	19	19·8	...	18 5	25,26	9·0	112·0	...	79.6	31	5	...	...	...	...	0	8	0	0	1	0	0	0	0	0	0
Kerala																													
Kozhikode	28·9	+0·6	30·4	17,31	23·0	−0·5	21·8	2	44·6	281.6	−154·3	61·8	5	15	−4·3	8.	7·8	+0·6	0	20	0	0	0	0	0	0	0	0	0
Palghat	29·3	...	30·9	21	23·0	...	21·7	24	67·8	196·0	...	52·0	5	13	...	17·6	13·9	...	0	15	0	0	0	0	0	0	0	0	0
Fort Cochin	28·3	+0·3	29·1	18	24·1	+0·2	22·7	24	43·1	350·9	−1·9	127·0	5	18	−0·7	13·2	10·5	+2·5	0	25	0	0	0	0	0	0	0	0	0
Cochin (Naval Air Station)	29·5	...	30·2	2	23·8	...	22·4	5	46·9	395·3	...	143.3	5	15	...	12·1	8·8	...	0	22	0	0	1	0	0	0	0	0	0
Alleppey	29·0	...	30·4	21	23·5	...	22·6	11,22	42·6	332·4	...	96·0	5	15	...	13·8	10·4	...	0	18	0	0	1	0	0	0	0	0	0
Punalur	30·9	...	32·6	18,21,28	23·4	...	22·8	3	69·2	290·1	...	84·0	5	16	...	8·5	5·5	...	0	16	0	0	0	0	0	0	0	0	0
Trivandrum	29·7	+0·6	31·9	19	23·1	−0·2	21.6	24	32·6	138·9	+18·8	36·5	5	13	+3·2	17·5	11·9	+1·3	0	16	0	0	0	0	0	0	0	0	0
Trivandrum (Aerodrome).	29.5	...	32·4	21	23·4	...	22.0	21	...	161·2	...	35·8	5	10	...	...	10·1	...	1	12	0	0	0	0	0	0	0	0	0
Arabian sea Island																													
Minicoy*																													
Amini Divi*																													
Hill Station excluding Kashmir																													
Walong (R).																													
Kohima	25·4	...	28·7	24	19.7	...	18.8	3 days	89·2	277.6	...	68.4	17	17	...	...	...	...	0	23	0	0	3	0	0	0	0	0	0
Aizal	26·5	...	28·9	14	20·1	...	18·9	17	95·9	230·4	...	46·0	1	15	...	6·7	8·4	...	1	26	0	0	0	0	0	0	0	0	0
Shillong	25·0	+1·1	26·8	10,24	18·3	+0·5	15·0	20	115·5	218·1	−99·2	48·5	20	14	−4.5	4·0	2·4	−0·3	0	23	0	0	1	0	0	0	0	0	0
Cherrapunji	23·8	+1.3	...	..	18·9	+0.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Darjiling Raj-Bhawan)	20·3	+0·9	23·6	15	15·8	+0·6	15·1	22	168·1	556·8	−117·8	64·8	29	24	+0·3	1·3	1·2	−1·7	0	27	0	0	2	23	0	0	0	0	0
Kalimpong	26·2	+2·0	30·0	24	19·1	−0·5	15·6	4 days	17·8	407.2	−97·7	71.1	16	13	−8·5	5·0	4·0	−4·5	0	13	0	0	0	0	0	0	0	0	0
Mukteswar (Kumaon)	20 6	+0·6	23.3	11,12	15·0	+0·9	14·0	27	164·8	281·0	−30·4	46.0	8	21	+3·1	9·7	10·5	+2·3	0	29	0	7	24	0	0	0	0	0	0
Nainital	21·0	...	23·7	11	16.9	...	15·6	4 days	265·5	475·0	...	60·0	23	28	...	10.1	7.2	...	0	29	0	1	2	0	0	0	0	0	0
Joshimath	24·9	...	26.7	3	17·5	...	15·8	25	24·6	320.9	...	50.4	4	21	...	6.6	4·1	...	0	27	0	0	0	0	0	0	0	0	0
Badrinath	16.5	...	17·5	10,15	11·8	...	10·6	1	...	135·6	...	14·0	2	18	...	...	...	...	0	27	..	...	...	...	..	...	...	...	...
Lokpal	10·6	...	11.7	22	5·7	...	4·0	26	...	453·2	...	50·6	7	30	...	...	...	...		31	...	..	...	..	...	...	...	...	...

*Data given as addenda in December 1960 Issue.

(R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	0830—1730 hours Main between	Mean 24 hour	Departure from normal	Precipitation (0.1 and 0.1mm.)	Precipitation (3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squal	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a)	(b)	21	22	23	24	25	26	27	28	29
Hill Stations excluding Kashmir—(*Contd.*)																													
Mussooree	20·7	+0·6	25·0	11	15·5	0	12·4	24	325·3	707·7	+13·3	81·0	24	26	+2·2	6·8	6·6	+0·8	0	28	0	0	8	18	0	0	0	0	0
Simla	20·3	+0·1	23·0	11	15·9	+0·8	14·1	17	229·5	330·7	−97·3	45·9	21	18	−1·7	3·0	2·7	+1·2	1	23	0	0	2	0	0	0	0	0	0
Dharampur	...	...	...	...	...	...	...	...	...	401·2	+82·2	73·0	31	19	+2·5	...	...	...	1	22	...	...	...	...	...	...	...	...	...
Dalhousie	...	...	...	...	...	...	...	...	219·6	619·6	+57·0	99·3	4	23	+1·5	1·9	1·9	...	0	24	0	0	0	0	0	0	0	0	0
Dharamshala	26·3	...	28·6	3	21·1	...	19·5	10	63·9	639·2	...	79·5	1	24	...	5·3	3·9	...		26	0	0	12	0	0	0	0	0	0
Abu	21·7	−0·5	24·8	4	18·6	+0·6	17·0	26,30	258·8	672·3	+94·4	128·8	11	22	+4.6	6·5	6·0	−6·6		23	0	0	0	27	0	0	0	0	0
Pachmarhi	22·9	−0·9	25.4	6,29	92·2	−0·2	18·0	9,13	277·8	829·4	+224·4	145·4	18	27	+5·1	11·6	13·9	+3·6	0	29	0	0	0	29	0	0	0	0	0
Mahabaleshwar	18·4	−0·3	19.6	31	16·0	−0·4	14·7	31	624·2	1944·0	+87·0	267·0	2	29	−0·8	19·3	20·0	+2.6	0	31	0	0	0	31	0	0	0	0	0
Mercara	20·7	0	24·0	30	16·8	+0·1	16·0	5 days	245·0	724·0	+3.	84·2	3	26	−0·5	12·5	17·4	+7·1	0	28	0	0	0	0	0	0	0	0	0
Kodaikanal	18·5	+1·4	20·7	16,17,20	11·4	+0.3	10·1	17	61·0	81·6	−96·2	20·8	22	9	−3·1	12·5	15·7	+1·9	0	14	0	0	2	0	0	0	0	0	0
Ootacamund	17·7	+0·6	20·1	20,30	10·1	−0·8	8·4	31	51·6	78·9	−65·6	19·8	5	11	−1·3	6·8	4·5	−4·0	1	15	0	0	0	0	0	0	0	0	0
Coonoor	22·1	+0·5	24·2	17	15·3	+1·0	12·2	31	...	29·2	−97·5	10·6	5	4	−5·1	...	7·5	+1·1	0	7	0	0	0	0	0	0	0	0	0
Nepal																													
Kathmandu	28·4	...	30·4	11	20·1	...	18·1	16	30·5	220·0	...	37·9	16	16	...	1·6	0·9	...	0	24	0	0	8	0	0	0	0	0	0
Sikkim																													
Lachen	19·5	...	21·1	9	12.3	...	10·8	14,23	...	213·8	...	25·0	22	23	...	...	...	...	0	29	0	0	0	0	0	0	0	0	0
Tibet																													
Yatung (Chumbi)(R)																													
Ceylon																													
Colombo	29·4	−0.4	30·7	29	25·1	+0·1	22·7	31	3·8	31·6	−62·4	19·6	5	3	−3·9	...	...	...	0	4	0	0	0	0	0	0	0	0	0
Trincomalee	34·0	+0·3	35.6	27	25.8	+0·8	24·8	31	0	7·1	−90·7	7·1	31	1	−3·8	...	...	...	0	1	0	0	1	0	0	0	0	0	0
Batticoloa	33·0	...	35·4	25	25·2	...	24·0	15	9·1	23·6	...	9·1	5	3	...	...	...	...	0	3	0	0	4	0	0	0	0	0	0
Hambantota	32·0	+1·6	34·1	24	25·8	+1·3	22·4	31	3·1	34·3	−7·1	19·8	31	2	−1·9	...	...	...	0	5	0	0	0	0	0	0	0	0	0
Mannar	30·6	...	31.1	14	25·9	...	25·1	20	0	0	...	0	...	0	...	..	...	...	0	0	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																													
Damodar Catchment																													
Bokaro	31·6	...	33·6	20	25·4	...	24·2	18	...	396·8	...	53·8	3	19	...	5·8	4·2	...	0	23	0	0	14	0	0	0	0	0	0
Hazaribagh	28·9	...	30·9	1,12	23·3	...	22·1	13	187.0	497·1	...	59·8	30	20	...	9·2	6·2	...	0	28	0	0	5	0	0	0	0	0	0
Tilaiya	31·1	...	33·5	16	25·3	...	23·7	8	99·0	405·8	...	51·6	8	17	...	11.3	8.5	...	0	24	0	0	8	0	0	0	0	0	0
Ramgarh	31·8	...	34·7	21	24·6	...	18·2	20	...	262·8	...	64·5	13	16	...	3·3	2·2	...	0	24	0	2	0	0	0	0	0	0	0
Panchet Hills	32·3	...	34·4	21	26·4	...	23·6	20	135·3	280·1	...	57·8	21	17	...	10·4	8·5	...	0	26	0	0	20	1	0	0	0	0	0
Durgapur	(a) 32·5	...	35·4	21	25·7	...	23·9	3,16	55·7	218·3	...	31·0	3	20	...	(j) 12·4	(j) 11·2	...	0	22	0	0	10	0	0	0	0	0	0
Maithon	32·6	...	35·6	21	25·2	...	21.7	16	...	291·0	...	50·0	29	14	...	...	...	...	0	24	...	...	...	...	...	...	...	...	...
Konar	...	...	...	...	...	...	...	...	...	329·0	...	52.8	25	16	...	...	...	...	0	24	...	...	...	...	...	...	...	...	...
Mahanadi Catchment																													
Hirakud	30·2	...	32·8	20·2	25·4	...	23.7	16,21	152·9	581·4	...	239·9	16	19	...	7.7	6·7	...	2	25	0	0	10	0	0	0	0	0	0
Khijrawan	27·8	...	30·6	21	23·4	...	22·4	1,9,10	136·7	374·2	...	102·2	10	15	...	(g) 16·1	10·2	...	0	23	0	0	0	0	0	0	0	0	0
Sonepur	29·1	...	33·9	21	...	...	...	...	...	488·0	...	200·0	16	17	...	..	3·0	...	0	21	...	..	...	..	..	..	...	...	...
Ginabahar	30·1	...	32·7	21	23·7	...	22·0	29	...	607·5	...	55·1	7	28	...	...	...	...	0	28	...	..	...	...	...	..	..	..	..
Bhimkund	30.3	...	32·5	19	24·2	...	22·9	16	240.6	509·6	...	229·5	15	16	...	2·2	1·5	..	0	26	0	0	2	0	0	0	0	0	0
Narbada Catchment																													
Punasa	27·9	...	30·6	31	22·2	...	21·2	12	130·9	305·0	...	207·0	5	9	...	11·1	9·3	...	0	15	0	0	0	0	0	0	0	0	0
Bagra Tawa	27·8	...	31·2	26	23·3	...	22·6	30	135·8	384·3	...	63·6	18	18	...	10·4	9·1	...	0	26	0	0	0	0	0	0	0	0	0
Thikri	29·6	...	31·4	16,28,31	23·8	...	21.2	27,30	...	112·2	...	29·7	18	9	...	...	...	...	1	21	0	0	3	0	0	0	0	0	0
Sabarmati Catchment																													
Jhadol	...	...	...	...	...	...	...	...	...	184·0	...	7·5	5	6	...	...	...	...	0	6	...	...	...	...	...	..	...	...	...
Dharoi	30·5	...	32·0	3	24·6	...	23·2	27	105·3	177·6	...	60·0	12	9	...	...	...	...	0	9	...	...	...	...	...	...	...	..	...
Ganga Catchment																													
Mukhim	23·6	...	25·6	7	17·5	...	15·9	23	91·9	424·9	...	79·5	13	23	...	...	...	...	0	3	0	0	2	8	0	0	0	0	0
Tehri	33·6	...	36·6	7	24·0	...	21·6	24	25·8	134·7	...	59·5	24	9	...	5·2	3·5	...	1	17	0	0	0	0	0	0	0	0	0
Gandak Catchment.																													
Gorkha (R)																													
Pokhara	30·5	...	31·9	3 days	22·4	...	21·2	26	47.7	482·7	...	97·3	26	23	...	5·6	4·0	...	1	28	0	0	18	0	0	0	0	0	0
Nawakot	30·8	...	32·6	11	21.4	...	20·3	12	78·2	495·6	...	58·4	6	20	...	...	...	...	0	22	...		...	...	...	...	...	..	...
Jomosom	24·3	...	26·3	9	13·9	...	11·1	28	0	48·0	...	21·2	27	3	...	...	..	...	0	3	...	...	...	...	...	...	...	...	...
Khudi Bazar	...	...	...	...	...	...	...	...	...	731·7	...	64·8	11	22	...	...	...	...	1	27	...	...	...	...	...	...	...	...	...
Timure	26·9	...	28·4	11	17·9	...	17·2	24,27	1·3	221.1	...	28·5	2	21	...	...	.	...	0	28	...	...	...	...	...	...	...	..	...
Gogra Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Gogra Catchment																													
Dandeldhura	23·5	...	26·1	11	(b) 17·5	...	(b) 15·9	10	125·0	347·2	...	51·6	8	22	...	...	...	...	0	27	0	0	4	29	0	0	0	0	0
Munsiyari	20·9	...	23·4	11,12	16·2	...	14·9	17	105·7	649·9	...	75·5	5	23	...	...	...	...	0	26	..	...	...	...	...	...	...	...	...
Butwal	33.0	...	35·9	15	25·8	...	24.2	25	268·5	585·8	...	70.0	1	18	...	...	...	...	0	20	...	...	...	...	...	...	...	...	...

(j) Mean of 21 days. (a) Mean of 30 days. (b) Mean of 29 days. (g) Mean of 24 days. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—*Concld.*																													
Bagmati Catchment																													
Katmandu*																													
Kosi Catchment																													
Chautara	27·4	...	29·0	11	19·1	...	17·5	16	46·4	480·6	...	49·2	1	26	...	...	...	...	0	30	...	...	...	...	...	...	...	...	...
Chepua	...	...	...	...	...	...	...	...	75·8	544·2	...	45·8	13	28	...	...	...	...	0	31	...	...	...	...	...	...	...	...	...
Okhaldunga	24·4	...	27.6	9,11	18·5	...	16·5	16	187.0	520·2		78.0	29	21	...	1·6	1·5	...	1	27	0	0	9	9	0	0	0	0	0
Barahkshetra	32·0	...	34·3	10	24·3	...	23·4	25,28,31	427·2	625·4	...	111·5	19	22	...	6·9	4·2	...	1	28	0	0	13	0	0	0	0	0	0
Angbung	(b) 30·1	...	(b) 32·3	11	19·9	...	18·7	22,29,31	39·2	197·4	...	25·2	29	12	...	...	...	...	0	16	...	...	...	...	...	...	...	...	...
Taplejung	25·4	...	26·9	16	17·7	...	16.7	22	59·6	415·0	...	104·2	16	22	...	...	...	...	0	28	...	...	...	...	...	...	...	...	...
Taplethok	28·1	...	30·4	12	18.8	...	17·7	25	113·6	580·8	...	93·0	3	26	...	...	...	...	0	31	...	...	...	...	...	...	...	...	...
Wallung Chung Gola	17·8	...	19·9	11	10.3	...	7·4	14	92·8	277.1	...	24·8	22	26	...	...	...	...	0	31	...	...	...	...	...	...	...	...	...
Bhojpur	24.8	...	27.2	16	...	...	...	...	32·9	221·0	...	57.4	31	13	...	...	...	...	0	15	...	...	...	...	...	...	...	...	...
Chainpur	28·9	...	30·5	4 days	21·1	...	19·2	16	11·2	237·2	...	46·8	16	17	...	...	...	...	0	20	...	...	...	...	...	...	...	...	...
Tista Catchment																													
Gangtok	23·0	...	25·7	15,23	17.1	...	16·3	22	183·2	428.9	...	59·9	18	27	...	2.1	2·2	...	1	29	0	0	3	20	0	0	0	0	0
Geyzing	27·6	...	30.4	11	18.5	...	17·2	16	20·4	331·2	...	56·	17	17	...	...	...	...	0	23	...	...	...	...	...	...	...	...	...

*Data included under 'Nepal'

(b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed, (km. p.h.): 62 or more	Wind speed, (km. p.h.): 20 to 61	Wind speed, (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1007.0	1003 9	...	27.9	26·5	25·9	33·5	89	...	6·1	...	9·7	0	0	31	0	0	0	0	0	31	0	0	0	0
	1730	„	1004.9	1001·8	...	27·4	26·3	25·9	33·4	91	...	6·2	...	11·1	0	0	29	0	0	0	0	0	29	0	0	2	0
Long Island	0830	25	1007·3	1004·5	...	27·9	26·2	25·3	32·7	86	...	6·6	...	2·6	0	0	20	0	0	0	0	1	7	8	4	11	0
	1730	„	1005·1	1002·3	...	27·4	25.6	24·8	31·4	86	...	7·2	...	2·4	0	0	21	0	0	0	0	0	8	10	3	10	0
Port Blair	0530	79	1006.6	997·7	...	25·7	24·8	24·4	30·5	93	...	7·3	...	12·0	0	3	27	0	0	0	0	0	22	8	0	1	0
	0830	„	1008·0	999·1	−0·4	27·8	25·9	25·1	31·9	85	+1	7·3	+0·7	15.3	0	6	25	0	0	0	0	1	20	10	0	0	0
	1130	„	1007·1	998.3	...	28·2	25·9	24.9	31·7	82	...	7·5	...	21.6	0	15	16	0	0	0	0	0	20	11	0	0	0
	1730	„	1006·0	997·1	...	26·6	25·1	24.5	32·2	89	...	7·4	...	14·9	0	5	26	0	0	0	0	1	14	15	1	0	0
	2330	„	1007·4	998·5	...	25·9	25·0	24·6	31·0	92	...	6·3	...	14·1	0	5	25	0	0	0	0	0	18	12	0	1	0
Car Nicobar	0830	10	1009·1	1007·9	...	28·7	26·2	24.9	32·1	80	...	6·7	...	6·7	0	0	30	0	0	0	0	0	27	2	1	1	0
	1730	„	1006.7	1005·5	...	27·6	25·6	25·4	31·3	85	...	7·1	...	3·6	0	0	20	0	0	0	0	1	17	2	0	11	0
Nancowry	0830	26	1009·6	1006·7	...	28·1	25·9	24·9	31·6	83	...	5·9	...	7·9	0	0	22	0	0	0	0	2	20	0	0	9	0
	1730	„	1007·2	1004·3	...	27·4	25·7	24·9	31·7	86	...	5·6	...	6·2	0	0	18	0	0	0	0	2	16	0	0	13	0
Kondul	0830	8	1009·7	1008·8	...	28·2	25·7	24·6	31·1	81	...	6·4	...	8·5	0	3	26	0	1	0	28	0	0	0	0	2	0
	1730	„	1007·4	1006·5	...	27·1	25·3	24·6	31·0	86	...	6·7	...	4.8	0	0	18	0	0	0	18	0	0	0	0	3	0
Assam (including Manipur, Tripura)																											
Pasighat	0830	157	1002.8	985.3	...	28·1	25.6	24·5	30·7	80	...	6·8	...	4·5	0	0	21	3	2	4	1	2	1	0	8	10	0
	1730	„	998.2	980.8	...	30·5	26.9	25·5	32.5	75	...	5·5 (c)	...	1·3	0	0	8	0	0	0	0	0	1	2	5	23	0
Digboi	0830	„	...	...	...	28·2	26·0	25·1	31·8	84	...	4·9 (g)	...	...	0	0	28	4	8	1	3	4	5	2	1	0	0
	1730	„	...	...	...	29·6	26·5	25·2	32·1	76	...	3·9	...	...	0	0	24	5	2	4	4	7	0	2	0	0	0
Dibrugarh	0830	106	1002·6	990·8	−1·4	27·8	26·3	25·6	32·9	88	+1	6·7	+0·4	1·6	0	0	16	4	1	5	3	0	1	2	0	15	0
	1730	„	998·0	986·3	...	30·6	27·5	26·4	34·1	79	...	3·9	...	0·5	0	0	4	0	0	2	1	0	1	0	0	27	0
Dibrugarh (Mohanbari Aerodrome).	0230	111	1000·5	988·1	...	26·3	25·6	25·3	32·1	95	...	6·3	...	1·3	0	0	9	0	3	1	2	1	1	1	0	22	0
	0530	„	1001·3	989·3	...	26·1	25·4	25·0	31·9	94	...	7·3	...	1·2	0	0	8	0	4	0	1	0	1	2	0	23	0
	0830	„	1002·9	990·4	...	28·0	26·0	25·4	31·9	85	...	7·0	...	2·1	0	0	15	0	8	2	1	0	0	4	0	16	0
	1130	„	1001.5	989·1	...	30·0	26·9	25·5	33.1	78	...	6·4	...	3·0	0	0	22	3	9	1	0	1	3	3	2	9	0
	1730	„	998·1	985·9	...	30·6	27·4	25.6	34·0	76	...	4·9	...	1·7	0	0	10	1	4	1	0	0	2	0	2	21	0
	2330	„	1001·0	988·5	...	27·4	26·2	25·7	33·1	91	...	6·2	...	0·6	0	0	3	0	2	0	0	0	0	1	0	28	0
North Lakhimpur	0830	102	1002·9	991·5	...	27·3	26·1	25.6	33·6	89	...	6·6	...	3.6	0	0	22	7	3	6	1	1	3	1	0	9	0
	1130	„	1001·3	990·4	...	30·2	27·8	26·0	34·6	79	...	5·9	...	5·1	0	0	30	3	6	9	5	4	2	1	0	1	0
	1730	„	998·8	987·5	...	30·4	27·3	26·8	35·2	82	...	4·5	...	2.5	0	0	23	2	3	5	3	3	4	2	1	8	0
Sibsagar	0830	97	1003·3	992·5	−0·6	27·9	26·2	25·6	32·6	87	+1	7·4	+0·4	2·8	0	0	19	2	7	1	0	5	4	0	0	12	0
	1730	„	998·4	984·6	...	31·3	27·9	26·5	34·8	77	...	5·6	...	1·4	0	0	12	1	4	0	3	1	3	0	0	19	0
Jorhat	0530	90	1001·1	991·2	...	26·0	25·7	25·6	32·9	97	...	7·3	...	4·9	0	0	16	0	2	3	0	6	4	1	0	15	0
	0830	„	1002·3	992·4	...	28·1	26·5	25·9	33·3	88	...	6·7	...	6·8	0	1	23	1	6	1	0	5	7	3	1	7	0
	1130	„	1001·0	991·1	...	30·8	27·7	26.5	34·7	78	...	6·0	...	9·5	0	0	30	5	8	3	0	2	7	2	3	1	0
	1730	„	997·7	987·9	...	30·9	27·9	26·3	35.0	77	...	5.2	...	5·6	0	0	24	8	11	0	0	0	0	2	3	7	0
	2330	„	1000·8	990.8	...	27 5	26·5	26·2	33·8	93	...	6·2	...	2·8	0	0	9	1	0	1	0	3	2	2	0	22	0
Golaghat	0830	...	...	...	...	28·4	26 6	25·9	33·4	87	...	5·1 (b)	...	...	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	...	...	...	...	31·2	28.6	27·4	37.0	81	...	4·3	...	...	0	0	0	0	0	0	0	0	0	0	0	29	0
Gohpur	0830	...	...	...	...	28·3	27·0	26·4	34·6	80	...	...	...	2·9	0	0	30	0	0	27	1	1	0	1	0	1	0
	1730	...	...	...	...	30·3	28·3	21·4	36·7	83	...	...	...	2·7	0	0	28	0	2	18	3	5	0	0	0	3	0
Tezpur	0830	79	1002·7	993·9	−1·5	27·6	26·4	26·0	33·6	90	+3	6·9	+0·4	3·0	0	0	26	0	12	4	3	3	4	0	0	5	0
	1730	„	999·2	990·4	...	30·7	27·7	25·2	34·6	79	...	4·1	...	3.0	0	0	26	0	8	7	2	2	5	2	0	5	0
Tezpur (P. B. O.)†	0230(R)	78																									
	0530	„	1001·5	992·4	...	26·5	25·8	52·6	32·6	95	...	7·4	...	...	0	0	6	1	1	0	0	2	0	2	0	23	0
	0830	„	1002·8	994·1	...	28·2	26.7	26·1	33·7	88	...	7·2	...	...	0	0	20	1	3	7	2	4	2	1	0	9	0
	1130	„	1001·6	992·9	...	30·9	27·5	26·1	33·9	76	...	6·0	..	...	0	0	25	8	1	10	1	4	1	0	0	4	0
	1730	„	998·3	990·0	...	30·8	27·5	26·2	34·0	77	...	5·0	...	...	0	0	11	2	1	6	0	1	1	0	0	18	0
	2330(R)	„																									
Majbat	0830	...	...	...	...	...	...	...	...	...	...	7·5	...	7·2	0	0	29	2	5	14	2	1	3	2	0	2	0
	1730	...	...	...	...	...	...	...	...	...	..	5·8	...	3·2	0	0	19	1	7	4	2	0	2	1	2	12	0
Chaparmukh*	0830	66																									
	1730	„																									
Tangla	0830	78	1001·9	993·2	...	28.4	26.7	26·1	33·6	87	...	4·7	...	0·7	0	0	6	0	0	2	2	0	1	1	0	25	0
	1730	„	997·7	989.1	...	31·1	28·4	27·4	36·6	81	...	2·5	...	0·2	0	0	2	0	0	0	0	0	0	2	0	29	0
Gauhati	0830	55	1002·3	996.0	−1·1	28·4	27·2	26·7	35·2	90	+7	6·5	+0·4	0·4	0	0	4	0	0	1	1	0	0	1	1	27	0
	1730	„	998·7	992·5	...	30·4	28·9	28·2	38·5	89	...	6·5	...	0·7	0	0	7	1	1	4	0	0	1	0	0	24	0
Gauhati (Bhorjor‡ Aerodrome)	0230	54	1000·5	994·4	...	26·9	26·1	25·8	33·1	94	...	6·5	...	3·4	0	0	12	0	3	1	0	6	2	0	0	13	0
	0530	„	1000·8	994.7	...	26·6	26·0	25·7	33·2	95	...	7·0	...	2·9	0	0	15	4	4	1	1	3	1	1	0	16	0

(b) Mean of 29 days. (R) Register not received. †Observatory closed on 30-8-60, Observations for 29 days. (c) Mean of 28 days. (g) Mean of 24 days

‡Observations for 25 days. *Temporarily closed.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (oktas): Mean amount	Cloud amount (oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam including Manipur Tripura—(*Contd.*) Gauhati (Borjor) Aerodrome). *Contd.*	0830	54	1002·1	996·0	...	28·9	27·0	26·1	34·2	95	...	6·8	...	4·5	0	0	22	4	13	1	0	1	0	3	0	9	0
	1130	,,	1000·9	994·8	...	31·0	27·7	26·2	34·4	77	...	6·4	...	8.2	0	0	28	10	12	1	1	1	1	1	1	3	0
	1730	,,	998·4	992·3	...	29·5	27·1	26·1	34·0	82	...	6·3	...	5·3	0	0	25	5	1	1	4	7	3	3	1	6	0
	†2330	,,	1001·5	995·5	...	27·2	26·3	25·9	33·5	9·3	...	5·6	...	3·0	0	0	11	0	4	1	0	3	3	0	0	15	0
Rangiya	0830	...	..	...	...	29·2	26·8	25·8	33·2	82	...	(a) 5·3	...	(a) 4·3	0	0	27	1	9	11	0	1	3	2	0	3	0
	1730	...	...	...	...	31·7	28·0	26·5	34·6	74	...	(a) 4·6	...	(a) 2·8	0	0	26	2	8	5	1	1	1	7	1	4	0
Goalpara	0830	38	1001·2	996·9	...	28·2	26·7	26·0	33·7	88	...	6·9	...	2·6	0	0	25	1	3	5	7	4	1	2	2	5	0
	1730	,,	998·0	993·7	...	31·2	28·0	27·1	35·1	79	...	5·9	...	2·5	0	0	24	0	5	1	8	3	3	0	4	7	0
Dhubri	0830	35	1002·3	998·4	−1·0	28·8	27·1	26·4	34·4	87	+2	4·0	−1·8	1·2	0	0	12	1	7	2	2	0	0	0	0	19	0
	1730	,,	998·9	995·0	...	29·6	27·6	26·8	35·1	86	...	5·4	...	0·1	0	0	1	0	1	0	0	0	0	0	0	30	0
Dhubri (Rupsi Aerodrome).	0530	36	999·8	995·7	...	26.5	26·0	25·7	33·4	96	...	6·8	...	1·8	0	0	12	0	2	6	2	1	1	0	0	19	0
	0830	,,	1001·1	997·1	...	29·1	26·9	26·3	33·6	85	...	6·0	...	5·9	0	1	24	0	2	12	5	4	1	0	0	6	1
	1130	,,	1000·4	996·4	...	30·7	27·5	26·1	34·1	77	...	6·0	...	6·2	0	0	25	0	0	6	13	1	4	1	0	6	0
	1730	,,	997·5	993·4	...	30·3	27·5	26·5	34·5	81	...	5·9	...	2·0	0	0	15	1	2	2	3	2	4	0	0	16	1
Tura	0830	370	1004·5	963·7	...	26·6	25·0	24·1	31·9	87	...	7·6	...	2·1	0	0	19	2	5	4	2	1	3	2	0	12	0
	1730	,,	1000·7	960·1	...	28·3	25·8	24·6	31·3	83	...	7·5	...	5·2	0	0	30	1	3	3	2	6	8	7	0	1	0
Agartala	0230	16	1000·1	998·3	...	25·9	25·2	25·0	31·6	95	...	6·3	...	10.1	0	1	30	0	0	4	21	6	0	0	0	0	0
	0530	,,	1000·3	998·5	...	25·5	24.9	24·7	31·2	95	...	6·7	...	8·8	0	0	30	0	2	7	19	2	0	0	0	1	0
	0830	,,	1001·5	999·8	...	28·8	26·3	25·1	32·5	81	...	6·5	...	12·3	0	1	29	0	0	1	19	9	0	0	1	1	0
	1130	,,	1000·8	999·0	...	30·6	27·2	26·1	33·4	77	...	6·4	...	12.3	0	1	28	0	0	2	12	9	4	2	0	2	0
	1730	,,	998·2	996·5	...	29·0	26·8	25·9	33·4	84	...	6·2	...	10·0	0	0	29	3	0	0	5	17	1	2	1	2	0
	2330	,,	1001·2	999·4	...	26·4	25·5	25·2	31·9	93	...	6·4	...	9·6	0	0	29	0	0	2	19	8	0	0	0	2	0
Kailashar	0530	29	1001·9	998·6	...	25·8	25.5	24·8	32·4	94	...	6·7	...	1·4	0	0	11	0	4	1	0	5	0	0	1	20	0
	0830	,,	1003·1	999.8	...	28·7	26·3	25·3	32·3	82	...	6·2	...	3·7	0	0	25	2	5	4	3	9	1	0	1	6	0
	1130	,,	1002·1	998·9	...	31·6	27·6	26·0	33·6	72	...	6·4	...	4·7	0	0	27	1	6	0	5	11	0	3	1	4	0
	1730	,,	999·2	996·0	...	29·8	27·1	25·9	33·5	81	...	6·7	...	2·8	0	0	19	0	2	0	2	6	2	5	2	12	0
Silchar	0830	29	1002·8	999·5	−1·7	29.2	26·5	25·5	32·4	80	−6	5·5	−0·9	2·3	0	0	24	3	8	3	5	1	2	1	1	7	0
	1730	,,	998·9	995·7	...	30·2	27·3	26·4	33·8	79	...	4·4	...	1·7	0	0	17	0	0	1	1	2	2	6	5	14	0
Silchar (Kumbhigram Aerodrome).	0530	97	1000·5	989·6	...	24·9	24.5	24·3	30·4	97	...	6·8	...	7·3	0	0	27	2	5	13	4	0	0	1	2	4	0
	0830	,,	1001·4	990·6	...	28·3	25·6	25·5	30.5	84	...	6·4	...	7·8	0	0	27	0	0	13	6	3	3	9	2	4	0
	1130	,,	1000·1	989·4	...	31·3	27·1	25·3	32·4	71	...	6·1	...	8·6	0	0	30	0	1	3	3	1	9	9	4	1	0
	1730	,,	997·3	986·6	...	29·7	27·0	25.8	33·5	77	...	6.0	...	7.5	0	0	30	2	0	6	2	1	7	7	5	1	0
Imphal	0530	801	1003·1	916·0	...	22·9	22·3	22·1	26·6	95	...	6·9	..	0·9	0	0	6	1	2	1	1	0	1	0	0	25	0
	0830	,,	1003·9	917·4	...	25·1	23·1	22.2	26·9	84	...	6·7	...	2·5	0	0	18	3	2	3	3	3	2	0	2	13	0
	1130	,,	1002·0	916·3	...	27.8	23·9	22·2	26.5	72	...	6·9	...	4·9	0	0	26	1	2	3	4	6	7	2	1	5	0
	1730	,,	999·6	913·8	...	26·5	23·4	22·1	26·6	77	...	6·2	...	3·9	0	0	20	1	1	1	2	8	4	1	2	11	0
	2330	,,	1003·5	916·6	...	23·7	22·9	22·6	27·3	93	...	5·9	...	2·3	0	0	10	2	0	0	0	2	2	1	3	21	0
Haflong	0830	682	1001·9	927·6	...	24·5	22.9	22·2	26·5	87	...	5·4	...	7·1	0	1	30	1	0	0	0	9	21	0	0	0	0
	1730	,,	997·3	923·8	...	26·6	24·0	22·8	27·6	80	...	5·5	...	5·1	0	0	31	0	0	0	0	3	28	0	0	0	0
Lumding	0830	149	1001·8	985·2	...	28·7	26·7	25·8	33·2	85	+2	6·7	...	2·4	0	0	24	1	3	8	9	1	2	0	0	7	0
	1730	,,	996.2	981·8	...	30·7	27·6	26·4	34·2	79	...	5·3	...	2·5	0	0	20	1	4	2	1	1	1	0	4	11	0
Sub-Himalayan West Bengal Cooch Behar	0830	43	1001·7	996.9	...	29.5	26·8	15·7	33·0	80	...	6·3	...	8·4	0	0	26	0	8	13	6	4	0	0	0	5	1
	1130	,,	1000·8	996·0	...	31·1	27·3	25·7	33·1	74	...	6·4	...	8·3	0	0	28	0	2	11	9	3	0	0	1	3	2
	1730	,,	998·1	993·3	...	30·3	27·4	26·2	34·3	79	...	5·8	...	2.9	0	0	13	0	4	4	2	2	0	0	1	18	0
Jalpaiguri	0830	83	1001·5	992·3	−1·4	28·3	26·4	25·6	32·8	86	−1	4·1	−0·9	6·2	0	0	25	0	6	16	1	0	0	1	1	6	0
	1730	,,	998·0	988·3	...	30·1	27·2	26·0	33·9	79	...	4·1	...	7·0	0	0	29	6		6	8	2	0	0	1	2	0
Bagdogra	0230	131	999·9	985·3	...	26·9	25·7	25·2	32·2	91	...	6·6	...	6·5	0	0	29	6	11	9	0	0	1	2	0	2	0
	0530	,,	1000·3	985·6	...	26·0	25·2	24·9	31·3	94	...	7·0	...	5·1	0	0	27	7	10	10	0	0	0	0	0	4	0
	0830	,,	1001·4	986·8	...	28·8	26·3	25·1	32·3	81	...	6·6	...	8·5	0	1	29	0	7	19	1	0	2	1	0	1	0
	1130	,,	1000·7	986·2	...	31.1	27·1	25·4	32·6	72	...	6·6	...	9·4	0	0	30	0	1	13	12	3	1	0	0	1	0
	1730	,,	997·9	983·4	...	29·3	26·8	25·6	32·7	79	...	6·3	...	6·0	0	0	29	1	6	10	5	3	2	0	2	2	0
	2330	,,	1001·0	986·4	...	27·7	26.0	25·4	31·3	88	...	6·8	...	6·7	0	0	28	7	8	10	2	1	0	0	0	3	0
Malda	0830	31	1000·7	997·2	−1.7	29·6	27·4	26·3	34·7	84	+1	6·7	+1·1	10·8	0	1	30	0	1	17	8	4	0	1	0	0	0
	1730	,,	997·6	994·1	...	30·1	27·3	26·1	34·0	80	...	6·5	...	7·7	0	0	29	0	3	13	10	0	1	1	1	2	0
Gangetic West Bengal Dum Dum	0230	6	998·2	997.5	...	27·3	26.5	26·1	33·9	93	...	5·6	...	5·1	0	1	22	3	2	2	7	6	3	0	0	8	0
	0530	,,	998·4	997·7	...	27·0	26·4	26·1	34·1	95	...	6·9	...	4·5	0	0	25	4	2	4	6	4	3	2	0	6	0
	0830	,,	1000·0	999·3	...	28·9	26.9	26·1	34·0	85	...	7·0	...	6·6	0	1	27	2	3	5	7	7	1	2	1	3	0
	1130	,,	999·3	998·6	...	30.7	27·3	25·9	33·6	77	...	6·3	...	8·3	0	1	30	3	3	3	9	7	3	2	0	0	1

(R) Register not received. †Observations for 26 days. (a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal—*Contd.*																											
Dum Dum—*Contd.*	1730	6	996·9	996·2	...	29·3	27·0	26·1	33·9	83	...	6·5	...	5·8	0	1	27	0	3	2	7	11	3	1	1	3	0
	2330	,,	999·6	998·9	...	27·7	26·6	26·2	34·0	92	...	5·6	...	6·6	0	1	29	1	2	1	8	14	4	0	0	1	0
Calcutta	0830	6	999·8	999·1	−2·1	29·0	27·0	26·2	34·0	85	0	7·3	+0·6	6·3	0	0	30	0	4	7	4	6	8	1	0	1	0
	1130	,,	999·1	998·4	...	30·9	27·4	26·1	33·8	76	...	7·0	...	8·0	0	1	29	0	4	5	4	5	8	3	1	1	0
	1730	,,	996·8	996·1	...	29·6	27·1	26·1	33·7	82	...	6·6	...	6·3	0	0	29	0	2	2	5	12	7	1	0	2	0
Barrackpore (Aerodrome)	0530	7	998·8	998·0	...	27·1	26.4	26·1	34·1	96	...	6.4	...	6·2	0	0	24	0	4	10	4	3	2	1	0	7	0
	0830	,,	1000·2	999.5	...	29·0	27·4	26·8	35·2	88	...	6.7	...	10·8	0	1	30	1	6	9	7	2	5	1	0	0	0
	1130	,,	999.6	998·9	...	30·6	27·8	26·6	35·1	80	...	6·7	...	11·6	0	2	27	0	5	7	5	2	8	2	0	2	0
	1730	,,	997.1	996·4	...	29·4	27·2	26·3	34·3	84	...	6·5	...	8·9	0	0	31	0	3	4	10	7	4	2	1	0	0
	2330	,,	1000·0	999·3	...	27·9	26·8	26·3	34·3	91	...	5·0	...	6·1	0	1	21	0	3	5	5	5	4	0	0	9	0
Saugor Island	0830	3	999·3	999·0	−2·3	29·1	27·3	26·7	35·1	87	+3	6·0	−8·0	20·6	0	16	15	3	3	1	1	6	10	5	2	0	0
	1730	,,	996·7	996·4	...	28·9	27·2	26·6	34·8	88	...	6·5	...	22·1	0	15	16	1	1	1	5	10	9	2	2	0	0
Sandheads	0530	10	998·0	996·9	...	28·5	26·7	25·9	33·5	86	...	6·9	...	20·8	0	16	14	4	0	0	1	1	18	4	2	1	0
	0830	,,	999·5	998·4	−2·6	28·7	26·9	26·3	34·1	85	+2	6·3	+0·5	16·3	0	8	21	1	3	1	0	1	18	1	4	2	0
	1130	,,	999·5	998·4	...	29·1	27·0	26·0	33·9	83	...	6·9	...	17·1	0	10	19	3	1	1	0	0	18	3	3	2	0
	1730	,,	997·1	996·0	...	29·3	27·1	26·3	34·0	83	...	6·9	...	18·8	0	12	17	1	2	0	1	4	19	2	0	2	0
	2330	,,	999·3	998.2	...	28·9	27·1	26·4	34·5	86	...	1·8	...	20·1	0	13	17	1	0	0	1	2	21	4	1	1	0
Contai	0830	11	999·8	998.6	...	29·1	27·1	26·3	34·1	85	...	4.8	...	5·0	0	0	27	3	3	0	2	5	9	5	0	4	0
	1730	,,	997·1	995.9	...	28·8	27·1	26·3	34·5	87	...	4·7	...	6.2	0	0	26	0	0	0	7	7	8	3	1	5	0
Midnapore	0830	45	999·6	994·4	−2.2	28·8	26·6	25·7	33·1	83	0	5·4	−0·3	3·2	0	0	22	4	5	2	0	5	5	1	0	9	0
	1730	,,	996·8	991.7	...	28·9	26·7	25·8	33·2	84	...	6·0	...	2·6	0	0	21	1	1	1	0	11	5	2	0	10	0
Purulia	0830	255	999·9	972.1	...	27·7	25·7	24·9	32.6	85	...	7.5	...	4·0	0	0	29	1	2	1	14	1	0	0	10	2	0
	1730	,,	997·1	968.9	...	29·0	26.2	25·0	31.8	80	...	7·8	...	3·5	0	0	26	0	2	0	14	1	1	0	8	5	0
Burdwan	0830	32	1000·0	996·5	−1·7	29·4	27.3	26.3	34.2	83	−1	4·5	−2·1	8·4	0	0	27	0	3	10	5	4	3	2	0	4	0
	1730	,,	997·2	993·4	...	29.3	27·5	26·6	34·8	86	...	5·9	...	5·6	0	0	23	0	2	6	5	7	3	0	0	8	0
Krishnagar	0830	15	1000.4	998·7	−2·0	29·6	27·5	26·8	35·0	85	+1	5·1	−1·1	2·1	0	0	21	0	1	9	3	6	0	1	0	10	1
	1730	,,	997·2	995·6	...	29·8	27·6	26·9	35·0	85	...	4·6	...	1·7	0	0	18	0	0	7	2	9	0	0	0	13	0
Asansol	0230	126	998·2	984·2	...	26·7	26·3	26·2	34·0	97	...	6·9	...	6·7	0	1	19	2	1	4	7	3	0	3	0	11	0
	0530	,,	998·3	984·2	...	26·3	26·0	25·9	33·4	98	...	7·2	...	5·3	0	0	17	0	2	4	6	2	0	3	0	14	0
	0830	,,	999·9	985·8	−1·4	28·3	26.9	26·3	34·4	89	+4	6·9	+0·3	8·5	0	1	22	0	5	9	7	1	0	1	0	8	0
	1130	,,	999·3	985·3	...	30·6	27·9	26·5	35·4	81	...	6·9	...	9·3	0	3	19	0	4	6	11	0	0	1	0	9	0
	1730	,,	996·6	982·6	...	29·4	27·5	26·8	35·1	86	...	7·2	...	8·4	0	1	22	0	3	7	11	1	0	1	0	8	0
	2330	,,	999·5	985·4	...	27·2	26·6	26·4	34·3	96	...	6·1	...	6·3	0	1	17	1	2	4	5	3	0	2	1	13	0
Suri	0830	77	1000·3	991·8	...	28·9	26·9	26·1	34·0	85	...	7·2	...	6·1	0	0	30	2	6	8	9	1	2	1	1	1	0
	1730	,,	997·4	988·9	...	29·6	27·0	25·9	33·6	81	...	7·3	...	6·7	0	0	30	0	3	11	9	4	2	1	0	1	0
Berhampur	0830	19	1000·2	998·2	−1·7	29·4	27·4	26·6	34·9	85	0	7·4	+0·8	2·3	0	0	11	0	0	7	0	3	1	0	0	20	0
	1730	,,	996·9	994·8	...	29·5	27·3	26·4	34·4	83	.	7·3	...	1·0	0	0	8	0	0	5	1	2	0	0	0	23	0
Orissa																											
Baripada	0830	54	1000·5	994·4	...	28·6	26·5	25·7	32.9	84	...	7·2	...	1·8	0	0	16	5	1	0	2	0	4	1	3	15	0
	1730	,,	997·3	991·3	...	28·4	26·4	25·6	32·9	85	...	6·8	...	1.5	0	0	15	3	1	1	1	3	4	2	0	16	0
Balasore	0830	20	999·5	997·3	−2·1	28·4	26.7	26·0	33·7	87	+4	6·9	+1·1	6·7	0	3	19	1	2	0	1	3	12	1	2	9	0
	1730	,,	996·9	994·7	...	28·5	26·7	26·0	33·7	87	...	6·9	...	6·0	0	2	20	0	1	0	2	7	11	1	0	9	0
Chandbali	0830	6	1000·1	999.4	−2·0	28·2	26·6	26·1	33·4	87	+4	4·9	−1·2	7·2	0	2	27	0	0	0	0	2	14	7	6	2	0
	1730	,,	997·5	996·8	...	29·4	27·2	26·6	34·3	82	...	5·2	..	7·0	0	1	29	1	0	1	2	5	11	8	2	1	0
Cuttack	0830	27	1000·5	997·5	−1·8	27·7	26·2	25·4	32·7	87	+6	6·2	+0.2	0·9	0	0	3	0	0	0	0	0	1	2	0	28	0
	1730	,,	997·6	994·6	...	29 8	26·9	25·7	33·0	81	...	6·7	...	0·6	0	0	2	0	0	0	0	0	0	2	0	29	0
Bhubaneswar	0230	46	999·1	993·9	...	26·5	25·7	25·4	32·3	93	...	6·0	...	8·6	0	3	17	0	0	0	0	1	9	8	2	11	0
	0530	,,	999·3	994·1	...	26·1	25·3	25·0	31·5	94	...	6·8	...	8·2	0	1	26	0	0	0	0	1	10	14	2	4	0
	0830	,,	1000·9	995·7	...	27.7	26·0	25·2	33·9	86	...	6·7	...	10·5	0	2	28	0	1	0	0	0	12	14	3	1	0
	1130	,,	1000·6	995·4	...	29·3	26·4	25·2	32·2	79	...	7·0	...	14·3	0	3	28	0	0	1	0	1	12	13	4	0	0
	1730	,,	998·3	993·1	...	28.4	26·3	25·4	32·4	85	...	7·1	...	13·3	0	5	25	0	0	0	0	4	14	10	2	1	0
	2330	,,	1000·6	995·4	...	27·0	26·0	25·5	32·8	92	...	6·0	...	11·7	0	3	27	0	0	0	0	2	18	9	1	1	0
Puri	0830	6	1001·2	1000·5	−1·0	29·0	26·6	25·9	32·9	83	+1	6·9	+1·3	16·8	0	10	28	0	0	0	0	1	15	12	2	1	0
	1730	,,	998·7	998·0	...	28·9	26·9	25·9	34·0	86	...	7·5	...	19.3	0	13	18	0	0	0	0	0	21	9	1	0	0
Gopalpur	0530	17	1000·0	998·1	...	27·2	25·4	24·7	31·1	87	...	6·8	...	4·7	0	0	19	1	0	0	0	1	12	2	3	12	0
	0830	,,	1001·4	999·5	−1·0	28·9	26·3	25·2	32·3	80	−1	6·5	+1·5	8·5	0	3	21	0	0	0	0	6	16	2	0	7	0
	1130	,,	1001·1	999.2	...	30·6	26·9	25·3	32·6	74	...	6·5	...	14·4	0	7	23	0	0	0	0	13	13	2	2	1	0
	1730	,,	998·8	996·9	...	29·1	27·0	26·1	34·0	84	...	7·2	...	17·5	0	12	16	2	0	1	0	7	16	2	0	3	0
	2330	,,	1001·2	999.3	...	27·8	26·1	25·2	32·5	87	...	6.6	...	6·7	0	0	27	4	0	0	0	1	14	4	4	4	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Koraput	0830	913	1459·1	905·4	...	22·2	21·2	20·4	24·5	91	...	6·7	...	13.2	0	4	27	0	0	0	0	0	5	12	14	0	0
	1730	,,	1440·9	903.4	...	22·8	21·1	20·2	23·8	86	...	6·6	...	13.0	0	3	28	0	0	0	0	1	6	18	6	0	0
Titilagarh	0830	211	1002.3	978·9	...	26·2	24·5	23·8	29·4	86	...	3·2	...	3·0	0	0	31	0	1	0	3	7	18	0	2	0	0
	1730	,,	999·5	976·1	...	27·8	26·4	25·6	32·2	86	...	3·0	...	3·0	0	0	31	1	1	0	4	5	17	0	3	0	0
Bolangir	0830	190	999.7	978.5	...	26·9	24·8	23·7	29.5	83	...	7·1	...	10·0	0	1	30	0	0	0	1	13	12	2	1	0	2
	1730	,,	998·3	977.2	...	28·0	25·5	24·2	30·6	81	...	7·3	...	7.1	0	0	31	2	[illegible]	1	4	10	9	1	2	0	2
Phulbani	0830	464	998·3	947·5	...	25·2	23·4	22·6	27.7	86	...	7·0	...	2·4	0	0	9	0	0	0	0	1	3	5	0	22	0
	1730	,,	996·6	946·1	...	26·7	24·2	23·2	28·3	81	...	7·1	...	2·6	0	0	11	0	0	0	3	0	2	6	0	20	0
Angul	0830	139	1000·7	985·4	−1.0	26·9	25·1	24·1	31·8	86	+5	7·7	+1.7	4·8	0	0	29	2	1	2	0	2	4	4	14	2	0
	1730	,,	998.0	982·0	...	28·6	25·7	24·4	32·3	79	...	7·4	...	4·7	0	0	27	1	1	1	0	2	1	7	14	4	0
Keonjhar	0830	463	1000·4	946·3	...	25·8	23·7	22.8	28·0	83	...	6·8	...	5·2	0	0	30	1	0	0	2	0	5	13	9	1	0
	1730	,,	998·3	944·5	...	26·7	24·1	23·0	29·1	80	...	7·8	...	3·4	0	0	31	1	0	0	1	3	9	14	3	0	0
Sambalpur	0830	148	1001·0	984·5	−1.0	27·0	25·3	24·5	31·0	86	+1	7·3	+0.7	3·2	0	0	21	0	0	0	0	5	12	4	0	10	0
	1730	,,	997·8	981·4	...	28·0	25·7	24·8	31·2	83	...	6·9	...	2·3	0	0	18	0	0	0	0	5	10	3	0	13	0
Jharsuguda	0230	230	998.8	973·2	...	25·3	24·7	24·4	30·1	95	...	7·6	...	6·1	0	1	26	0	0	0	4	0	11	11	1	4	0
	0530	,,	998·9	973·3	...	25·1	24·7	24·4	30·9	96	...	7·7	...	5.9	0	1	27	0	0	0	1	3	13	9	2	3	0
	0830	,,	1000.5	974·9	...	26·3	25·2	24·6	31·3	91	...	7·8	...	7·5	0	1	30	0	0	0	1	2	13	14	1	0	0
	1130	,,	1000·1	974·6	...	27·9	25·8	24·9	31·7	84	...	7·7	...	9·9	0	0	30	0	0	0	0	0	13	14	3	1	0
	1730	,,	997·5	972·1	...	27·9	25·7	24·8	31·4	84	..	7·6	...	9·9	0	0	30	0	0	0	2	0	13	15	0	1	0
	2330	,,	1000·2	974·6	...	25·9	25·1	24.8	31·2	94	...	7·6	...	7.5	0	0	27	1	0	0	2	3	10	11	0	4	0
Bihar Plateau Jamshedpur	0830	129	999·8	985·4	−1·8	27·9	25·9	25·1	33·4	35	+3	7·0	+0·1	7·0	0	0	29	0	2	5	1	1	8	11	1	2	0
	1730	,,	996·5	982·3	...	29·3	26·5	25·1	32·3	79	...	7·3	...	5·7	0	0	27	0	1	5	5	1	4	10	1	4	0
Jamshedpur (P. B. O.)	0530	142	998·3	982·5	...	26·3	25·3	24·9	31·3	92	...	7·0	...	5.0	0	1	25	2	0	1	4	4	12	2	1	5	0
	0830	,,	999·7	983·9	...	27 9	25·9	25·1	31·8	84	...	7.1	...	7·5	0	1	30	1	5	1	4	4	10	5	1	0	0
	1130	,,	999·3	983.7	...	29·5	26·3	25.0	31·5	77	...	6·9	...	9·0	0	0	30	1	5	2	2	5	9	4	2	1	0
	1730	,,	996·7	981·0	...	29.3	26.3	25·1	33.3	79	...	7·4	...	7·5	0	0	29	2	2	4	4	1	11	4	1	2	0
	2330	,,	999·5	983·7	...	27·0	25·9	25·2	32·5	91	...	6·7	...	5·0	0	0	27	2	3	4	4	3	5	4	2	4	0
Chaibasa	0830	226	999·6	974·6	−1·4	27·3	25·6	24·6	30.4	86	+3	7·0	+0·6	1·8	0	0	18	0	3	1	0	0	13	0	1	13	0
	1730	,,	996·6	971·9	...	28·8	26·2	24.9	32·1	80	...	7·0	...	1.8	0	0	18	0	3	0	2	0	11	2	0	13	0
Ranchi	0830	655	998·9	927·3	−1·8	25.0	23.4	22·7	27.6	89	+4	7·4	+0·7	0·3	0	0	3	0	0	0	2	1	0	0	0	28	0
	1730	,,	997.3	926.4	...	26 0	23.8	22·9	27·9	82	...	6·9	...	0·1	0	0	1	0	0	0	0	0	0	0	1	30	0
Ranchi (C. W. O.)	0530	652	998·4	927·2	...	23·4	22·9	22·5	27·3	95	...	7·2	...	4.9	0	1	17	1	3	3	1	0	5	3	2	13	0
	0830	,,	999·5	928·6	...	25·1	23.6	22·9	27·9	88	...	7·5	...	6·3	0	1	25	1	3	3	2	2	5	1	8	6	0
	1130	,,	999·0	928·4	—	26·3	24·1	23·1	26·6	80	...	7·6	...	7·4	0	0	28	3	5	5	0	5	4	3	3	3	0
	1730	,,	996·5	926·2	...	26·7	24·0	22·9	27·9	81	...	(h) 7·5	...	(h) 8·2	0	0	22	0	3	2	6	2	2	1	6	1	0
Daltonganj	0830	221	999·8	975·3	−1·3	28·3	26·0	25·0	31·7	83	0	7·3	+2·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	,,	999·6	972·2	...	29·2	27·0	26·2	33·9	84	...	7·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hazaribagh	0830	611	999·8	933·5	−1·2	25·5	24.3	23·8	29·6	91	+7	7·0	−0·2	7·2	0	0	23	0	2	5	4	2	1	0	9	8	0
	1730	,,	996·7	930·6	...	27·0	24·7	24·2	29·5	85	...	6.9	...	8·6	0	0	29	3	3	6	3	5	2	1	6	2	0
Dhanbad	0830	257	999·8	971·3	...	27·6	26·2	25·6	31.7	89	...	6·7	...	3·4	0	0	25	1	4	8	6	2	0	3	1	6	0
	1730	,,	996·7	968·3	...	28·5	26·5	25·7	33·3	85	...	6·5	...	3·1	0	0	19	1	3	3	7	1	0	3	1	12	0
Dumka	0830	149	999·9	983·3	—1.8	28·5	26·6	25·9	33·2	86	+3	5·1	−0·7	5·9	0	0	23	2	1	3	10	4	0	3	0	8	0
	1730	,,	997·1	980·7	...	29.3	26·7	25·7	32·9	82	...	5·1	...	4·1	0	0	14	0	0	3	8	3	0	0	0	17	0
Bihar Plains Purnea	0830	38	1000.7	996·5	—1.5	29·5	27·4	26·6	34·9	85	−1	5·9	+0·1	2·3	0	0	22	0	2	19	0	0	0	0	0	9	0
	1730	,,	998·2	994·0	...	29·8	27·6	26·7	34·8	84	...	4·0	...	1·5	0	0	14	0	3	12	1	0	1	0	0	17	0
Forbesganj	0830	61	1000·6	993.8	...	29·2	27.0	26.2	33.9	84	...	5.9	...	5·8	0	1	30	0	6	19	5	0	0	0	0	1	0
	1730	,,	997.1	990.4	...	31·1	27.8	26.5	34.6	78	...	5.7	...	3·2	0	1	25	0	4	14	6	0	1	0	0	6	0
Darbhanga	0830	49	1000·2	994·7	—1·5	30·0	27·4	26·4	34·6	81	—1	5·3	−0·8	4·1	0	0	31	0	5	12	9	2	3	0	0	0	0
	1730	,,	997·4	991·9	...	30·8	27·6	26·2	34·0	77	...	4·8	...	3·9	0	0	31	0	5	10	7	3	3	2	0	0	0
Motihari	0830	66	1000·5	993·1	—1.3	29·5	27·3	26·5	34·4	85	+3	6·8	+1.7	2·0	0	0	14	1	6	3	4	0	1	0	0	17	0
	1730	,,	997·4	989·9	...	30·1	27·9	27·0	35·7	85	...	3·5	...	1·2	0	0	10	1	7	0	1	0	1	0	0	21	0
Chapra	0830	...	...	...	...	29·6	27·4	26·4	34·8	84	...	6·3	...	2·6	0	0	13	0	3	8	1	0	0	1	0	18	0
	1730	...	...	...	...	30·3	27·1	26·3	33·3	79	...	5·4	...	1·1	0	0	8	0	0	4	3	1	0	0	0	23	0
Patna	0830	53	1000·0	994·1	−1.4	29·1	27·3	26·3	34·9	84	+2	6·3	−0·6	8.7	0	0	24	0	0	18	3	0	1	2	0	7	0
	1730	,,	996·8	991·0	...	30·5	27·5	26·2	34·3	78	...	6·2	...	5·6	0	0	22	0	4	12	2	0	0	3	1	9	0
Patna (Aerodrome)	0530	60	998·2	991·5	...	27·5	26·8	26·4	34·8	94	...	6·6	...	5·3	0	0	15	0	0	12	1	0	0	2	0	16	0
	0830	,,	999·7	993·0	...	29·2	27·3	26·5	34·7	86	...	6·7	...	10.1	0	0	24	0	2	12	8	0	0	1	1	7	0
	1130	,,	999·2	992·6	...	30·8	27·7	26·3	34·7	77	...	6·6	...	9·5	0	0	25	0	1	13	7	2	0	1	1	6	0

(h) Mean of 23 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean windspeed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*) Patna (Aerodrome)—*contd.*	1730	60	996·1	989·5	...	30·6	27·5	26·2	34·2	79	...	6·1	...	8·3	0	0	22	0	2	11	4	0	0	2	2	9	1
	2330	52	999·6	993·8	...	28·8	27·4	27·0	35·5	90	...	3·6	...	4·4	0	0	12	0	0	10	1	0	0	1	0	19	0
Dhori	0830	107	999·5	987·6	..	28·3	26·6	25·9	33·5	85	...	6·6	...	3·2	0	0	29	3	4	5	7	2	6	2	0	2	0
	1730	"	995·7	983·8	...	29·9	27·2	25·7	33·8	79	...	7·0	...	3·2	0	0	31	1	7	6	4	0	3	7	3	0	0
Gaya	0230	116	998·5	985·4	...	27·1	26·3	25·9	33·5	92	..	6·3	...	5·8	0	1	18	0	2	8	1	1	2	4	1	12	0
	0530	"	998·6	985·5	...	26·7	26·0	25·6	33·1	94	..	6·8	...	7·1	0	1	23	1	2	8	1	1	7	2	2	7	0
	0830	"	1000·0	987·0	−1·1	28·6	26·7	25·9	33·4	86	+9	6·8	+1·6	8·8	0	3	22	1	1	10	2	2	1	6	2	6	0
	1130	"	999·6	986·7	...	30·7	27·2	25·8	33·3	76	...	6·8	...	10·6	0	5	20	1	3	9	2	1	2	4	3	6	0
	1730	"	996·6	983·8	...	30·1	27·2	26·0	33·8	79	...	6·8	...	8·4	0	3	22	1	7	9	3	1	0	1	3	6	0
	2330	"	999·7	986·7	...	27·8	26·7	26·3	34·1	91	...	6.3	..	6·8	0	1	22	0	4	7	2	1	4	4	1	8	0
Jamui	0830	82	999·8	990·5	...	29·4	27·5	26·7	35·1	85	...	5·7	...	1·7	0	0	13	0	0	13	0	0	0	0	0	18	0
	1730	"	996·7	987·4	...	30·0	27·8	26·7	35·5	82	...	5·7	...	1·5	0	0	12	0	0	11	0	0	0	1	0	19	0
Bhagalpur	0530	49	999·3	993·8	...	27·3	26·4	26·1	33·8	93	...	6·5	...	6·3	0	1	21	2	0	13	6	0	0	1	0	9	0
	0830	"	1000·7	995·3	...	29·5	27·2	26·3	34·3	83	...	6·7	...	7·3	0	1	24	0	0	15	9	0	0	0	1	6	0
	1130	"	1000·2	994·8	...	30·9	27·6	26·3	34·1	77	...	6·9	...	8·6	0	2	27	0	1	16	10	0	1	0	1	2	0
	1730	"	997·5	992·0	...	30·1	27·4	26·3	34·5	81	...	6·7	...	6·7	0	0	27	2	1	9	10	1	2	1	1	4	0
	2330	"	1000·4	994·9	...	28·2	26·9	26·4	33·7	90	...	5·2	...	6·2	0	1	25	1	0	14	9	0	1	1	0	5	0
Sabour	0830	37	1000·4	996·2	−1·5	29·3	27·3	26·3	34·8	85	0	6·8	+0·2	7·7	0	0	31	1	1	23	4	0	2	0	0	0	0
	1730	"	997·1	992·9	...	29·9	27·6	26·5	35·2	83	...	6·7	...	5·9	0	0	26	0	1	15	6	0	0	2	2	5	0
Uttar Pradesh (East) Gonda	0830	110	999·8	987·6	...	28·9	27·1	26·3	34·2	86	+2	6·4	+0·2	2·8	0	0	22	1	0	20	0	0	0	1	0	9	0
	1730	"	996·9	984·8	...	30·2	27·8	27·0	35·6	80	...	5·6	...	1·8	0	0	16	0	0	13	0	0	0	3	0	15	0
Nautanwa	0830	99	1000·0	989·2	...	29·0	26·8	25·8	33·2	83	...	4·1	...	5·0	0	0	28	1	3	13	9	0	0	1	1	3	0
	1730	"	996·9	986·0	...	30·6	27·3	26·0	33·6	77	...	3·7	...	3·9	0	0	25	2	0	10	8	2	1	1	1	6	0
Gorakhpur	0830	77	1000·9	992·1	−0·6	30·1	28·0	27·1	35·9	85	0	4·9	+0·1	3·0	0	0	31	1	1	14	11	2	2	0	0	0	0
	1730	"	997·3	988·6	...	30·6	28·4	27·3	36·3	81	...	4·8	...	3·0	0	0	31	1	3	14	12	1	0	0	0	0	0
Gorakhpur (P.B.O.)	0230	78	998·5	989·7	...	28·1	27·1	26·6	34·8	92	...	5·7	...	6·0	0	1	25	3	10	11	0	0	2	0	0	5	0
	0530	"	998·6	989·8	...	27·5	26.6	26·3	34·2	93	...	6·8	...	5·2	0	1	27	1	14	9	2	0	1	1	0	3	0
	1130	"	999·8	991·2	...	30·9	28·1	27·1	35·9	81	...	7·0	...	8.2	0	0	31	2	6	8	10	1	2	2	0	0	0
	2330	"	999·6	990·9	...	28·5	27·3	26·9	35·4	91	...	5·3	...	4·5	0	1	22	2	11	6	0	1	3	0	0	8	0
Azamgarh	0830	78	999·3	990·5	...	28·4	26.9	26.3	34·2	88	...	6·3	...	2·6	0	0	30	0	0	26	0	0	0	4	0	1	0
	1730	"	996.3	987·7	...	29.7	27·4	26.5	34·6	84	...	7·0	...	2.1	0	0	22	0	0	21	0	0	0	1	0	9	0
Ballia	0830	64	1000·1	993·0	...	28·8	26·3	26·2	34·0	85	...	6·5	...	3.6	0	0	21	0	6	9	2	0	2	1	1	10	0
	1730	"	997·0	989·8	...	30·6	27·6	26·3	34 2	78	...	6·7	...	2·5	0	0	19	0	5	7	3	1	1	1	1	12	0
Varanasi (Banaras)	0830	76	999·3	990·8	−1·6	28·7	27·6	27.0	35·5	91	+7	5·4	−1·1	4·2	0	0	26	3	3	4	4	5	3	5	0	5	0
	1730	"	996·7	988·2	...	30·5	28·4	27·2	36·1	84	...	6·2	...	3·9	0	0	26	0	9	2	2	1	5	6	1	5	0
Varanasi (Banaras) (Babatpur Aerodrome)	0530	85	999·4	989·4	...	26·8	26·5	26.3	34·2	97	...	6.2	...	5·7	0	0	19	1	3	4	1	3	2	5	0	12	0
	0830	"	1000·6	991·1	...	28·6	27·3	26·4	34·4	89	...	6·5	...	9·5	0	1	25	1	4	6	1	3	7	3	1	5	0
	1130	"	1000·5	991·0	...	30·5	28·2	27·0	35 6	83	...	6·6	...	11·5	0	0	27	1	4	6	2	3	6	3	1	4	0
	1730	"	997·4	988·0	...	30·4	28·1	27·3	36·3	84	...	6·3	...	9·4	0	2	24	0	3	7	0	1	7	4	4	5	0
	2330	"	1000·4	990.8	...	27·6	27·1	26·8	35 2	96	...	5·1	...	6·0	0	0	18	0	2	3	0	3	4	5	1	13	0
Allahabad (Bamrauli)	0230	98	997·9	986·9	...	27·1	26·3	25·9	33·4	93	...	6·4	...	3.7	0	0	16	1	1	2	2	2	2	3	3	15	0
	0530	"	998·0	986·9	...	26·7	26·0	25·7	33·0	94	...	7·1	...	4·5	0	0	22	2	1	5	1	2	3	5	3	9	0
	0830	"	999·2	988·4	−1·5	28·4	26·5	26·0	33·6	86	+2	7·3	+0·5	7.9	0	0	30	1	3	8	3	0	6	6	3	1	0
	1130	"	999·3	988·5	...	30·4	27·3	26·0	33·6	81	...	7·1	...	7.8	0	1	28	1	6	3	1	4	3	8	3	2	0
	1730	"	996·4	985·6	...	29·5	27·0	26·0	33·6	82	...	7·4	...	7·9	0	2	25	1	4	4	2	1	7	5	3	4	0
	2330	"	999·0	988·1	...	27·4	26·3	25·6	32·8	91	...	6·5	...	4.8	0	0	19	0	0	4	3	4	7	0	1	12	0
Sultanpur	0830	97	999·3	988·5	...	28·9	27·1	26·3	34·2	86	..	6·1	..	2·0	0	0	17	0	4	10	1	0	0	2	0	14	0
	1730	"	996·5	985·7	...	29·6	27·5	26·7	35·0	84	...	6·7	...	1·3	0	0	13	0	2	9	0	0	0	2	0	18	0
Faizabad	0830	102	999·5	988·2	...	28·5	26·8	26·1	33·8	87	...	6·2	...	4·3	0	0	26	1	3	5	14	0	0	3	0	5	0
	1730	"	996·4	985.4	...	29·9	27·1	25·9	33·4	80	...	6·3	...	4·1	0	0	27	1	2	12	6	0	0	6	0	4	0
Banda	0830	121	999·4	985·9	...	27·6	26·6	25·9	33·4	90	...	6·6	...	6·3	0	0	20	0	3	0	5	3	6	2	1	11	0
	1730	"	996·6	983.2	...	29·9	27·4	26·9	35·4	88	...	5·8	...	2·6	0	0	25	0	3	0	3	0	11	2	6	6	0
Fatehpur	0830	114	999·4	986·7	...	28·1	26·7	25·9	33.4	89	+0·4	6·2	−0·2	6·1	0	0	28	1	6	6	3	1	5	4	2	3	0
	1730	"	996·3	983·7	...	29·4	27·2	26·2	34.1	83	...	5·9	...	4·7	0	0	28	2	4	5	5	2	4	4	2	3	0
Kanpur	0830	126	999·7	985·7	−1·0	28·2	26·7	26·0	33·6	88	+0·1	6·8	+2·2	10·1	0	0	31	2	1	12	3	1	3	7	2	0	0
	1730	"	996·7	982·8	...	29·9	27·1	26·0	33·6	80	...	6.4	...	8·6	0	0	30	2	4	7	4	0	4	7	2	1	0
Kanpur (Aerodrome)	0530	126	998·2	983·7	...	26·7	26·1	25·9	33·4	95	...	6·6	...	8·9	0	2	21	1	5	5	3	2	4	2	1	8	0
	0830	"	999·4	985·1	..	28·4	26·6	25·9	33·4	87	...	6·9	...	15·5	0	5	24	3	1	12	2	3	3	4	1	2	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—*Contd.*																											
Kanpur (Aerodrome)—*(contd.)*	1130	126	999·6	985·3	...	30·3	27·2	25·8	33·2	78	...	6·7	...	16·9	0	7	23	1	3	8	5	1	5	5	2	1	0
	1730	,,	999·7	982·3	...	29·9	26·9	25·7	33·0	78	...	6·4	...	14·7	0	2	27	1	1	10	6	3	4	3	1	2	0
	2330	,,	999·2	984·9	...	27·5	26·5	26·0	33·6	92	...	5·4	...	9·4	0	0	27	2	3	7	3	2	5	4	1	4	0
Lucknow	0830	111	1000·5	988·1	0	28·3	26·7	26·1	33·8	88	+5	6·7	−0·8	3·1	0	0	30	3	5	14	2	2	1	1	2	1	0
	1730	,,	997·1	984·8	...	30·7	27·5	26·3	34·2	78	...	5·7	...	2·9	0	0	28	2	5	12	1	5	2	0	1	3	0
Lucknow (Amausi Aerodrome).	0230	128	997·8	983·4	...	27·2	26·8	26·7	35·0	97	...	5·8	...	7·8	0	2	17	0	7	5	2	1	3	0	1	12	0
	0530	,,	997·8	983·6	...	26·8	26·4	26·2	34·1	96	...	6.6	...	7·4	0	0	23	2	7	9	2	0	3	0	0	8	0
	0830	,,	999·3	985·1	−1·4	28·3	27·2	26.7	35·0	91	+10	6·8	−0·9	14·1	0	6	21	0	4	12	3	2	4	0	2	4	0
	1130	,,	999·3	985·1	...	30·2	28·0	27·2	36·1	84	...	6·6	...	17·1	0	8	21	1	5	10	6	2	2	2	1	2	0
	1730	,,	996·2	982·3	...	30·3	28·3	27·5	36·7	85	...	6·3	...	13·7	0	7	20	0	6	9	3	2	6	1	0	4	0
	2330	,,	998·9	984·4	...	27.8	27.3	27·0	35·7	96	...	5·8	...	9·0	0	4	19	0	6	9	0	3	5	0	0	8	0
Hardoi . . .	0830	142	999·4	983·5	...	28·3	26·8	26·3	34·2	89	...	6·1	...	6·0	0	0	26	1	2	15	4	1	2	1	0	5	0
	1730	,,	996·2	980·5	...	30·3	27·4	26·4	34·4	81	...	4·9	...	7·0	0	0	29	3	1	13	5	2	3	0	2	2	0
Lakhimpur Kheri .	0830	147	1000·1	983·9	...	27·9	26·8	23·3	28·6	92	...	5·8	...	2·9	0	0	23	0	0	17	3	0	3	0	0	8	0
	1730	,,	996·6	980·4	...	30·5	27·6	26·6	34·8	81	...	4·9	...	2·7	0	0	23	2	2	11	4	0	3	1	0	8	0
Bahraich . . .	0830	124	1000·0	986·2	−0·9	28·8	26·7	26·7	35·0	85	+3	6·6	+2·1	8·4	0	0	31	0	0	26	2	1	0	2	0	0	0
	1730	,,	997·4	983·7	...	30·0	27·1	25·8	33·2	79	...	6·6	...	4·3	0	0	26	0	1	19	0	0	1	5	0	5	0
Uttar Pradesh (West)																											
Orai	0830	141	1001·3	985·5	...	27·2	26·3	26·0	33·6	43	...	7·6	...	3·9	0	0	30	0	3	0	0	0	2	1	24	1	0
	1730	,,	997·0	981·4	...	28·9	27·3	26·7	35·0	87	...	6·7	...	3·4	0	0	31	0	2	2	3	1	10	1	12	0	0
Jhansi . . .	0830	251	1000·4	972·5	−1·0	26·5	24·9	24·1	30·0	84	+4	7·0	+2·0	1·9	0	0	20	6	0	2	1	1	1	5	4	11	0
	1730	,,	997·0	969·5	...	28·8	26·0	24·7	31·1	79	...	7·0	...	2·0	0	0	21	4	0	0	1	2	2	8	4	10	0
Agra . . .	0830	169	999·4	980·6	−1·4	27·8	25·8	24·9	31·5	85	+8	5·7	+0·1	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
	1730	,,	996·6	977·9	...	29·1	26·9	25·7	33·0	83	...	7·0	...	2·9	0	0	12	2	2	0	1	1	2	1	3	19	0
Agra (Aerodrome) .	0530	169	998·3	979·2	...	25·9	25·6	25·5	32·6	98	...	6·7	...	5·8	0	0	17	2	6	3	0	0	2	2	2	14	0
	0830	,,	999·6	980·6	...	27·3	26·3	26·0	33·6	92	...	6·8	...	7·3	0	2	24	11	4	5	2	0	4	4	3	5	0
	1130	,,	999·7	980·8	...	29·6	27·4	26·5	34·6	84	...	6·8	...	10·5	0	3	23	7	2	6	1	0	2	5	3	5	0
	1730	,,	996·9	978·0	...	28·9	27·2	26·0	33·6	84	...	6·9	...	11·6	0	4	23	2	2	3	1	0	6	7	6	4	0
	2330	,,	996·3	980·1	...	26·8	26·1	26·0	33·6	94	..	5·9	...	5·8	0	1	18	0	5	3	1	1	5	2	2	12	0
Mainpuri . . .	0830	157	988·2	980·7	−2·5	27·8	26·5	25·9	33·4	89	+8	6·0	+0·5	2·0	0	0	21	0	3	12	1	0	0	5	0	10	0
	1730	,,	996·2	978·9	...	30·4	27·8	26·7	35·0	80	..	5·2	..	2·2	0	0	23	0	6	5	4	2	0	4	2	8	0
Aligarh . . .	0830	187	999·7	978·8	...	27·6	26·6	26.2	34·0	92	+14	7·3	+2·7	3·0	0	0	25	1	3	14	1	1	1	4	0	6	0
	1730	,,	996·8	976·1	...	32·8	27·4	26·9	35·4	86	...	7·1	...	2·2	0	0	21	5	0	10	1	2	0	3	0	10	0
Bareilly . . .	0830	173	999·5	980.3	−1·4	28·6	27·1	26·5	34·6	88	+4	6·6	+0·7	5.1	0	0	27	2	6	13	4	0	0	1	1	4	0
	1730	,,	996·5	977·4	...	30·0	27·5	26·2	34·0	81	...	7·3	...	2·3	0	0	20	0	3	15	0	0	1	0	1	11	0
Bareilly (P. B. O.) .	0230	172	998·1	979·0	...	27·6	26·2	25·7	33·0	90	...	5·3	...	5·6	0	0	25	1	3	16	1	2	0	1	1	6	0
	0530	,,	997·8	978·9	...	27·2	25·9	25·4	32·4	91	...	5·9	...	5·6	0	0	26	1	5	14	4	0	0	2	0	5	0
	1130	,,	999·5	980·5	...	30·6	27·4	26·2	34·0	78	...	6·2	..	7·7	0	0	30	0	3	11	10	2	1	2	1	1	0
	2330	,,	999·0	979·9	...	28·0	26·7	26·1	33·8	88	...	4·5	...	5·1	0	0	25	0	4	14	3	1	2	0	1	6	0
Meerut . . .	0830	222	1000·0	975·5	−0.7	28·3	26·4	25·6	32·8	86	+6	5·6	+0·4	2·8	0	0	16	0	1	5	2	1	0	6	1	15	0
Najibabad . .	0830	270	1000·2	970·4	...	27·8	26·1	25·4	32·4	87	...	4·3	...	3·6	0	0	20	0	3	3	10	0	0	0	4	11	0
	1730	,,	997·7	968·2	...	30·7	27·3	25·8	33·2	76	...	4·6	...	5·4	0	0	26	0	4	3	5	0	4	2	8	5	0
Roorkee . .	0830	274	999·6	969·3	−1·3	27·6	25·9	25·1	31·9	87	+5	5·2	−0·1	1·1	0	0	11	0	0	1	10	0	0	0	0	20	0
	1730	,,	996·5	996·5	...	30·3	27·0	25·8	33·2	77	...	4·9	...	1·1	0	0	11	0	1	2	8	0	0	0	0	20	0
Dehra Dun . .	0530	682	999·2	924·8	...	24·0	23·3	23·0	28·1	94	...	6·9	...	1·5	0	0	14	4	1	2	3	2	2	0	0	17	0
	0830	,,	1000·2	926·1	−0·8	25·4	24·1	23·6	29·1	90	+5	6·6	+0·1	1·3	0	0	13	3	0	1	2	3	0	4	0	18	0
	1130	,,	1000·1	926·4	...	27·5	24.8	23·7	29·3	81	..	6·7	...	3·5	0	0	27	5	0	2	3	3	3	9	2	4	0
	1730	,,	997·1	923·7	...	27·2	24·8	23·1	28·3	84	...	6·1	...	2·8	0	0	26	5	1	1	3	6	3	7	0	5	0
	2330	,,	999·9	925·5	...	24·7	23·9	23·5	28·9	93	...	5·7	...	1·6	0	0	11	5	3	0	1	0	1	1	0	20	0
Punjab (India) (Including Delhi)																											
New Delhi . .	0230	216	998·2	974·1	...	27·2	28·9	25·5	32·6	90	...	5·7	...	5·5	0	2	17	0	3	7	1	2	2	2	2	12	0
	0530	,,	998·2	974·1	...	26·6	25·6	25·1	31·9	92	...	6·5	...	6·4	0	2	18	1	4	6	1	1	3	3	1	11	0
	0830	,,	999·6	975·6	−1·2	28·1	26·0	25·0	31·7	84	+6	6·9	+1·2	11·1	0	1	29	1	1	7	4	2	1	7	7	1	0
	1130	,,	999.8	976·0	...	30·3	26·7	25·2	32·1	75	...	7·0	...	13·5	0	5	26	3	1	5	10	0	0	4	8	0	0
	1730	,,	996·5	972·8	...	30·7	26·9	25·3	32·2	74	...	6·6	...	9·3	0	3	21	1	1	7	2	1	1	3	8	7	0
	2330	,,	998·9	974·9	...	27·4	26·2	25·6	32·8	87	...	5·3	...	5·0	0	0	17	0	2	5	4	0	3	2	1	14	0
New Delhi (Palam Aerodrome).	0230	233	998·0	972·2	...	27·2	26·3	26·0	33·6	96	...	5·5	...	8·4	0	0	24	0	3	9	4	2	5	0	1	7	0
	0530	,,	998.2	972·2	...	26·4	25·7	25·4	32·4	95	...	6·5	...	9·0	0	3	21	1	4	7	1	3	6	2	0	7	0
	0830	,,	999·6	973·8	..	27·8	26·3	25·7	33·0	89	...	7·0	...	14·9	0	6	25	2	2	8	3	0	4	10	2	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—*Contd.*																											
New Delhi (Palam Aerodrome)—*Contd.*	1130	233	999.9	974·1	...	30·1	27·1	25·9	33·4	78	...	6·8	...	18·5	0	11	20	2	1	6	7	0	2	7	6	0	0
	1430	"	997.7	572·2	...	31·3	27·6	26·0	33.6	74	...	6·8	...	15·5	0	7	24	2	4	8	4	1	0	6	6	0	0
	1730	"	996·7	971·1	...	30·3	27·5	26.4	34.4	80	...	6·6	...	13·6	0	4	27	2	3	11	1	1	3	6	4	0	0
	2030	"	998·1	972.3	...	28·6	26·9	26·2	34.0	87	...	5·7	...	8·8	0	0	29	1	1	9	4	3	6	2	3	2	0
	2330	"	998.8	973·0	...	27.4	26.4	25.9	33.4	91	...	5·1	...	7·0	0	0	23	2	3	8	4	2	3	1	0	8	0
Hissar	0530	221	998.3	973·7	...	27·0	26·1	25·7	33·0	93	...	5·9	...	5·4	0	0	28	2	2	2	4	4	11	2	1	3	0
	0830	"	999·4	974·9	−1·0	28·2	26.5	25·7	33·0	87	+17	5·4	+2·4	4·5	0	0	27	1	0	2	5	5	7	5	2	4	0
	1130	"	999·9	975·6	...	31·2	27·3	25·7	33·0	74	...	5·5	...	5·5	0	0	28	1	4	3	5	1	6	5	3	3	0
	1730	"	996·5	972.3	...	31·8	27·7	26.2	34·0	73	...	5·4	...	4·7	0	0	27	0	3	6	6	3	5	3	1	4	0
	2330	"	998·7	974·3	...	28·2	26·8	26·2	34·0	90	...	5·1	...	4·6	0	0	27	3	3	2	7	6	4	2	0	4	0
Karnal	0830	249	999·6	971·8	...	27·9	26·4	25·5	32·6	87	...	4·0	...	..	...	...	...	..	..	..	..	..	..	..	..	..	..
	1730	"	997·7	970·1	...	31·5	27·6	26·3	34·2	80	...	3·0	...	..	...	...	...	..	..	..	..	..	..	..	..	..	..
Patiala	0830	251	999·6	971·9	...	27·3	26·1	25·5	32.6	90	...	6·2	...	4·3	0	0	18	1	0	0	15	0	0	0	2	13	0
	1730	"	996·7	969·3	...	30·5	27·0	25.6	33.0	70	...	5·6	...	3·7	0	0	16	1	0	1	8	1	0	2	3	15	0
Ambala	0830	272	999·7	969·6	−0·8	27·3	26·1	25·5	32·6	90	+11	3·9	−0·8	2·6	0	0	19	0	3	0	7	0	2	0	7	12	0
	1730	"	996·4	966·8	...	30·6	27·1	25·7	33·0	70	...	2·9	...	1·5	0	0	5	0	1	0	11	0	0	0	3	16	0
Ambala (P. B. O.)	0230	278	998·0	967·2	...	27·2	25·9	25.4	32·4	90	...	5.2	...	4.4	0	0	23	0	2	4	13	4	0	0	0	8	0
	0530	"	997·9	967·1	...	26·6	25·5	25·2	32·1	91	...	6·2	...	4·3	0	0	18	1	1	3	5	2	2	0	0	13	0
	1130	"	999·8	969·2	...	29·7	26·5	25.4	32·4	78	...	6·7	...	6·4	0	1	25	2	2	5	10	2	2	0	3	5	0
	2330	"	998·4	967·7	...	27·9	26·3	25·7	33·0	88	...	3·0	...	3·7	0	0	18	0	1	1	14	0	2	0	0	13	0
Ambala (Aerodrome)	0530	274	998·2	967·7	...	26.0	25·4	25.2	32·1	97	...	6·5	...	6.7	0	2	15	0	2	10	54	0	0	0	0	14	0
	0830	"	999·5	969·0	...	27·2	25·9	25·3	32·1	86	...	6·9	...	9·8	0	4	20	0	1	10	7	0	0	4	2	7	0
	1130	"	999·8	969.5	...	29·2	26·5	25·4	32·4	81	...	6·8	...	10·3	0	6	17	0	3	10	6	0	0	1	3	8	0
	1730	"	996·6	966·5	...	29·7	26·8	25·5	32·6	77	...	6·1	...	10.1	0	2	22	3	0	5	8	1	0	4	3	7	0
	2330	"	998·5	968·1	...	27·0	26·1	25·7	33·0	93	...	3·8	...	4·1	0	0	12	0	0	6	5	0	1	0	0	19	0
Chandigarh	0830	347	999 5	961·3	...	27·8	25·6	24·7	31·1	84	...	5·3	...	1·5	0	0	14	0	0	0	0	0	1	0	13	17	0
	1730	"	996·3	958·5	...	30·1	26·5	24·8	31·3	73	...	4·3	...	0·3	0	0	3	0	0	0	3	0	0	0	0	28	0
Ludhiana	0830	247	999.0	971·9	−1·1	28·1	26·1	24·6	30·9	86	+11	5·7	+2·0	6·4	0	0	29	4	1	6	7	9	1	0	1	2	0
	1730	"	996.1	969·1	...	31·9	27·4	25.7	33·0	71	...	5·0	...	4·1	0	0	29	2	4	2	7	6	2	3	3	2	0
Halwara (Aerodrom)	0830	242	1000.0	973·2	...	28·3	26·4	25·7	33·0	86	...	5·8	...	11.9	0	6	24	1	2	3	16	4	2	2	0	1	0
	1730	"	998·1	971·4	...	31·7	27·4	25·7	33.0	71	...	5·3	...	11·0	0	5	22	3	2	2	9	5	5	0	1	4	0
Bhatinda	0830	211	998·8	975·7	...	30·1	26·8	25·2	32·0	76	...	(a) 3·3	...	(a) 6·5	0	1	26	0	1	0	10	7	5	1	3	3	0
	1730	"	995·7	972·9	...	33·3	27·7	25·7	33·0	66	...	(a) 4·0	...	(a) 8·0	0	0	30	3	4	6		0	2	3	4	0	0
Ferozepur	0830	200	998·1	976·1	...	29·7	27·0	25·8	33·2	80	...	2·5	...	1·3	0	0	15	1	7	0	5	1	1	0	0	16	0
	1730	"	994·8	973·0	...	33·1	27·5	25·5	32.6	66	...	3·4	...	1·5	0	0	20	0	7	0	4	3	2	0	4	11	0
Amritsar	0530	234	997·9	971·9	...	26·6	25·7	25·3	32·2	93	...	3·7	...	5·7	0	4	12	0	2	4	6	2	0	2	0	15	0
	0830	"	999·2	973·3	...	28·8	26·4	25·4	32·4	83	...	4·0	...	6·8	0	3	18	1	1	6	6	3	1	1	0	10	0
	1130	"	999·4	973·7	...	31·8	27.6	26·0	33·6	69	...	4·2	...	7.5	0	0	26	1	2	7	11	3	0	1	1	5	0
	1730	"	996·0	970·4	...	32·2	27·7	26.0	33·6	71	...	3·8	...	7·7	0	0	26	2	2	10	5	4	1	1	1	5	0
Pathankot (Aerodrome)	0830	312	999·7	965·3	...	27·4	25·4	24·5	30·7	85	...	6·3	...	2·6	0	0	22	1	5	4	10	0	0	1	1	9	0
	1130	"	999·8	965·7	...	29·9	26·6	25.3	32·2	77	...	6·1	...	4·2	0	1	28	1	2	4	9	4	7	1	1	2	0
	1730	"	996·4	962·5	...	31·3	26·9	25.1	31·9	70	...	5·0	...	4·0	0	0	28	0	3	3	2	2	6	8	4	3	0
Adampur (Aerodrome) (R)	0530	238																									
(R)	0830	"																									
(R)	1130	"																									
(R)	1730	"																									
(R)	2330	"																									
Himachal Pradesh																											
Bilaspur	0830	493	1000·2	946·1	...	26·2	24·5	23·9	29·7	87	...	6·0	...	1·3	0	0	12	3	1	1	0	2	1	0	4	19	0
	1730	"	997·1	943·6	...	29·3	25·5	24·1	30 0	74	...	5·5	...	2·7	0	0	25	4	1	1	1	6	2	3	7	6	0
Mandi	0830	761	999·4	917·1	...	24·6	23·3	22·8	27·7	90	...	5·8	...	0·2	0	0	2	1	0	0	1	0	0	0	0	29	0
	1730	"	995·8	914·4	...	27·4	24·4	23·1	28·3	77	...	5·7	...	1·0	0	0	10	0	0	1	3	3	0	0	3	21	0
Jammu and Kashmir																											
Srinagar	0830	1587	1429·9	835·0	−0.2	22·1	19·3	17·9	20·5	78	−5	4·7	+0·9	0·5	0	0	5	0	0	1	3	0	0	0	1	26	0
	1130	"	1422·6	834·5	...	26·9	20.9	18·2	20·9	60	...	4·1	...	1.5	0	0	12	2	3	3	1	0	2	0	1	19	0
	1730	"	1391·8	831·7	...	28·5	21·0	17·4	19·9	52	...	4·0	...	1·0	0	0	8	0	1	0	3	0	1	2	1	23	0
Srinagar (Aerodrome)	0530	1666	1414·4	826·2	...	19·2	17·2	16·1	18·3	82	...	4·9	...	4·9	0	0	23	1	0	3	4	8	4	2	1	8	0
	0830	"	1421·9	827·1	...	22.4	18·7	16·9	19·3	72	...	4·9	...	4·6	0	0	24	2	4	3	5	5	0	2	3	7	0
	1130	"	1418·2	827·1	...	26·5	20·5	16·9	19·3	56	...	4·6	...	6·1	0	0	28	3	5	2	1	7	3	4	3	3	0

(R) Register not received.

(a) Mean of 30 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—*Contd.*																											
Srinagar (Aerodrome)	1730	1665	1386·4	824·3	...	28·4	19·9	15·6	17·7	47	...	4.2	...	9·2	0	0	30	5	2	4	4	6	2	4	3	1	0
	2330	,,	1410·2	825·9	...	21·6	18·1	16·3	18·5	73	...	2·8	...	4·6	0	0	17	1	1	3	2	5	2	3	0	14	0
Gulmarg	0830	2655	3088·6	736·9	—0·1	16·5	13·9	12·1	14·1	77	—4	4·2	0	0·7	0	0	7	0	1	1	3	0	1	0	1	24	0
	1730	,,	3076·5	735·4	...	19·4	16·1	14·1	16·1	73	...	4·2	...	1·6	0	0	14	1	5	1	3	0	1	1	2	17	0
Leh	0530	3514	3057.0	663·4	..	12·0	6·2	—0·1	6·1	44	...	(a) 3·1	...	(a) 5·2	0	0	24	4	19	0	0	0	0	0	1	6	0
	0830	,,	3060·6	664·4	—0·7	18·7	10·5	3·8	8·0	37	—22	3·4	—0·4	2.6	0	0	16	0	0	0	1	5	10	0	0	15	0
	1730	,,	3010·2	660·7	...	23·1	13·3	6·8	9·7	38	...	3·4	...	7.2	0	0	28	0	3	0	3	2	12	7	1	3	0
Skardu (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Misgar (R)	0830																										
	1730																										
Jammu*	0830																										
Jammu (Aerodrome)	0530	292	998·2	965·6	...	26·5	24·7	24 2	30.2	88	...	6·0	...	4·6	0	1	12	1	8	0	3	0	0	1	0	18	0
	0830	,,	999·4	966·9	...	27·8	25·8	24·9	31·5	85	...	5·7	...	4·7	0	0	14	1	2	1	6	1	0	0	3	17	0
	1130	,,	999·6	967·4	...	29·7	26·4	25·9	31·7	77	...	5·6	...	8·3	0	0	25	0	5	1	13	2	2	1	1	6	0
	1730	,,	996·2	964·3	...	31·9	27·3	25·5	32·6	70	...	5·0	...	6·6	0	0	21	0	1	0	5	6	3	3	3	10	0
Rajasthan (West) Sri Ganganagar	0530	177	997·4	977·8	...	28·8	25·2	24·1	30·0	75	...	3·3	...	3·0	0	0	23	0	0	3	12	1	7	0	0	8	0
	0830	,,	998·3	978·3	...	29·8	25·8	24·1	30·0	71	+8	2·5	+0.8	4·2	0	0	24	1	0	1	5	1	14	2	0	7	0
	1130	,,	998·7	979·4	...	34·5	27·0	23·7	29·3	53	...	3·3	...	3·7	0	0	26	2	1	1	2	1	9	4	6	5	0
	1730	,,	995·0	975·8	...	35·5	27·1	23·4	28·8	51	...	4·2	...	2·9	0	0	23	0	2	5	4	2	8	1	1	8	0
	2330	,,	997·3	977·7	...	30·4	26·0	24·2	30·2	69	...	1·9	...	3·5	0	0	25	0	0	3	13	5	4	0	0	6	0
Churu	0830	291	999·9	967·7	...	28·1	25·6	24·6	30·9	82	...	4·9	...	12·4	0	3	27	3	0	1	1	1	4	19	1	1	0
	1730	,,	996 5	964·9	...	32·6	27·2	24·9	31·5	67	...	6·0	...	11·0	0	2	28	7	2	5	1	3	3	7	2	1	0
Bikaner	0830	224	999·5	974·7	—0·8	29·1	25·3	23·6	29·1	73	+1	2·3	—0 7	7·9	0	0	31	0	0	0	0	1	20	8	2	0	0
	1730	,,	995·9	971·6	...	35·2	26·6	22·7	27·6	51	...	2·4	...	7·5	0	0	31	1	1	0	1	2	21	3	2	0	0
Bikaner (P.B.O.)	0530	,,	998·1	973·3	...	27·9	26·2	25·6	32·8	90	...	3·0	...	6.8	0	0	27	0	0	0	0	10	15	2	0	4	0
	1130	,,	999·7	974·9	...	33·1	28·3	26·5	34·6	69	...	4·2	...	8·1	0	0	31	4	0	0	0	9	12	4	2	0	0
	2330	,,	998·3	973·6	...	30·1	27·4	26·2	34·0	80	..	3·5	...	9·0	0	0	30	0	0	0	0	19	11	0	0	1	0
Jaisalmer	0830	242	998·9	9 2·2	...	27·3	24·3	22·9	27·9	77	...	2·6	...	21·9	0	15	16	0	0	0	0	16	15	0	0	0	0
	1730	,,	995·4	969·3	...	35·0	25·7	21·0	24 9	45	...	3 2	...	21·0	0	6	25	1	0	0	0	15	15	0	0	0	0
Phalodi	0830	234	1000·6	974·6	...	27·4	25·5	24·6	30·9	83	...	4·1	...	19.7	0	12	18	0	0	0	0	5	18	7	0	1	0
	1730	,,	997·5	972·1	...	33·4	27·9	25·5	32·6	65	...	4·8	...	16·9	0	8	23	1	0	0	1	8	17	3	1	0	0
Nagaur	0830	298	999·8	966·9	...	28·4	25·0	23·5	28·9	75	...	4·8	...	9·9	0	1	30	0	0	0	0	5	17	7	2	0	0
	1730	,,	996·1	963·7	...	32·6	25·9	22·9	27·9	57	...	5·2	...	9·0	0	0	30	0	0	1	2	7	16	2	2	1	0
Jodhpur	0230	224	999·5	974·5	...	26·8	24·5	23·4	28·8	82	...	3·8	...	11·0	0	1	30	0	0	0	0	1	26	4	0	0	0
	0530	,,	999·7	974·7	...	25·9	24·3	23·4	28·8	85	...	5·5	...	11·2	0	1	29	0	0	0	0	1	24	5	0	1	0
	0830	,,	1001·1	976·1	+0.9	26·9	24·6	23.5	28·9	82	+3	6·2	+0.2	14.5	0	2	29	0	0	0	0	0	22	8	1	0	0
	1130	,,	1001·2	976·4	...	30·3	25·1	22.7	27·6	64	...	6·6	...	16·4	0	6	25	0	0	0	0	2	22	6	1	0	0
	1730	,,	997·9	973·3	...	31·6	25·4	22.4	27·1	60	...	6·2	...	17·0	0	6	25	0	1	0	0	2	24	4	0	0	0
	2330	,,	1000·4	975·4	...	27·8	24·7	23·2	28·4	77	...	4·5	...	11·5	0	1	29	0	0	0	0	7	20	3	0	1	0
Barmer	0530	194	999.2	977·5	...	26·3	24·0	23·0	28·1	82	...	4.4	...	5·5	0	0	31	1	1	0	0	4	24	0	1	0	0
	0830	,,	1000·3	978·6	—0.8	27·1	24·5	23·4	28·8	80	+1	6·1	+0·6	4·2	0	0	30	0	0	0	0	11	15	3	1	1	0
	1130	,,	1000·5	979·0	...	30·3	25·1	22·7	27.6	65	...	6.5	...	5·5	0	0	31	0	0	0	0	14	14	3	0	0	0
	1730	,,	997·3	976.0	...	32·2	25·6	22·5	27.3	58	...	5·7	...	5·8	0	0	31	0	0	0	2	11	14	2	1	0	0
	2330	,,	999·6	978·0	...	28·3	24·9	23·3	28·6	75	...	3·7	...	5·4	0	0	31	0	0	0	3	16	10	3	0	0	0
Rajasthan (East) Pilani	0830	301	1000·2	967·1	...	27·9	25·2	24·0	29·8	80	..	3.8	..	11·5	0	1	30	3	1	2	1	3	6	14	1	0	0
	1730	,,	996·8	964·3	...	31·6	26·4	24.1	30 0	66	...	4.2	...	9·3	0	0	29	7	1	6	3	1	2	6	3	1	0
Alwar	0830	271	998·5	968·5	...	27·8	25·5	24·4	30·5	82	...	6·4	...	1·7	0	0	16	1	2	4	0	0	1	5	3	15	0
	1730	,,	996·7	967·0	...	30·4	26·6	25·0	31·7	74	...	6·5	...	2·2	0	0	14	2	3	5	0	1	0	1	2	17	0
Sikar (R)	0830	433																									
(R)	1730	,,																									
Jaipur (Sanganer Aerodrome)	0230	390	998·6	955·4	...	25·2	24·3	23·9	29·7	89	...	6·1	...	6·2	0	1	25	1	1	1	0	0	3	12	8	5	0
	0530	,,	998·9	955·6	...	24·9	24·1	23·8	29·5	94	...	7·1	...	6·6	0	0	28	2	2	1	0	0	1	10	12	3	0
	0830	,,	1000·1	957·0	—1.7	26·4	24·6	23·8	29·5	87	+7	6·8	+1.4	12·5	0	1	29	1	1	1	1	0	0	11	15	1	0

(R) Register not received. *Temporarily closed. (a) Mean of 30 days (b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—*Contd.*																											
Jaipur (Sanganer Aerodrome) (*contd.*)—	1130	390	999·9	957.2	...	28·9	25·5	24·1	30·0	76	...	6·7	...	15·3	0	5	25	0	2	0	1	0	0	13	14	1	0
	1730	"	997·0	954·5	...	28·7	25·8	24·5	30·7	80	...	7·0	...	9·5	0	2	28	1	3	3	2	0	3	12	6	1	0
	2330	"	999·5	956·4	...	25·9	25·0	24·5	30·7	92	...	6·5	...	5·3	0	0	24	2	2	1	0	0	4	9	6	7	0
Dholpur . . .	0830	176	999.1	979·5	...	27·1	25·9	25·3	32·2	90	...	7·4	...	6·1	0	0	24	2	3	2	2	1	5	5	4	7	0
	1730	"	996.4	976.8	...	28·5	26·4	25.6	32·8	85	...	7·7	...	6·6	0	0	22	3	3	0	2	0	5	6	3	9	0
Tonk . . .	0830	272	999·6	969·4	...	26·5	25·6	25·0	31·7	92	...	6·2	...	11·2	0	0	30	1	1	1	0	0	3	16	8	1	0
	1730	"	996·4	966·5	...	29·5	27·3	26·3	34.2	84	...	3·2	...	6·2	0	0	31	0	2	1	0	0	11	8	9	0	0
Ajmer . . .	0830	486	1000·5	947·3	−1·2	25·4	23·2	22·3	26·9	83	+6	6·8	+1·7	16·1	0	5	24	0	0	0	0	0	14	14	1	2	0
	1730	"	997·3	944·6	...	28·8	24·3	22·4	27·1	69	...	6·8	...	11·9	0	1	29	0	0	1	0	1	12	14	2	1	0
Kotah . . .	0530	257	999·4	970·8	...	25·8	24·2	23·5	28·9	87	...	6·4	...	3·5	0	0	23	0	0	0	0	0	7	5	11	8	0
(R)	0830	"																									
(R)	1130	"	1001·1	972·6	...	28·4	25.6	24·4	30·5	78	...	7·3	...	4·1	0	0	27	0	0	0	0	0	3	5	19	4	0
	1730	"																									
	2330	"	1000·5	971·9	...	26.6	24·6	23·7	29·3	85	...	6·1	...	3·8	0	0	26	0	0	0	0	0	11	6	9	5	0
Chambal . .	0830	351	1001·2	962·3	...	25·8	24·4	23·4	28·8	88	...	6·6	...	6·5	0	0	25	0	0	0	0	1	7	12	5	6	0
	1730	"	998·6	960·7	...	27·4	24·9	23.9	29·6	81	...	7·4	...	8·1	0	0	28	4	0	0	0	2	9	7	6	3	0
Jhalawar . .	0830	321	1000·9	965.3	−1·0	25·1	24.2	23·6	29.1	92	+8	5·8	−0·4	2·9	0	0	28	0	0	0	0	0	11	16	1	3	0
	1730	"	998·6	963·2	...	27·6	25·4	24·2	30·2	83	...	5·3	...	4·3	0	0	31	0	0	0	0	0	10	15	6	0	0
Udaipur . . .	0230	582	1000·4	936·5	...	24.1	22·7	22·2	26·7	88	...	6·5	...	5·2	0	0	12	0	0	0	0	3	7	2	0	19	0
	0530	"	1000.4	936·4	...	23·7	22·3	21·7	25·9	89	...	6·6	...	3·8	0	0	18	0	0	0	0	1	9	8	0	13	0
	0830	"	1001·9	938·1	−0·5	24·9	22·7	21.8	26·1	84	+6	7·2	+1·4	3·9	0	0	24	0	0	0	0	4	10	9	1	7	0
	1130	"	1002·0	938·5	...	26·5	23·6	22·2	26·7	79	...	6·9	...	5·6	0	0	27	0	0	0	1	3	9	12	2	4	0
	1730	"	999·5	936·2	...	26·5	23·6	22·4	27·1	78	...	7·1	...	4·5	0	0	25	0	0	0	0	4	9	10	2	6	0
	2330	"	1001·8	937·8	...	24.3	22·4	21·9	26·3	84	...	5·9	...	2·7	0	0	15	0	0	0	0	2	10	3	0	16	0
Erinpura (Jawai Dam)	0830	295	1002.0	969.3	...	25·6	23·7	22·9	27·9	84	...	7·1	...	9·3	0	1	30	0	0	0	0	12	12	7	0	0	0
	1730	"	999·3	967·0	...	28.4	25·2	23·6	29.2	72	...	6·6	...	8·4	0	0	29	0	0	0	1	13	10	5	0	2	0
Madhya Pradesh (West)																											
Gwalior . . .	0230	207	998·0	974·9	...	26·5	25·2	24·7	31·1	90	...	7·2	...	7·6	0	2	19	1	2	0	0	0	6	9	3	10	0
	0530	"	998·0	974·6	...	26·1	25·0	24·5	30·8	91	...	7·4	...	8·3	0	3	22	0	3	1	0	1	6	10	4	6	0
	0830	"	999·4	976·4	−1·3	27·2	25·7	25·6	31·9	88	+6	7·6	+1·5	9·5	0	0	30	2	2	2	2	0	3	11	8	1	0
	1130	"	999·4	976·6	...	29·3	26·6	25·5	32·7	81	...	7·2	...	9·5	0	1	29	2	3	2	3	0	4	11	5	1	0
	1730	"	996.3	973·8	...	28·8	26·4	25·4	32·7	82	...	7·6	...	8·4	0	0	30	2	1	4	1	0	3	15	4	1	0
	2330	"	999·2	976·2	...	26·8	25·5	24·9	31·6	90	...	7·0	...	7·0	0	2	24	0	1	1	3	1	8	9	3	5	0
Sheopurkalan . .	0830	235	1000·6	974·4	...	26·3	25·2	25·7	31·2	91	...	7·6	...	7·8	0	0	31	1	1	0	2	5	10	10	2	0	0
	1730	"	997·2	971·2	...	27·7	25·9	25·1	31·9	87	...	7·4	...	10·2	0	1	28	4	3	0	1	6	5	2	3	2	5
Guna . . .	0530	478	999·5	946·6	...	23·3	22·8	22·5	27·3	95	...	7·5	...	6·7	0	0	30	1	1	0	0	0	6	22	0	1	0
	0830	"	1001·1	948·2	−1·0	24·3	23·4	23·1	28·2	93	+7	7.7	+1·7	5·5	0	0	30	2	0	0	0	2	3	23	0	1	0
	1130	"	1000·8	948·2	...	25·8	24·3	23·7	29·2	89	...	7·6	...	7·0	0	0	31	2	0	0	0	0	1	23	5	0	0
	1730	"	998.3	945·7	...	25·7	24·4	23·7	29·8	89	...	7·7	...	9·9	0	1	29	0	0	0	0	0	1	24	5	1	0
	2330	"	1000·7	947·7	...	24·0	23·3	22·9	28.1	94	...	6·5	..	3·9	0	0	27	1	0	0	0	1	5	19	1	4	0
Rajgarh . . .	0830	382	1001.2	958·8	...	24·7	23·3	22·6	27·5	88	...	6·5	...	10·0	0	0	31	1	0	0	0	0	0	25	5	0	0
	1730	"	998·6	956·6	...	26·8	24·0	22·7	27·6	79	...	6·5	...	9·9	0	0	31	3	0	0	0	0	0	24	4	0	0
Neemuch . . .	0830	496	1002·3	947·8	−0·3	24·3	23·0	22·4	27·2	89	+4	7·4	+1·4	14·5	0	3	28	1	0	0	1	0	10	17	2	0	0
	1730	"	999·7	945·6	...	26·4	23·7	22·5	27·3	80	...	7·3	...	14·2	0	3	27	1	0	0	1	0	11	15	2	1	0
Ratlam . . .	0830	486	1002·8	948·9	...	23·3	22·3	21·8	26·6	92	...	7·9	..	10·3	0	0	31	0	0	2	0	0	15	16	0	0	0
	1730	"	1000·1	946·8	...	26·3	23·3	22.1	26.6	79	...	7·4	...	13·8	0	0	31	0	0	4	0	0	9	21	1	0	0
Alirajpur . . .	0830	293	1004·0	971·2	...	24·5	23·4	22·8	27·9	90	...	7·6	...	13.0	0	1	30	0	0	4	0	0	7	23	1	0	0
	1730	"	1001·2	968·7	...	26.5	24·4	23·3	29·0	83	...	6·6	...	12·5	0	0	31	0	0	0	0	0	11	19	1	0	0
Indore . . .	0530	567	1001·5	938·8	...	22·5	21·7	21·4	25·3	95	...	7·3	...	25·2	0	18	13	0	0	0	0	0	20	11	0	0	0
	0830	"	1003·0	940·3	−0·9	23·1	22·2	21·7	26·0	92	+5	7·6	+0·4	27·1	0	23	8	0	0	0	0	0	16	12	3	0	0
	1130	"	1003·1	940·6	...	24·5	22 8	22·0	26·5	87	...	7·5	...	27·7	0	25	6	0	0	0	0	0	11	14	6	0	0
	1730	"	999·9	937·9	...	25·6	23·1	21·9	26·4	81	...	6·7	...	25·4	0	23	8	0	0	0	0	0	13	16	2	0	0
	2330	"	1002·9	940·1	...	22·7	22·0	21.7	26·0	94	...	5·8½	...	20·9	0	15	16	0	0	0	0	1	26	4	0	0	0
Ujjain . .	0830	..	...	...	...	23·9	22.8	22·3	26·9	91	...	7·5	...	21·3	0	18	13	0	0	0	0	0	1	20	10	0	0
Bhopal (Bairagarh) .	0230	523	1000·4	942·7	...	23.2	22·4	22·0	26·6	93	...	6.6	...	15·9	0	26	5	0	0	0	0	0	5	23	3	0	0
	0530	"	1000·6	942·8	...	22·6	22·2	21·8	26·7	94	...	7·1	...	16·5	0	27	4	0	0	0	0	0	6	21	4	0	0
	0830	"	1002·0	944·3	−0·9	23·7	22·6	22.1	26·5	91	+4	7·8	+1·2	18·4	0	9	21	0	0	0	0	0	5	19	6	1	0
	1130	"	1001·9	944·5	...	25·4	23·4	22·5	27·4	85	...	7·7	...	21·7	0	18	13	1	0	0	0	0	0	20	10	0	0
	1730	"	999·1	941·8	...	25·7	23·4	22·4	27·3	82	...	7·5	...	21·0	0	17	14	1	0	0	0	0	0	21	9	0	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West) —*Contd.*																											
Bhopal (Bairagarh)—*contd.*	2330	523	1001·8	944·0	...	23·8	22·7	22·2	26·7	92	...	6·5	...	13·2	0	2	28	0	0	0	0	0	8	17	5	1	0
Khandwa	0830	318	1003·4	967·8	−0·6	24·5	23·0	22·2	26·9	87	+4	7·3	+1·5	4.8	0	0	31	0	0	0	0	0	23	7	1	0	0
	1730	"	1000·6	965·4	...	26·9	23·9	22·4	27·0	78	..	7·6	...	6·6	0	0	31	0	1	0	0	0	16	8	6	0	0
Hoshangabad	0830	302	1002·1	968·3	−1.4	24·0	23·2	22·9	27·8	90	+2	7·8	+0.8	3.7	0	0	23	0	0	0	0	0	12	11	0	8	0
	1730	"	999·5	965·9	...	26·0	24·1	23.2	28·4	82	...	7·6	...	2·5	0	0	22	0	0	0	0	0	16	6	0	9	0
Betul	0830	653	1003.2	931·2	...	22·5	21·6	21.2	23·8	93	...	8·0	...	9·3	0	0	31	0	0	0	0	0	4	22	5	0	0
	1730	"	999·7	928·6	...	24·9	22·8	21·8	26·2	84	...	7·8	...	9·5	0	0	31	0	0	0	0	0	3	23	5	0	0
Chhindwara	0830	685	1002.2	927·0	...	23·5	21·9	21·1	25·1	87	...	7·5	...	12·5	0	1	30	5	0	0	0	0	3	15	13	0	0
	1730	"	999·0	924·7	...	25·1	22.5	21·3	25·4	80	...	7·3	...	12·6	0	0	31	4	0	0	0	0	3	12	12	0	0
Seoni	0830	619	1001·1	933·3	−1.3	23·9	22·8	22·3	26·9	90	+6	7.5	+1.3	4·4	0	0	29	0	0	0	0	1	12	13	3	2	0
	1730	"	998.3	931·1	...	25·9	23·5	22·5	27·2	83	...	7·0	...	3·7	0	0	23	3	0	0	0	1	10	3	6	8	0
Sagar	0830	551	1000.9	940·1	−1·2	23·2	22·7	22.4	27·3	95	+7	7·8	+1.2	10·7	0	1	30	1	0	0	0	0	6	16	8	0	0
	1730	"	997·9	937·6	...	25·2	24.0	23·4	29·0	90	...	7·6	...	5·6	0	0	31	0	0	1	0	0	6	15	9	0	0
Nowgong	0830	229	1000·0	974·5	−1·4	26·4	25·1	24·5	30·8	89	+6	7·4	+1.1	7·9	0	0	31	1	1	1	0	5	12	4	6	0	1
	1730	"	997.2	971·9	...	28·5	26·4	25·5	32·8	85	...	7·4	...	6·5	0	0	28	0	2	0	3	0	15	2	6	3	0
Madhya Pradesh (East) Satna	0530	317	998·0	962·8	...	25·1	24.5	24·2	30.3	95	...	(a) 7·8	...	(a) 6·0	0	0	25	1	0	3	2	0	4	15	0	5	0
	0830	"	999·7	964·5	−1·3	25·9	24·9	24·5	30·6	92	+8	7·7	+1.3	3·5	0	0	29	0	0	3	4	0	7	14	1	2	0
	1130	"	999·5	964·5	...	27·3	25·6	24·9	31·5	87	...	(a) 7·8	...	(a) 8·0	0	0	30	1	1	3	2	0	5	17	1	0	0
	1730	"	996·7	961·8	...	27·6	25·9	25·1	32·0	87	...	7·5	...	5·4	0	0	31	1	1	1	1	0	9	15	3	0	0
	2330	"	999·4	964·1	...	25·8	25·1	24·9	31·3	95	...	(a) 7·8	...	(a) 4·1	0	0	24	0	0	1	1	0	4	18	0	6	0
Sidhi	0830	...	...	...	...	26·9	25·4	24·6	31·2	87	...	6·2	...	3·3	0	0	27	1	1	2	0	3	4	15	1	4	0
	1730	...	...	...	..	27·9	25·8	24·8	31·4	84	...	5·9	...	2·0	0	0	21	2	1	1	1	1	4	8	3	10	0
Umaria	0830	459	1000.1	949·4	..	24·6	23·6	23·3	28·4	92	+9	7·6	+0·6	6·6	0	0	30	0	1	0	0	0	10	16	2	1	1
	1730	...	997·3	947·1	...	26·1	24·6	24·3	29·9	87	...	7·1	...	4·9	0	0	31	0	0	0	0	2	10	14	5	0	0
Jabalpur	0530	393	999·5	955·8	...	23·9	23·4	23·1	28·3	95	...	7·5	...	6·7	0	0	28	0	1	0	0	2	12	13	0	3	0
	0830	"	1001.0	957·4	−1.0	24·5	23·8	23·4	29·0	94	+10	7·3	+0·5	7·6	0	0	31	0	0	0	1	0	19	11	0	0	0
	1130	"	1000.9	957·5	...	26·0	24·4	23·7	29·2	87	...	7·4	...	9·5	0	0	31	0	0	0	1	0	14	15	1	0	0
	1730	"	998·1	954·9	...	26·4	24·7	23·9	29·8	87	...	7·6	...	8·1	0	0	30	0	0	0	1	0	12	16	1	1	0
	2330	"	1000·7	957·2	...	24·7	23·9	23·3	29·0	93	...	7·3	...	7·3	0	0	29	0	0	0	0	3	18	8	0	2	0
Mandla	0830	443	1001·3	952·3	...	24·6	23·4	22·8	27·9	90	...	7·4	...	1·6	0	0	10	5	0	0	0	2	0	1	2	21	0
	1730	"	998·1	949·6	...	26·4	23·3	23·2	28·7	83	...	6·8	...	3·6	0	0	18	1	0	0	0	3	1	5	8	13	0
Pendra	0530	625	999·1	930·6	...	23·3	22·6	22·3	27·1	94	...	7·9	...	4·3	0	0	28	7	0	0	0	6	6	4	5	3	0
	0830	"	1000·3	932·1	−1.4	24·3	23·2	22·8	29·1	91	+6	8·0	+2.4	4·6	0	0	27	2	0	0	2	3	7	5	8	4	0
	1130	"	1000·2	932·0	...	25·9	23·8	22·9	28·0	89	...	8·9	...	5·2	0	0	29	4	2	0	0	1	8	6	8	2	0
	1730	"	997·4	929·6	...	25·8	23·8	22·9	28·1	85	...	7·9	...	6·5	0	5	31	5	0	0	0	3	10	6	7	0	0
	2330	"	1000·3	932·0	...	23·9	23·0	22·3	27·4	93	...	7·5	...	5·3	0	2	24	4	0	0	1	7	5	5	4	5	0
Ambikapur	0830	611	1000·2	933·5	...	24·6	23·2	23·2	28 3	92	...	7·2	...	6·0	0	0	28	4	2	0		1	6	9	4	3	0
	1730	"	997·2	930·9	...	26·0	24·2	23·4	28.8	86	...	5·6	..	7·2	0	0	29	7	1	0	1	0	11	4	5	2	0
Champa	0830	245	1000·9	973·6	...	26·2	24·8	24·2	30·0	89	...	7·5	...	6·5	0	0	31	0	0	0	0	0	3	28	0	0	0
	1730	"	998·0	970·9	...	28·3	25·5	24 2	30·3	79	...	7·4	...	10·2	0		30	0	1	0	0	0	8	20	1	1	0
Raigarh	0830	220	1000·5	975·9	...	20·4	25·1	24·5	30·7	90	...	7·5	...	5·0	0	0	30	0	0	0	0	3	13	13	1	2	0
	1730	"	997·4	973·1	...	28·1	25·6	24·6	30·1	81	...	7·5	...	3·0	0	0	0	0	1	0	0	1	7	10	1	11	0
Raipur	0530	298	1000·3	963·1	...	24·6	23·7	23·3	28·5	93	...	7·7	...	8·8	0	0	31	0	0	0	0	4	11	14	2	0	0
	0830	"	1001·8	968·5	−0·7	25·7	24·2	23·5	28·9	83	+2	7·5	+1·2	8·7	0	0	31	0	0	0	0	2	10	16	3	0	0
	1130	"	1001·5	968·5	...	27·4	24·8	23·6	29·1	80	...	7·5	...	10·0	0	1	29	0	0	0	0	0	8	20	2	1	0
	1730	"	998·9	965·8	...	27·7	24·8	23·5	28·9	79	...	7.4	...	13·1	0	6	25	0	0	0	0	0	8	23	0	0	0
	2330	"	1001·6	968·4	...	25·2	24·3	23·7	29·3	90	...	7·0	...	9·9	0	1	27	0	0	0	0	0	16	12	0	3	0
Kanker	0830	402	1002·4	958·0	−0·6	25·4	24·6	24·2	30·2	93	+11	6·9	+0·1	2·7	0	0	18	0	0	0	0	0	15	0	3	13	0
	1730	"	999·4	955·4	...	26·8	25·8	25·2	32·3	90	...	7·0	...	2·4	0	0	17	0	0	0	0	0	15	1	1	14	0
Jagdalpur	0530	553	1001·7	940·8	...	22·8	21·9	22·5	25·6	93	...	7·6	...	2·1	0	0	10	0	0	0	0	0	7	3	0	21	0
	0830	"	1002·9	942·2	−0·5	24·6	22·2	21·9	26·1	85	0	7.3	+1·2	7·0	0	2	24	0	0	0	0	1	14	10	1	5	0
	1130	"	1002·1	941·8	...	26·2	23·4	22·1	26.8	78	...	7·4	...	9·3	0	0	28	0	0	0	0	2	8	12	6	3	0
	1730	"	1000·1	939·8	...	25·6	23·2	21·9	26·8	80	...	7·6	...	7·1	0	0	28	0	0	0	0	1	12	11	4	3	0
	2330	"	1002·6	942·0	...	23·4	22·4	22 0	26·3	92	...	6·9	...	2·6	0	0	19	0	0	0	1	4	11	3	0	12	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat																											
Deesa	0830	136	1002·6	987·2	—0·5	25·9	24·4	23·7	29.3	88	...	6·7	...	4·2	0	0	31	0	0	0	3	12	11	4	1	0	0
	1730	,,	999·5	984·4	...	29·8	25·3	23·2	28·4	70	...	6·5	...	4·3	0	0	29	1	1	0	2	4	12	8	1	2	0
Radhanpur	0830	30	1002·4	999·0	...	26·8	...	...	...	...	...	7·0	...	11·6	0	1	28	0	0	0	0	7	21	0	1	2	0
	1730	,,	999·5	996·2	...	30·6	...	...	...	...	...	6·3	...	12·4	0	4	24	0	0	0	0	3	22	3	0	3	0
Idar	0830	219	1003·0	978·4	...	24·8	23·9	23·5	28·9	92	...	8·0	...	4·5	0	0	29	0	0	0	0	1	16	11	1	2	0
	1730	,,	1000·1	975·7	...	27·8	24·8	23.4	28·8	79	...	8·0	...	4·7	0	0	26	0	1	0	1	2	13	9	0	5	0
Amhedabad	0230	55	1001·9	995·7	...	25·5	24·3	23·7	29·3	89	...	6·5	...	10·1	0	0	31	0	0	0	0	0	21	10	0	0	0
	0530	,,	1001·8	995·5	...	25·1	24·0	23·5	28·9	91	...	6·7	...	9·5	0	1	29	0	0	0	0	0	19	11	0	1	0
	0830	,,	1003·3	996·9	—0·7	26·0	24·6	24·2	30·2	89	+7	7·5	+1·3	11·9	0	1	30	0	0	0	0	1	19	11	0	0	0
	1130	,,	1003·5	997.3	...	28·4	25·5	24·2	30·2	79	...	7·1	...	11·3	0	1	29	0	0	0	0	0	15	11	4	1	0
	1730	,,	1000·3	994.1	...	29·3	25·6	23·9	29·7	74	...	7.1	...	11·6	0	1	28	0	0	0	1	0	17	10	1	2	0
	2330	,,	1002·8	996·5	...	26·6	24·7	23·8	29·5	85	...	7·0	...	10·0	0	0	29	0	0	0	0	2	17	10	0	2	0
Dohad	0830	333	1003·1	965·9	...	24·5	23·1	22·4	27·1	88	—1	7·1	—0.2	22·8	0	20	11	0	0	0	0	0	10	20	1	0	0
	1730	,,	1000·3	963·6	...	27·4	24·0	22·4	27·1	75	...	6·7	...	20·4	0	11	20	0	0	0	0	0	13	18	0	0	0
Baroda	0530	34	1002.5	998·5	...	25·2	24·6	24·3	30·4	95	...	6·3	...	(e) 1·5	0	0	8	0	0	0	0	0	11	2	0	18	0
	0830	,,	1004·0	1000·0	...	26·3	25·1	24·7	31·1	91	—9	7·2	+0.6	(l) 1·9	0	0	12	0	0	0	0	0	17	3	0	11	0
	1130	,,	1004·2	1000·3	...	28·8	25·8	24·5	30·7	78	...	7·2	...	(k) 5·7	0	0	18	0	0	0	0	0	15	13	1	2	0
	1730	,,	1001·3	997·3	...	29·2	25·7	24·1	30·0	76	...	7·1	...	(k) 5·1	0	0	19	0	0	0	0	1	12	11	1	6	0
	2330	,,	1003·7	999·7	...	26·3	25·1	24·6	30·9	91	...	6·6	...	(h) 3·6	0	0	19	0	0	0	0	2	23	2	0	4	0
Baroda (Aerodrome)	0830	38	1003·8	999·5	...	26·2	24·9	24·4	30·5	90	...	7·5	...	10·5	0	1	30	0	0	0	0	6	20	5	0	0	0
	†1130	,,	1005·0	1000·8	...	28.3	25·3	24·0	29.8	78	...	7·3	...	10·0	0	0	23	0	0	0	0	1	12	10	0	0	0
	1730	,,	1001·0	996·8	...	28·6	25·4	23·9	29·7	77	...	7·2	...	12·4	0	6	24	0	0	0	0	7	17	6	0	1	0
Broach	0830	17	1003·6	1001·6	...	26·2	24·8	24·1	30·0	88	...	7·5	...	6·1	0	0	31	0	0	0	1	2	25	2	1	0	0
	1730	,,	1001·3	999·4	...	28·7	25·1	23.5	28·9	74	...	6·7	...	9·1	0	0	31	0	0	0	0	7	24	0	0	0	0
Surat	0530	12	1003·0	1001·7	...	25·8	24·6	24·1	30·0	91	...	7·7	...	6·0	0	2	18	0	0	0	0	0	17	3	0	11	0
	0830	,,	1004·4	1003·1	—0·3	26·5	24·9	24·3	30·4	88	+6	7·5	+0·6	5·9	0	0	29	0	0	0	0	0	28	1	0	2	0
	1130	,,	1004·9	1003·6	...	28·5	25 5	24·2	30·2	78	...	7·6	...	10·4	0	2	27	0	0	0	0	0	27	2	0	2	0
	1730	,,	1002·4	1001·1	...	28·1	25·2	23·9	29·7	79	...	6·8	...	11·9	0	0	31	0	0	0	0	0	28	3	0	0	0
	2330	,,	1004·5	1003·2	...	26·4	24·9	24·2	30·2	87	...	5.9	...	10·7	0	1	28	0	0	0	0	1	27	1	0	2	0
Saurashtra and Kutch																											
Naliya	0830	,,	...	...	...	27·2	25·2	24·4	30·5	85	...	7·3	...	17·8	0	9	22	0	0	0	0	0	29	2	0	0	0
	1730	,,	...	...	...	28·7	25·4	23·9	29·7	75	...	7·0	...	21.4	0	17	14	0	0	0	0	0	24	7	0	0	0
Bhuj (Aerodrome)	0230	10	1000·8	991.8	...	26·1	24.9	24·4	30·5	90	...	5·5	...	12.1	0	1	28	0	0	0	0	1	20	8	0	2	0
	0530	,,	1000·7	991·6	...	25.9	24·8	24·2	30·2	91	...	7·1	...	10 7	0	0	27	0	0	0	0	0	22	5	0	4	0
	0830	,,	1002·0	992·9	—0·5	27·0	25·1	24·3	30·4	85	+8	6·8	+0·8	17·0	0	6	25	0	0	0	0	0	23	8	0	0	0
	1130	,,	1002·4	993.3	...	29·2	25·7	24·0	29·8	72	...	7.1	...	22·4	0	14	17	0	0	0	0	0	18	13	0	0	0
	1730	,,	999.9	990.9	...	29·6	25·7	24·0	29·8	73	...	6·9	...	25·9	0	22	9	0	0	0	0	0	19	12	0	0	0
	2330	,,	1002·1	993.1	...	26.3	25·0	24·5	30·7	88	...	5·5	...	17·5	0	9	22	0	0	0	0	0	23	8	0	0	0
Bhutakia Bhimasar	0830	47	1002·0	996.7	...	26·6	25·3	24·6	30·9	89	...	...	...	18·4	0	7	24	0	0	0	0	6	18	6	1	0	0
	1730	,,	999·9	994·7	...	30·3	26·3	24·6	30·9	73	...	...	...	27·4	0	23	8	0	0	0	0	2	24	4	1	0	0
Kandla	0830	14	1002·9	1001·3	...	27·2	25·0	24·0	29.8	83	...	7·8	...	21·2	0	13	18	0	0	0	0	0	18	13	0	0	0
	1730	,,	1000·9	999·3	...	29·6	25·6	23·9	29·7	71	...	6.7	...	35·5	0	30	1	0	0	0	0	0	18	13	0	0	0
Mandvi	0830	9	1002·6	1001·5	...	27·5	25·7	24·9	31·5	85	...	8·0	..	33.6	0	30	1	0	1	0	0	0	29	0	1	0	0
	1730	,,	1000·9	999·8	...	28·4	25·9	25·2	32·1	81	...	7·7	...	39·8	0	31	0	0	0	0	0	0	27	4	0	0	0
Dwarka	0830	11	1002.8	1001·4	—0·8	27·3	25·3	24·4	30·5	85	—1	7·8	+1·0	26.4	0	20	11	0	0	0	0	0	9	22	0	0	0
	1730	,,	1001·4	1000·2	...	28·1	25·5	24·3	30·4	80	...	7·2	...	26.5	0	26	5	0	0	0	0	0	11	20	0	0	0
Porbander	0830	7	1003·7	1002·9	...	27·0	26·3	26·0	33·6	94	...	7.9	...	20·6	0	9	22	0	0	0	0	0	11	18	2	0	0
	1730	,,	1002·2	1001·4	...	28·2	27·2	26·7	35·0	92	...	7·8	...	21·9	0	23	8	0	0	0	0	0	20	11	0	0	0
Porbander (Aerodrome)	0830	7	1003·5	1002·7	...	27·4	25·5	24·8	31·3	86	...	7·6	...	20·5	0	20	11	0	0	0	0	0	20	11	0	0	0
	1130	,,	1004·4	1003·2	...	28·9	26.3	25·3	32·2	81	...	7·4	..	24·9	0	23	8	0	0	0	0	0	20	10	1	0	0
	1730	,,	1002·0	1001·2	...	28·3	25·9	24·9	31·5	82	...	7·1	...	23·9	0	23	8	0	0	0	0	0	19	12	0	0	0
Jamnagar	0530	23	1001·4	993·8	...	25·5	24·4	23·9	29·7	91	...	7·0	...	15·2	0	7	24	0	0	0	0	2	19	10	0	0	0
	0830	,,	1002.8	1000.3	—0.4	26.9	24.9	24.1	30·0	85	+3	7.0	+2.1	19.9	0	15	16	0	0	0	0	0	21	10	0	0	
	1130	,,	1003.2	1000.7	..	29.4	25.2	23.3	28.6	70	...	7.1	...	26.7	0	25	6	0	0	0	0	0	9	22	0	0	0
	1730	,,	1000.9	998·4	...	28·9	25·1	23·3	28·6	73	...	7·3	...	28·5	0	27	4	0	0	0	0	0	8	22	1	0	0
	2330	,,	1002.9	1000·4	...	26·2	24·6	23·8	29·5	87	...	6·5	...	17·9	0	10	21	0	0	0	0	0	20	11	0	0	0

† Observation for 23 days. (e) Mean of 26 days. (k) Mean of 20 days. (h) Mean of 23 days. (l) Mean of 1 ! days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch— *contd.*																											
Rajkot (Aerodrome)	0830	138	1003·1	987.7	−0·4	25·7	24·5	23·9	29·7	90	+7	7.0	+0·5	23·5	0	25	6	0	0	0	0	3	25	2	1	0	0
	1130	,,	1003·3	988·0	...	28·6	24·7	22·9	27.9	72	...	6·9	...	28·2	0	31	0	0	0	0	0	1	24	4	2	0	0
	1730	,,	1000·9	985·6	...	28·5	24·7	22·9	27·9	73	...	6·9	...	29·6	0	30	1	0	0	0	0	1	23	4	3	0	0
Surendranagar	0830	74	1002·9	994·5	...	26·8	24·5	23·3	28·6	81	...	6·6	...	15·8	0	5	26	0	0	0	0	4	17	10	0	0	0
	1730	,,	1000·3	992·0	...	30·2	25·6	23·4	28·8	68	...	7·3	...	14·8	0	5	26	0	0	0	0	1	16	11	3	0	0
Bhavnagar	0830	17	1003·8	1001·9	−0·4	27.1	25·2	24·4	30·5	86	+9	6·4	+0·1	4·4	0	0	31	0	0	0	0	0	25	6	0	0	0
	1730	,,	1001·5	999·6	...	29·9	26·5	25·7	31·9	76	...	7·4	...	11·5	0	1	29	0	0	0	0	1	15	13	1	1	0
Bhavnagar (Aerodrome)	0830	11	1003·8	1002·9	...	27·0	24·7	23.7	29·8	82	...	6.4	...	16·6	0	4	27	0	0	0	0	0	22	9	0	0	0
	1130	,,	1004·1	1002·9	...	29·8	25·1	23·1	28·3	69	...	6·7	...	20·4	0	17	14	0	0	0	0	0	15	16	0	0	0
	1730	,,	1001·3	1000·1	...	30·0	25.5	23·4	28·8	68	...	6·5	...	20·4	0	19	11	0	0	0	0	0	14	16	0	1	0
Mahuva	0830	9	1004·0	1003·0	...	26·1	25·0	24·5	30·7	91	...	7·0	...	10·5	0	1	29	0	0	0	0	1	12	17	0	1	0
	1730	,,	1002·0	1001·0	...	27·8	25·2	24·0	29·8	80	...	7·3	...	18·8	0	13	18	1	0	0	0	4	14	11	1	0	0
Keshod	0830	51	1004·2	998·4	...	26·3	24.7	24·3	30·4	87	...	7·0	...	25·4	0	12	19	0	0	0	0	0	22	9	0	0	0
	1130	,,	1004·6	998·8	...	28·0	24·9	23.5	28·9	77	...	7·4	...	32·5	0	31	0	0	0	0	0	0	20	11	0	0	0
	1730	,,	1002·5	996·7	...	27·7	24.7	23·3	28·6	77	...	6·7	...	32.3	0	30	1	0	0	0	0	0	18	13	0	0	0
Veraval	0230	8	1002·8	1001·9	...	26·0	25·4	25·1	31·9	95	...	7·1	...	26·3	0	24	7	0	0	0	0	0	8	22	1	0	0
	0530	,,	1002·4	1000.5	...	26·0	25·3	25·0	31·7	95	...	7·4	...	27.4	0	27	4	0	0	0	0	0	7	23	1	0	0
	0830	,,	1004·1	1003·2	−0.7	26·3	25·5	25·2	32·1	94	+8	7·6	+0.9	26·1	0	26	5	0	0	0	0	0	7	22	2	0	0
	1130	,,	1004·6	1003·9	...	26·9	25·9	25·4	32·4	91	...	7·5	...	24·6	0	23	8	0	0	0	0	0	9	20	2	0	0
	1730	,,	1002·6	1001·7	...	26·8	25·8	25·4	32·4	92	...	7·2	...	22·7	0	18	13	0	0	0	0	0	3	27	1	0	0
	2330	,,	1004·2	1003·3	...	26·1	25·5	25·3	32·1	95	...	6·8	...	24·4	0	21	10	5	0	0	0	0	10	21	0	0	0
Konkan																											
Dahanu	0830	5	1005·0	1004.5	+0·6	26·7	24·6	23·6	29·1	84	−4	7·8	+0.5	26·3	0	20	11	0	0	0	1	3	17	10	0	0	0
	1730	,,	1003·3	1002·8	...	27·6	25·0	23·8	29·5	80	...	7·9	...	28·3	0	23	8	0	0	0	1	1	9	19	1	0	0
Bombay (Colaba)	0830	11	1006·2	1005.0	−0.3	26·6	24·7	23·9	29·7	85	+2	6·7	−0.3	15·8	0	6	25	0	0	0	0	0	4	22	5	0	0
	1130	,,	1006·6	1005·4	...	28·3	25·7	24·6	30·9	81	...	6·7	...	14·0	0	4	27	0	0	0	0	0	10	18	3	0	0
	1730	,,	1004·5	1003.3	...	26·6	25·2	24·1	30·0	82	...	6·4	...	13·8	0	1	30	0	0	0	0	0	6	20	5	0	0
Bombay (Santacruz Aerodrome).	0230	15	1004·5	1002·9	...	25·9	24·5	23·8	29·5	88	...	7·3	...	16·0	0	10	18	0	0	0	0	0	7	20	1	3	0
	0530	,,	1004·4	1002·7	...	26·0	24·4	23·7	29·3	87	...	7·3	...	16·2	0	6	23	0	0	0	0	0	7	20	2	2	0
	0830	,,	1006·0	1004·4	−0.5	26·5	24·8	24·0	29·8	86	+4	7·6	−0.6	14·5	0	2	28	0	0	1	0	0	6	21	2	1	0
	1130	,,	1006·5	1004.9	...	27·7	25·1	23·7	29·3	80	...	7·2	...	18·0	0	7	24	0	0	0	0	0	5	24	2	0	0
	1730	,,	1004·2	1002·6	...	27·3	24.9	23·8	29·5	81	...	7·0	...	16·8	0	7	24	1	0	0	0	0	3	21	6	0	0
	2330	,,	1006·1	1004·4	...	26·1	24·6	23·9	29·7	88	...	6·6	...	16·1	0	6	25	0	0	0	0	0	10	21	0	0	0
Alibag	0830	7	1006·2	1005·4	−0.4	26·8	25·0	24·1	30·0	85	+1	7·2	−0.1	26·6	0	22	9	0	0	2	0	1	5	18	4	0	1
Harnai	0830	20	1006·7	1004·4	+0.8	26·9	25·3	24·6	30·9	87	+2	7·6	...	21·9	0	16	13	0	0	1	0	0	9	18	1	2	0
	1730	,,	1005·1	1002·8	...	26·9	25·4	24·7	31·1	88	...	7·7	...	26·2	0	21	10	0	0	0	0	0	2	27	2	0	0
Ratnagiri	0830	35	1007·6	1003·6	0	26·5	25·1	24·4	30·5	88	...	6·2	...	...	...	...	...	0	0	3	1	0	3	24	0	0	0
	1730	,,	1005·6	1001·7	...	27·3	25·4	24·5	30·7	85	...	6·5	...	...	...	...	...	0	0	0	0	0	2	29	0	0	0
Devgad	0830	36	1007·7	1003·7	+1.1	26·3	25·0	24·5	30·7	90	+2	6·5	−0.2	25·5	0	24	6	0	0	3	0	0	0	13	14	1	0
	1730	,,	1005·8	1001·8	...	27·2	25·0	24·6	30·9	86	...	6·4	...	27.0	0	25	6	0	0	0	0	0	0	17	14	0	0
Vengurla	0230	9	1006·8	1005·8	...	25.0	24·2	23·9	29·7	93	...	5·8	...	3.8	0	0	16	0	0	0	0	0	1	14	1	15	0
	0530	,,	1006·6	1005·6	...	25·1	24·2	23·7	29·3	92	...	6·2	...	7·6	0	0	23	0	0	0	0	0	5	16	2	8	0
	0830	,,	1008·2	1007·2	...	26·0	24·6	24·0	29·8	89	...	6·5	...	6·3	0	0	28	1	1	0	0	0	6	19	1	3	0
	1130	,,	1008·7	1007·7	...	27·6	25 4	24.5	30·7	83	...	6·4	...	7·5	0	0	30	1	0	1	0	0	12	11	5	1	0
	1730	,,	1006·4	1005·4	...	27·1	25·0	24·1	30·0	84	...	6·8	...	7·5	0	0	30	0	0	0	0	0	4	14	12	1	0
	2330	,,	1008·4	1007·4	...	25·3	24·3	23·8	29·5	92	...	5·9	...	6·0	0	0	22	5	0	0	0	0	3	16	3	9	0
Maharashtra (Including Marathwada)																											
Nandurbar	0830	206	1004·3	981·1	...	24·3	23·6	23·3	28·6	94	...	7·5	...	8·0	0	0	31	0	0	0	0	0	1	30	0	0	0
	1730	,,	1001·8	978·7	...	26.5	24·2	23·0	28·1	82	...	7·4	...	12·0	0	0	31	0	0	0	0	0	1	30	0	0	0
Jalgaon	0830	201	1004·4	981·6	...	24·7	23·5	22·9	27·9	90	...	6·5	...	10·8	0	1	30	0	0	0	0	0	6	24	1	0	0
	1730	,,	1001·3	978·9	...	27·9	24·4	22·7	27·6	75	...	6·5	...	21·1	0	16	15	0	0	0	0	0	2	19	10	0	0
Malegaon	0830	437	1004·2	955·6	−0.7	24·4	22·0	20·7	24.4	80	+4	6.8	+1.0	8·8	0	0	28	0	0	0	0	0	6	18	4	3	0
	1730	,,	1001·4	953·4	...	27·2	22·8	20·4	24·0	67	...	7·1	...	17·8	0	8	23	0	0	0	0	0	1	27	3	0	0
Deolali	0830	571	1005·9	942·5	...	22.8	21·9	21·5	25·6	93	...	7·3	...	20·7	0	16	15	0	0	0	0	0	17	14	0	0	0
	1730	,,	1003.9	941·0	...	24·1	22·3	21·4	25·5	85	...	7·0	...	23·6	0	22	9	0	0	0	0	0	14	17	0	0	0
Aurangabad	0830	581	1005·4	941·2	−0·5	23·3	21.3	20.3	23·8	84	+4	6·5	−0.5	17·8	0	12	18	0	0	0	0	0	1	26	0	1	0
	1730	,,	1001·6	938·4	...	26·8	22·2	19.9	23·2	67	...	6·5	...	27·6	0	24	6	0	0	0	0	0	0	28	2	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Maharashtra (Including Marathwada)—*contd.*																											
Aurangabad (Chikalthana Aerodrome).	0230	579	1003·8	939·5	...	21·6	20·4	19·8	23·1	89	...	6·2	...	13·4	0	0	31	0	0	0	0	0	0	30	1	0	0
	0530	"	1003·7	939·3	...	21.1	20·4	20·0	23·4	93	...	6·6	...	14·1	0	1	30	0	0	0	0	0	0	30	1	0	0
	0830	"	1004·8	940·8	...	23·2	21·4	20·6	24·3	86	...	6·7	...	14·6	0	5	26	0	0	0	0	0	0	30	1	0	0
	1130	"	1004·1	940·8	...	26·2	22·5	20·7	24·4	73	...	7·2	...	18.2	0	9	22	0	0	0	0	0	1	27	3	0	0
	1730	"	1001·0	938·0	...	27·0	22·4	20·0	23·4	68	...	7·0	...	24·7	0	22	9	0	0	0	0	0	0	27	4	0	0
	2330	"	1005·0	940·8	...	22·5	20·7	20·0	23·4	86	...	5·5	...	6·6	0	9	22	0	0	0	0	0	0	31	0	0	0
Ahmednagar . .	0830	657	1005·0	932·8	—0·7	23·7	20·7	19·1	22.1	75	—3	6·5	+1·1	3·5	0	0	27	0	0	0	0	0	9	13	5	4	0
	1730	"	1001·6	930·5	...	27·1	21·3	18·3	21·0	59	...	6·5	...	6·3	0	0	31	0	0	0	0	0	4	17	10	0	0
Bhir (R)	0830	519																									
(R)	1730	"																									
Parbhani . . .	0830	423	1005·3	958·2	...	24·6	21·7	20·1	23·5	76	...	6·2	...	16·2	0	4	27	0	0	0	0	0	4	23	4	0	0
	1730	"	1000·8	954·7	...	29·1	23·0	19·6	22·8	60	...	6·8	...	14·3	0	4	27	1	0	0	0	0	1	17	12	0	0
Nanded . . .	0830	358	1004·6	964·7	...	24·8	22.8	21·7	25·9	82	...	4·1	...	9·3	0	0	31	1	0	0	0	0	11	12	7	0	0
	1730	"	1001·0	961·7	...	28·8	24·1	21·8	26.1	68	...	4·2	...	9·1	0	0	30	2	1	0	0	0	2	9	16	1	0
Poona . . .	0530	559	1004·4	942·2	...	21·6	20·7	20·2	23·7	92	...	6.6	...	3·9	0	0	15	0	0	0	0	0	1	14	0	16	0
	0830	"	1005·7	943·7	—0·6	23·0	21·5	20·8	24·6	88	+7	6·7	+0·3	3·7	0	0	21	0		0	0	1	11	9	0	10	0
	1130	"	1005·5	944·0	...	25·5	22·5	21·1	25·0	77	...	6·6	...	7·5	0	0	25	0	0	0	0	0	14	11	0	6	0
	1730	"	1003·6	942·1	...	24·5	22·0	20·8	24·6	80	...	7·3	...	8·4	0	0	25	0	0	0	0	0	5	18	2	6	0
	2330	"	1006·1	944·0	...	22·2	20·9	20·4	24·0	90	...	6·2	...	3·4	0	0	16	0	0	0	0	0	3	13	0	15	0
Poona (Lohagaon Aerodrome)	0230	593	1005·0	939·0	...	21·5	20·7	20·3	23·8	93	...	6·5	...	8·1	0	0	27	0	0	0	0	0	0	27	0	4	0
	0530	"	1004·7	938·7	...	21·0	20·4	20·1	23·5	95	...	6·5	...	7·7	0	0	23	0	0	0	0	0	0	22	1	8	0
	0830	"	1005·9	940·1	...	22·4	21·2	20·6	24·3	89	...	6·8	...	15·0	0	8	23	0	0	0	0	0	1	29	1	0	0
	1130	"	1005·5	940·3	...	25·2	22·0	20·4	24·0	75	...	6·9	...	26·9	0	24	7	0	0	0	0	0	0	30	1	0	0
	1730	"	1003·8	938·4	...	23·9	21·5	20·3	23·8	81	...	7·2	...	29·1	0	26	5	0	0	0	0	0	0	29	2	0	0
	2330	"	1006·4	940·4	...	21·7	20·7	20·3	23·8	92	...	6·4	...	11·4	0	1	28	0	0	0	0	0	0	28	1	2	0
Baramati . . .	0830	551	1005.4	944·8	...	24·3	21·4	20·1	23·5	78	...	5·7	...	12·8	0	3	28	0	0	0	0	0	8	23	0	0	0
	1730	"	1002·4	942·5	...	27·4	22·4	20·3	23·8	64	...	5·8	...	29·0	0	28	3	0	0	0	0	0	4	23	4	0	0
Jeur	0830	521	1005·5	947·7	...	23·8	21·5	20·4	24·0	81	...	6·0	...	11·4	0	2	29	0	0	0	0	1	7	18	5	0	0
	1730	"	1001·6	945·1	...	28·5	23·3	20·7	24·4	64	...	6·7	...	26·3	0	23	8	0	0	0	0	0	0	15	16	0	0
Sholapur . . .	0530	479	1005.0	951.7	...	22.7	21·2	20·5	24.1	88	...	5·4	...	3·9	0	0	24	0	0	0	0	0	17	3	4	7	0
	0830	"	1005.9	952.8	—0·4	24·7	22.2	20·9	24·7	80	+5	5·5	+0·1	9·9	0	0	31	0	0	0	0	0	19	8	4	0	0
	1130	"	1004·9	952.6	...	29·0	23.6	21·1	25·0	63	...	6·4	...	16·1	0	6	24	0	0	0	0	0	10	17	3	1	0
	1730	"	1001·5	949·6	...	30·0	23·7	20·8	24·6	59	...	6·7	...	3·1	0	3	27	0	0	0	0	0	11	9	10	1	0
	2330	"	1005·7	952·8	...	24·9	22·0	20·7	24·4	78	...	4·4	...	7·5	0	0	31	0	0	0	0	0	16	10	5	0	0
Miraj	0830	554	1007·1	945·8	—0·1	23·3	21·3	20·3	23·8	84	—1	5·9	—1·2	...	...	...	...	2	0	0	0	0	2	19	3	7	0
	1730	"	1004·5	943·8	...	25·6	21·9	20·1	24·4	72	...	6·0	...	...	...	...	...	1	0	0	3	0	1	25	4	1	0
Kolhapur . . .	0530	570	1005·5	942·1	...	21.2	20·6	20·2	23·7	94	...	6·3	...	10·5	0	0	27	0	0	0	0	0	7	20	0	4	0
	0830	"	1006.9	943·7	+0·2	22·2	21·3	20·8	24·6	92	+2	7.3	+0·7	14.7	0	4	27	0	0	0	0	0	5	24	2	0	0
	1130	"	1006·7	943·9	...	24·3	22·1	21·1	25·0	82	...	7·1	...	21.1	0	15	16	3	0	0	0	0	2	27	2	0	0
	1730	"	1004·6	941·8	...	23·8	21·7	20·7	24·5	83	...	7·0	...	19·5	0	10	21	0	0	0	0	0	2	26	3	0	0
	2330	"	1007·2	943·8	...	21·7	20·7	20·3	23·8	91	...	6·3	...	12·7	0	1	30	0	0	0	0	0	8	23	0	0	0
Vidarbha																											
Buldhana . . .	0830	650	1003·9	932·2	...	22·6	20.9	20·2	23·5	86	...	6·0	...	4·3	0	0	29		1	0	0	0	5	0	23	2	0
	1730	"	1000·9	929.9	...	25·5	22·7	21·4	25·5	79	...	6·5	...	3·3	0	0	23	0	0	0	0	0	0	0	23	8	0
Akola	0830	282	1003·8	972·2	—0·6	24·7	22·7	21·7	25·9	84	+4	7·2	+1·0	5·3	0	0	29	0	0	0	0	0	5	23	1	2	0
	1130	"	1003·5	972·2	...	27·3	23·7	21·9	26·4	71	...	7·1	...	7·3	0	0	30	0	0	0	0	0	2	27	1	1	0
	1730	"	1000·2	969·2	...	28·8	24·1	21·7	26·1	68	...	7·0	...	5·7	0	0	31	0	0	0	0	0	0	25	6	0	0
Akola (Aerodrome) .	0530	309	1002·0	967·3	...	23·2	22·0	21·4	25·4	90	...	6·2	...	5·7	0	1	26	0	0	0	0	0	1	26	0	4	0
	2330	"	1003·1	968·4	...	24·8	23·0	22·0	26·6	85	...	5·7	...	5·1	0	0	27	0	0	0	0	0	1	25	1	4	0
Amravati . . .	0830	370	1003·8	962·5	—0·4	24·5	22·8	21·9	26·5	86	+3	6·7	+0·5	21·0	0	12	19	0	0	0	0	0	14	16	1	0	0
	1730	"	999·7	959·0	...	27·5	23·8	21·9	26·6	74	...	6·2	...	13·8	0	0	31	0	0	0	0	0	12	9	10	0	0
Yeotmal . . .	0830	451	1003·1	953·3	...	24·0	22·1	21·0	24.9	84	...	4·9	...	11·0	0	0	31	0	0	0	0	0	2	29	0	0	0
	1730	"	999·9	950·5	...	27·6	23·3	21·2	25·1	70	...	6·1	...	8·9	0	0	31	0	0	0	0	0	2	22	7	0	0
Nagpur . . .	0230	310	1000·9	966·3	...	24·4	23·3	22·7	27·8	90	...	6·8	...	6·7	0	1	27	0	0	0	0	0	9	15	4	3	0
	0530	"	1001·2	966·5	...	23·8	23 0	22·6	27·4	93	...	7·2	...	6·2	0	0	26	0	0	0	0	0	8	18	0	5	0
	0830	"	1002·8	968·2	—0·6	25.4	23·5	22·8	27.4	85	+3	6.9	+0·6	11·7	0	26	4	0	0	0	0	0	6	21	3	1	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in m.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidharbha—*Contd.*																											
Nagpur—contd.	1130	310	1002·4	968·1	...	27·6	24·2	22·6	27·5	75	...	7·7	...	16·5	0	8	23	0	0	0	0	0	3	17	11	0	0
	1730	"	999·5	965·2	...	27·8	24·3	22·6	27·6	75	...	7·1	...	13·9	0	9	22	0	0	0	0	1	7	15	8	0	0
	2330	"	1002·3	967·7	...	25·1	23·6	22·8	27·9	88	...	6·5	...	6·7	0	0	27	0	0	0	0	0	5	14	8	4	0
Gondia	0830	313	1002·2	967·2	...	25·2	23·6	22·9	27·8	87	...	7·7	...	6·8	0	0	30	0	0	0	0	0	10	0	1	1	19
	1730	"	999·2	964·8	...	27·4	24·6	23·5	28·7	80	...	7·5	...	6·3	0	0	29	0	0	0	1	1	12	0	3	2	12
Brahmapuri	0830	229	1003·9	978·3	...	25·6	23·9	23·1	28·3	86	...	6·5	...	7·1	0	0	31	1	0	0	0	1	0	14	5	0	0
	1730	"	1000·0	974·6	...	27·9	25·0	23·7	29·3	79	...	6·4	...	6·2	0	0	27	1	0	0	0	1	7	12	6	4	0
Chanda	0830	193	1003·6	982·0	0·4	26·4	23·9	22·6	27·1	80	0	6·5	+0·5	12·4	0	2	29	0	0	0	0	0	6	17	8	0	0
	1730	"	1000·0	978·6	...	29·0	24·7	22·6	27·5	70	...	7·2	...	11·6	0	0	29	2	0	0	0	1	7	14	5	2	0
Sironcha	0830	123	1004·2	990·5	...	26·8	24·7	23·7	29·3	84	...	6·7	...	5·4	0	0	25	1	0	1	0	3	5	11	4	6	0
	1730	"	1000·7	987·0	...	29·8	25·3	23·2	28·5	69	...	6·8	...	4·5	0	0	29	5	0	0	2	3	5	9	4	2	1
Coastal Andhra Pradesh Nellore	0530	20	1004·0	1001·8	...	28·3	23·2	20·6	24·3	64	...	5·5	...	2·9	0	0	18	0	0	0	0	0	4	13	1	13	0
	0830	"	1005·8	1003·6	0·6	30·2	24·1	21·0	24·9	58	−7	5·9	−0·1	6·3	0	0	31	0	0	0	0	1	0	29	1	0	0
	1130	"	1005·0	1002·8	...	33·8	24·9	20·5	24·1	46	..	4·9	...	9·8	0	0	30	0	0	0	0	0	8	16	6	1	0
	1730	"	1001·9	999·7	...	34·2	25·2	20·7	24·4	47	...	6·6	...	3·1	0	0	29	0	0	1	2	0	3	20	3	2	0
	2330	"	1004·7	1002·5	...	29·9	24·7	22·2	26·7	65	...	5·0	...	2·3	0	0	11	0	0	0	0	1	2	8	0	20	0
Ongole	0830	12	1004·8	1003·4	...	30·7	24·4	21·1	25·0	57	...	6·5	...	9·4	0	0	28	0	0	0	0	0	4	13	11	3	0
	1730	"	1001·1	999·8	...	34·5	25·6	21·2	25·2	48	...	6·6	...	7·9	0	0	28	0	1	0	1	0	3	10	13	3	0
Rentachintala	0830	106	1005·1	993·9	...	29·5	24·3	21·8	26·1	64	−3	5·9	−0·8	8·0	0	0	29	0	0	0	0	0	0	28	1	2	0
	1730	"	1000·9	989·2	...	33·7	25·0	20·9	24·7	49	...	6·5	...	6·9	0	0	29	0	0	2	0	0	0	26	1	2	0
Gannavaram	0230	24	1002·5	999·8	...	27·4	25·2	24·2	30·2	83	...	6·9	...	4·5	0	0	19	0	0	0	0	0	6	9	4	12	0
	0530	"	1003·0	1000·3	...	27·2	24·5	23·2	28·4	79	...	6·7	...	6·1	0	6	20	1	0	0	0	0	4	15	6	5	0
	0830	"	1004·7	1002·0	...	28·9	24·8	22·9	27·9	71	...	6·2	...	15·9	0	11	18	0	0	0	0	0	4	20	5	2	0
	1130	"	1004·2	1001·5	...	31·6	25·4	22·6	27·4	59	...	5·7	...	22·1	0	18	13	0	0	0	0	0	4	15	12	0	0
	1730	"	1001·1	998·4	...	31·7	25·5	22·7	27·6	60	...	7·4	...	12·6	0	2	27	1	0	0	2	0	0	6	20	2	0
	2330	"	1003·9	1001·2	...	28·1	25·6	24·5	30·7	81	...	6·9	...	5·0	0	1	17	0	1	0	0	1	4	9	3	13	0
Masulipatam	0830	3	1004·5	1004·2	−0·8	28·8	25·1	23·4	28·8	73	−6	5·2	−0·6	6·4	0	0	31	0	0	0	0	1	2	23	5	0	0
	1730	"	1001·3	1001·0	...	31·9	26·1	23·5	28·9	62	...	6·3	...	6·2	0	0	30	10	0	0	0	9	0	6	5	1	0
Nidadavolu	0830	12	1004·1	1002·7	...	28·1	25·7	24·6	30·9	82	...	7·1	...	9·2	0	0	28	0	6	0	0	0	5	21	2	3	0
	1730	"	1000·9	999·5	...	30·2	26·3	24·7	31·1	73	...	7·0	...	10·1	0	1	29	2	0	1	0	0	5	12	10	1	0
Kakinada	0830	8	1003·8	1002·9	−0·7	30·3	26·3	24·6	30·9	72	−8	5·1	−0·6	11·0	0	0	31	0	0	0	1	0	28	2	0	0	0
	1730	"	1000·8	999·9	...	31·1	26·3	24·1	30·0	67	...	5·9	...	10·1	0	0	31	0	0	0	2	0	26	2	1	2	0
Visakhapatnam	0230	3	1001·1	1000·7	...	27·9	24·9	23·4	28·8	77	..	6·0	...	6·9	0	2	19	0	0	1	0	0	18	1	1	10	0
	0530	"	1001·3	1000·9	...	27·5	24·8	23·5	23·9	79	...	6·9	...	9·4	0	1	20	0	0	1	0	0	15	5	0	10	1
	0830	"	1002·7	1002·3	−0·9	29·7	25·3	23·2	28·4	69	−15	5·9	−0·8	11·5	0	2	27	0	0	0	0	0	24	4	0	2	1
	1130	"	1002·0	1001·6	...	32·5	25·7	22·6	27·4	57	...	6·3	...	17·5	0	11	19	0	0	0	0	2	18	9	1	1	0
	1730	"	1000·0	999·6	...	31·0	25·2	22·5	27·3	62	...	7·0	...	13·9	0	6	22	0	0	0	1	1	13	8	5	3	0
	2330	"	1002·4	1002·0	...	28·5	25·0	23·3	29·6	74	...	6·5	...	7·6	0	1	23	0	0	0	0	0	16	2	5	7	1
Calingapatam	0830	6	1002·3	1001·6	−0·7	28·5	27·1	26·6	34·8	89	+8	5·6	+0·4	15·2	0	9	21	0	0	0	0	2	10	11	2	1	5
	1730	"	1000·0	999·4	...	29·1	27·9	27·4	36·5	91	...	6·5	...	15·1	0	7	24	0	1	0	1	7	17	4	1	0	0
Telangana Ramagundam	0830	156	1003·9	986·3	...	26·8	23·8	22·4	27·1	77	...	6·6	...	7·3	0	1	28	1	1	0	1	0	1	8	17	2	0
	1730	"	1000·5	983·2	...	30·5	25·2	22·6	27·4	65	...	6·2	...	4·7	0	0	27	1	2	0	0	2	3	12	7	4	0
Nizamabad	0830	381	1004·8	962·5	−0·2	25·8	22·8	21·3	25·3	76	−3	5·4	+0·3	4·9	0	0	30	0	0	1	0	0	12	18	0	1	0
	1730	"	1001·0	959·0	...	28·9	24·6	22·5	27·3	69	...	6·1	...	1·9	0	0	17	2	0	1	0	0	7	6	1	14	0
Mahabubnagar	0830	505	1005·8	949·9	...	25·0	21·6	19·9	23·2	74	...	6·5	...	12·7	0	0	31	1	0	0	0	0	9	10	11	0	0
	1730	"	1001·2	946·5	...	29·7	22·7	19·2	22·2	54	...	7·7	...	9·3	0	1	29	0	0	0	0	0	7	15	8	1	0
Hyderabad (Begumpet Aerodrome)	0230	545	1003·3	943·4	...	24·2	21·2	19·6	22·8	76	...	5·8	...	16·8	0	12	17	0	0	0	1	0	2	22	4	2	0
	0530	"	1003·9	943·7	...	23·0	20·7	19·5	22·7	81	...	6·3	...	15·5	0	7	23	0	0	0	0	0	2	23	5	1	0
	0830	"	1005·2	945·2	0	24·7	21·3	19·6	22·8	73	−7	6·7	+0·6	21·9	0	19	12	1	0	0	0	0	0	25	5	0	0
	1130	"	1003·9	944·7	...	28·5	22·4	19·4	22·5	58	...	6·8	...	24·2	0	25	6	3	0	0	0	0	0	17	11	0	0
	1730	"	1000·7	941·9	...	29·1	22·4	19·1	22·1	56	...	6·8	...	19·4	0	13	17	2	0	0	1	0	0	16	11	1	0
	2330	"	1004·2	944·5	...	25·9	21·7	19·6	22·8	69	...	6·0	...	15·5	0	8	21	1	0	0	3	0	0	22	3	2	0
Nakimpe	0530	613	1004·0	936·4	...	22·3	20·7	19·9	23·2	86	...	6·2	...	15·4	0	6	25	0	0	0	0	0	4	25	2	0	0
	0830	"	1004·7	937·5	...	24·2	21·4	19·9	23·2	77	...	6·0	...	19·1	0	15	16	1	0	0	0	0	2	22	6	0	0
	1130	"	1003·6	937·2	...	27·8	22·6	20·1	23·5	63	...	6·8	...	22·2	0	18	13	2	0	0	0	0	0	22	7	0	0
	1730	"	1001·3	935·1	...	28·2	22·8	20·2	23·7	63	...	6·7	...	16·8	0	12	19	3	0	0	1	1	0	16	10	0	0
Hanamkonda	0830	269	1004·3	974·5	−0·6	26·8	23·2	21·4	25·5	73	−2	4·7	−1·1	5·4	0	0	31	0	0	0	0	1	1	18	11	0	0
	1730	"	1001·0	971·5	...	30·3	24·4	21·7	25·9	61	...	6·0	...	5·6	0	0	31	4	1	1	1	0	1	9	14	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—*Contd.*																											
Bhadrachalam	0830	111	1004·3	991·9	...	27·6	24·8	23.6	29·1	79	...	6·9	...	5·6	0	0	20	1	2	0	1	0	6	3	2	11	0
	1730	"	1000·7	988·4	...	30·9	25·5	23·5	28·9	66	...	7·3	...	5.5	0	0	30	1	6	0	3	0	0	3	17	1	0
Khammameth	0830	112	1004·5	991·9	...	27·6	24.4	23·0	28.1	76	...	6·4	...	8·7	0	0	26	0	0	0	0	0	5	18	3	5	0
	1730	"	1000·5	988·1	...	30·7	25·3	22.9	27.9	64	...	7.1	...	8·7	0	1	28	4	0	1	0	1	1	14	8	2	0
Rayalaseema																											
Arogyavaram	0830	701	1006·6	930·1	...	24·5	20·2	17·8	20.4	67	...	6·3	...	11.3	0	0	30	4	1	0	0	0	0	10	15	1	0
	1730	"	1002·1	927.1	...	29·4	21·4	17·1	19·5	49	...	6·7	...	14·5	0	2	29	3	0	0	1	0	2	9	16	0	0
Cuddapah	0830	130	1007·0	992·4	—0·3	29·5	23·8	21·0	24·9	60	—8	5·2	—0·7	5·3	0	0	19	0	0	0	0	0	0	19	0	12	0
	1730	"	1002·1	987·9	...	33.6	24·9	20·6	24·3	47	...	6·2	...	6·1	0	0	22	0	0	0	0	0	0	21	1	9	0
Anantapur	0530	350	1005·7	966.6	...	24·2	21.0	19·2	22·2	73	...	5·4	...	16·7	0	6	23	0	0	0	0	0	0	29	0	2	0
	0830	"	1006·9	968·0	...	26·3	21·7	19·2	22·2	65	...	6·2	...	22·2	0	18	13	0	0	0	0	0	0	31	0	0	0
	1130	"	1005·7	966·7	...	30·3	22·4	17·9	20·5	48	...	6·5	...	23·4	0	22	9	2	0	0	0	0	1	25	3	0	0
	1730	"	1002·3	964·2	...	31·1	22·5	17·5	20·0	45	...	6·7	...	23·0	0	21	8	0	0	0	0	0	1	25	3	2	2
	2330	"	1006·5	967·7	...	26·6	21·6	18·8	21·7	62	...	4·8	...	25·2	0	24	6	0	0	0	1	0	1	27	1	1	0
Kurnool	0830	281	1006·5	975·1	—0·3	26·7	22·8	20·8	24·6	70	—4	5·5	—0·4	11·5	0	4	27	0	0	0	0	0	1	21	9	0	0
	1730	"	1001·6	970·8	...	31·6	23·6	19·5	22·7	50	...	6·3	...	15·8	0	7	23	2	0	0	0	0	0	19	9	1	0
Madras State																											
Palayamcottai	0830	51	1008·2	1002·5	...	29·8	23·2	19·7	22·9	55	...	5·3	..	18·1	0	12	19	2	0	0	1	0	0	25	3	0	0
	1730	"	1005·0	999·4	...	31·0	23·6	19·8	23·1	52	...	5·9	...	19·7	0	14	17	0	1	1	0	0	1	26	2	0	0
Tuticorin	0830	4	1008·3	1007·9	...	30·0	24·3	21·5	30·4	61	...	4·8	...	19·2	0	12	19	1	1	1	1	0	1	23	3	0	0
	1730	"	1004·9	1004·5	...	31·1	24·9	21·9	26·3	60	...	3·8	...	26·1	0	24	7	0	1	0	7	4	0	19	0	0	0
Pamban	0830	11	1008·0	1006·7	—0·4	28·1	26·4	25·7	33·0	87	+11	3·1	+0·2	6·7	0	0	28	0	0	0	4	2	22	0	0	3	0
	1730	"	1004·9	1003·6	...	28·5	26·0	24·9	31·5	81	...	3·6	...	8·0	0	0	31	0	0	0	2	20	9	0	0	0	0
Tondi	0830	5	1008·0	1007·4	...	29·2	26·0	24·5	30·7	77	...	5.5	...	0·3	0	0	1	0	0	0	1	0	0	0	0	30	0
	1730	"	1004·6	1004·0	...	29·5	27·7	27·0	35·7	87	...	5·9	...	31·3	0	30	1	0	0	0	16	14	1	0	0	0	0
Mathurai	0830	133	1007.7	992·8	—0·5	27·9	22·9	20·3	23·8	64	+2	6·5	+1·3	3·8	0	0	31	0	2	0	0	0	1	1	27	0	0
	730	"	1003·7	989·0	...	32·9	23·7	18·9	21·8	45	...	7·1	...	7·6	0	0	31	0	1	0	9	0	17	0	4	0	0
Mathurai (Aerodrome)	0530	131	1006·3	991·4	...	25·6	21·8	19·6	22·8	71	...	4·8	...	8·8	0	2	26	14	1	0	0	0	1	10	2	3	0
	0830	"	1007·7	993·0	...	28·9	22·7	19·3	22·4	57	...	4·9	...	11·3	0	1	30	10	3	0	0	1	0	13	4	0	0
	1130	"	1006·8	992·3	...	32·8	23·5	18·4	21·1	43	...	4·6	...	15·7	0	6	25	8	1	0	0	1	4	12	5	0	0
	1730	"	1003·9	989·4	...	32·2	23·3	18·3	21·0	45	...	5·5	...	14·7	0	20	10	1	1	0	3	5	0	20	0	1	0
Adirampattinam	0830	"	...	...	...	29·6	24·4	21·0	26·3	64	...	3·1	...	9·5	0	0	30	2	0	0	1	2	5	3	17	1	0
	1730	"	...	...	...	30·3	26·0	24·1	30·0	70	...	3·5	...	25·2	0	25	6	0	0	0	1	20	10	0	0	0	0
Nagapattinam	0830	9	1007·8	1006·7	—0·4	28·7	24·2	22·0	26·4	67	—3	5·3	+0·7	13·6	0	0	31	0	0	0	1	1	6	22	1	0	0
	1730	"	1003·8	1002·8	...	31·9	26·0	23·4	28·8	62	...	4·7	...	18·5	0	0	25	0	0	1	3	11	13	2	1	0	0
Tiruchirapalli	0230	88	1006·0	996·1	...	26·9	22·3	19·8	23·1	66	...	3·3	...	28·9	0	24	4	0	0	0	0	0	0	26	2	3	0
	0530	"	1006·3	996·4	...	26·2	22·3	20·2	23·7	70	...	3.9	...	28·4	0	25	5	0	0	0	0	0	0	28	2	1	0
	0830	"	1007·3	997·9	—0·5	28·4	23·1	20·4	24·0	63	—1	4·6	0	32·3	0	26	5	0	0	0	0	0	0	28	3	0	0
	1130	"	1006·8	996·7	...	32·6	23·9	19·4	22·5	46	...	4·5	...	33·7	0	27	4	0	0	0	0	0	0	28	3	0	0
	1730	"	1003·3	993·7	...	33·4	23·7	18·4	21·1	42	...	5·6	...	32·1	0	25	6	1	0	0	2	1	1	22	4	0	0
	2330	"	1007·3	997·4	...	27·6	22·5	19·7	22·9	63	...	4·1	...	29·6	0	24	4	0	0	0	0	0	3	24	1	3	0
Coimbatore	0830	409	1008·5	963.1	0	25·1	21·9	20.1	23·5	74	—7	5·3	+1·0	20·9	0	15	16	0	0	0	0	12	16	3	0	0	0
	1730	"	1004·9	960·0	...	27·8	22·5	19·6	22·8	62	...	5·8	...	22·5	0	19	12	0	0	0	0	3	16	8	0	0	0
Coimbatore (Peelamedu Aerodrome).	0530	400	1007·4	962·7	...	22·3	21·3	20·7	24·4	91	...	5·1	...	23·5	0	19	12	0	0	0	0	11	18	2	0	0	0
	0830	"	1008·4	964·0	...	24·8	22·1	20·7	24·4	78	...	4·6	...	24·3	0	23	8	0	0	0	0	3	27	1	0	0	0
	1130	"	1007·2	963·4	...	29·2	22·9	19·5	22·7	56	...	4·9	...	32·9	0	26	5	0	0	0	0	6	22	2	0	0	0
	1730	"	1004·7	960·8	...	27·8	22·4	19·5	22·7	61	...	5·3	..	38·0	0	30	1	0	0	0	0	4	23	3	1	0	0
	2330	"	1008·6	964·0	...	23·7	21·6	20·5	24·1	83	...	3·7	...	34·5	0	30	1	0	0	0	0	15	15	1	0	0	0
Salem	0530	278	1006·7	975·5	...	23·9	21.9	20·8	24·6	83	...	5·8	...	2·8	0	0	24	0	0	0	0	6	14	4	0	7	0
	0830	"	1008 0	976·9	—0·3	26·0	22·7	21·0	24.9	74	—4	5·0	—0·2	2·9	0	0	26	0	0	0	0	5	12	8	1	5	0
	1130	"	1006.6	976·0	...	30.7	23.5	19·6	22·8	53	...	5·9	...	6·4	0	0	31	0	0	0	0	2	8	20	1	0	0
	1730	"	1002·9	972·5	...	31.7	23·4	18·9	21·8	48	...	7·0	...	5·0	0	0	26	0	0	0	0	3	10	12	1	5	0
	2330	"	1007·6	976·5	...	26.5	22.5	20·4	24·0	70	...	5.3	...	5·7	0	0	28	0	0	0	0	16	9	2	1	3	0
Kallakurichi	0830	127	1006·9	992·7	...	28.8	24.4	22.3	26·9	68	...	3·4	...	5·3	0	0	18	0	0	0	0	7	11	0	0	13	0
	1730	"	1002·4	988.5	...	33·7	25·2	21.2	25.2	48	...	5.5	...	9.6	0	2	26	0	0	0	3	4	18	3	0	3	0
Cuddalore	0530	12	1005·4	004.1	...	26·4	23·5	22·0	26.4	77	...	5·3	...	0.5	0	0	4	0	0	0	0	0	3	1	0	27	0
	0830	"	1006·9	1005·6	—0·7	29·3	24.4	22.0	26.4	65	—8	5.8	+0·8	3·5	0	0	22	0	0	0	0	3	9	6	4	9	0
	1130	"	1006.3	1005·0	...	33·3	24·9	20·7	24·4	48	...	4.7	...	4·8	0	0	27	0	0	1	1	2	10	11	2	4	0
	1730	"	1002·8	1001·5	...	32.3	25·9	22.9	27·9	60	...	6·0	...	6·7	0	0	29	0	0	3	12	4	4	5	1	2	0
	2330	"	1006·4	1005·1	...	28·4	24·9	23·3	28·6	74	...	4·8	...	7·3	0	1	26	0	0	0	4	8	10	5	0	4	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Tirupatur	0830	390	1007·6	964·4	..	26.3	22·0	19.7	22.9	68	..	4·6	..	8.4	0	0	29	12	6	0	0	5	0	6	0	2	0
	1730	,,	1002·4	960·3	..	32.7	28.9	17·3	19·7	41	..	6.1	..	14.2	0	5	25	9	1	0	0	8	2	10	0	1	0
Vellore	0530	214	1005·7	981·7	..	25.8	21.9	19.8	23.1	70	..	5·0	..	4.4	0	0	27	0	0	0	0	1	0	25	1	4	0
	0830	,,	1006·9	983·0	0	27·8	22·7	20.1	23·5	63	−7	5·4	+0·9	5·7	0	0	29	0	0	0	0	0	1	28	0	2	0
	1130	,,	1005·6	982·1	..	32.2	23·9	19·6	22.8	48	..	5.5	..	13.5	0	2	28	0	0	0	0	0	3	26	1	1	0
	1730	,,	1002·2	978.7	..	32.3	23·7	19·1	22.1	48	..	6.1	..	7.1	0	0	29	1	1	0	2	2	2	21	0	2	0
	2330	,,	1006·9	982·5	..	28.1	23·4	21·0	24·9	67	..	4.5	..	5·3	0	0	26	0	1	0	1	0	0	24	0	5	0
Tambaram (Aerodrome)	0830	29	1006.3	1002·9	..	29.3	24·8	22.8	27·7	69	..	5·3	..	16·6	0	10	20	0	0	0	0	2	4	20	4	1	0
	1730	,,	1002.5	999·3	..	33.4	26·7	23·6	29.1	59	..	6·1	..	19·5	0	13	18	0	0	1	6	5	1	12	6	0	0
Madras	0230	16	1004.5	1002.8	..	28·3	23.9	21·6	25·8	68	..	4·8	..	11·1	0	2	27	0	0	0	0	8	11	10	0	2	0
	0530	,,	1005·0	1003·3	..	27·4	23·3	21·1	25·0	70	..	5·4	..	11.4	0	2	28	0	0	0	0	7	12	10	1	1	0
	0830	,,	1006·5	1004·8	−0·4	29·5	23·6	20·6	24·3	60	−8	5·2	−0·2	19·7	0	11	20	0	0	0	1	2	6	21	1	0	0
	1130	,,	1005.8	1004.1	..	33·0	24·2	19·7	22·9	46	..	5·2	..	21·0	0	17	14	0	0	0	0	1	7	19	4	0	0
	1730	,,	1002.7	1001·0	..	32·8	25·3	21·7	25·9	54	..	6·0	..	16·7	0	7	24	0	0	4	8	3	6	5	5	0	0
	2330	,,	1005·9	1004·2	..	28.6	25·0	23·4	28·8	74	..	5·3	..	12·7	0	2	27	0	0	0	2	13	10	2	2	2	0
Madras (Nungambakkam)	0830	6	1006.5	1005·8	..	29·1	24·0	21·4	25·5	64	..	4·5	..	10·3	0	0	30	0	0	0	0	3	7	20	0	1	0
Coastal Mysore																											
Karwar	0830	4	1008·5	1008·0	−0.3	26·0	24·4	23·7	29·3	87	..	6·8	..	8·5	0	2	24	2	0	0	0	0	1	14	9	5	0
	1730	,,	1007·1	1006·6	..	27·2	25·3	24·4	30·5	86	..	6·7	..	14·2	0	7	22	1	0	0	0	0	2	8	18	2	0
Honavar	0830	26	1009·0	1006·1	+0.2	25·3	24.3	23.8	29·5	92	+1	7·6	+0.9	3·8	0	0	25	1	0	6	0	2	5	9	2	6	0
	1730	,,	1007.2	1004·3	..	27·2	25·1	24·2	30·2	83	..	7·0	..	8·5	0	0	28	0	0	0	0	0	6	14	8	3	0
Mangalore	0830	22	1009·5	1007·1	−0·2	26.1	24·6	23·9	29·7	88	−2	6·5	−0·2	6·9	0	0	31	1	5	8	2	0	7	4	2	0	0
	1730	,,	1007·4	1004·9	..	27·5	25·0	23·9	29·7	81	..	6·5	..	7·7	0	0	31	1	1	0	0	1	3	11	13	0	1
Mangalore (Bajpe Aerodrome)	0230	102	1007·9	996·4	..	24·1	23·4	23·1	28·3	94	..	6·1	..	5·2	0	2	13	1	0	1	0	0	0	12	1	16	0
	0530	,,	1007·9	996.3	..	24·0	23·3	23·1	28·3	95	..	6·1	..	6·2	0	1	23	1	1	3	2	0	1	16	0	7	0
	0830	,,	1009·5	998.0	..	25·1	24·1	23·7	29·3	91	..	6·7	..	5·8	0	1	25	1	1	4	5	0	0	12	3	5	0
	1130	,,	1009·5	998·0	..	27·1	24·6	23·6	29·1	81	..	6·8	..	11.3	0	1	28	2	0	2	0	0	0	16	9	2	0
	1730	,,	1007·3	995·8	..	26·6	24·4	23·5	28·9	83	..	7·1	..	11·6	0	0	31	1	0	0	0	0	1	15	14	0	0
	2330	,,	1009·7	998·2	..	24·5	23·6	23·2	28·4	93	..	5·5	..	6·4	0	1	26	0	0	1	1	0	3	15	7	4	0
Interior Mysore (North)																											
Bidar	0830	664	1005.2	932·2	..	22·9	20·5	19·3	22·4	81	−2	6·1	+0·7	26·9	0	23	8	0	0	0	0	0	22	2	7	0	0
	1730	,,	1000.6	929·0	..	28·0	21·9	18.8	21.7	59	..	6·8	..	24.8	0	19	12	0	0	0	0	0	9	4	18	0	0
Gulbarga	0830	458	1006·0	955·3	−0·2	25·8	21·8	19·9	23.2	71	−7	7.2	+1·7	21.3	0	15	16	0	0	0	0	0	9	18	4	0	0
	1730	,,	1001.1	951·4	..	30·2	22·5	18.8	21.7	53	..	7·7	..	45·7	0	30	1	0	0	0	0	0	4	22	5	0	0
Bijapur	0830	594	1006·6	941·0	−0·1	23·8	21·3	20.0	23·4	80	+3	6·8	+1·2	8·8	0	0	31	1	0	0	0	0	3	21	6	0	0
	1730	,,	1002·4	938·1	..	28·3	22·4	19·5	22·7	59	..	6·9	..	8·8	0	0	31	2	0	0	0	0	4	18	7	0	0
Belgaum	0830	753	1007·6	924·6	−0·5	21·0	20·4	20·0	23·4	94	+3	7.2	+0·1	10·8	0	0	31	0	0	0	0	0	0	27	4	0	0
	1730	,,	1005·1	922·9	..	22·6	21·1	20·3	23·8	87	..	7·7	..	13·5	0	0	21	0	0	0	0	0	0	23	8	0	0
Belgaum (Sambre Aerodrome)	0530	747	1006·7	924.2	..	20·2	19·6	19·3	22·4	95	..	7·0	..	16·7	0	12	17	0	0	0	0	0	0	29	0	2	0
	0830	,,	1007·8	925·5	..	21·4	20·4	19.9	23·2	91	..	7·3	..	16·6	0	7	24	0	0	0	0	0	0	31	0	0	0
	1130	,,	1007·5	925.7	..	23·2	21·1	20·1	23·5	83	..	7·1	..	20·5	0	18	13	0	0	0	0	0	0	31	0	0	0
	1730	,,	1005·6	923·8	..	22·7	20·9	20·0	23·4	85	..	7·5	..	19·8	0	12	19	0	0	0	0	0	0	31	0	0	0
Gadag	0530	650	1006·7	934·6	..	20·9	20·5	20·3	23·8	96	..	6·1	..	14·6	0	3	28	0	0	0	0	0	7	23	1	0	0
	0830	,,	1007·6	936·0	+0·2	22·9	21·3	20·4	24·0	86	+2	7·5	+1·6	13·9	0	0	31	0	0	0	0	0	7	24	0	0	0
	1130	,,	1006·7	935·9	..	26·3	22·1	20.1	23·5	69	..	6·9	..	15·9	0	3	28	0	0	0	0	0	5	24	2	0	0
	1730	,,	1004·3	933·5	..	25·9	22·1	20·3	23·8	72	..	7·0	..	11·7	0	0	31	0	0	0	0	1	9	21	0	0	0
	2330	,,	1008.1	936.1	..	21·7	20·9	20·5	24·1	93	..	5·6	..	15 1	0	3	28	0	0	0	0	0	6	24	1	0	0
Raichur	0830	400	1006.3	962·0	−0·4	25·7	21·8	19·7	22·9	69	−7	5·8	+1·5	16·0	0	4	27	0	0	0	0	7	15	6	3	0	0
	1730	,,	1003·3	960·0	..	31.9	23·2	18.2	20·9	45	..	6.3	..	19·0	0	12	17	1	0	0	0	0	5	0	23	2	0
Interior Mysore (South)																											
Bellary	0830	449	1006·7	957·0	−0·4	25·8	22·6	21.0	24.9	75	+8	6·0	+0·4	11·9	0	0	31	0	0	0	0	0	1	6	24	0	0
	1730	,,	1002.3	953·5	..	30·1	24·1	21·1	25·0	59	..	6·0	..	11·5	0	0	31	0	0	0	0	0	1	7	23	0	0
Chitaldrug	0830	733	1007·9	927·2	−0·1	21·6	20·1	19·3	22·4	87	+6	7.1	+0·2	12·1	0	0	31	0	0	0	0	0	3	28	0	0	0
	1730	,,	1004·2	924·7	..	25·3	21·1	19·0	22·0	69	..	6·1	..	9·3	0	1	30	0	0	0	0	1	9	21	0	0	
Shimoga	0830	571	1008·1	944·9	..	22·7	21·1	20·4	24·0	87	..	7·9	..	4·9	0	0	24	0	0	0	0	4	9	10	1	7	0
	1730	,,	1005·4	942·8	..	25·0	21·8	20·3	23·8	75	..	7·8	..	9·8	0	0	31	1	0	0	0	5	9	16	0	0	0
Balehonnur	0830	..	..	..	..	19·7	19·1	18·6	21·4	94	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Hassan	0830	960	1488·7	904·1	..	20·4	19·3	18·7	21·6	90	+6	7·3	+0·7	8·6	0	0	31	0	0	0	0	0	0	31	0	0	0
	1730	,,	1471·7	902·0	..	22·9	20·2	18·8	21·7	78	..	7·2	..	10·1	0	0	31	0	0	0	0	0	0	31	0	0	0

(c) Mean of 28 days.

(f) Mean of 25 days.

Division and station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)— *Contd.*																											
Mysore	0830	767	1009.7	924.8	−0.1	21.9	19.9	19.0	22.0	84	+4	5.7	−0.6	5.3	0	0	29	0	0	0	0	0	11	18	0	2	0
	1730	,,	1005.6	922.7	..	26.2	21.2	18.7	21.6	63	..	6.3	..	10.8	0	2	25	0	0	0	0	0	8	19	..	4	0
Bangalore (Central Observatory—	0230	921	1473.1	906.5	..	20.2	18.9	18.2	20.9	89	..	4.8	..	13.5	0	3	28	0	0	0	0	0	1	27	3	0	0
	0830	,,	1488.3	907.9	−0.1	21.0	19.5	18.5	21.3	86	+1	7.1	−0.1	15.8	0	2	29	0	0	0	0	0	3	23	5	0	0
	1130	,,	1493.2	907.7	..	25.1	20.3	17.7	20.3	64	..	7.0	..	20.0	0	14	17	0	0	0	0	0	2	22	7	0	0
	1730	,,	1470.7	905.2	..	25.9	20.6	17.7	20.2	62	..	7.0	..	17.8	0	11	20	1	0	0	0	0	3	21	6	0	0
Bangalore (Aerodrome)	0530	897	1470.8	909.0	..	19.8	18.9	18.4	21.1	91	..	5.9	..	17.3	0	6	24	0	0	0	0	0	8	22	0	1	0
	0830	,,	1487.9	910.4	..	21.4	19.4	18.4	21.1	83	..	6.8	..	21.6	0	18	13	0	0	0	0	0	9	22	0	0	0
	1130	,,	1491.6	910.0	..	25.4	20.5	17.9	20.5	64	..	7.0	..	25.2	0	21	10	0	0	0	0	0	6	24	1	0	0
	1730	,,	1469.6	907.5	..	26.2	20.7	17.8	20.4	61	..	6.9	..	22.7	0	19	11	0	0	0	0	0	8	22	0	1	0
	2330	,,	1488.6	910.5	..	21.6	19.5	18.4	21.1	82	..	5.1	..	17.9	0	8	21	0	1	0	0	0	6	21	1	2	0
Kerala																											
Kozhikode	0530	5	1008.8	1008.2	..	24.0	23.5	23.3	28.6	95	..	5.0	..	3.7	0	1	18	5	5	1	0	1	1	2	4	12	0
	0830	,,	1010.4	1009.8	+0.2	25.2	24.1	23.6	29.1	91	0	5.9	−0.7	4.4	0	1	24	9	4	1	0	1	0	2	8	6	0
	1130	,,	1010.3	1009.7	..	27.5	25.3	24.3	30.4	83	..	5.2	..	6.5	0	0	31	2	0	0	0	0	2	14	13	0	0
	1730	,,	1007.9	1007.3	..	27.1	25.2	24.3	30.4	85	..	5.6	..	10.9	0	2	29	1	0	0	0	0	0	8	22	0	0
	2330	,,	1010.4	1009.8	..	25.0	24.1	23.7	29.3	93	..	4.6	..	5.2	0	1	21	3	3	1	0	0	0	3	12	9	0
Palghat	0830	97	1009.8	998.7	..	25.1	23.7	23.0	28.1	88	..	6.8	..	10.9	0	0	31	0	0	0	0	0	9	22	0	0	0
	1730	,,	1006.9	996.0	..	27.3	24.0	22.5	27.3	75	..	6.7	..	15.8	0	0	31	0	0	0	0	0	7	23	1	0	0
Fort Cochin	0830	3	1010.6	1010.3	0	26.1	24.6	23.9	29.7	88	+2	6.9	+0.9	6.7	0	0	26	6	3	2	1	0	1	5	8	5	0
	1730	,,	1007.9	1007.6	..	26.7	24.8	23.9	29.7	85	..	6.5	..	9.2	0	0	30	3	0	0	0	0	2	8	17	1	0
Cochin (Naval Air Station)	0230	3	1009.2	1008.9	..	24.9	24.2	23.8	29.5	93	..	5.4	..	3.9	0	1	15	2	1	2	1	0	1	1	8	15	0
	0530	,,	1009.1	1008.8	..	24.3	23.7	23.4	28.8	94	..	6.2	..	5.0	0	2	14	2	1	5	0	0	0	2	6	15	0
	0830	,,	1010.6	1010.3	..	25.8	24.3	23.6	29.1	88	..	6.5	..	3.7	0	0	19	5	2	3	0	0	0	4	5	12	0
	1130	,,	1010.6	1010.3	..	28.2	25.0	23.5	28.9	76	..	6.2	..	15.1	0	5	26	6	0	0	0	0	2	7	16	0	0
	1730	,,	1008.1	1007.8	..	27.3	24.7	23.5	28.9	80	..	6.5	..	15.6	0	6	25	4	0	0	0	1	2	4	20	0	0
	2330	,,	1010.9	1010.6	..	25.4	24.3	23.8	29.5	91	..	5.9	..	5.2	0	2	17	5	1	0	0	0	1	3	9	12	0
Alleppey	0830	4	1010.1	1009.7	..	25.7	24.8	24.3	30.4	92	..	6.4	..	6.0	0	0	30	4	6	5	0	0	1	3	11	1	0
	1730	,,	1007.5	1007.1	..	27.4	25.3	24.3	30.4	83	..	6.1	..	14.8	0	4	27	6	0	0	0	0	0	4	21	0	0
Punalur	0830	34	1010.0	1006.2	..	24.7	23.8	23.3	28.6	92	..	6.4	..	0.9	0	0	5	2	0	0	0	0	0	1	2	26	0
	1730	,,	1007.2	1003.4	..	28.2	24.6	22.8	27.7	74	..	6.2	..	6.2	0	0	30	6	1	0	0	0	0	4	19	1	0
Trivandrum	0230	64	1008.8	1001.4	..	24.0	23.4	23.1	28.3	94	..	4.6	..	8.2	0	0	30	3	0	0	0	0	0	2	25	1	0
	0530	,,	1008.8	1001.4	..	23.7	23.1	22.9	27.9	95	..	5.6	..	7.2	0	0	28	7	0	0	0	0	0	0	21	3	0
	0830	,,	1010.4	1003.0	−0.6	25.2	23.8	23.1	28.3	88	+2	5.7	−0.6	10.5	0	2	29	9	0	0	0	0	0	2	20	0	0
	1130	,,	1009.9	1002.6	..	28.1	24.5	22.7	27.6	73	..	6.4	..	17.7	0	10	21	6	0	0	0	0	0	2	23	0	0
	1730	,,	1007.7	1000.4	..	27.1	24.2	22.9	27.9	78	..	5.9	..	14.9	0	7	24	1	0	0	0	0	0	4	26	0	0
	2330	,,	1010.5	1003.2	..	24.5	23.7	23.3	28.6	93	..	4.3	..	10.4	0	2	27	4	0	0	0	0	0	0	25	2	0
Trivandrum (Aerodrome)	0830	8	1010.3	1009.4	..	26.1	24.2	23.5	28.6	85	..	6.1	..	10.4	0	1	30	12	0	0	0	0	0	1	18	0	0
Arabian Sea Islands																											
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Amini Divi*	0830	4																									
Hill Stations excluding Kashmir																											
Walong (R)	0830																										
(R)	1730																										
Kohima	0830	1406	1494.5	858.6	..	21.8	20.8	20.5	23.9	92	..	6.6	..	..	0	0	31	4	5	1	2	1	1	1	16	0	0
	1730	,,	1442.3	853.6	..	22.3	21.5	21.1	25.1	93	..	7.5	..	..	0	0	31	0	8	0	3	0	0	0	20	0	0
Aizal	0830	..	..	883.7	..	22.7	21.6	21.1	24.9	91	..	7.1	..	2.9	0	0	29	3	0	11	3	7	1	4	0	2	0
	1730	..	..	881.3	..	23.2	22.2	21.7	26.1	91	..	7.4	..	2.8	0	0	27	0	1	4	0	3	3	16	0	4	0
Shillong	0830	1500	1456.0	845.9	+0.1	22.0	19.7	18.8	21.0	82	+1	7.5	+0.9	0.4	0	0	4	0	0	0	2	1	1	0	0	27	0
	1730	,,	1427.8	843.2	..	22.0	20.0	18.8	20.7	81	..	7.8	..	0.1	0	0	1	0	0	0	0	1	0	0	0	30	0
Cherrapunji	0830	1313	1475.0*	866.2*	+1.2	20.5*	20.2	20.1	23.5	97	+8	(0) 7.7	..	(0) 4.6	0	0	16	0	7	3	5	0	0	1	0	0	0
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	0	0	13	0	7	3	1	0	1	1	0	0	0
Darjiling (Raj Bhawan)	0830	2128	1472.0	788.3	+2.2	18.3	17.3	16.7	19.1	91	+7	4.6	+2.4	0.8	0	0	6	1	4	0	1	0	0	0	0	25	0
	1730	,,	1452.2	786.5	..	18.2	17.5	17.0	19.6	93	..	3.5	..	0.7	0	0	4	0	1	1	0	0	1	0	0	27	1
Kalimpong	0830	1209	1442.9	873.3	+1.1	22.2	21.2	20.9	24.3	91	0	2.4	−4.1	3.4	0	0	28	0	0	0	2	0	0	0	26	3	0
	1730	,,	1444.8	873.5	..	22.2	20.9	20.6	23.7	88	..	2.8	..	2.9	0	0	30	0	0	0	28	0	0	0	2	1	0

*Data given as addenda in December, 1960 issue.

(0) Mean of 16 days.

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—*Contd.*																											
Mukteswar (Kumaon)	0830	2311	3103·6	769·2	−0·2	16·9	16·4	16·0	18·0	95	+4	6·6	0	9·3	0	4	24	0	8	10	2	2	2	3	1	3	0
	1730	,,	3088·5	767·6	..	17·6	17·1	16·9	19·1	95	..	7·1	..	10·7	0	2	27	0	3	2	3	2	6	10	3	2	0
Nainital	0830	1953	1431·3	800·4	..	18·7	17·3	16·5	19·1	88	..	6·6	..	7·3	0	1	24	0	0	13	11	0	0	0	1	6	0
	1730	,,	1408·5	798·4	..	19·2	18·2	17·7	19·6	91	..	7·1	..	6·7	0	0	25	1	0	9	7	3	2	3	0	6	0
Joshimath	0830	..	..	..	..	19·7	18·5	17·9	20·5	89	..	6·7	..	2·1	0	0	29	5	6	6	1	0	1	7	3	2	0
	1730	..		..	..	21·7	19·1	17·9	20·5	79	..	7·5	..	2·0	0	0	25	2	0	2	0	3	8	8	2	6	0
Badrinath	0830	..	..	..	..	11·9	8·9	6·3	9·5	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpal	0830	..	..	..	..	7·1	6·6	6·2	9·5	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussoore	0830	2042	1429·0	791·0	−2·9	17·9	17·4	17·1	19·3	94	−1	7·7	+0·7	1·8	0	0	19	2	0	0	5	8	3	0	1	12	0
	1730	,,	1406·7	790·2	..	18·5	17·9	17·9	20·0	97	..	7·9	..	1·9	0	0	20	2	0	0	6	8	2	0	2	11	0
Simla	0830	2202	1435·7	778·0	−0·3	17·6	16·6	16·1	18·3	91	+5	6·7	+0·1	2·7	0	0	28	2	3	1	7	5	6	0	4	3	0
	1730	,,	1417·3	776·5	..	18·4	17·6	17·2	19·5	93	..	7·1	..	2·9	0	0	30	7	3	1	7	5	1	1	5	1	0
Dalhousie	0830	1959	1380·0	795·0	..	18·7	18·3	18·0	21·3	96	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1366·2	794·2	..	20·4	19·8	19·1	23·0	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharamshala	0830	1211	..	..	..	23·3	21·4	20·5	24·1	84	..	5·3	..	2·0	0	0	20	3	2	6	1	3	4	0	1	11	0
	1730	,,	..	..	..	24·6	22·5	21·7	25·4	84	..	5·5	..	3·0	0	0	26	0	2	3	0	2	11	7	1	5	0
Abu	0830	1195	1436·5	874·5	−0·4	19·2	19·0	19·0	21·1	99	+6	8·0	+0·7	5·5	0	1	19	0	0	0	0	1	17	1	0	11	1
	1730	,,	1424·6	873·0	..	20·9	20·3	20·0	23·4	94	..	7·5	..	3·2	0	1	18	0	0	0	0	1	16	2	0	12	0
Pachmarhi	0830	1075	1434·9	887·1	−0·4	20·3	20·0	19·9	23·3	97	+7	7·9	+0·6	6·0	0	0	31	0	0	0	0	0	1	18	12	0	0
	1730	,,	1424·6	884·9	..	21·5	20·7	20·3	24·4	93	..	7·7	..	6·6	0	0	31	0	0	0	0	0	0	20	11	0	0
Mahabaleswar	0830	1382	1462·9	858·3	−1·1	17·2	17·2	17·1	19·5	100	+3	8·0	+0·2	11·9	0	0	31	0	0	0	0	0	17	14	0	0	0
	1730	,,	1456·3	857·6	..	17·3	17·3	17·3	19·7	100	..	8·0	..	11·6	0	0	31	0	0	0	0	0	17	12	2	0	0
Mercara	0830	1152	1490·1	884·4	+0·2	18·2	17·8	17·6	20·1	97	+2	6·9	−0·5	9·7	0	1	30	0	0	0	0	0	0	16	15	0	0
	1730	,,	1475·7	882·9	..	18·9	18·4	18·1	20·8	95	..	7·5	..	8·0	0	0	31	0	0	0	0	0	0	19	12	0	0
Kodaikanal	0830	2343	3137·8	770·0	+0·4	14·0	11·8	10·0	12·3	78	+1	5·0	−0·1	14·2	0	10	13	1	0	0	0	1	0	6	15	8	0
	1130	,,	3147·8	770·3	..	16·8	13·8	11·8	13·8	74	..	6·2	..	11·3	0	4	22	5	0	0	1	1	1	2	16	5	0
	1730	,,	3121·5	768·5	..	14·4	13·3	12·4	14·4	87	..	6·7	..	12·8	0	7	18	4	1	0	1	2	0	4	13	6	0
Ootacamund	0830	2249	1494·7	778·3	+0·3	13·4	12·1	11·4	13·5	87	0	5·1	−1·5	7·0	0	1	18	0	0	0	0	0	7	12	0	12	0
	1730	,,	1472·8	776·7	..	14·8	13·3	12·4	14·4	86	..	7·0	..	5·0	0	0	13	0	0	0	0	0	3	10	0	18	0
Coonoor	0830	1747	1492·7	825·7	..	19·4	15·1	12·2	14·2	64	−5	4·3	−1·2	7·9	0	3	27	0	0	0	7	4	11	6	2	1	0
Nepal																											
Katmandu	0830	1324	1440·7	861·6	..	23·3	21·2	20·1	23·5	82	..	6·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1436·2	861·0	..	26·7	22·4	20·4	24·0	68	..	6·5	..	0·2	0	0	2	1	0	1	0	0	0	0	0	29	0
	1730	,,	1414·9	859·1	..	24·3	21·9	20·7	24·4	80	..	7·1	..	0·3	0	0	3	0	0	0	1	0	1	1	0	28	0
Sikkim																											
Lachen	0830	..	..	..	..	18·0	15·3	13·3	15·6	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet																											
Yatung (Chumbi) (R)	0830																										
Ceylon																											
Colombo	0830	7	1010·6	1009·8	0	26·7	24·0	22·6	27·4	78	−6	6·7	+0·8	11·2	0	0	31	0	0	0	1	2	19	8	1	0	0
	1730	,,	1008·1	1007·3	..	27·0	23·8	22·3	26·9	75	..	6·7	..	12·8	0	0	30	0	0	0	0	2	19	9	0	1	0
Trincomalee	0830	3	1008·3	1008·0	+0·5	27·7	23·5	21·5	25·6	69	−8	5·9	+1·9	20·0	0	19	12	0	0	0	0	4	26	1	0	0	0
	1730	,,	1005·0	1004·7	..	30·1	23·8	20·2	23·7	59	..	6·3	..	16·2	0	12	19	1	1	2	5	3	17	2	0	0	0
Batticoloa	0830	3	1008·4	1008·1	..	28·2	24·0	22·2	26·7	70	..	4·5	..	8·4	0	1	23	0	0	0	3	3	5	11	2	7	0
	1730	,,	1005·6	1005·3	..	30·0	25·8	24·1	30·0	72	..	5·5	..	17·1	0	12	19	0	3	10	10	2	1	4	1	0	0
Hambantota	0830	15	1009·7	1008·0	+0·5	27·3	24·3	22·9	27·9	81	−4	5·2	+1·4	23·8	0	24	7	0	0	0	0	0	18	13	0	0	0
	1730	,,	1007·0	1005·3	..	28·9	24·5	22·4	27·1	75	..	5·7	..	32·2	0	30	1	0	0	0	0	0	21	10	0	0	0
Mannar	0830	4	1008·8	1008·4	..	27·2	25·2	24·3	30·4	84	..	5·9	..	12·6	0	1	30	0	0	0	0	12	19	0	0	0	0
	1730	,,	1005·8	1005·4	..	28·0	25·4	24·3	30·4	81	..	5·6	..	12·1	0	8	23	0	0	0	0	10	21	0	0	0	0
Hydrometeorological Observatories Damodar Catchment																											
Bokaro	0830	242	999·5	972·8	..	28·0	25·9	25·1	32·2	84	..	7·0	..	(b) 4·3	0	0	24	0	3	7	2	1	2	3	6	7	0
	1730	,,	995·5	968·9	..	28·8	26·6	25·7	33·2	83	..	6·7	..	(c) 2·8	0	0	16	0	1	6	3	0	1	1	4	15	0
Hazaribagh	0830	615	999·3	932·2		25·5	24·1	23·6	29·1	89	..	7·0	..	6·9	0	0	25	1	0	9	4	2	0	5	4	6	0
	1730	,,	996·0	929·5	..	26·7	24·8	24·0	29·7	86	..	6·4	..	6·0	0	0	21	3	0	6	3	1	1	1	6	10	0
Tilaiya	0830	..	..	..	..	26·9	25·2	24·4	30·1	86	..	7·2	..	10·2	0	3	25	0	1	11	4	0	0	8	4	3	0
	1730	..	..	..	..	28·3	25·8	24·6	31·3	80	..	7·4	..	8·2	0	0	29	3	2	10	4	2	0	4	4	2	0
Ramgarh	0830	..	..	..	..	27·5	25·5	24·7	30·9	85	..	5·4	..	1·6	0	0	14	0	3	4	0	3	2	0	2	17	0
	1730	..	..	..	..	28·5	26·1	25·1	31·8	82	..	7·2	..	1·5	0	0	18	0	7	5	0	0	2	2	2	13	0

(b) Mean of 29 days.

(c) Mean of 28 days.

(R) Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 21 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories–(*contd.*) **Damodar Catchment**–(*contd.*)–Panchet Hills	0830	..	..	..	..	28·7	26·7	26·0	33·4	5	..	7·6	..	7·6	0	1	27	5	2	12	1	3	5	0	0	3	0
	1730	..	..	..	..	29·3	26·9	26·0	32·9	83	..	7·8	..	5·9	0	0	28	5	4	10	3	0	4	1	1	3	0
Durgapur . .	0830	..	..		..	28·6	26·9	26·1	34·2	86	..	(h) 6·7	..	10·7	0	2	29	2	3	7	4	12	2	0	1	0	0
	1730	..	..	..	..	29·5	27·3	26·4	34·3	84	..	(h) 6·6	..	11·2	0	4	26	3	1	3	11	7	3	2	0	1	0
Maithon* . .	0830	..	..	..	..	..	..	..	..	..	..	..	..	5·9	0	0	17	4	1	0	9	1	0	0	2	2	0
	1730	..	..	..	..	..	..	..	..	..	..	..	..	6·0	0	1	16	4	1	3	5	1	0	1	2	2	0
Konar . . .	0830	..	..	..	..	..	..	..	..	..	.	..	..	10·5	0	6	25	2	1	11	5	0	0	12	0	0	0
	1730	..	..	..	..	..	..	..	..	..	..	..	..	8·1	0	3	28	6	3	12	1	1	0	7	1	0	0
Mahanadi Catchment Hirakud . .	0830	159	1000·7	983·0	..	27·1	25·5	24·7	31·4	87	..	7·6	..	8·8	0	1	30	0	0	0	0	2	17	12	0	0	0
	1730	,,	999·8	980·2	..	28·4	26·1	25·1	32·0	82	..	7·4	..	7·4	0	0	31	0	0	0	0	4	9	13	5	0	0
Khijrawan . .	0830	..	..	..	..	25·1	23·4	22·5	27·5	86	..	(j) 5·1	..	13·3	0	5	25	0	0	0	0	0	19	9	2	1	0
	1730	..	..	..	..	26·2	24·0	23·1	28·0	83	..	(i) 5·5	..	(g) 9·8	0	1	23	0	0	0	1	0	13	8	2	0	0
Sonepur . . .	0830	..	..	..	..	27·0	25·4	24·5	31·2	82	..	..	..	11·2	0	0	31	0	0	0	0	0	18	13	0	0	0
Ginabahar . .	0830	..	..	..	..	26·5	24·7	24·6	29·6	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhimkund . .	0830	..	..	..	..	26·7	24·8	24·1	29·7	85	..	7·4	..	2·7	0	0	14	2	2	0	1	0	3	0	6	17	0
	1730	..	..	..	..	26·9	25·3	24·3	31·0	86	..	7·2	..	1·0	0	0	8	0	0	0	0	0	8	0	0	23	0
Narbada Catchment Punasa . . .	0830	..	..	..	..	24·5	23·5	23·0	28·3	91	..	..	..	9·5	0	0	31	0	0	0	0	1	19	11	0	0	0
	1730	..	..	..	..	27·2	24·5	23·3	28·1	80	..	..	..	9·8	0	1	29	0	0	0	0	1	18	9	2	1	0
Bagra Tawa . .	0830	..	..	..	..	24·5	23·3	22·7	27·8	90	..	7·2	..	12·4	0	0	31	0	0	0	0	2	23	5	1	0	0
	1730	..	..	..	..	25·9	24·0	23·3	28·3	86	..	7·0	..	10·2	0	0	31	0	0	0	0	0	25	5	1	0	0
Thikri . . .	0830	..	..	..	..	25·5	24·4	24·0	29·6	92	..	5·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment Jhadol . . (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharoi . . .	0830	..	..	..	..	26·2	25·1	24·6	30·9	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	28·6	26·3	24·5	32·6	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment Mukhim . . .	0830	..	..	..	..	19·6	18·7	18·3	21·0	92	..	(d) 6·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·2	19·1	18·5	21·3	90	..	(d) 6·1	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
Tehri . . .	0830	..	..	..	..	26·2	23·9	23·0	28·1	83	..	6·5	..	0·7	0	0	6	3	0	0	0	1	0	1	1	25	0
	1130	..	..	..	..	30·3	24·7	22·4	27·1	63	..	6·6	..	2·5	0	0	21	2	1	2	8	4	1	2	1	10	0
	1730	..	..	..	..	30·0	24·4	22·0	26·6	63	..	6·5	..	3·7	0	0	23	0	1	3	10	1	6	1	1	8	0
Gandak Catchment Gorkha . . (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara . .	0830	..	..	..	..	25·2	23·2	22·4	27·1	85	..	6·4	..	2·8	0	0	22	3	0	2	9	3	2	0	3	9	0
	1130	..	..	..	..	28·2	24·2	22·4	27·1	71	..	6·1	..	4·5	0	0	27	0	1	3	15	6	0	2	0	4	0
	1730	..	..	..	..	27·0	24·0	22.7	27·6	78	..	6·6	..	4·3	0	0	26	2	0	7	11	2	2	1	1	5	0
Nawakot . .	0830	..	..	..	..	25·3	23·7	23·1	28·0	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·1	23·5	22·6	27·0	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom . .	0830	..	..	..	..	18·5	15·2	13·5	15·4	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·1	15·1	12·8	14·9	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar .	0830	..	..	..	..	25·3	23·3	22·6	27·3	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·7	24.1	23·2	28.1	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure . . .	0830	..	..	..	..	20·7	19·1	18·3	21·0	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·3	20·2	19·2	22·3	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans-Himalayan Region) Dailekh . (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment Dandeldhura . .	0830	..	..	..	..	19·3	18·6	18·3	21·0	94	..	7·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·7	19·5	18·9	21·5	90	..	6·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Munsiyari . .	0830	..	..	..	..	17·6	16·7	16·4	18·5	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·4	17·4	17·0	19·3	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal . . .	0830	..	..	..	..	29·4	26·5	25·2	32·5	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	29·4	27·3	26·4	34·9	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment Katmandu† . .	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment Chautara . .	0830	..	..	..	..	21·4	20·8	20·8	24·3	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·5	21·1	20·3	24·1	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(d) Mean of 27 days. (i) Mean of 22 days. (c) Mean of 28 days. †Data included under Nepal.

*Observations for 19 days. (R) Register not received. (h) Mean of 23 days. (g) Mean of 24 days. (j) Mean of 21 days.

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—Contd.																											
Kosi Catchment—*Contd.*																											
Chipua	0830	...	..	..	..	20·8	19·0	18.2	20·6	87	..	..	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	...	..	..	..	20·4	18·8	17·8	20·5	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga	0830	...	..	..	..	20·7	19·7	19·3	22·4	92	..	7·0	..	0·6	0	0	5	0	0	0	3	2	0	0	0	26	0
	1130	..	..	..	..	23·5	21·3	20·2	23·7	82	..	6·5	..	3·3	0	0	28	8	4	4	6	3	0	0	3	3	0
	1730	...	...	...	..	20·6	19·7	19·0	22·0	92	..	7·6	..	1·2	0	0	8	0	1	0	2	0	0	2	3	23	0
Barakshetra	0830	146	1001·0	984·7	..	27·9	26·1	25·4	32·3	87	..	5 5	..	5·0	0	0	28	0	5	0	0	0	11	5	7	3	0
	1130	,,	1000·7	984·6	..	29·7	26·9	25·9	33·3	80	..	6·5	..	7·3	0	0	28	0	2	0	1	0	14	8	3	3	0
	1730	,,	998·0	981·8	..	28.9	27·0	26·3	34·1	85	..	6 6	..	3·5	0	0	18	0	3	3	1	0	6	2	3	13	0
Angbung	0830	..	..	..	..	23·7	22·4	21·9	26·3	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·4	22·2	20·7	24·4	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	21.2	19.7	19.0	22.0	87	..	6·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	23.7	21.0	19.7	22.9	79	..	5·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21.7	19.8	18.9	21.8	84	..	6·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jaglethok	0830	..	..	..	..	22·8	20·8	19·8	23·1	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·6	20 9	20·1	23·5	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	15·6	(a) 13·4	(a) 12·3	(a) 14·2	(a) 79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·2	12·4	12·1	13·9	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	22·0	20·4	19·8	23·0	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·0	20·2	19·9	23·1	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	23·5	22·1	21.3	25.6	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·4	22·6	21·9	26·1	85	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment																											
Gangtok	0830	1812	1448.0	815·2	..	19·3	18·7	18·4	21·3	94	..	6 6	..	0·1	0	0	1	1	0	0	0	0	0	0	0	30	0
	1130	,,	1442.5	814 9	..	21·1	19·8	19·0	22·3	89	..	7·2	..	1·0	0	0	10	0	0	0	1	3	5	1	0	21	0
	1730	,,	1425.3	813.1	..	19·7	19·0	18·6	21·5	94	..	7 6	..	0·6	0	0	5	1	0	0	0	4	0	0	0	26	0
Geyzing	0830	..	..	..	..	21·9	20·7	20.1	23·7	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·1	20·4	19·9	22·9	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(a) Mean of 30 days.

MONTHLY MEANS OF UPPER WINDS

August 1960 (Sravana 10—Bhadra 9, 1882 Saka)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 13 stations some observations were made by means of pilot balloons and the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a. m. s. l. are given under Table IV and data above 9.0 km. a. m. s. l. under Table V.

In Tables IV and V :

n—represents the number of observations,

V—represents the mean wind speed in metres per second* irrespective of direction,

v—represents the resultant mean velocity in metres per second*,

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights:

Surface, 0·15 km. a. g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a. m. s. l. Of these, the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1 and 16·2 km. a. m. s. l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

*Values obtained by converting the original data in knots.

Particulars of Pilot Balloon and Rawin Stations in India

Station	Lat. N	Long. E	Height of Anemometer head a. m. s. l. in metres	Date of opening	Approximate times of flights (I.S.T.)			
Agartala	23°53′	91°15′	17	28th November 1951	0530	1730	2330	
Ahmedabad	23°04′	72°38′	61	19th May 1928	0530	1730	2330	
Amausi	26°45′	80°53′	133	20th November 1950	0530	1730	2330	
Ambala	30°23′	76°46′	279	1st April 1941	0530	1730	2330	
Anantapur	14°41′	77°37′	365	12th February 1946	0530	1730	2330	
Asansol	23°41′	86°59′	135	29th May 1942	0530	1130	2330	
Baghdogra	26°38′	88°19′	140	7th June 1953	0530	1130	2330	
Bairagarh	23°17′	77°21′	532	26th February 1943	0530	1730	2330	
Bajpe	12°55′	74°53′	104	25th May 1959	0530	1730	2330	
Bamrauli	25°27′	81°44′	103	28th February 1930	0530*	1130	1730*	2330
Bangalore	12°58′	77°35′	936	19th May 1915	0530	1730	2330	
Bareilly	28°22′	79°24′	181	12th January 1943	0530	1730		
Begumpet	17°27′	78°28′	543	1st September 1929	0530	1730	2330	
Bhagalpur	25°14′	86°57′	61	19th May 1950	0530	1730		
Bhubaneshwar	20°15′	85°50′	54	5th December 1942	0530	1730	2330	
Bhuj	23°15′	69°48′	90	14th September 1937	0530	1730	2330	
Bikaner	28°00′	73°18′	229	18th October 1946	0530	1730	2330	
Chikalthana	19°51′	75°24′	583	7th October 1951	0530	1730	2330	
Cochin†	09°56′	76°14′	13	16th March 1942	0530	1730	2330	
Darjeeling	27°03′	88°16′	2115	21st May 1956	0530	1730		
Dehra Dun	30°19′	78°03′	692	1st October 1958	0530	1730		
Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
Gadag	15°25′	75°38′	650	3rd May 1943	0530	1730	2330	
Gannavaram	16°32′	80°48′	32	8th April 1942	0530	1730	2330	
Gauhati	26°05′	91°43′	55	12th March 1955	0530*	1130	1730*	2330
Gaya	24°45′	84°57′	119	19th March 1937	0530	1730	2330	
Gopalpur	19°16′	84°53′	24	15th February 1946	0530	1730	2330	
Gorakhpur	26°45′	83°22′	83	5th January 1943	0530	1730		
Gwalior	26°14′	78°15′	208	7th May 1938	0530	1730	2330	
Imphal	24°51′	93°58′	805	8th March 1952	0530	1730	2330	
Jabalpur	23°10′	79°57′	402	30th July 1928	0530	1730	2330	
Jagdalpur	19°05′	82°02′	562	25th March 1948	0530	1730	2330	
Jaipur	26°49′	75°48′	403	6th June 1953	0530	1730	2330	
Jamshedpur	22°49′	86°11′	144	23rd July 1942	0530	1730		
Jharsuguda	21°55′	84°05′	240	1st May 1944	0530	1730	2330	
Jodhpur	26°18′	73°01′	229	15th October 1934	0530*	1130	1730*	2330
Madras	13°00′	80°11′	29	8th April 1926	0530*	1130	1730*	2330
Minicoy	08°18′	73°00′	15	14th April 1941	0530	1730	2330	
Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1730	2330	
Nagpur	21°06′	79°03′	316	23rd April 1943	0530*	1130	1730*	2330
Nanpara	27°50′	81°30′	142	23rd April 1957	0530	1730		
New Delhi	28°35′	77°12′	227	20th October 1936	0530*	1130	1730*	2330
Poona	18°32′	73°51′	593	5th January 1925	0530	1730	2330	
Port Blair	11°40′	92°43′	93	29th October 1945	0530*	1130	1730*	2330
Raipur	21°14′	81°39′	308	15th July 1944	0530	1730	2330	
Raxaul	26°59′	84°51′	83	28th October 1957	0530	1730		
Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
Tezpur	26°37′	92°47′	79	12th August 1932	0530		1730	
Tiruchirapalli	10°46′	78°43′	96	22nd June 1936	0530	1730	2330	
Trivandrum	08°29′	76°57′	73	8th December 1928	0530*	1130	1730*	2330
Udaipur	24°35′	73°42′	587	24th June 1947	0530	1730	2330	
Vengurla	15°52′	73°38′	8	22nd November 1941	0530	1730	2330	
Veraval	20°54′	70°22′	17	13th October 1941	0530*	1130	1730*	2330
Visakhapatnam	17°43′	83°14′	10	24th September 1928	0530*	1130	1730	2330

*Radiowind ascents.
†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1960 (SRAWANA 10—BHADRA 9, 1882 SAKA)

Station	AGARTALA												AHMEDABAD											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·8	2·4	121	31	3·0	2·3	169	31	2·7	2·6	140	31	2·8	2·7	229	31	3·2	2·7	236	31	2·8	2·7	228
0·15 a. g. .	28	6·1	5·6	130	30	5·6	4·6	169	26	6·3	6·1	160	27	5·8	5·6	235	29	4·6	4·3	234	31	6·4	6·0	236
0·3 a. m. s. l. .	28	7·5	6·7	153	30	6·4	5.5	174	26	7·7	7·4	170	27	7·4	7·2	244	29	5·5	5·0	238	31	7·6	7·2	240
0·6 „ .	28	7·7	7·0	159	30	7·7	7·0	174	26	9·1	8·7	173	25	9·3	9·0	261	29	6·6	6·4	249	31	8·3	8·1	252
0·9 „ .	28	7·3	6·4	162	29	8·5	8·0	169	23	8·5	8·1	177	21	8·7	8·5	262	24	7·5	6·9	254	27	8·2	8·0	258
1·5 „ .	26	6·6	4·9	150	27	7·9	7·3	163	20	6·5	6·2	172	14	7·2	7·0	237	20	7·9	7·3	256	17	5·9	5·5	262
2·1 „ .	22	6·6	5·2	134	22	8·4	7·6	154	16	5·9	5·2	168	5	6·4	6·2	220	11	5·5	5·3	273	2	3·1	2 9	265
3·0 „ .	17	6·3	5·3	134	16	7·5	6·8	145	6	4·6	3·3	151	1	4·6	4·6	245	2	5·7	2·2	065				
3·6 „ .	13	5·4	4·3	136	13	6·8	6·0	134	3	4·6	2·9	139					1	8·7	8·7	080				
4·5 „ .	10	5·5	4·9	135	10	6·1	5·1	122	2	5·9	4·5	142					1	10·3	10·3	075				
5·4 „ .	6	4·6	4·1	142	9	6·4	5·9	124																
6·0 „ .	5	4·1	3·9	134	2	5·7	5·7	090																
7·2 „ .	2	6·9	6·9	102																				
9·0 „ .	1	13·4	13·4	085																				

Station	AMAUSI												AMBALA											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·4	1·5	078	31	3·8	1·5	110	31	2·6	1·5	108	31	1·1	0·8	123	31	1·4	0·4	140	31	1·2	1·0	127
0·15 a. g. .	26	5·4	2·4	098	26	5·0	2·5	105	30	5·8	3·9	123	29	4·4	0.6	122	30	3·5	0·7	117	30	4·9	2·9	136
0·3 a. m. s. l. .	26	5·8	1·7	101	26	5·0	2·4	107	30	5·8	3·9	125	29	1·9	1·3	123	30	2·4	0·5	136	30	2·3	1·4	128
0·6 „ .	23	7·0	3·1	100	26	5·5	2·4	112	30	6·4	3.4	120	29	5·0	3.0	146	30	4·0	0·7	103	30	5·0	2·7	147
0·9 „ .	20	7·6	4·1	100	26	5·9	2·5	117	29	6·4	3·8	122	28	5·3	2·4	156	30	4·4	0·6	118	30	4·9	2·1	148
1·5 „ .	16	7·8	3·9	101	23	6·2	2·3	126	24	5·0	3·3	118	23	3·9	0·7	144	28	5·0	1·4	323	29	4·6	0·3	057
2·1 „ .	13	6·6	4·8	112	19	5·8	3·1	128	20	4·4	3·0	120	21	4·3	1·3	007	27	5·3	2·7	332	29	5·1	1·2	339
3·0 „ .	8	5·8	4·0	102	14	5·6	5·3	113	9	3·1	2·5	143	18	4·6	1·6	008	24	4·8	2·0	332	27	4·4	0·9	048
3·6 „ .	4	5·0	3·9	082	12	5·6	5·2	114	2	2·8	2·8	158	13	4·3	2·3	036	22	4·1	1·4	001	17	4·0	1·6	012
4·5 „ .	2	6·7	6·4	092	7	5·8	4·9	096					11	3·4	2·5	045	10	3·9	0·1	057	4	4·3	1·8	052
5·4 „ .					5	5·6	4·1	093					5	2·3	1·1	336	8	4·9	3·3	350	1	4·6	4·6	125
6·0 „ .					3	7·4	5·4	113					3	4·1	3·1	279	7	5·3	3·3	004				
7·2 „ .													3	4·0	3·0	269	1	12·9	12·9	340				
9·0 „ .																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1960 (SRAWANA 10—BHADRA 9, 1882 SAKA)

Station	ANANTAPUR												ASANSOL											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·3	5·3	270	31	8·3	8·0	268	31	7·6	7·3	270	31	1·3	0·7	110	30	1·8	1·2	093	31	1·9	1·1	111
0·15 a. g.	30	8·3	8·3	261	31	11·4	11·1	266	31	9·9	9·3	261	26	4·7	1·6	065	30	4·6	2·9	115	29	5·4	2·3	114
0·3 a. m. s. l.													26	4·8	1·5	089	30	4·8	2·9	118	29	5·5	2·3	124
0·6 ,,	30	9·2	9·2	262	31	11·6	11·3	265	31	10·2	9·7	261	25	5·9	1·3	064	30	6·0	3·5	120	29	6·4	3·0	135
0·9 ,,	30	11·9	11·8	273	31	11·0	10·9	270	31	11·8	11·5	268	24	6·3	2·1	057	29	6·3	3·7	128	24	5·2	2·4	141
1·5 ,,	30	13·7	13·6	279	31	11·2	11·1	275	31	12·0	11·8	278	22	6·2	2·1	062	26	5·1	2·7	125	24	5·0	2·4	133
2·1 ,,	30	11·8	11·7	281	30	12·1	11·9	279	31	9·2	9·1	285	15	6·0	2·8	075	23	5·0	2·5	129	19	4·7	2·3	114
3·0 ,,	28	9·3	8·7	286	25	11·6	11·6	282	29	8·3	7·6	287	11	6·4	5·0	080	15	6·7	3·0	125	15	5·3	2·9	111
3·6 ,,	22	6·8	6·3	285	15	10·5	10·1	289	22	6·8	6·2	282	10	6·2	4·1	090	11	6·0	2·7	103	11	4·5	3·3	113
4·5 ,,	18	4·8	4·2	285	6	7·5	6·8	289	10	4·9	4·3	285	8	6·4	4·7	102	9	4·8	2·2	098	7	5·4	3·8	094
5·4 ,,	14	4·3	2·9	275	1	2·1	2·1	295	4	4·4	2·1	325	5	3·8	3·5	096	6	5·1	0·3	068	2	3·1	2·1	079
6·0 ,,	12	4·0	1·9	296	1	5·7	5·7	050	1	2·1	2·1	300	3	5·5	4·5	085	6	4·6	2·6	062	2	3·1	2·4	114
7·2 ,,	8	3·9	2·0	067													3	5·3	3·7	071				
9·0 ,,	3	11·0	11·0	082													2	8·2	7·0	080				

Station	BAGHDOGRA												BAIRAGARH											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	1·7	060	31	2·4	1·7	086	31	2·1	1·5	058	31	4·6	4·2	273	31	5·5	5·4	274	31	4·1	3·5	264
0·15 a. g.	24	4·8	4·4	068	31	4·1	3·1	088	24	4·2	4·1	068	19	9·4	9·1	265	28	8·6	8·3	274	25	8·6	8·2	265
0·3 a. m. s. l.	24	4·8	4·5	078	31	4·0	3·1	086	24	4·5	4·2	077												
0·6 ,,	22	5·0	4·8	084	31	4·4	3·7	092	24	4·6	4·4	094	19	7·7	7·5	262	28	7·9	7·7	271	25	7·5	7·0	259
0·9 ,,	19	5·8	5·6	085	27	4·7	4·5	089	21	4·6	4·2	094	10	12·6	12·3	275	28	9·6	9·4	279	23	10·0	9·6	277
1·5 ,,	15	5·3	5·3	088	21	6·2	5·7	098	16	5·2	4·9	095	6	9·1	8·9	291	18	9·5	8·9	283	17	9·3	8·9	279
2·1 ,,	11	6·9	6·8	093	17	5·4	4·9	103	13	6·0	5·8	102	6	4·8	4·7	265	11	7·7	6·4	295	14	6·7	5·8	279
3·0 ,,	7	8·7	1·6	097	13	5·5	4·6	108	9	6·1	5·8	113	2	4·6	4·3	297	5	8·3	6·2	316	8	5·5	4·5	291
3·6 ,,	6	4·8	4·7	104	11	4·6	3·7	122	3	3·6	2·6	129	1	5·1	5·1	310	3	8·4	7·2	295	1	1·5	1·5	345
4·5 ,,	6	4·0	3·7	112	9	3·9	1·4	127													1	1·5	1·5	360
5·4 ,,	5	3·6	2·5	115	5	2·5	1·4	036																
6·0 ,,	4	2·9	2·5	090	4	2·4	0·3	349																
7·2 ,,	3	5·3	3·8	083	3	4·3	1·5	340																
9·0 ,,	3	8·6	8·2	086																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Station	BAJPE												BAMRAULI											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·3	1·5	272	31	3·9	3·4	295	31	2·4	2·1	272	31	1·5	0·4	196	31	2·4	0·1	017	31	2·3	0·6	204
0·15 a. g. .	31	6·1	5·3	284	31	6·3	6·0	285	29	6·3	5·8	287	29	5·5	1·4	240	29	3·5	0·2	132	29	5·1	0·9	261
0·3 a. m. s. l. .	31	6·6	6·2	283	31	7·3	6·9	286	29	7·0	6·4	286	29	5·5	1·3	241	29	3·8	0·4	120	29	5·1	0·9	261
0·6 ,, .	31	9·3	8·9	284	31	8·7	8·2	290	29	8·9	8·2	290	29	6·2	1·1	273	28	4·6	0·7	111	29	5·3	0·6	170
0·9 ,, .	26	10·4	10·0	289	21	9·4	9·2	297	29	10·1	9·7	291	29	5·9	0·1	023	22	5·9	1·6	124	29	5·6	0·7	164
1·5 ,, .	21	10·8	10·6	289	10	8·0	7·8	305	24	11·5	11·2	294	28	5·6	1·5	104	10	6·1	3·2	106	28	6·0	0·4	130
2·1 ,, .	12	8·4	8·1	287	7	5·9	5·7	306	19	9·7	9·4	294	28	5·9	2·4	091	5	4·5	3·5	108	28	6·1	1·7	135
3·0 ,, .	6	8·1	6·7	297	4	3·2	2·0	248	7	6·2	6·0	295	28	5·4	2·7	100					28	5·6	2·7	113
3·6 ,, .	3	3·2	2·6	302	2	2·8	2·8	207	5	5·6	5·3	306	27	5·1	3·5	093					28	6·2	3·1	113
4·5 ,, .	2	2·8	2·5	250	2	3·3	2·9	154	3	6·2	4·6	299	27	5·3	3·2	091					28	6·2	4·1	098
5·4 ,, .	1	2·1	2·1	125	1	2·6	2·6	120	3	7·1	4·6	298	27	5·6	3·7	095					28	5·8	4·2	087
6·0 ,, .	1	3·6	3·6	160	1	2·6	2·6	175	1	3·1	3·1	100	27	6·6	4·9	091					27	5·2	3·6	089
7·2 ,, .	1	3·1	3·1	135	1	5·7	5·7	115					25	7·4	6·0	092					27	6·6	6·1	086
9·0 ,, .													18	8·7	6·6	090					20	6·8	5·3	082

Station	BAMRAULI				BANGALORE												BAREILLY							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·6	0·6	154	31	4·4	4·3	267	31	5·4	5·1	268	31	0·5	4·9	271	31	1·6	1·4	080	31	2·1	0·9	079
0·15 a. g. .	26	5·7	1·9	192	13	7·5	7·5	263	29	8·6	8·1	264	19	7·7	7·6	262	30	5·0	3·9	094	29	4·8	1·8	091
0·3 a. m. s. l. .	26	6·2	1·9	200													30	4·6	3·7	091	29	4·5	1·7	093
0·6 ,, .	26	6·4	1·0	181													27	6·5	4·7	113	29	5·3	2·1	101
0·9 ,, .	23	5·9	0·5	187													26	6·8	5·1	112	29	5·8	2·4	112
1·5 ,, .	18	4·8	0·5	123	12	11·1	10·8	279	29	9·7	9·5	271	19	11·4	11·2	278	25	6·8	5·3	107	28	6·0	3·2	125
2·1 ,, .	8	3·8	2·6	129	10	8·7	8·4	289	26	10·0	9·7	279	18	10·7	10·3	272	21	7·0	6·2	105	26	5·8	3·4	117
3·0 ,, .	4	2·7	2·7	157	10	6·8	6·3	288	14	8·8	8·0	278	16	8·7	8·3	286	14	7·0	6·5	109	22	6·3	4·1	117
3·6 ,, .	1	4·1	4·1	110	9	4·8	4·3	284	9	5·8	5·0	267	10	6·9	6·4	286	13	5·8	5·3	109	19	6·3	6·0	116
4·5 ,, .	1	4·6	4·6	115	5	4·3	3·8	288	4	2·4	2·2	277	6	4·6	4·5	281	8	2·9	2·0	112	17	4·9	3·7	104
5·4 ,, .					4	4·6	4·2	309	1	2·6	2·6	270	2	2·3	1·4	276	6	2·4	1·2	115	12	4·5	3·4	086
6·0 ,, .					2	3·3	1·9	318	1	1·0	1·0	280	2	3·6	3·6	280	5	3·3	1·0	143	10	4·3	3·5	088
7·2 ,, .					2	3·9	2·2	079					1	2·6	2·6	295	2	5·9	4·8	093	5	4·3	2·8	118
9·0 ,, .					1	7·2	7·2	100					1	2·1	2·1	315	2	4·9	1·5	115	2	4·6	4·5	139

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Station	BEGUMPET												BHAGALPUR								BHUBANESHWAR			
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·9	4·7	270	31	5·3	4·7	285	31	4·6	4·2	266	31	2·4	2·0	097	31	2·4	1·9	097	31	2·6	2·1	250
0·15 a. g.	31	8·4	8·2	270	31	8·6	7·6	284	31	8·5	7·6	265	30	6·0	4·7	099	31	5·1	4·0	099	26	6·4	5·6	253
0·3 a. m. s. l.													30	6·8	5·5	101	31	5·9	4·8	102	26	7·6	6·5	265
0·6 ,,	31	6·3	6·2	268	31	6·9	6·0	285	31	5·8	5·2	265	30	7·4	5·7	107	31	6·7	5·3	107	25	8·1	7·1	272
0·9 ,,	31	11·5	11·4	281	31	9·1	8·5	283	31	10·8	10·4	273	29	7·1	5·5	105	30	6·8	5·3	111	25	9·1	8·0	286
1·5 ,,	29	12·3	12·1	286	31	10·5	9·9	283	31	12·5	12·4	283	24	7·6	6·8	099	29	7·1	5·3	120	20	6·6	6·3	289
2·1 ,,	28	11·1	10·9	283	31	12·5	12·0	283	26	11·4	11·3	287	21	7·7	6·8	099	26	7·1	5·3	122	17	5·5	4·9	278
3·0 ,,	21	8·2	7·7	278	15	11·6	11·0	282	18	7·5	6·8	290	18	7·1	5·1	103	20	7·6	5·3	107	14	6·4	5·5	273
3·6 ,,	14	6·7	6·4	280	8	9·0	8·4	279	7	6·0	5·3	293	13	5·1	3·9	104	15	6·9	5·9	097	10	4·7	3·3	294
4·5 ,,	10	4·7	4·5	287	5	10·3	10·0	270	2	4·4	4·4	320	8	5·7	5·0	116	13	6·1	5·0	097	7	4·3	0·8	061
5·4 ,,	3	1·9	1·7	306	2	5·4	4·0	324					7	4·2	3·4	125	7	6·0	4·2	104	3	5·5	5·0	094
6·0 ,,	1	2·1	2·1	270	2	3·6	3·5	015					4	3·4	2·2	150	5	3·6	1·5	088	1	9·8	9·8	105
7·2 ,,					1	2·6	2·6	055					2	6·2	3·8	123	2	2·6	0·9	206				
9·0 ,,					1	2·6	2·6	080																

Station	BHUBANESHWAR								BHUJ												BIKANER			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·0	2·5	224	31	3·3	3·0	229	31	3·0	2·9	230	31	5·8	5·6	233	31	4·4	4·3	232	31	2·4	2·2	229
0·15 a. g.	26	5·3	4·5	222	28	8·0	7·1	237	31	6·7	6·6	242	30	9·2	9·1	239	31	8·0	7·8	236	30	7·3	7·3	233
0·3 a. m. s. l.	26	6·1	5·3	238	28	8·6	7·7	245	31	7·8	7·2	246	30	9·1	9·0	239	31	8·4	8·2	239	30	5·5	5·3	232
0·6 ,,	26	6·2	5·3	253	28	8·7	7·8	253	29	9·1	8·9	248	30	9·7	9·5	245	31	9·5	9·3	245	30	9·9	9·5	257
0·9 ,,	26	6·3	5·7	271	27	8·4	7·6	267	22	9·0	8·7	250	28	9·2	9·0	245	30	8·5	8·4	244	30	8·6	7·7	260
1·5 ,,	23	6·7	6·2	286	23	8·2	7·5	281	7	6·6	4·9	243	13	6·8	6·5	247	19	4·5	4·0	220	30	4·8	2·0	290
2·1 ,,	17	6·1	5·0	283	19	6·3	5·4	282	4	3·2	2·7	230	7	8·8	1·3	286	14	3·3	0·8	052	28	4·5	1·7	050
3·0 ,,	14	5·8	3·9	270	10	4·2	3·1	270	2	0·8	0·7	163	3	3·8	3·1	355	13	5·0	4·5	027	26	4·8	1·4	054
3·6 ,,	12	5·7	2·6	260	1	5·1	5·1	010					2	1·8	1·7	020	7	7·9	6·6	023	21	5·9	5·3	022
4·5 ,,	9	5·2	2·7	270	1	6·7	6·6	020					1	3·6	3·6	080	4	7·2	6·6	039	15	7·9	7·7	015
5·4 ,,	3	6·5	2·4	316	1	6·2	6·2	020					1	5·7	5·7	345					5	5·9	4·1	344
6·0 ,,	3	6·2	2·9	330	1	9·8	9·8	005					1	5·1	5·1	295					2	6·4	3·4	343
7·2 ,,	1	11·3	11·3	195																	2	6·9	3·8	026
9·0 ,,	1	7·7	7·7	100																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1960 (SRAVANA 10— BHADRA 9, 1882 SAKA)

Station	BIKANER								CHIKALTHANA												COCHIN			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·3	2·0	223	31	2·6	2·4	202	31	3·9	3·9	271	31	7·2	6·8	275	31	4·9	4·9	271	31	0·8	0·6	348
0·15 a. g. .	31	4·6	3·8	228	31	7·6	7·1	215	30	8·1	8·0	267	27	10·0	9·5	276	31	8·5	8·3	269	29	3·7	3·1	320
0·3 a. m. s. l. .	31	4·4	3·7	230	31	5·7	5·3	211													29	5·4	4·9	314
0·6 ,, .	31	4·9	3·7	232	31	8·4	7·2	223													29	9·3	8·9	307
0·9 ,, .	31	5·2	3·6	235	31	7·2	5·1	235	30	10·1	9·9	274	27	10·5	10·1	275	28	10·9	10·7	273	29	11·6	11·3	307
1·5 ,, .	31	4·9	2·6	248	30	4·5	1·0	282	20	12·5	12·4	278	27	11·5	11·3	274	25	11·7	11·5	272	28	13·7	13·4	306
2·1 ,, .	29	3·9	1·4	311	27	4·7	2·3	015	15	9·5	8·7	268	14	10·2	10·2	271	23	10·1	9·4	267	18	12·1	11·8	304
3·0 ,, .	21	5·7	5·0	355	23	5·8	4·8	025	7	5·9	7·0	272	5	7·3	7·2	278	14	7·0	6·6	271	7	7·9	7·0	302
3·6 ,, .	14	6·7	6·2	355	14	7·0	6·4	008	2	5·7	5·6	308					9	4·2	3·9	300	5	6·0	4·4	280
4·5 ,, .	12	8·4	7·9	352	8	8·0	7·7	011									2	3·3	3·2	302	3	3·1	0·9	322
5.4 ,, .	10	7.6	7·1	337	2	3.3	2·5	351													1	0·5	0·5	315
6·0 ,, .	10	6·2	5·7	343	2	2·8	2·3	054																
7·2 ,, .	3	8·7	8·6	309																				
9·0 ,, .	1	10·3	10·3	235																				

Station	COCHIN								DARJEELING								DEHARA DUN							
Time in I. S. T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·8	3·2	305	31	1·6	1·3	323	31	0·1	0·1	090	31	0·1	0·1	045	31	0·6	0·4	047	31	1·3	0·6	235
0·15 a. g. .	29	5·5	5·3	307	27	3·9	3·5	308	8	2·3	1·6	072	2	1·3	0·9	028	21	2·0	1·1	111	23	2·7	1·5	244
0·3 a. m. s. l. .	29	6·6	6·5	306	27	5·3	4·9	306																
0·6 ,, .	29	10·0	9·8	305	27	9·1	8·9	309																
0·9 ,, .	29	11·8	11·4	307	27	11·3	11·0	310									21	1·9	1·0	145	23	2·7	1·6	249
1·5 ,, .	26	11·6	11·4	305	25	12·4	12·1	307									21	2·7	1·3	156	21	2·7	0·8	199
2·1 ,, .	20	10·1	9·7	304	24	13·2	12·9	303									16	3·3	2·0	132	15	3·0	0·8	210
3·0 ,, .	11	5·3	4·7	291	13	9·7	9·4	297	8	4·7	4·5	087	2	2·3	2·3	054	9	5·6	4·2	127	11	4·3	0·9	184
3·6 ,, .	8	3·8	2·4	254	7	6·1	5·5	306	6	5·7	5·5	082	2	2·6	2·6	120	6	5·8	5·7	122	8	5·5	0·4	099
4·5 ,, .	7	3·6	1·0	321	4	3·6	1·7	298	4	7·5	5·8	092	2	3·3	3·1	145	3	3·1	2·2	143	3	5·7	5·1	306
5·4 ,, .	2	3·1	1·8	337	3	4·0	1·5	250	2	3·6	2·1	272	1	3·1	3·1	195	2	2·8	1·4	317	2	3·1	3·0	344
6·0 ,, .	1	3·1	3·1	115	1	7·2	7·2	145	2	3·1	2·9	272												
7·2 ,, .	1	7·7	7·7	095					1	4·6	4·6	360												
9 0 ,, .																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Station	DUM DUM																GADAG							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	0·6	131	31	2·6	1·5	139	31	2·3	1·2	152	31	2·4	1·6	164	31	4·8	4·5	259	31	6·8	6·7	268
0·15 a. g.	30	4·5	1·4	157	31	4·5	1·7	147	31	5·4	3·1	170	29	5·9	4·2	169	29	9·4	9·3	255	31	11·1	11·0	259
0·3 a. m. s. l.	30	4·8	1·6	167	31	5·1	1·7	148	31	5·5	3·1	171	29	6·8	4·8	180								
0·6 ,,	30	4·8	1·7	180	30	2·0	2·0	154	31	5·5	3·3	158	29	7·1	4·8	181								
0·9 ,,	30	4·9	1·6	171	25	4·8	1·9	166	31	5·4	2·9	155	25	5·8	3·5	186	29	11·6	11·4	269	31	11·3	11·2	265
1·5 ,,	30	5·3	2·0	159	15	5·0	0·6	137	31	5·5	2·7	152	20	4·8	2·3	200	20	13·5	13·4	277	30	13·0	12·7	275
2·1 ,,	30	5·2	1·9	149	7	4·3	1·4	100	31	5·4	2·6	140	13	3·5	1·7	161	14	10·8	9·9	275	16	11·6	11·3	275
3·0 ,,	30	5·8	2·3	134	4	4·0	1·9	131	31	5·3	3·1	122	9	4·0	3·1	146	12	6·1	4·5	269	9	7·5	7·1	285
3·6 ,,	29	5·2	2·9	126	3	4·3	2·9	101	31	5·9	3·3	111	6	3·3	3·0	131	10	4·7	3·8	269	5	4·0	3·7	294
4·5 ,,	29	6·1	4·0	120	1	1.5	1·5	124	31	6·3	4·1	110	2	2·3	2·0	145	7	2·6	2·1	309	1	5·7	5·7	215
5·4 ,,	29	6·4	4·8	116	1	3·1	3·0	155	31	6·4	4·0	096	1	0·5	0·5	125	6	3·7	2·7	041	1	4·1	4·1	210
6·0 ,,	29	6·3	5·1	113	1	1·5	1·5	186	31	6·5	4·6	088					5	4·3	3·9	060	1	2·6	2·6	230
7·2 ,,	28	7·2	6·0	102	1	2·1	2·1	356	31	7·4	5·1	094					4	6·8	6·2	074	1	1·0	1·0	185
9·0 ,,	17	7·6	6·2	092					23	8·6	7·1	089					4	11·1	10.8	091				

Station	GADAG				GANNAVARAM												GAUHATI							
Time in I. S. T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·4	5·3	267	31	3·4	3·3	271	31	4·1	3·3	308	31	2·3	1·3	252	31	0·8	0·4	065	31	2·3	1·7	015
0·15 a. g.	31	9·5	9·4	259	30	7·7	7·4	275	31	6·0	4·9	299	28	4·8	2·9	252	31	2·3	0·8	085	30	3·5	3·1	034
0·3 a. m. s. l.					30	9·0	8·5	276	31	6·2	5·5	294	28	5·3	4·1	260	31	2·3	0·5	085	30	3·9	3·3	045
0·6 ,,					30	11·3	10·8	279	31	7·3	7·0	292	28	6·8	6·2	269	31	2·8	0·6	043	30	3·7	2·8	065
0·9 ,,	31	11 0	10·9	267	30	12·0	11·5	290	31	8·3	8·1	286	27	8·0	7·7	273	31	3·2	1·1	049	29	3·9	2·7	098
1·5 ,,	26	13·2	13·0	276	30	10·5	10·4	294	30	10·6	10·5	281	27	9·8	9·7	275	31	3·7	1·1	118	29	4·8	3·5	120
2·1 ,,	19	9·8	9·1	280	27	9·7	9·5	286	30	12·4	12·2	279	24	10·9	10·7	283	31	3·8	1·3	148	28	6·0	4·1	120
3·0 ,,	12	6·2	4·7	280	22	8·6	8·3	280	21	12·4	12·2	280	17	9·9	9·7	281	31	5·1	2·5	131	23	6·3	4·5	106
3·6 ,,	8	4·8	2·9	293	17	8·0	7·7	280	12	9·5	9·2	284	7	4·6	4·2	271	31	5·1	3·0	142	19	6·0	4·9	104
4·5 ,,	7	3·4	2·6	290	9	6·2	5·6	281	6	4·5	4·4	291	5	3·2	2·2	280	31	4·8	2·3	155	13	3·9	1·8	137
5·4 ,,	5	2·1	1·5	053	5	4·1	1·9	170	5	2·9	1·8	317					31	4·6	1·9	133	7	3·0	2·2	120
6·0 ,,	2	1·8	0·6	167	3	5·0	1·9	070	2	3·1	0·6	151					31	4·6	2·0	144	4	3·7	3·3	115
7·2 ,,					2	6·4	6·2	091	1	3·1	3·1	045					31	4·9	2·8	116	3	4·8	4·7	085
9·0 ,,					1	12·9	12·9	085									28	6·0	4·2	090				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

August 1960 (SRAVAN 10—BHADRA 9, 1882 SAKA)

Station	GAUHATI								GAYA												GOPALPUR			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·4	0·3	214	26	1·5	0·7	156	31	2·2	0·7	083	31	2·4	1·2	065	31	2·0	0·7	087	31	1·6	1·4	231
0·15 a. g.	31	2·5	0·1	237	23	2·5	1·3	200	25	4·9	1·9	106	30	4·5	2·6	068	25	5·3	2·9	103	29	5·3	4·6	245
0·3 a. m. s. l.	31	2·4	0·1	319	23	2·6	0·7	240	25	5·5	1·9	115	30	4·7	2·7	072	25	5·3	2·9	111	29	6·0	5·4	261
0·6 ,,	31	2·7	0·7	016	23	2·5	0·8	276	25	6·3	2·2	129	30	5·2	2·3	090	25	6·0	3·0	114	28	6·7	6·2	272
0·9 ,,	31	2·8	0·8	040	22	2·6	0·2	330	23	6·2	2·5	117	29	5·5	2·6	114	24	5·5	1·8	125	27	7·9	7·3	284
1·5 ,,	31	3·3	1·4	133	19	2·8	1·4	151	19	4·9	3·7	108	27	5·8	3·3	130	22	4·8	1·1	144	22	8·4	8·0	297
2·1 ,,	31	4·3	2·6	146	16	3·9	2·3	138	15	6·3	4·8	093	24	6·5	3·7	131	13	4·9	1·3	080	18	7·2	6·8	285
3·0 ,,	31	4·8	3·1	127	13	4·8	3·9	102	8	5·1	4·3	126	12	5·3	2·8	124	5	3·4	2·7	133	15	8·4	7·9	271
3·6 ,,	31	5·0	3·1	126	10	5·5	4·6	093	1	5·7	5·7	140	6	4·2	3·1	105	1	5·1	5·1	120	6	8·1	7·8	270
4·5 ,,	31	4·9	2·8	119	6	4·5	4·1	123	1	6·7	6·7	120	3	5·0	4·6	091	1	5·1	5·1	115	1	8·2	8·2	260
5·4 ,,	31	5·5	3·0	130	4	4·5	4·0	119	1	8·2	8·2	120	1	6·2	6·2	130								
6·0 ,,	31	4·7	2·6	130	4	5·0	4·5	116					1	4·6	4·6	120								
7·2 ,,	31	4·7	3·2	096	3	5·8	5·3	072					1	6·2	6·2	105								
9·0 ,,	24	5·5	4·5	067	2	4·9	4·9	042																

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I. S. T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·0	4·5	210	31	2·6	2·1	240	31	1·7	1·2	080	31	1·7	1·1	071	31	2·3	1·0	276	31	2.5	1·5	292
0·15 a. g.	29	6·2	5·4	213	25	6·7	6·5	246	28	6·1	4·8	088	28	4·7	3·1	087	24	6·8	3·7	263	27	4·7	2·5	289
0·3 a. m. s. l.	28	6·4	5·5	225	25	6·2	5·5	249	28	7·3	5·9	099	28	5·4	3·5	089	24	5·5	3·0	276	27	4·1	2·1	286
0·6 ,,	27	5·7	4·7	246	25	5·9	5·3	258	24	8·5	7·3	108	28	6·7	3·9	106	21	9·4	5·8	298	27	6·2	3·6	301
0·9 ,,	27	6·3	5·6	269	25	6·6	6·1	268	21	8·6	7·4	103	27	7·4	5·5	112	18	9·5	6·8	300	26	7·2	3·9	303
1·5 ,,	25	8·3	8·0	289	25	8·1	7·3	278	19	9·0	7·9	099	24	6·8	5·3	121	12	7·3	4·1	315	21	6·8	2·6	319
2·1 ,,	20	7·8	7·6	291	20	7·7	6·9	273	18	9·2	8·3	099	22	6·7	6·1	117	9	6·2	2·0	014	17	6·2	2·5	350
3·0 ,,	12	5·8	5·3	273	8	5·9	5·5	270	15	7·7	7·3	101	16	5·9	5·5	123	7	6·9	2·4	014	7	7·2	4·9	012
3·6 ,,	6	4·6	2·9	268	1	4·6	4·6	250	11	5·4	5·1	110	14	6·0	5·1	119	5	5·7	2·9	032	6	6·6	5·4	015
4·5 ,,	4	5·3	2·5	223					6	3·9	3·3	104	12	6·3	4·8	110	3	6·3	4·7	034	3	8·2	7·2	037
5·4 ,,	3	3·2	1·5	088					4	2·8	2·4	123	6	6·8	5·8	101	2	6·9	1·7	041	2	5·1	5·1	086
6·0 ,,	3	3·1	3·0	063					4	3·4	2·4	113	5	7·2	6·1	086	2	6·4	2·9	098	2	6·9	6·7	074
7·2 ,,	1	2·1	2·1	045					2	3·6	2·1	108	1	8·2	8·2	080	2	5·7	2·2	073				
9·0 ,,									1	4·1	4·1	115	1	9·3	9·3	100	1	2·1	2·1	340				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

August 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Station	GWALIOR				IMPHAL												JABALPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	1·4	265	31	0·5	0·1	171	31	1·5	0·8	194	31	0·6	0·3	187	31	2·3	2·0	249	31	2·5	2·3	257
0·15 a. g.	30	6·0	3·5	265	25	1·3	0.8	088	29	3·1	2·1	205	27	1·4	0·1	122	21	7·5	6·7	255	30	6·5	6·1	258
0·3 a. m. s. l.	30	4·7	2·9	261																				
0·6 ,,	29	7·3	4·0	288													21	8·4	7·7	260	30	6·6	6·2	261
0·9 ,,	28	6·4	3·2	298	25	1·4	0·6	100	29	3·0	2·0	208	25	1·1	0·1	359	17	11·6	11·1	275	23	8·1	7·4	270
1·5 ,,	22	5·6	2.8	308	23	2·1	0·5	149	29	3·3	2·2	159	24	2·6	1·5	147	5	10·3	10·2	285	13	8·9	8·1	269
2·1 ,,	18	5·4	2·4	341	19	3·8	1·4	175	25	3·9	2·7	142	15	4·4	3·7	144	5	7·5	7·4	252	10	9·1	8·1	262
3·0 ,,	11	5·2	4·1	029	10	5·4	3·1	181	17	4·8	3·7	123	11	5·1	4·5	136	4	5·0	4·3	254	5	5·8	4·4	279
3·6 ,,	4	3·9	3·1	065	6	4·5	4·1	133	15	4·9	3·6	134	4	5·4	5·3	129	2	1·8	1·7	259	2	2·6	0·6	112
4·5 ,,					4	5·1	4·7	150	11	3·9	1·7	138	2	4·9	4·9	126	2	3·6	3·5	188	2	3·6	3·0	105
5·4 ,,					1	2·6	2·6	080	6	4·1	2·0	067	1	2·1	2·1	135	2	4·1	2·9	182	1	6·2	6·2	025
6·0 ,,					1	1·5	1·5	080	3	2·6	2·1	146	1	4·1	4·1	135	2	3·1	2·3	188				
7·2 ,,									2	4·4	3·8	129					1	5·1	5·1	145				
9·0 ,,									1	9·8	9·8	105												

Station	JABALPUR				JAGDALPUR												JAIPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·4	2·2	240	31	0·8	0·8	229	31	2·0	1·7	253	31	1·1	0·8	217	31	2·0	1·4	300	31	2·8	1·6	285
0·15 a. g.	24	6·9	6·5	253	26	5·6	5·1	243	28	6·8	6·0	263	25	6·1	5·3	246	27	7·0	6·2	294	24	5·7	3·8	283
0·3 a. m. s. l.																								
0·6 ,,	24	7·4	7·2	257	26	3·2	3·0	241	28	5·1	4·5	262	25	4·1	3·7	239	27	8·3	7·4	294	24	6·4	4·4	282
0·9 ,,	20	9·6	8·7	271	26	8·0	7·6	267	28	7·5	7·2	269	25	7·6	7·1	265	26	10·2	9·0	296	24	7·4	3·4	290
1·5 ,,	11	9·0	7·3	273	16	10·0	9·8	288	24	10·2	9·8	283	22	10·1	9·9	284	17	6·8	5·3	319	21	6·3	2·8	324
2·1 ,,	7	7·0	6·9	262	10	8·6	8·5	293	16	10·3	9·9	288	19	10·7	10·7	287	9	4·0	2·2	003	16	6·2	3·3	008
3·0 ,,	4	5·4	5·3	258	4	7·2	7·1	279	9	8·9	8·5	286	12	6·9	6·5	280	7	4·7	3·5	024	10	6·1	4·8	021
3·6 ,,	1	3·1	3·1	050	3	7·1	6·3	278	6	8·3	8·2	282	7	5·6	5·3	278	3	6·8	6·3	011	7	7·8	5·6	020
4·5 ,,									3	5·8	5·6	258	3	4·3	3·9	323					5	7·1	5·7	023
5·4 ,,									2	4·9	3·9	251	2	4·9	4·9	335					2	12·6	11·9	005
6·0 ,,									1	2·1	2·1	100									1	9·8	9·8	355
7·2 ,,									1	1·5	1·5	130									1	7·7	7·7	350
9·0 ,,									1	10·3	10·3	105												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

August 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Station	JAIPUR				JAMSHEDPUR								JHARSUGUDA											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·6	0·9	287	31	1·8	0·3	202	31	2·4	0·6	204	30	2·2	1·8	236	31	2·8	2·5	251	29	2·5	2·1	238
0·15 a. g. .	31	5·9	3·9	270	29	4·4	1·5	243	27	4·5	1·4	198	20	5·3	5·0	242	26	5·9	4·9	267	23	5·9	5·4	249
0·3 a. m. s. l. .					29	4.5	1·6	247	27	4·5	1·5	201	20	4·5	4·1	236	26	5·8	5·3	247	23	4·9	4·3	233
0·6 ,, .	31	6·7	4·3	270	29	6·3	2·4	280	27	5·3	1·2	222	20	6·8	6·4	265	25	6·3	6·1	258	22	7·3	7·1	258
0·9 ,, .	31	8 0	5·0	286	27	6·6	2·1	294	27	5·6	0·8	225	16	8·0	7·5	274	24	7·2	6·6	266	18	7·8	7·3	260
1·5 ,, .	25	6·5	4·2	299	19	6·3	1·7	315	20	5·2	0·9	193	12	7·2	6·6	285	19	6·5	5·7	282	13	6·8	5·7	274
2·1 ,, .	22	4·2	2·8	003	15	5·1	1·0	262	15	5·1	1·6	243	6	6·7	6·1	284	15	5·6	4·4	281	10	5·3	4·7	272
3·0 ,, .	13	6·2	5·3	017	13	3.7	0·8	163	10	4·0	1·5	102	3	5·3	4·6	295	13	4·7	3·5	300	5	5·1	4·7	250
3·6 ,, .	12	6·0	4·5	031	10	3·2	1·0	094	7	3·6	1·5	130	2	3·1	2·8	264	8	3·7	1·7	269	1	1·5	1·5	170
4·5 ,, .	7	6·3	5·3	022	9	4·0	2·6	106	6	5·0	2·7	122	1	1·5	1·5	215	1	2·1	2·1	040				
5·4 ,, .	1	4·6	4.6	015	6	4·1	3·4	092	2	3·3	2·1	161												
6·0 ,, .	1	3·1	3·1	035	5	4·9	4·4	083																
7·2 ,, .					4	4·5	4·0	047																
9·0 ,, .					3	8·4	8·1	084																

Station	JODHPUR																MADRAS							
Time in I. S. T.	0530*				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·3	3·2	238	31	4.8	4·6	235	31	5·0	4·1	232	31	3·8	3·4	218	31	3·5	3·2	258	31	6·3	5·5	280
0·15 a. g. .	29	7·4	6·9	256	30	7·3	7·1	233	31	6·3	4·6	246	31	8·8	8·6	219	31	9·3	8·8	270	31	7·7	7·0	280
0·3 a. m. s. l. .	30	5·1	4·8	248	30	7·2	6·9	235	31	5·6	4·3	232	31	7·2	6·9	218	31	9·7	9·2	273	31	7·8	7·3	278
0·6 ,, .	30	8·5	7·7	256	30	7·2	6·8	233	31	5·9	5·0	240	31	10·0	9·8	230	31	10·4	9·9	282	31	8·0	7·5	277
0·9 ,, .	28	8·9	8·4	252	29	8·0	7·4	235	31	6·0	5·4	233	31	9·7	9·4	237	31	10·5	9·9	290	31	8·4	8·0	281
1·5 ,, .	29	5·6	3·9	254	17	7·4	4·1	245	31	4·7	3·0	236	28	7·4	5·8	246	31	10·1	9·7	291	31	9·6	9·4	285
2·1 ,, .	29	4·6	1·7	035	9	5·7	3·5	038	31	3·9	1·4	348	26	4·3	0·8	030	31	7·3	7·0	289	30	8·8	8·5	281
3·0 ,, .	29	5·8	4·2	043	4	5·4	4·7	055	31	5·6	3·9	015	22	6·0	5·4	037	31	6·6	6·2	283	27	8·2	7·9	272
3·6 ,, .	28	6·5	5·5	030	2	3·6	3·2	033	31	6·2	5·2	017	13	7·7	7·3	033	31	7·3	6·8	282	25	9·0	8·5	269
4·5 ,, .	28	7·6	6·7	027	2	5·1	5·1	047	30	5·5	4·2	014	7	7·9	7·4	023	31	6·5	5·8	275	21	8·1	7·7	267
5·4 ,, .	27	6·5	5·3	040	2	6·9	6·9	010	28	5·0	3·2	028	3	9·4	8·3	058	30	5·8	4·5	275	17	6·6	6·1	259
6·0 ,, .	26	6·6	4·5	062	1	7·7	7·7	010	28	5·8	3·4	043	3	9·6	8·8	058	30	4·3	2·3	276	16	5·5	4·7	263
7·2 ,, .	24	6·9	5·7	070					26	5·6	3·4	051	2	6·7	3·7	045	29	4·5	0·7	008	15	4·4	0·4	311
9·0 ,, .	21	6·2	4·6	070					22	5·8	3·5	064					22	9·0	7·3	096	9	6·6	5·5	077

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Station	MADRAS								MINICOY												MOHANBARI			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·5	1·3	200	31	3·8	2·9	204	31	4·4	4·1	302	31	5·1	4·8	296	31	5·5	5·1	297	31	0·8	0·1	178
0·15 a. g.	31	7·3	1·7	209	27	6·9	6·0	217	26	7·5	7·1	297	29	7·8	7·4	294	28	7·7	7.2	296	22	3·2	1·1	060
0·3 a. m. s. l.	31	6·3	2·2	237	27	7·4	6·5	228	26	7·8	7·5	298	29	8·2	7·9	295	28	8·6	8·1	297	22	3·1	0·9	072
0·6 ,,	31	5·3	3·5	263	27	8·3	7·4	242	26	10·2	9·6	297	29	10·5	10·2	298	28	10·4	9·9	297	22	3·2	1·3	050
0·9 ,,	31	6·0	5·5	277	27	8·6	7·9	255	26	11·7	11·3	296	29	12·8	12·4	300	28	12·1	11·5	298	22	3·0	1·3	061
1·5 ,,	31	7·6	7·3	279	26	7·6	7·3	274	26	12·8	11·9	293	28	13·3	12·9	298	27	12·6	12·1	297	20	3·0	0·8	108
2·1 ,,	31	9·6	9·2	284	24	8·0	7·5	286	26	11·4	11·1	291	28	12·3	12·0	293	22	10·6	10·4	292	16	2·9	0·7	105
3·0 ,,	31	9·6	9·3	282	14	7·7	7·3	287	21	10·1	9·8	291	20	9·6	9·5	292	15	6·5	6·3	291	9	3·7	2·6	147
3·6 ,,	31	9·1	8·6	281	4	7·1	6·7	278	12	7·8	7·4	289	16	8·1	7·8	293	9	4·5	6·3	260	5	2·7	1·1	176
4·5 ,,	31	7·7	7·2	281	1	3·1	3·1	245	6	6·9	6·9	286	11	6·0	5·5	300	5	5·6	3·9	277	3	2·8	2·1	188
5·4 ,,	31	5·3	4·2	271					1	3·1	3·1	300	5	5·6	4·9	293								
6·0 ,,	31	4·7	2·7	265					1	3·6	3·6	270	4	3·4	2·4	310								
7·2 ,,	30	4·4	0·8	062									2	4·9	2·3	078								
9·0 ,,	19	7·4	5·1	107									1	6·7	6·7	085								

Station	MOHANBARI								NAGPUR															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·6	0·3	223	31	0·3	0.2	045	31	1·7	1·6	263	31	4·9	4·4	274	31	4·6	4·1	272	31	2·4	2·2	272
0·15 a. g.	30	2·4	1·0	049	30	2·5	0·8	352	31	7·9	7·4	274	26	7·3	6·9	277	31	7·8	7·2	267	29	7·6	6·9	280
0·3 a. m. s. l.	30	2·4	1·1	055	30	2·5	0·7	003																
0·6 ,,	30	2·3	1·2	066	30	2·3	0·8	058	31	9·3	9·0	282	26	7·3	6·9	279	31	8·5	8·2	271	29	8·9	8·3	287
0·9 ,,	29	2·4	0·7	063	30	1·7	0·5	070	31	11·0	10·9	292	24	8·2	8·0	286	31	9·3	9·0	278	28	9·5	9.2	290
1·5 ,,	29	2·0	0·8	196	29	1·8	0·9	184	31	10·3	10·0	291	11	8·6	8·2	290	31	9·9	9·6	291	26	9·2	8·9	286
2·1 ,,	28	2·6	2·0	194	25	2·3	1·4	190	31	9·2	8·6	285	5	10·2	9·5	275	31	9·0	8·3	289	19	8·1	7·8	273
3·0 ,,	27	3·3	1·8	185	14	2·6	2·2	164	31	7·2	6·6	287	1	7·7	7·7	255	31	7·4	6·7	288	9	4·1	3·3	273
3·6 ,,	24	3·6	1·5	187	6	3·0	2·6	192	31	5·6	5·0	295					31	6·4	5·6	293	2	4·1	3·4	300
4·5 ,,	17	4·0	2·7	145	2	4·6	4·3	159	31	4·7	2·8	317					31	5·7	5·1	316				
5·4 ,,	10	4·2	3·3	110	1	5·7	5·7	115	31	4·4	2·2	350					31	5·2	3·3	328				
6·0 ,,	7	4·6	3·5	104	1	9·8	9·8	115	31	5·2	1·6	009					30	4·3	1·3	002				
7·2 ,,	3	6·2	3·4	111					31	5·4	2·6	067					30	4·6	3·1	067				
9·0 ,,									29	7·8	6·8	075					26	9·3	8·3	087				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

August 1950 (SRAVANA 10—BHADRA 9, 1872 SAKA)

Station	NANPARA								NEW DELHI															
Time in I. S. T.	0530				1730				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	1·3	092	31	1·9	1·1	102	31	2.2	0·4	117	31	3·5	0·7	322	31	2·2	0·6	047	31	1·6	0·3	194
0·15 a. g.	28	5·8	4·9	102	29	4·6	2·6	123	31	5·7	0·4	098	27	4·6	1·5	300	31	4·5	0·9	021	30	4·8	1·2	154
0·3 a. m. s. l.	28	6·1	5·2	110	29	4·6	2·8	123	31	4·5	0·6	120	27	4·5	1·3	301	31	3·6	0·7	347	30	3·7	0·8	161
0·6 ,,	28	8·7	7·9	114	28	5·9	4·5	126	31	5·8	0·6	101	27	5·6	1·8	306	31	4·1	0·5	035	29	5·3	1·1	140
0·9 ,,	24	8·8	7·8	115	28	6·4	5·0	123	31	5·4	0·3	110	26	5·9	1·5	343	31	4·1	0·6	073	29	5·2	0·7	115
1·5 ,,	20	9·1	7·8	114	27	7·6	6·5	124	31	5·6	1·8	064	18	6·1	1·5	338	30	4·8	1·4	034	26	4·8	1·0	009
2·1 ,,	16	8·5	6·6	111	24	8·5	7·7	122	30	5·9	2·7	050	11	6·4	1·2	058	30	5·5	1·0	054	23	5·7	2·6	007
3·0 ,,	14	6·4	5·1	103	20	8·4	7·7	121	31	5·5	2·8	066	10	7·1	2·1	060	30	5·5	1·5	025	21	5·8	3·2	021
3·6 ,,	10	4·6	2·7	108	16	6·0	5·3	128	31	5·1	3·1	060	8	7·5	1·8	067	31	5·3	1·9	024	8	5·1	2·8	047
4·5 ,,	5	3·7	2·5	076	14	5·6	4·7	117	31	5·0	2·5	066	5	6·4	2·4	103	31	4·8	1·7	026	3	4·1	3·0	095
5·4 ,,	5	3·1	1·1	135	8	4·7	3·3	098	29	5·2	1·8	056	5	5·8	2·9	086	31	5·1	2·1	021	2	5·4	3·1	150
6·0 ,,	3	3·4	1·2	023	7	3·5	1.7	083	28	5·6	1·2	063	4	5·1	3·0	121	30	5·5	1·5	055	1	3·1	3·1	070
7·2 ,,	3	3.8	2·1	142	5	3·2	2·7	068	28	5·1	1·7	087	3	4·3	3·9	116	28	6.1	1·7	047	1	2·1	2·1	140
9·0 ,,	3	3·8	3·2	118	3	6·7	5·7	073	27	5·2	2·6	119	1	1·0	1·0	240	27	5·9	2·3	084				

Station	POONA												PORT BLAIR											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	2·2	262	31	4·5	4·2	271	31	1·9	1·8	261	31	3·8	3·8	237	31	6·8	6·6	234	31	4·4	4·2	241
0·15 a. g.	31	7·3	7·2	260	31	9·0	8·9	266	30	6·6	6·5	258	31	8·8	8·7	240	30	9·3	9·1	237	31	8·8	8·7	242
0·3 a. m. s. l.													31	8·7	8·7	240	30	10·1	9·9	239	31	9·3	9·0	242
0·6 ,,	31	3·8	3·7	261	31	6·2	6·0	268	30	3·4	3·3	256	31	11·2	11·0	243	30	10·4	10·2	241	30	11·0	10·8	245
0·9 ,,	31	9·0	8·9	262	31	10·2	10·1	265	30	8·5	8·4	261	31	11·6	11·4	246	27	10·4	10·2	244	30	11·4	11·3	250
1·5 ,,	16	11·8	11·8	263	24	14·3	14·2	266	20	11·9	11·8	266	31	10·8	10·7	246	14	9·9	9·7	246	31	11·0	10·8	261
2·1 ,,	6	7·5	7·3	263	4	11·1	10·7	271	11	10·4	9·9	274	31	9·1	8·7	253	5	7·8	7·4	242	31	9·8	9·5	266
3·0 ,,	3	4·3	3·6	263	1	4·1	4·1	275	6	5·8	5·5	280	31	9·6	9·1	258	1	8·7	8·7	245	31	9·1	8·6	261
3·6 ,,	2	4·9	3·5	291					2	4·6	4·0	289	31	8·5	8·0	264	1	5·7	5·7	260	31	8·2	7·6	257
4·5 ,,	1	2·6	2·6	335					1	5·1	5·1	315	31	7·0	6·0	263					31	6·3	5·5	250
5·4 ,,									1	5·1	5·1	300	31	4·9	3·8	267					31	5·3	3·7	246
6·0 ,,													30	5·5	2·7	235					31	5·5	2·8	254
													30	5.5	1·6	138					30	5·8	0·7	162
7·2 ,,													26	12·4	11·2	088					24	10·1	8·7	089
9·0 ,,																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

August 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4·9	4·8	235	31	3·5	3·1	246	31	4.0	3·7	253	31	3·8	3·5	244	31	0·7	0·6	081	31	0·8	0·7	088
0·15 a. g. .	31	9·0	8·8	240	23	8·2	7·9	242	26	8·1	7·9	252	21	8·5	8·3	244	27	5·9	5·6	093	29	4·6	3·4	095
0·3 a. m. s. l. .	31	9·9	9·7	240													27	6·7	6·2	102	29	5·1	4·1	098
0·6 ,, .	31	11·7	11·4	244	23	9·7	9·4	254	26	9·6	9·3	258	21	9·8	9·4	259	26	8·6	8·5	111	29	6·0	4·9	110
0·9 ,, .	30	11·2	11·0	248	23	10·3	9·8	275	26	10·2	9·8	266	21	9·8	9·4	268	24	8·9	8·7	110	27	6·5	6·1	112
1·5 ,, .	27	9·3	9·0	252	18	9·1	8·9	284	17	8·9	8·2	279	18	8·8	8·5	282	21	9·2	6·8	110	23	7·7	7·0	119
2·1 ,, .	19	7·0	6·6	249	15	7·9	7·7	280	13	9·0	8·4	280	16	8·4	8·1	284	18	7·9	7·9	104	19	8·3	8·0	116
3·0 ,, .	15	6·1	5·8	250	9	6·2	5·6	274	7	6·7	6·5	262	11	5·3	4·4	283	15	6·3	6·0	107	14	8·2	8·0	109
3·6 ,, .	7	6·4	5·9	238	5	7·0	6·5	283	5	6·6	6·2	263	3	4·1	2·3	272	12	5·5	4·9	112	12	7·7	7·3	114
4·5 ,, .	1	5·1	5·1	270	2	2·6	0·9	259	2	8·2	7·9	248	1	2·1	2·1	310	4	3·4	3·2	123	9	5·8	5·5	110
5·4 ,, .					1	0·5	0·5	120					1	1·0	1·0	315	1	3·1	3·1	135	6	2·7	2·1	074
6·0 ,, .													1	2·6	2·6	025					3	3·2	1·1	058
7·2 ,, .																					1	2·6	2·6	350
9·0 ,, .																								

Station	SANTA CRUZ																TEZPUR							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5·5	5·3	263	31	4·8	4·6	257	31	5·8	5·8	267	31	4·5	4·3	262	10	0·8	0·1	338	10	0·1	0·1	045
0·15 a. g. .	31	9·4	9·3	257	29	7·4	7·2	252	31	9·1	8·9	266	30	7·5	7·3	250	3	5·1	1·3	070	10	2·8	0·5	040
0·3 a. m. s. l. .	31	9·3	9·2	257	29	8·6	8·4	252	31	9·1	8·9	265	30	8·2	7·9	253	3	4·1	2·1	093	10	2·9	0·8	036
0·6 ,, .	30	9·6	9·5	257	26	10·4	10·1	260	31	9·8	9·5	265	28	9·1	8·9	254	3	4·6	3·4	106	10	2·2	1·0	057
0·9 ,, .	30	9·7	9·5	256	15	10·7	10·5	260	31	10·3	10·2	264	13	8·3	8·1	258	2	3·6	2·6	120	10	1·4	0·9	152
1·5 ,, .	29	9·6	9·4	253	9	11·5	11·3	254	31	10·3	10·0	260	6	7·4	7·2	249	2	4·9	4·0	093	10	4·1	2·4	153
2·1 ,, .	29	9·1	8·8	253	3	6·5	6·3	241	31	9·4	9·0	255	1	5·7	5·7	265	2	5·4	4·6	080	9	5·6	3·1	148
3·0 ,, .	29	7·9	7·2	270					31	8·9	8·5	265												
3·6 ,, .	29	6·4	4·6	286					30	8·0	6·8	273												
4·5 ,, .	29	6·2	3·6	287					29	6·1	4·3	282												
5·4 ,, .	29	4·4	3·3	310					29	3·7	2·0	289												
6·0 ,, .	28	3·7	2·5	321					29	3·2	1·5	261												
7·2 ,, .	28	4·3	2·5	323					28	4·4	2·6	082												
9·0 ,, .	20	7·8	7·2	083					24	7·2	6·9	083												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9·0 Km. above mean sea level

August 1960 (Sravana 10—Bhadra 9, 1882 Saka)

Station	TIRUCHIRAPALLI												TRIVANDRUM											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	7·4	7·4	270	31	8·4	7.9	272	31	8·6	8·2	266	31	3.2	3·0	338	31	5·4	5·1	319	31	6·1	5·8	303
0·15 a. g.	31	11·4	11·3	275	31	9·5	9·0	272	28	10·1	9·8	265	30	8·1	7·7	330	30	7·6	7·4	314	31	10·0	9·9	310
0·3 a. m. s. l.	31	12·6	12·6	275	31	9·7	9·3	273	28	10·7	10·2	265	30	9·0	8·6	329	30	8·6	8·3	313	31	10·6	10·5	311
0·6 ,,	30	14·1	14·0	279	31	9·8	9·5	271	28	12·2	11·8	269	30	11·5	11·0	318	27	10·9	10·6	317	31	11·6	11·3	314
0·9 ,,	30	12·6	12·3	282	31	10·0	9·7	268	28	11·4	10·7	272	30	13·2	12·7	314	24	13·3	13·0	317	31	12·7	12·1	314
1·5 ,,	31	9·4	9·1	273	31	10·0	9·6	265	27	8·7	8·3	278	30	13·9	13·7	308	12	16·1	15·7	311	31	13·0	12·6	312
2·1 ,,	30	6·5	6·1	276	30	10·0	9·6	264	27	6·2	5·8	286	30	12·8	12·4	303	5	9·2	8·7	310	31	12·9	12·6	306
3·0 ,,	25	5·3	4·5	278	24	8·9	8·4	271	21	7·3	6·5	298	30	8·1	7·6	303	4	4.4	3·9	301	31	10·4	9·8	300
3 6 ,,	23	4·8	4·1	279	14	7·3	6·9	278	11	6·4	5·6	291	30	6·3	5·7	297	3	3·6	3·1	289	31	7·0	6·4	297
4·5 ,,	17	4·9	4·1	273	9	6·5	6·1	290	3	3·1	2·2	231	30	4·4	3·1	284	3	4·5	4·4	285	31	5·9	4·7	292
5·4 ,,	7	4·6	2·6	259	7	6·7	5·2	274					30	4·8	2·1	254	2	4·9	2·6	061	31	4·2	2·2	282
6·0 ,,	6	3·5	2·4	098	5	5·1	3·4	268					30	5·6	0·9	216	2	4·4	1·3	028	31	3·7	1·2	299
7·2 ,,	2	6·7	6·7	093	2	6·9	6·9	076					29	5·7	3·2	095	2	4·6	2.3	104	30	5·3	3·4	091
9·0 ,,													23	8·6	6·7	083	1	11·8	11·8	085	24	8·0	6·9	096

Station	TRIVANDRUM				UDAIPUR												VENGURLA							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·4	3·2	323	31	0·8	0·7	267	31	1·6	1·1	250	31	0·9	0·8	243	31	2·3	2·2	267	31	3·0	2·7	282
0·15 a. g.	28	8·1	7·9	317	30	3·8	2·9	271	29	4·7	3·4	246	31	3·6	2·8	249	31	8·0	7·5	275	31	7·3	7·1	281
0·3 a. m. s. l.	28	9·3	9·2	320													31	9·3	8·9	279	31	10·0	9·8	282
0·6 ,,	28	11·7	11·5	317													29	11·3	10·8	280	30	13·5	13·4	283
0·9 ,,	26	13·2	13·0	317	30	4·7	3·3	276	29	5·0	3·5	255	31	4·5	4·3	257	17	11·5	11·2	285	25	14·6	13·8	283
1·5 ,,	24	14·5	14·3	311	13	4·9	2·4	020	21	6·0	3·2	262	21	5·0	1·2	270	7	10·9	10·8	285	13	11·2	10·6	283
2·1 ,,	17	11·3	11·1	302	10	5·1	3·8	070	12	5·3	0·8	342	16	4·9	3·8	069	5	7·3	7·1	284	4	4·6	4·4	292
3·0 ,,	12	6·3	5·9	287	8	6·6	6·0	088	8	4·4	3·0	047	13	6·9	6·4	065	2	3·1	1·2	295	3	2·4	2·1	293
3·6 ,,	8	3·5	2·7	236	3	8·1	8·0	085	5	6·5	5·9	055	9	8·7	7·9	047					2	2·1	2·1	269
4·5 ,,	7	3·0	0·5	235	1	4·6	4·6	105	3	7·9	7·5	043	6	9·3	8·2	063								
5.4 ,,	5	3·2	1·3	081					1	8·2	8·2	080	1	9·8	9·8	095								
6·0 ,,	4	4·0	3·7	098					1	10·3	10·3	075												
7·2 ,,	4	7·5	6·7	113					1	10·8	10·8	085												
9·0 ,,									1	11·8	11·8	090												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

August 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Station	VENGURLA				VERAVAL																VISAKHAPATNAM			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·7	1·6	267	31	7·1	7·1	267	31	6·9	6·7	264	31	6·7	6·7	268	31	9·0	6·5	256	29	1·2	1·1	289
0·15 a. g. .	31	6·8	6·5	276	31	8·7	8·5	254	31	9·5	9·4	250	31	8·7	8·5	259	29	9·8	9·6	245	28	6·9	6·4	301
0·3 a. m. s. l. .	31	8·3	8·0	276	31	8·5	8·4	256	31	11·0	10·8	255	31	8·5	8·3	259	29	10·6	10·4	249	28	6·3	5·2	281
0·6 ,, .	31	10·1	9·8	276	31	8·4	8·2	258	29	11·8	11·6	258	31	8·2	8·2	262	29	11·1	10·9	253	28	7.0	6·5	245
0·9 ,, .	22	10·2	9·9	283	31	8·1	7·9	260	16	11·0	10·7	262	31	8·2	7·9	264	26	10·6	10·4	255	28	7·9	7·5	255
1·5 ,, .	13	10·2	10·1	280	30	6·8	6·6	260	5	11·4	1 9	260	29	6·9	6·6	264	22	9·2	8·9	256	28	7·7	7·5	273
2·1 ,, .	9	6·8	6·4	273	29	5·9	4·8	281					29	5·2	4·4	277	9	7·1	6·3	263	28	8·5	6·4	285
3·0 ,, .	6	4·7	3·9	289	29	5·0	3·1	310					29	5·5	3·9	302	3	5·1	5·1	266	28	9·0	8·6	288
3·6 ,, .	2	1·3	0·3	280	29	5·3	3·8	351					29	5·3	3·4	330					28	8·7	8·4	286
4·5 ,, .					29	5·3	4·1	012					29	4·7	2·4	012					28	7·1	6·4	283
5·4 ,, .					29	6·0	4·4	032					29	4·7	3·7	035					28	5·9	4·6	280
6·0 ,, .					29	5·6	3·1	038					29	4·6	2·5	054					28	4·5	2·8	285
7·2 ,, .					29	5·1	3·7	065					28	5·1	3·4	090					28	4·5	1·0	320
9·0 ,, .					15	8·6	7·2	102					15	8·2	7·9	090					24	4·5	2·1	095

Station	VISAKHAPATNAM											
Time in I.S.T.	1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5·8	5·3	246	31	0·5	0·2	262	31	3·1	2·7	231
0·15 a. g. .	29	6·2	5·8	245	31	7·1	6·2	296	30	5·5	5·1	246
0·3 a. m. s. l. .	29	6·0	5·6	252	31	6·9	6·5	286	30	6·5	6·2	255
0·6 ,, .	28	6·3	5·8	265	31	6·3	5·9	254	29	7·4	7·1	272
0·9 ,, .	26	7·5	7·1	282	31	6·5	6·2	266	29	8·1	7·8	284
1·5 ,, .	21	9·8	9·4	290	31	6·5	6·2	245	29	10·0	9·7	287
2·1 ,, .	17	9·6	9·2	286	31	8·1	7·6	285	28	10·1	9·8	278
3·0 ,, .	11	7·2	6·8	284	30	6·7	5·9	281	20	7·4	7·1	281
3·6 ,, .	5	6·7	6·6	264	30	6·2	5·8	285	10	7·6	7·2	282
4·5 ,, .	3	5·5	4·4	285	30	6·2	5·3	277	4	5·8	5·4	276
5·4 ,, .	2	2·8	1·5	256	29	4·9	4·0	284	1	1·0	1·0	335
6·0 ,, .					29	4·5	2·2	301	1	3·6	3·6	045
7·2 ,, .					29	3·9	1·4	060				
9·0 ,, .					26	5·5	4·1	072				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

August 1960 (Sravaana 10—Bhdra 9, 1882 Saka)

ANANTAPUR

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	1	23·7	23·7	085

ASANSOL

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	2	9·5	8·3	096

BAGHDOGRA

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	2	11·8	11·8	087
12·0	2	13·7	13·6	081
14·1	2	1·49	12·9	078

BAMRAULI

0530 hrs.*

Ht. in Km.	n	V	v	D
10·5	9	9·9	9·6	088
12·0	4	10·0	9·3	092
14·1	1	22·7	22·7	070

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	14	9·5	6·1	078
12·0	9	10·7	10·2	077
14·1	4	16·3	15·6	068
16·2	1	23·7	23·7	075

BAREILLY

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	2	3·6	2·4	103
12·0	2	5·7	5·5	090
14·1	1	5·7	5·7	080

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	2	5·1	4·1	126
12·0	2	7·7	7·7	133
14·1	1	4·6	4·6	260
16·2	1	9·8	9·8	090

DUM DUM

0530 hrs.*

Ht. in Km.	n	V	v	D
10·5	14	9·4	8·4	092
12·0	12	12·3	10·9	085
14·1	2	19·0	19·0	079
16·2	1	22·1	22·1	080
18·0	1	16·0	16·0	080

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	17	9·3	7·8	093
12.0	14	10·9	10·0	085
14·1	12	13·4	12·1	081
16·2	6	18·2	17·9	074
18·0	4	21·9	21·9	085
21·0	1	19·6	19·6	120

GADAG

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	1	17·0	17·0	090
12·0	1	23·7	23·7	080

GANNAVARAM

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	1	19·0	19·0	105

GAUHATI

0530 hrs.*

Ht. in Km.	n	V	v	D
10·5	25	6·8	5·8	081
12·0	21	10·1	8·8	068
14·1	13	12·5	11·9	067
16·2	6	18·1	18·1	079
18·0	3	14·8	14·8	087
21·0	2	18·3	18·3	090

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	21	6·0	4·8	070
12·0	19	9·0	7·5	065
14·1	16	11·1	8·5	064
16·2	8	16·0	14·3	070
18·0	4	19·6	17·8	075
21·0	1	8·7	8·7	105

GAUHATI

2330 hrs.

Ht. in Km.	n	V	v	D
10·5	1	1·0	1·0	270

GORAKHPUR

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	1	6·2	6·2	080

GWALIOR

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	1	3·1	3·1	306
12·0	1	6·2	6·2	025

IMPHAL

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	1	15·4	15·4	065
12·0	1	13·9	13·9	065

JODHPUR

0530 hrs.*

Ht. in Km.	n	V	v	D
10·5	17	6·7	5·1	085
12·0	13	8·9	6·6	087
14·1	3	14·6	10·8	052

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	16	6·5	3·8	090
12·0	12	9·0	7·7	089
14·1	3	14·9	14·6	091
16·2	1	24·2	24·2	010

MADRAS

0530 hrs.*

Ht. in Km.	n	V	v	D
10·5	17	15·4	15·0	093
12·0	15	26·1	25·7	090
14·1	6	34·6	34·3	087
16·2	1	35·5	35·4	105
18·0	1	19·6	19·6	090

1130 hrs.

Ht. in Km.	n	V	v	D
10·5	6	10·7	9·6	094
12·0	4	19·0	19·0	092
14·1	3	26·2	26·1	093
16·2	1	40·1	40·1	090

MADRAS

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	12	14·4	14·1	094
12·0	8	22·1	21·6	091
14·1	4	34·9	34·8	095

MINICOY

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	1	12·9	12·9	110
12·0	1	31·4	31·4	095

NAGPUR

0530 hrs.*

Ht. in Km.	n	V	v	D
10·5	29	12·5	11·8	084
12·0	28	18·2	17·8	081
14·1	25	24·2	23·5	080
16·2	18	25·1	24·0	080
18·0	14	27·0	26·6	087
21·0	4	24.0	23·8	083
24·0	1	37·5	37·5	085

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	25	13·4	12·8	088
12·0	24	19·0	18·4	084
14·1	20	23·9	23·4	076
16.2	14	28·7	28·5	085
18.0	10	31·5	30·8	090
21·0	4	25·6	25·1	087

NANPARA

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	1	6·7	6·7	115

NEW DELHI

0530 hrs.*

Ht. in Km.	n	V	v	D
10.5	24	6·4	2·5	128
12·0	24	7·5	3·6	108
14·1	21	8·3	5·1	093
16.2	20	11·1	10·2	069
18·0	12	13·4	10·5	080
21·0	3	17·7	16·5	086
24·0	2	21·6	21·2	079

NEW DELHI

1130 hrs.

Ht. in Km.	n	V	v	D
10·5	1	2·6	2·6	220
12·0	1	7·2	7·2	115

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	23	8·1	2·5	091
12·0	22	7·9	4·2	122
14·1	20	9·1	6·3	079
16·2	14	15·0	13·1	086
18·0	7	13·5	12·3	084
21·0	2	16·0	15·9	087

PORT BLAIR

0530 hrs.*

Ht. in Km.	n	V	v	D
10·5	17	19.3	18.7	075
12·0	9	25·0	24·1	078
14·1	6	33·5	33·0	085
16·2	4	29·8	29·7	091

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	15	18·0	17·4	074
12·0	9	24·2	23·7	065
14·1	1	24·2	24·2	060
16·2	1	32·4	32·4	090

SANTA CRUZ

0530 hrs.*

Ht. in Km.	n	V	v	D
10·5	17	11·5	11·3	083
12·0	10	16·2	15·4	083
14·1	3	28·9	28·6	090
16·2	1	33·9	33·9	095

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	21	11·5	11·2	080
12·0	11	18·8	18·6	089
14·1	10	31·3	30·7	090
16·2	5	32·5	31·8	079
18·0	2	32·1	31·9	088

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

AUGUST 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Ht. in Km.	n	V	v	D
		TRIVANDRUM		
		0530 hrs.*		
10·5	20	17·0	16·1	102
12·0	15	31·2	30·8	090
14·1	10	39·1	38·9	087
16·2	5	39·8	39·6	077
18·0	1	28·3	28·3	090
		1130 hrs.		
10·5	1	22·1	22·1	090
12·0	1	29·8	29·8	095
		1730 hrs.*		
10.5	19	18·4	18·0	101
12·0	18	29·4	29·0	091
14·1	11	31·1	30·9	089
16·2	3	30·5	28·0	110
18·0	1	11·8	11·8	090
		VERAVAL		
		0530 hrs.*		
10·5	10	11·4	6·4	102
12·0	6	14·4	14·2	086
14·1	5	16·6	16·0	089
		1730 hrs.*		
10·5	9	11·0	10·5	087
12·0	5	13·7	12·9	090
14·1	3	17·7	17·7	087
16·2	2	20·6	20·4	110
18·0	1	19·6	19·6	095
		VISAKHAPATNAM		
		0530 hrs.*		
10·5	23	6·7	6·1	097
12·0	18	12·2	11·7	080
14·1	17	15·9	15·2	082
16·2	8	18·6	18·3	079
18·0	5	24·2	23·8	096
21·0	1	26·7	26·7	100

Ht. in Km.	n	V	v	D
		VISAKHAPATNAM		
		1730 hrs.*		
10·5	24	10·6	9·4	092
12·0	19	14·1	13·5	087
14·1	14	19·9	19·3	080
16·2	10	24·0	23·5	085
18·0	7	24·4	23·4	086
21·0	3	21·3	21·0	090

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad	Clock type	1st October 1944	00 and 12	
2	Bombay	Clock type	7th September 1954	00 and 12	
3	Calcutta	Clock type	13th December 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
4	Gauhati	Clock type	22nd July 1955	00 and 12	
5	Gwalior	Clock type	28th June 1960	00 and 12	
6	Jodhpur	Clock type	17th April 1946	00 and 12	
7	Madras	Fan type	29th June 1946	00 and 12	
8	Nagpur	Fan type	1st October 1946	00 and 12	
9	New Delhi	Clock type	3rd December 1943	00 and 12	
10	Port Blair	Fan type	4th December 1949	00 and 12	
11	Trivandrum	Fan type	1st July 1947	00 and 12	
12	Veraval	Fan type	3rd October 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From ascents at 00 hrs. G. M. T.

AUGUST 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Standard Pressure surface mbs.	ALLAHABAD Surf. Pr. (987 mb.)						BOMBAY (1003 mb.)						CALCUTTA (998 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	98	300·0	302	299	298·7	31	13	298·9	300	297	296·8	30	06	300·7	303	299	299·1
1000	29	—17	...	...	...	...	31	36	...	...	...	...	30	—9	...	...	...	...
900	29	913	296·8	300	294	294·2	31	959	293·5	297	290	291·3	30	918	295·5	299	293	293·0
850	29	1412	294·4	297	292	291·3	31	1452	290·6	293	288	288·7	30	1414	292·9	295	290	290·5
800	29	1936	291·7	294	289	288·8	31	1970	287·9	291	284	285·6	30	1936	290·3	293	281	287·6
700	29	3075	282·6	289	284	282·9	31	3093	284·5	288	281	278·5	30	3067	285·0	287	281	281·5
600	29	4362	280·3	283	278	275·4	31	4366	277·6	280	273	272·7	29	4346	279·0	281	275	274·4
500	29	5844	272·9	275	270	264·8	31	5833	270·2	273	267	..	29	5820	271·5	276	268	270·0
400	29	7600	263·9	269	260	...	31	7573	260·9	265	258	...	28	7570	262·4	267	258	...
300	27	9769	250·3	255	245	...	28	9720	247·4	254	242	...	17	9738	248·8	253	245	...
250	25	11086	241·6	246	236	...	25	11022	239·2	250	233	...	16	11046	239·6	243	236	...
200	20	12631	230·3	236	221	...	20	12555	228·4	238	223	...	10	12578	227·7	232	223	...
175	20	13522	223·7	230	212	...	17	13422	221·8	233	216	...	7	13476	222·6	226	221	...
150	19	14513	217·1	225	204	...	16	14427	215·3	230	209	...	6	14480	216·2	221	214	...
125	16	15680	209·8	220	197	...	15	15545	208·2	225	202	...	...	...	...	...	...	...
100	11	17060	205·3	214	197	...	11	16898	202·5	221	196	...	...	...	...	...	...	...
80	8	18425	207·9	216	204	...	7	18264	203·1	218	195	...	...	...	...	...	...	...

Standard Pressure surface mbs.	GAUHATI (996 mb.)						GWALIOR (975 mb.)						JODHPUR (975 mb.)					
Surface	31	49	300·7	303	299	299·5	31	203	300·6	303	298	298·0	31	218	299·7	303	298	295·9
1000	31	10	...	...	...	...	31	—25	...	...	...	...	31	—5	...	...	...	...
900	31	940	296·4	298	294	294·8	31	907	297·3	301	295	294·8	31	925	296·4	299	294	292·9
850	31	1437	293·7	296	291	291·9	31	1407	295·0	299	293	292·5	31	1424	294·4	298	291	290·5
800	31	1960	290·9	294	289	289·0	31	1932	292·3	296	289	290·0	31	1950	292·8	296	290	287·5
700	31	3092	285·1	287	284	283·3	31	3071	286·8	291	283	283·7	31	3092	287·9	291	285	280·0
600	31	4369	278·6	281	277	276·1	30	4360	280·9	285	278	276·7	31	4382	280·2	284	278	271·7
500	31	5840	270·7	273	269	...	30	5847	273·6	277	270	267·9	31	5861	272·1	275	268	266·1
400	31	7585	261·7	268	259	...	30	7611	264·6	269	260	...	30	7616	263·8	267	261	...
300	29	9741	248·8	254	243	...	27	9790	251·9	259	244	...	26	9789	250·7	255	246	...
250	28	11049	240·4	245	236	...	25	11112	243·2	252	237	...	24	11106	241·6	249	237	...
200	25	12587	229·4	233	225	...	23	12667	232·8	240	227	...	20	12647	229·7	233	224	...
175	19	13466	221·9	227	216	...	21	13566	226·3	234	220	...	19	13535	223·1	232	215	...
150	17	14448	214·8	221	209	...	18	14579	219·8	228	213	...	17	14530	215·5	223	209	...
125	14	15563	207·4	211	202	...	14	15716	212·1	222	204	...	16	15686	206·8	217	200	...
100	11	16884	201·5	205	195	...	9	17107	204·2	216	197	...	11	17033	201·5	212	195	...
80	9	18203	202·3	207	198	...	...	...	...	...	...	...	7	18394	200·7	208	194	...

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From ascents at 00 hrs. G. M. T.

August 1960 (Sravana 10—Bhadra 9, 1882 Saka)

Standard pressure surface mbs.	MADRAS Surf. Pr. (1003 mb.)						NAGPUR (966 mb.)						NEW DELHI (975 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	15	301·0	304	297	294·5	31	311	296·9	298	296	295·6	31	210	299·9	302	298	298·9
1000	31	43	...	...	...	...	31	10	...	...	...	...	31	—16	...	...	...	...
900	31	970	295·7	298	293	288·7	31	933	294·5	297	293	291·7	31	916	297·5	300	295	295·4
850	31	1466	292·7	296	290	286·5	31	1428	291·9	295	289	288·9	31	1416	294·8	298	292	292·7
800	31	1985	289·4	294	285	284·0	31	1949	289·4	292	284	286·4	31	1942	291·8	294	289	289·5
700	31	3109	282·2	285	277	277·8	31	3078	283·5	287	279	280·6	31	3079	285·7	288	281	283·4
600	31	4370	275·0	280	272	270.8	31	4351	277·3	280	273	274·3	31	4362	279·8	282	275	274·6
500	31	5820	267·3	271	259	...	31	5819	269·8	273	265	...	30	5842	271·9	274	269	268·7
400	31	7534	256.6	265	249	...	31	7551	259·7	266	255	...	30	7592	262·5	265	260	...
300	28	9631	241·1	249	230	...	29	9684	246·1	254	238	...	26	9754	249·4	253	245	...
250	23	10898	232·8	241	224	...	28	10963	235·6	245	227	...	25	11065	240·8	249	237	...
200	20	12390	220·6	232	207	...	28	12459	223·2	237	212	...	24	12598	228·0	232	223	...
175	14	13218	212·4	225	201	...	26	13334	216·9	230	207	...	23	13473	220·7	225	216	...
150	12	14192	207·7	218	198	...	26	14296	209·5	224	198	...	23	14450	212·9	217	207	...
125	10	15320	204·1	211	198	...	24	15407	205·2	218	197	...	22	15561	205·1	210	198	...
100	7	16687	203·3	210	194	...	21	16722	201·7	213	193	...	18	16884	199·2	205	195	...
80	...	...	...	...	...	...	19	18177	204·2	213	197	...	10	18186	199·1	203	194	...

	PORT BLAIR (997 mb.)						TRIVANDRUM (1001 mb.)						VERAVAL (1002 mb.)					
Surface	31	79	298·8	300	297	297·1	30	64	297·1	298	296	295·7	29	8	299·0	300	298	298·1
1000	31	56	...	...	...	...	30	74	...	...	...	...	29	21	...	...	...	...
900	31	979	294·3	296	291	292·0	30	992	292·0	295	289	288·7	29	940	292·4	296	289	289·8
850	31	1473	291·6	294	287	288·3	30	1482	289·3	293	285	285·2	29	1430	289·4	293	283	286·7
800	31	1992	288·6	292	283	285·7	30	1997	286·9	290	284	282·1	29	1946	287·4	291	283	284·0
700	31	3117	283·5	289	279	277·8	30	3114	281·7	287	278	274·0	29	3072	284·2	292	277	276·7
600	31	4386	276·5	285	271	269·6	30	4374	274·1	278	268	266·3	29	4346	277·3	286	273	271·3
500	30	5843	268·6	273	264	...	30	5820	265·5	272	261	...	29	5806	268·3	274	263	...
400	30	7568	258·3	264	252	...	29	7523	255·0	265	248	...	29	7530	257·9	265	251	...
300	27	9678	242·6	252	228	...	26	9604	238·7	246	233	...	19	9652	244·1	252	239	...
250	18	10925	233·2	240	226	...	26	10853	228·1	235	223	...	11	10927	233·5	241	227	...
200	14	12411	219·4	231	207	...	26	12309	217·1	225	209	...	10	12428	222·8	234	215	...
175	12	13343	212·0	225	202	...	25	13142	210·7	221	202	...	10	13283	216·3	230	206	...
150	12	14206	206·2	219	193	...	25	14083	204·0	217	194	...	10	14240	209.6	222	199	...
125	7	15280	202·8	207	200	...	19	15156	200·6	209	195	...	9	15309	202·9	211	195	...
100	...	...	...	...	...	...	17	16467	198·9	205	193	...	7	16657	198·3	203	193	...
80	...	...	...	...	...	...	10	17816	203·0	213	195	...	5	17931	203·8	208	199	...

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From ascents at 00 hrs. G. M. T.

AUGUST 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (996 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	29	48	300.8	302	299	296.6
1000	29	13	...	...	...	...
900	29	945	296.2	299	292	291.4
850	29	1443	293.0	295	288	289.0
800	29	1967	289·3	293	286	286.6
700	29	3091	282.8	289	277	280.2
600	29	4358	276.3	285	269	273.9
500	29	5818	268.6	273	261	...
400	29	7541	257.2	263	250	...
300	24	9662	242.6	248	228	...
250	21	10942	232.7	238	217	...
200	19	12442	221.6	231	202	...
175	18	13285	215.2	226	197	...
150	18	14256	208.1	222	192	...
125	14	15317	201.9	209	193	...
100	11	16698	197.8	206	186	...
80	5	18033	200.8	204	199	...

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From ascents at 12 hrs. G. M. T.

AUGUST 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Standard pressure surface mbs.	ALLAHABAD Surf. Pr. (986 mb.)						BOMBAY (1003 mb.)						CALCUTTA (996 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	98	302·8	306	299	299·2	31	13	300·5	303	298	297·1	31	6	302·8	306	299	299·1
1000	30	—32	...	...	...	...	31	38	...	...	...	...	31	—28	...	...	...	...
900	30	906	298·2	301	295	295·3	31	963	294·3	297	291	292·2	31	904	296·7	299	294	293·5
850	30	1408	295·4	299	292	292·5	31	1457	291·4	294	289	289·5	31	1401	294·0	296	291	290·5
800	30	1933	292·4	296	289	289·5	31	1976	288·8	292	286	286·8	31	1924	291·4	294	287	287·6
700	30	3075	287·3	290	284	283·3	31	3103	284·7	287	280	279·4	31	3059	286·2	289	281	281·5
600	30	4366	281·2	285	275	275·6	29	4383	278·6	284	275	274·1	31	4343	280·0	283	276	275·0
500	30	5852	273·3	276	265	268·1	29	5854	271·0	277	267	...	31	5823	272·2	276	269	267·6
400	30	7609	263·6	266	259	...	29	7601	262·2	269	259	...	31	7575	262·6	267	260	...
300	28	9783	250·4	256	245	...	24	9760	249·2	254	244	...	19	9739	249·3	258	242	...
250	27	11100	241·7	249	236	...	21	11060	240·0	246	233	...	16	11046	240·1	244	233	...
200	26	12649	230·6	239	224	...	18	12594	229·2	237	222	...	16	12579	228·5	233	219	...
175	22	13543	224·0	233	217	...	17	13477	223·7	233	215	...	15	13456	220·8	226	211	...
150	19	14538	216·9	227	208	...	14	14432	215·7	221	209	..	15	14442	213·5	221	203	...
125	17	15657	208·2	222	200	...	11	15564	208·5	214	201	...	11	15585	206·6	213	196	...
100	14	17007	202·7	215	193	...	8	16895	202·4	207	195	...	10	16921	199·4	204	193	...
80	10	18342	202·7	208	195	...	...	...	...	...	...	...	8	18263	199·5	207	195	...

Standard pressure surface mbs.	GAUHATI (993 mb.)						GWALIOR (974 mb.)						JODHPUR (974 mb.)					
Surface	31	49	303·4	306	301	300·6	31	203	302·2	305	299	299·1	31	218	305·7	311	300	296·5
1000	31	—17	...	...	...	...	31	—34	...	...	...	...	31	—21	...	...	...	...
900	31	920	298·1	302	295	295·9	31	901	298·5	305	295	295·4	31	925	299·0	304	295	293·4
850	31	1421	295·5	298	293	293·0	31	1403	295·7	301	293	292·6	31	1428	295·5	299	292	290·7
800	31	1947	292·5	295	290	289·9	31	1930	292·8	296	290	289·0	31	1954	292·7	297	289	288·3
700	31	3086	286·8	290	284	283·9	31	3071	287·5	291	284	283·2	31	3098	287·5	291	283	281·1
600	31	4371	280·1	283	277	276·9	31	4358	281·7	285	279	275·9	30	4389	280·8	284	277	273·2
500	31	5851	272·2	276	270	270·5	31	5850	274·1	277	271	269·1	29	5873	272·7	276	268	266·8
400	31	7605	262·9	267	260	...	31	7616	264·6	269	261	...	28	7627	263·8	267	258	...
300	27	9769	249·5	254	247	...	30	9798	251·9	259	247	...	25	9806	251·2	256	246	...
250	26	11078	240·3	245	233	...	28	11124	243·0	251	236	...	21	11123	241·6	246	234	...
200	26	12614	228·9	234	224	...	27	12683	232·0	244	227	...	17	12683	230·8	237	226	...
175	23	13483	221·6	228	215	...	26	13574	225·6	241	218	...	16	13571	224·3	229	219	...
150	23	14472	214·5	220	205	...	24	14574	219·5	237	211	...	15	14575	216·5	221	211	...
125	15	15562	206·9	214	202	...	22	15743	211·9	233	203	...	12	15676	207·8	214	200	...
100	13	16909	201·5	211	197	...	21	17115	205·0	228	193	...	9	17029	202·9	209	195	...
80	6	18211	201·2	207	195	...	14	18445	203·9	221	190	...	7	18407	204·0	212	196	...

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From ascents at 12 hrs. G. M. T.

August 1960 (Sravana 10—Bhadra 9, 1882 Saka)

Standard pressure surface mbs.	MADRAS Surf. Pr. (1001 mb.)						NAGPUR (965 mb.)						NEW DELHI (974 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	15	305·4	309	301	296·4	31	311	301·3	305	298	296·0	31	210	303·5	308	299	299·5
1000	31	24	...	...	...	...	31	−5	...	...	...	...	31	−29	...	...	...	...
900	31	963	297·9	301	292	290·6	31	928	296·6	301	293	292·2	31	909	298·8	302	295	295·3
850	31	1462	293·8	297	289	288·1	31	1426	293·1	296	291	289·6	31	1411	295·8	299	293	292·3
800	31	1983	289·6	293	286	285·9	31	1949	290·0	294	286	287·6	31	1938	292·8	296	289	289·2
700	31	3107	282·4	289	278	280·0	31	3081	284·4	288	280	281·7	31	3079	287·4	293	284	282·7
600	31	4369	275·1	278	271	271·9	31	4361	278·5	282	272	274·8	31	4369	281·0	285	278	274·5
500	31	5823	268·0	271	264	...	30	5835	271·3	279	268	268·2	30	5855	273·1	277	266	265·8
400	30	7539	256·7	262	250	...	30	7576	260·4	267	253	...	30	7613	263·7	267	256	...
300	26	9644	241·8	249	227	...	27	9718	246·2	256	239	...	28	9786	250·3	254	247	...
250	18	10929	233·0	239	227	...	27	11011	235·4	250	228	...	24	11091	240·6	244	236	...
200	15	12417	220·9	228	214	...	26	12497	222·6	230	216	...	24	12629	229·6	241	223	...
175	13	13253	214·2	225	207	...	26	13344	215·2	224	209	...	23	13506	221·7	225	215	...
150	13	14226	208·5	218	200	...	25	14313	207·6	218	200	...	21	14495	213·5	218	209	...
125	9	15380	205·6	213	196	...	25	15395	201·3	214	193	...	21	15611	205·3	210	200	...
100	8	16735	202·3	206	198	...	22	16739	198·4	210	193	...	17	16934	198·3	203	193	...
80	...	...	...	...	...	...	15	18079	199·3	216	191	...	12	18241	199·2	210	192	...

	PORT BLAIR (996 mb.)						TRIVANDRUM (1000 mb.)						VERAVAL (1002 mb.)					
Surface	31	79	300·2	302	296	297·8	31	64	300·5	302	297	296·0	30	8	299·9	302	298	298·6
1000	31	47	...	...	...	...	31	64	...	...	...	...	30	25	...	...	...	...
900	31	972	294·2	301	289	291·2	31	986	293·5	297	289	288·3	30	947	292·5	296	289	289·9
850	31	1465	291·7	301	287	287·8	31	1481	290·2	293	285	284·8	30	1438	289·9	293	285	287·5
800	31	1984	288·9	296	286	284·9	31	1998	288·1	291	285	281·0	30	1958	287·8	293	282	284·0
700	31	3108	282·9	291	278	277·8	31	3120	282·8	287	279	275·0	30	3083	284·9	291	276	277·1
600	31	4375	276·4	283	270	269·8	31	4385	275·6	281	272	267·2	30	4358	277·4	281	273	272·1
500	31	5833	268.8	280	265	...	31	5839	267·7	273	263	...	30	5818	269·5	275	264	265·3
400	31	7556	258·2	267	253	...	31	7555	256·2	262	250	...	29	7553	258·1	262	251	...
300	22	9679	244·1	260	235	...	28	9663	240·8	250	235	...	18	9669	245·1	251	234	...
250	14	10943	234·1	243	227	...	26	10921	230·3	241	221	...	10	11000	235·8	245	228	...
200	10	12421	218·9	227	209	...	25	12387	218·2	229	209	...	8	12496	223·0	231	215	...
175	7	13281	212·4	221	203	...	24	13213	211·2	225	201	...	6	13323	215·3	221	207	...
150	7	14259	206·8	215	198	...	23	14166	205·1	221	198	...	6	14282	207·3	214	202	...
125	5	15366	204·6	209	196	...	21	15251	201·3	215	194	...	5	15340	200·1	205	196	...
100	...	...	...	...	...	...	18	16592	202·0	212	195	...	...	...	...	...	...	...
80	...	...	...	...	...	...	14	17925	205·4	215	195	...	...	...	...	...	...	...

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From ascents at 12 hrs. G. M. T.

AUGUST 1960 (SRAVANA 10—BHADRA 9, 1882 SAKA)

Standard pressure surface mbs.	VISAKHAPATNAM Surf. Pr. (994 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point
Surface	31	48	303·0	307	299	297·3
1000	31	−2	...	...	...	...
900	31	934	297·2	301	293	291·4
850	31	1433	293·6	297	291	289·0
800	31	1956	290·3	293	287	286·3
700	31	3086	284·0	287	280	280·2
600	30	4358	277·0	284	271	274·0
500	29	5820	269·1	273	264	...
400	29	7547	258·3	262	255	...
300	26	9670	244·3	250	237	...
250	22	10949	234·0	240	225	...
200	19	12435	221·4	231	211	...
175	16	13271	214·4	225	203	...
150	16	14238	207·1	219	193	...
125	14	15330	202·4	209	195	...
100	13	16681	200·5	211	191	...
80	10	18025	200·2	212	192	...

NOTE—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273° A.

Means are not worked out for less than five observations at standard pressure surfaces.

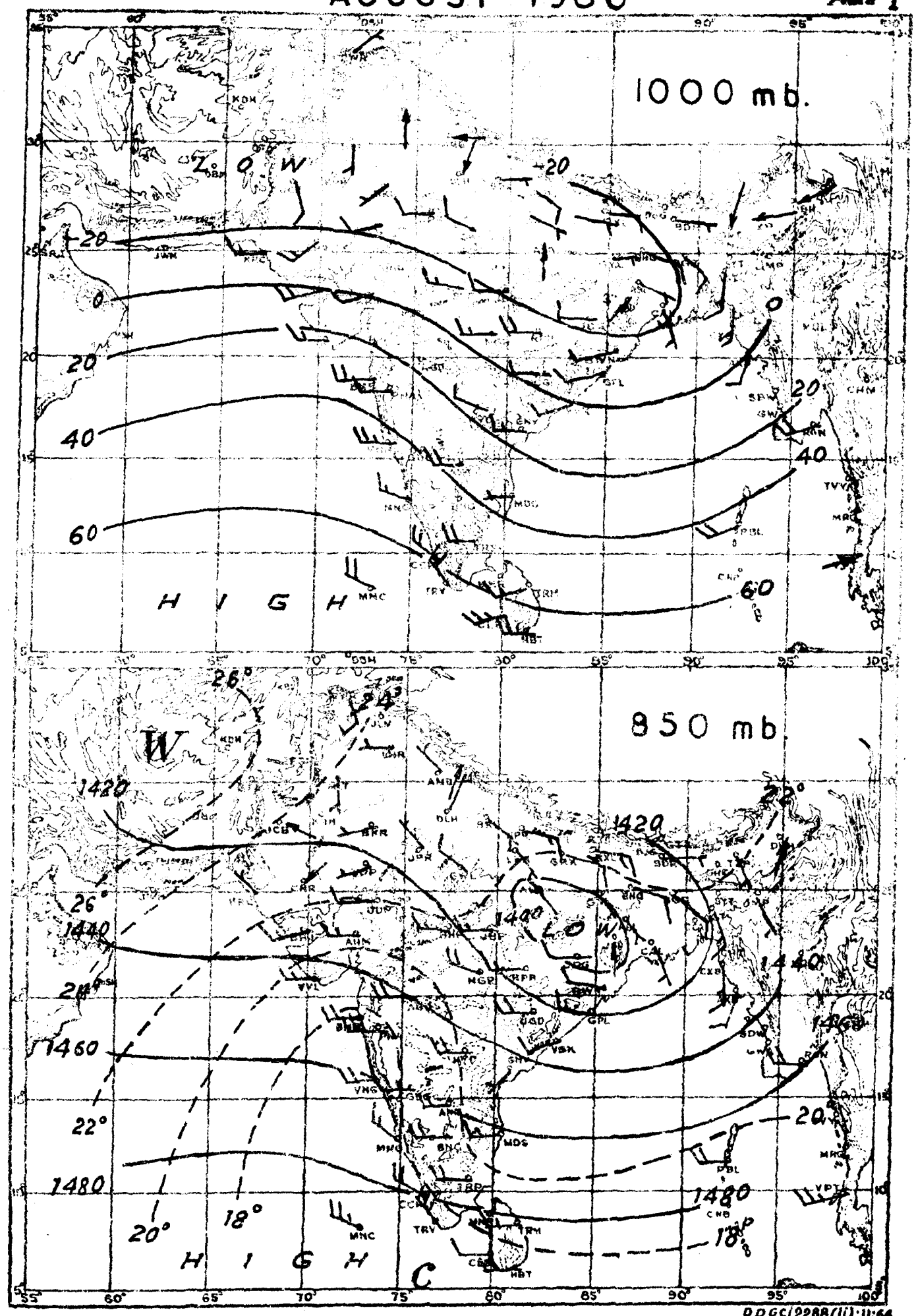
GIPN—S2—2 DDG obs. Poona/65—6-7-65—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I. Met. D.

AUGUST 1960

Plate I



DDGC/2288(ii):11:64

RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

--------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

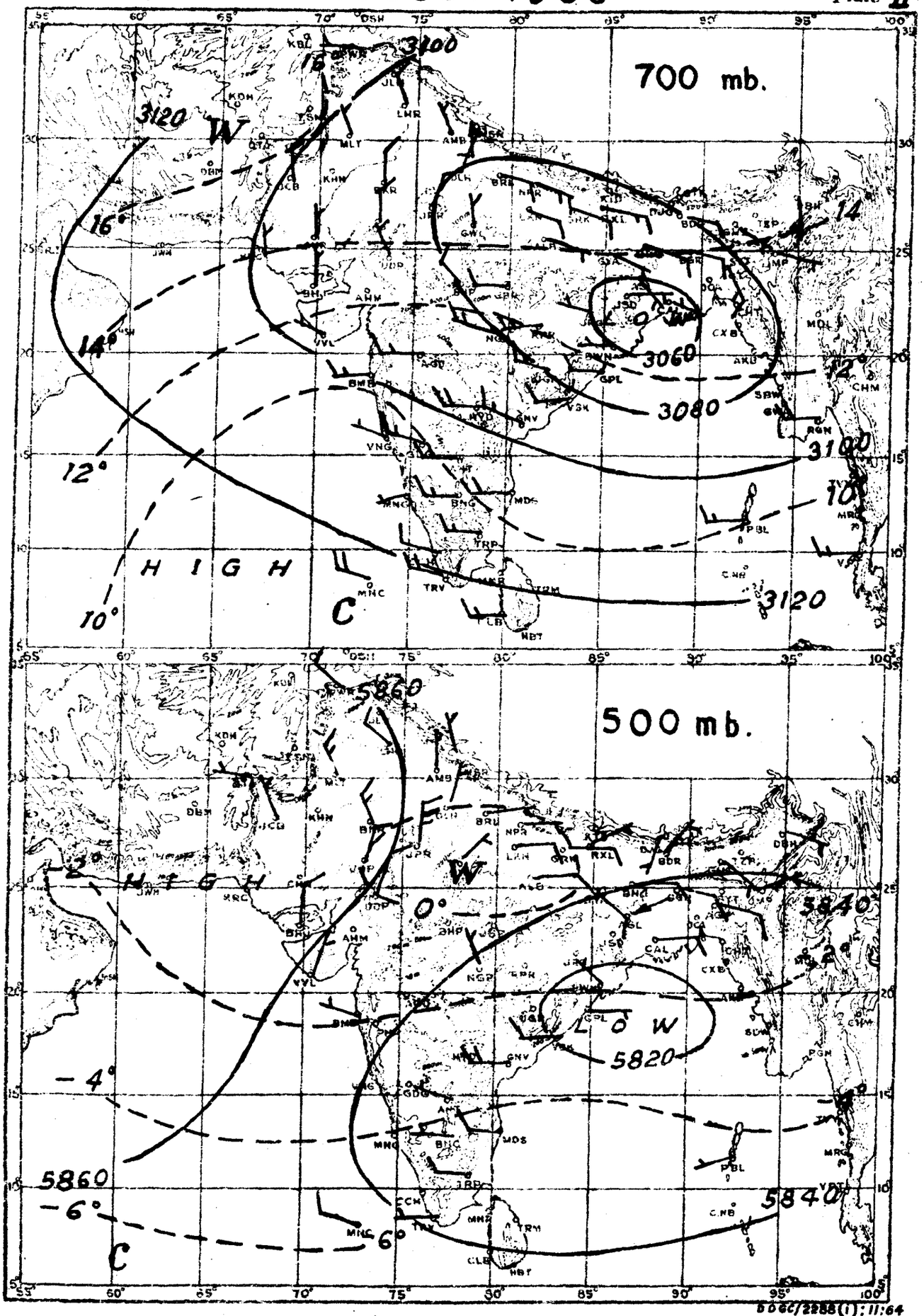
G.P.Z.P. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

AUGUST 1960

Plate II



D.O.C./2288(1):11:64

RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

- - - - - Isotherms in degrees centigrade ———— Contours in geopotential metres.

G.P.P. POONA - 1555

Registered No. B-3097

INDIA WEATHER REVIEW, 1960

Monthly Weather Report

SEPTEMBER

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U. S. Dept. of Commerce

Published by authority of the Government of India

Chief features :—

(i) Alternate spells of active and weak monsoon conditions over the different parts of the country and

(ii) Withdrawal of monsoon from northwest India, Uttar Pradesh and northwest Madhya Pradesh.

At the beginning of the month the activity of the monsoon was confined to the belt extending from the Punjab(I) to Assam. Cherrapunji reported 24 cm, 20 cm and 21 cm on 2nd, 3rd and 4th respectively. Sabour reported 16 cm on 1st, Forbesganj 22 cm and Kheri Lakhimpur 19 cm on 2nd and Nainital 17 cm on 3rd. The heavy rains in the Punjab-Kumaon hills and Himachal Pradesh aggravated the flood situation in the Punjab[I]. Over forty thousand residents of Rohtak had to abandon their homes due to floods in the city.

Under the influence of an upper air cyclonic circulation over the north and adjoning central Bay of Bengal between 4th and 8th, there was a revival of rains in the Peninsula. With the northward shift of this circulation and the movement of an easterly wave, an elongated low formed extending from southeast Madhya Pradesh to Bihar Plateau. In association with the intensification and movement of this low which broke up over the Nepal Himalayas by 13th, Monsoon was active in Orissa, West Bengal, Bihar State and east Madhya Pradesh on 9th and 10th and in Uttar Pradesh from 10th to 12th. Malda reported 10 cm on 9th, Hardoi 21 cm on 11th and Bareilly 12 cm on each of the two days 11th and 12th. The heavy rains led to floods in Uttar Pradesh and Bihar. The monsoon withdrew from northwest India and west Uttar Pradesh by 20th and from east Uttar Pradesh and northwest Madhya Pradesh by 21st.

Active to vigorous monsoon conditions prevailed over Assam and Sub-Himalayan West Bengal from 13th to 16th. The chief amounts of rainfall reported were : Cherrapunji 21 cm and Jalpaiguri 13 cm on 13th, Pasighat 22 cm and Shillong 20 cm on 14th and Cherrapunji 49 cm and Dhubri 26 cm on 15th. According to press reports, Brahmaputra and its tributaries in Assam were in spate, affecting about four lakhs of people.

An easterly wave moved across the south Peninsula between 13th and 15th. A low pressure area formed over the west central Bay of Bengal and adjoning coastal Andhra Pradesh on 17th and persisted there till 20th. In association with these systems, fairly widespread rain fell in the south Madras State on 13th and 14th and in most parts of Kerala, Mysore State and Andhra Pradesh between 15th and 20th.

Under the influence of a low pressure wave which moved from the central Burma, a well marked low pressure area formed over the central and the adjoining south Bay of Bengal on 21st. Moving in a northwesterly direction, it concentrated into a depression with centre near Lat. 20°N and Long. 88°E on the evening of 24th. The depression crossed the Orissa coast between Chandbali and Balasore the same night and was centred about 100 km. southwest of Balasore by the next morning. Thereafter, it weakened into a low pressure area which moved northwestwards and broke up over the Nepal Himalayas by the 28th. This disturbance caused locally heavy to very heavy rain in West Bengal and Bihar State on 27th and 28th. A few noteworthy amounts of rainfall reported were : Jamui 18 cm, Darbhanga 17 cm and Patna 16 cm on 27th and Forbesganj 22 cm, Dhubri 20 cm and Jalpaiguri and Darjeeling 17 cm each on 28th. The heavy rains were reported to have led to flooding of rivers in Bihar.

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1—3 D D. G. Obs. Poona/65.

The rainfall for the month was in large excess in Sub-Himalayan West Bengal, Bihar Plains, Andhra Pardesh, coastal and north Interior Mysore, Kerala and the Arabian Sea Islands, in moderate excess in west Uttar Pradesh, in slight excess in the Madras State and normal in the Bay Islands, Assam, Gangetic West Bengal, Orissa, Bihar Plateau and Deccan (including Marathwada) and south Interior Mysore. It was in slight defect in east Uttar Pradesh, in moderate defect in east Gujarat State, the Konkan and Vidarbha and in large defect over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Rajasthan, Madhya Pradesh, Gujarat State and Vidarbha, below normal in Sub-Himalayan West Bengal and Rayalaseema and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in west Rajasthan, below normal in Rayalaseema and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in Rayalaseema and Interior Mysore State, below normal in Jammu and Kashmir and west Rajasthan and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in Assam, Sub-Himalayan West Bengal, the Madras State, coastal and north Interior Mysore and Kerala, below normal in the Punjab (I), Jammu and Kashmir and east Rajasthan and normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, relative humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying table is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column. Similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,
Dated the 1st April, 1961.

R. ANANTHAKRISHNAN,
for *Director General of Observatories*.

Errata to M.W.R. for September 1960 (Bhadra 10 - Asvina 8, 1882 Saka)

Page No.	Station	Hour	Column	For	Read
Table I - Sub-division					
457	16. Madhya Pradesh (East)		6	10	0
Table II					
458	Maya Bandar		10	267.5	267.6
458	Dibrugarh		8	20.	20.7
458	Gohpur		10	63.0	63.9
458	Burdwan		16	+17.6	+1.7
459	Gorakhpur		16	-0.7	+0.7
459	Gorakhpur		27	(Blank)	0
459	Varanasi (Banaras)		16	+0.7	-0.7
459	(Foot Note)		-	(Not given)	(b) Total or Mean of 29 days.
460	Bareilly		20(a)	(Blank)	1
460	Dras		12	77.5	-77.5
461	Jamnagar		3	-1.7	+1.7
461	Surendranagar		14	(Blank)	11
461	Surendranagar		23	3	2
462	Devgad		12	187.0	-187.0
462	Rentachintala		7	+0.4	-0.4
462	Mahabubnagar		2	32.0	30.2
463	Fort Cochin		16	+12.3	+11.3
464	Abu		10	24.3	24.8
464	Coonoor		16	1.0	-1.0
464	Mannar		2	20.3	30.3
Table III					
466	Long Island	0830	3	24	25
466	Digboi	0830	21	(Blank)	4
466	Dibrugarh (Mohanbari Aerodrome)	0230	19	(Blank)	0
467	Goalpara	1730	13	2.5	5.5
467	Agartala	1730	4	1002.0	1002.7
467	Agartala	2330	4	1006.0	1005.0
467	Silchar	1730	10	33.2	33.2
468	Cuttack	0830	18	(Blank)	3
469	Bolangir	0830	15	1.8	8.8
469	Dumka	1730	5	945.4	985.4
470	Varanasi (Banaras)	0830	12	27	+7
470	Varanasi (Banaras) (Babatpur Aerodrome)	1730	5	997.8	992.8
470	Allahabad (Bamrauli)	0530	4	1004.2	1003.2
470	Allahabad (Bamrauli)	0830	12	2	-2
470	Faizabad	0830	11	72	82
470	Banda	1730	5	997.8	987.8
473	Bilaspur	0830	5	951.1	951.0
473	Srinagar	0830	12	9	-9
473	Srinagar (Aerodrome)	0530	13	2.5	2.1
473	Srinagar (Aerodrome)	1730	4	143.8	1438.4
473	Sri Ganganagar	1130	10	12.8	21.8
473	Barmer	1130	27	(Blank)	0
473	Barmer	1730	26	(Blank)	3
473	Barmer	2330	26	(Blank)	3
474	Dholpur	0830	10	25.4	28.4
474	Erinpura (Jawai Dam)	1730	7	32.2	32.0
474	Erinpura (Jawai Dam)	1730	27	8	6
474	Sawapurkalan	0830	28	0	1
474	Rajgarh	1730	13	(Not clear)	3.8
474	Ratlam	0830	28	3	0
475	Umaria	0830	14	-0.1	-1.0
475	Pendra	0830	6	..	-0.4
476	Jagdalpur	0830	14	+17.2	+1.7
476	Jagdalpur	1730	21	0	6

Contd.2

Page No.	Station	Hour	Column	For	Read
476	Jagdalpur	2330	21	0	1
476	Mandvi	0830	6	-0.4	..
476	Mandvi	0830	9	25.6	24.6
476	Dwarka	0830	6	..	-0.4
476	Dwarka	1730	9	24.6	25.6
477	Bombay (Colaba)	0830	8	5.1	25.1
478	Aurangabad (Chikalthana Aerodrome)	1730	4	1012.4	1002.4
480	Hakimpet	1730	11	22	72
480	Hanamkonda	0830	6	-0.1	-1.0
480	Hanamkonda	1730	5	972.9	972.5
480	Khammameth	1730	13	2.2	7.2
480	Tuticorin	0830	4	1003.4	1008.4
480	Mathurai (Aerodrome)	0530	28	1	0
480	Coimbatore (Peelamedu Aerodrome)	1130	5	963.1	963.4
481	Cuddalore	1730	11	82	72
481	Vellore	1130	10	25.8	25.9
481	Mangalore (Bajpe Aerodrome)	0830	7	24.0	24.1
481	Gulbarga	0830	11	(Blank)	81
481	Gadag	1730	20	0	1
481	Raichur	0830	12	+	+7
483	Darjiling (Raj Bhavan)	0830	5	991.4	791.4
483	Darjiling (Raj Bhavan)	1730	5	983.7	788.7
483	Kalimpong	1730	17	4	0
483	Mukteswar (Kumaon)	0830	6	+0.1	-0.1
483	Kodaikanal	0830	25	8	6
483	Coonoor	0830	-	(Data printed against Nepal)	
483	Katmandu	1730	18,19	0,1	1,0
483	Trincomalee	0830	8	23.	23.6
484	Khijrawan	0830	2	0880	0830

Page No.	Station	Time in I.S.T	Height in Km.	Entry under column	Existing Entry	Correct Entry
Table IV						
489	Asansol	2330	4.5	v	2.7	5.1
489	Baghdogra	2330	4.5	v	3.0	3.1
491	Bhubaneshwar	0530	6.0	D	832	082
494	Gaya	2330	0.3	D	23[7]	137
494	Gopalpur	0530	7.2	v	3.0	3.1
495	Jaipur	0530	4.5	v	6.8	5.8
497	Mohanbari	0530	6.0	D	242	240
500	Trivandrum	0530*	1.5	V	13.0	13.4
500	Vengurla			Station	VENGULA	VENGURLA
502	Anantapur	1730	10.5	Ht. in. Km.	0.5	10.5
502	Bairagarh	0530		Time in I.S.T.	053 hrs.	0530 hrs.
503	New Delhi	1130	12.0	v	6.6	6.1
503	New Delhi	1730*	16.2	V	7.8	8.7
RADIOSONDE DATA						
508	Gwalior	1200 GMT 250 Mb.		Ht. in gpm	1169	11069.

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. IST	Relative humidity % 1730 hrs. IST	Cloud 0830 hrs. IST	Cloud 1730 hrs. IST
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	301.4	103	31.1	24.9	87	85	5.9	5.0
	+21.2		−0.1	+0.4	+2		+1.3	
2. West Bengal	399.6	133	31.7	25.7	86	83	5.7	5.6
	+99.2		−0.1	+0.2	+3		+0.6	
3. Orissa	251.4	109	32.3	25.8	84	81	5.6	6.4
	+20·5		+0·7	+0.3	+2		+0.6	
4. Bihar	279·9	133	31.5	24.8	84	81	5.4	5.4
	+69.6		0	+0·1	+3		+0.7	
5. Uttar Pradesh	156·2	80	33.1	24.9	79	71	2.6	3·7
	−29.1		+0.3	+0.7	+1		−0.4	
6. Punjab (India) (Including Delhi.)*	12·0	9	35 6	24.3	73	51	1.3	1.6
	−117.4		+0.9	+0.6	+2		−0.9	
7. Jammu and Kashmir.	3.6	10	25.1	9.3	55	37	1.8	2.5
	−31.6		+0.4	+0·7	−13		−0.7	
Sub-Division								
1. Bay Islands	486.5	110	28.8	24.0	88	92	7.0	7.4
	+44.5		+0.4	+0.8	+4		+0.8	
2. Assam (Including Manipur, Tripura).	301.4	108	31.1	24.9	87	85	5.9	5.0
	+21·2		−0.1	+0.4	+2		+1.3	
3. Sub-Himalayan West Bengal.	752·4	158	30.1	24.8	89	80	6.2	5.1
	+276·0		−1.3	−0.3	+5		+1.9	
4. Gangetic West Bengal.	248.5	110	32.2	26.0	85	84	5.6	5.8
	+23.4		+0.3	+0.3	+3		+0.2	
5. Orissa	251·4	109	32.3	25.8	84	81	5.6	6.4
	+20·5		+0.7	+0.3	+2		+0·6	
6. Bihar Plateau	214·.7	101	31.6	23.9	84	81	5.5	6.1
	+2·5		+0.6	0	+3		+0.7	
7. Bihar Plains	336.2	161	31.4	25.7	83	81	5.2	4 6
	+127·2		−0.6	+0.2	+4		+0.6	
8. Uttar Pradesh (East).	182·9	89	33.0	25.6	81	74	3.7	4.0
	−22·7		+0.1	+0.9	+1		−0·2	
9. Uttar Pradesh (West).	126.2	141	33.3	24.0	78	66	2.5	3.3
	+36.4		+0.6	+0.4	+1		−0.6	
10. Punjab (India) (Including Delhi).	12.0	9	35.6	24·3	73	51	1.3	1.6
	−117·4		+0.9	+0.6	+2		−0.9	
11. Himachal Pradesh.	127·7	..	31.8	20.1	79	59	2.3	2.9
	—		..	..	..		..	
12. Jammu and Kashmir.	3.6	10	25.1	9.3	55	37	1.8	2.5
	−31·6		+0.4	+0·7	−13		−0.7	
13. Rajasthan (West)	1.2	43	38.2	25.4	62	34	1.2	2.0
	−26.8		+2.2	+1.3	−6		−0.2	
14. Rajasthan (East)	19·8	18	33.7	23.7	68	49	2.4	3.6
	−91.2		+1.6	+0·5	−5		−0.7	
15. Madhya Pradesh (West).	50·9	27	32.2	22.6	78	60	4.2	4.8
	−138.9		+1.5	+0.3	−3		−0.1	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. IST	Relative humidity % 1730 hrs. IST	Cloud 0830 hrs. IST	Cloud 1730 hrs. IST
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	9·5	15	35.9	24.6	65	42	1.8	2.8
	−55.4		+1.9	+0.9	−6		−0.5	
9. Madhya Pradesh	66.8	32	31.9	22.9	80	65	4·6	5.4
	−141.3		+1.4	+0.4	−2		+0.1	
10. Maharashtra	143·9	70	31.5	23.2	85	70	5·4	5.5
	−60.3		+0.8	+0.3	+3		+0·3	
11. Andhra Pradesh	307.9	198	31.9	24.2	83	74	6.1	6.2
	+152.5		−0.7	−0.4	+6		+0.7	
12. Madras State	127·8	116	32.8	24.3	75	65	5.9	6.5
	+17.5		−0.6	0	+1		+1.7	
13. Mysore	300.8	165	28.7	21.0	89	72	6.8	6.8
	+118.1		−0·4	+0.4	+6		+1.3	
14. Kerala	399.7	235	28.5	23.2	90	84	6.7	6.8
	+229.4		−0.5	−0·5	+5		+1.4	
Sub-Division—*contd.*								
16. Madhya Pradesh (East).	89.5	38	31.5	23.4	82	72	5.2	6.1
	−144.8		+1.3	+0.7	10		+0·4	
17. Gujarat	76·2	56	33.4	23.9	82	58	4.5	3.7
	−60·7		+1.5	+0.2	+1		−0.3	
18. Saurashtra and Kutch.	23·3	34	33.2	24.1	86	71	4.1	3.8
	−44.7		+1.1	+0·3	+4		−0.1	
19. Konkan	220.3	58	29.5	24.3	88	82	6.4	6.7
	−159.4		+0.3	+0.1	+2		+0.3	
20. Maharashtra (including Marathwada)	198.8	97	30.5	21.1	86	69	5.8	6.2
	−6.9		+0.5	+0.5	+5		+0.6	
21. Vidarbha	127.6	70	32.7	23.4	80	67	5.5	6.4
	−55.0		+1.1	+0.1	0		+0.6	
22. Coastal Andhra Pradesh.	280.4	188	32.1	25.3	83	77	6.0	6.2
	+131.3		−0.9	−0.2	+5		+0.6	
23. Telangana	285·9	163	31.1	23.2	83	70	5.9	6.3
	+110·9		+0.5	+0.7	+5		+0.8	
24. Rayalaseema	377.5	244	31.8	21.9	82	69	6.3	6.0
	+222.8		−1.4	−2.1	+9		+0.9	
25. Madras State	127.8	116	32.8	24.3	75	65	5·9	6.5
	+17.5		−0·6	0	+1		+1.7	
26. Coastal Mysore	541.4	169	28.5	22.9	93	85	7.3	6.9
	+220.6		−0.5	−0.5	+3		+1.3	
27. Interior Mysore (North).	338.6	215	29.8	21.4	87	70	6.6	7.0
	+181·4		−0.2	+0.5	+6		+1.7	
28. Interior Mysore (South).	142.6	103	27.7	20.0	89	69	6.8	6.6
	+3.5		−0.7	+0.5	+7		+1.0	
29. Kerala	399.7	235	28.5	23.2	90	84	6.7	6.8
	+229.4		−0·5	−0.5	+5		+1.4	
30. Arabian Sea Islands.	222·7	212	29.4	24·5	82	80	4.7	6.3
	+117.5		−0.2	−0.7	+2		+0.1	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.
*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 2.0 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29	
Bay Islands																														
Maya Bandar	29·3	..	31 4	12	24·1	..	21·0	16	267·5	349·6	..	42.4	7	20	..	11·0	8·4	..	0	25	0	0	2	0	0	0	0	0	0	
Long Island	30·1	.	31·7	11	24·3	..	22·6	16	154.6	331·7	..	48·4	22	22	..	1·6	1.0	..	0	22	0	0	2	0	0	0	0	0	0	
Port Blair	28·8	+0·4	30·4	15	24·0	+0·8	22·1	1	238·5	486·5	+44.5	70·8	1	24	+2·1	15.5	12.0	−4.7	0	30	0	0	1	0	0	0	0	0	0	
Car Nicobar	29·2	..	30·7	1	24·0	..	22·4	17	166·5	351·9	..	59·8	21	22	..	7.5	5.3	..	1	26	0	0	3	0	0	0	0	0	0	
Nancowry	29·0	..	30·6	11	24·2	..	22·4	3	259·3	668·3	..	95·2	19	23	..	..	..	..	0	25	0	0	0	0	0	0	0	0	0	
Kondul	28·5	..	29·5	1	23·8	..	22·5	17	266.2	631·2	..	108·4	20	23	..	10·1	8·1	..	0	29	0	0	3	0	0	0	0	0	0	
Assam (Including Manipur, Tripura)																														
Pasighat	30·4	..	34.4	9	23·1	..	20·4	16	339·4	1034·4	..	217·0	14	13	..	3.2	4·3	..	0	14	0	0	2	0	0	0	0	0	0	
Digboi	..	..	..	..	..	..	..	..	99·0	408·5	..	75·0	14	14	..	..	..	..	0	14	0	0	0	0	0	0	0	0	0	
Dibrugarh	31·0	+0·8	36·0	24	24·0	+0·4	20·	16	74·6	296·5	−55.3	60·1	15	14	−1·4	2·9	2·0	+0·6	3	17	0	0	8	0	0	0	0	0	0	
Dibrugarh (Mohanbari Aerodrome)	30·9	..	34·7	23	24·2	..	20·8	16	81·7	259·3	..	58·5	12	13	..	4·3	2·8	..	0	20	0	0	12	2	0	0	0	0	0	
North Lakhimpur	31·0	..	35·3	24	24·1	..	21·4	16	75·5	557·4	..	134·6	15	14	..	..	..	..	1	18	0	0	6	0	0	0	0	0	0	
Sibsagar	31·5	+0.6	35·0	9,23	25·3	+0·7	21·8	16	10·9	194·7	−105.8	42·2	12	11	−3·8	5.4	3·7	+0.8	0	15	0	0	12	0	0	0	0	0	0	
Jorhat	31.8	..	34.9	9	24·7	..	21·4	16	71·8	236·2	..	35·6	28	14	..	..	..	..	0	17	0	0	8	3	0	0	0	0	0	
Golaghat	31·9	..	35 0	9	24.4	..	21·7	16	(f) 27·0	(b) 244·2	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0	
Gohpur	31·5	..	34.9	24	24·6	..	23·3	1,3,4	63·0	200·8	..	41·0	15	8	..	5·2	3·8	..	0	8	0	0	0	0	0	0	0	0	0	
Tezpur	31·4	−0·2	35·3	9	25.1	+0·4	23·4	17,26	40·2	132·2	−78·1	42·6	16	8	−4·7	..	..	..	0	11	0	0	0	0	0	0	0	0	0	
Majbat	..	..	..	..	..	..	..	..	208·9	473·3	..	96·8	16	12	..	6·6	4.1	..	0	15	0	0	6	0	0	0	0	0	0	
Chaparmukh*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	..	0	0	0	0	0	0	0	0	0	
Tangla	31·7	..	36·1	23	24·5	..	20·9	30	48·1	290·4	..	85·7	14	8	..	4·1	1·2	..	0	8	0	0	0	0	0	0	0	0	0	
Gauhati	31·0	−0·9	34·4	9	25·4	+0.8	22·9	16,17	87·7	222·3	+54.9	99·5	15	9	−0.3	1·0	1·0	−1·1	0	13	0	0	0	0	0	0	0	0	0	
Gauhati (Bhorjor Aerodrome)	30·6	..	34·2	9	25·1	..	23·2	16	134·9	370·4	..	89·0	15	13	..	6·2	4·3	..	0	17	0	0	11	1	0	0	0	0	0	
Rangiya	31·7	..	34.9	23	23·9	..	19.9	16	268·1	303·3	..	99·3	15	8	..	..	..	..	0	9	0	0	0	0	0	0	0	0	0	
Goalpara	31·0	..	35·1	3 days	24·3	..	21·1	29	(f) 107·2	634·0	..	168·8	16	16	..	..	..	..	0	18	0	0	0	0	0	0	0	0	0	
Dhubri	29.0	−0·8	32·3	10	25·3	+0·1	21·7	1	132·0	911·3	+555.2	363·6	15	16	+3·5	2.7	1·6	−3·7	0	16	0	0	8	0	0	0	0	0	0	
Dhubri (Rupsi Aerodrome).	30·5	..	34·8	8	24·2	..	21·4	1	284·3	1091·5	..	273·9	15	17	..	6·1	4·5	..	1	20	0	0	11	0	0	0	0	0	0	
Tura	29·0	..	33·9	23	20·0	..	18·3	29	539·9	1192·3	..	270·2	15	20	..	5·5	5·6	..	0	24	0	0	0	0	0	0	0	0	0	
Agartala	31·1	..	33·7	24	24·4	..	22·8	16	128.0	496·2	..	77·3	1	20	.	9·0	6·4	..	0	25	0	0	22	0	0	0	0	0	0	
Kailashshar	31.9	..	35·6	24	24·3	..	22·4	15	146·1	326·1	..	72·4	15	19	.	5·3	23·7	..	0	22	0	0	18	3	1	0	0	0	0	
Silchar	30·8	−1·3	35·7	22	25·0	+0.4	23·1	16	60·2	221·0	−168·1	34·6	2	15	−1·2	2·5	1·2	−0·9	0	18	0	0	4	0	0	0	0	0	0	
Silchar (Kumbhigram Aerodrome)	32·2	..	35·8	24	23·9	..	22·4	18	102·5	261.3	..	78·2	2	12	..	6·2	5·5	..	1	17	0	0	8	2	0	0	0	0	0	
Imphal	28·3	..	31.8	23	20.6	..	16·2	19	48·2	159·3	..	39.4	1	10	..	6·9	4.4	..	1	15	0	0	5	2	0	0	0	0	0	
Haflong	28·1	..	30·9	22	21.7	..	20·2	17	124·4	237·7	..	41.4	14	14	..	..	..	..	0	20	0	0	5	0	0	0	0	0	0	
Lumding	32.6	+1·2	35·0	24	24·2	+0·2	22·5	17	82·0	131·8	−55.7	38·2	4,26	7	−3.8	3·8	2·1	..	0	10	0	0	0	0	0	0	0	0	0	
Sub-Himalayan West Bengal																														
Cooch Behar	30.7	..	35·0	23	24·3	..	21 2	28	253·9	1081·5	+484.1	329·7	12	16	−1·1	5·7	3·8	..	1	20	0	0	15	2	0	0	0	0	1	
Jalpaiguri	28·8	−2·4	33·8	22,24	24·1	−0·3	21·2	28, 29,	107·8	703·8	+164·8	166·2	28	16	−0·4	7 6	5·8	+3·4	0	20	0	0	8	1	0	0	0	0	0	
Bagdogra	29·9	..	36·9	21	23·4	..	20·4	28	270·0	804·6	..	127·6	28	18	..	11·2	9·9	..	0	21	0	0	10	0	0	0	0	1	0	
Malda	31·5	−0 2	35·0	24	25·5	−0·2	23·3	28	85·8	471·8	+179·2	99·4	9	13	+1·4	7·8	6·4	+0·1	0	16	0	0	12	0	0	0	0	0	0	
Gangetic West Bengal																														
Dum Dum	32·1	..	34·5	22	25·8	..	23·8	24	191·7	415.6	..	80.9	7	21	..	8·2	6·2	..	0	24	0	0	18	0	0	0	0	0	0	
Calcutta	32·1	−0·1	34·3	24	26·1	+0·5	24·7	17	230.2	341.2	+88·5	91·6	30	19	+5·8	7·4	4·7	+0.2	1	23	0	0	22	0	0	0	0	2	0	
Barrackpore (Aerodrome)	32.2	..	34·8	22	25·8	..	23·4	17	128.3	226·0	..	39.8	9	16	..	..	..	..	0	20	0	0	20	0	0	0	0	0	0	
Saugor Island	31·3	+0·4	34·0	22	26.7	+0.3	24·1	15	92.9	297.2	+34·3	43.7	25	19	+6·1	17·0	16·9	+3.4	1	22	0	0	12	0	0	0	0	0	0	
Sandheads	31.5	..	34.9	5	27·6	..	25·6	9	59·0	153.9	+32·2	63·8	9	10	+1·6	..	..	..	0	13	0	0	3	0	0	0	0	0	0	
Contai	31·3	..	33.9	23	26·1	..	23·2	24	111·2	369·5	..	72.5	10	16	..	9·6	7·5	..	0	19	0	0	0	0	0	0	0	0	0	
Midnapore	32·1	0	34·5	16	25·8	+0·2	23·8	26	122·3	285·3	+69·2	65·0	26	13	+1·1	5·5	3.7	+0 6	0	15	0	0	4	0	0	0	0	0	0	
Purulia	31·6	..	33·5	16	24·9	..	23·0	14	101.2	298·2	..	33·2	30	16	..	6·5	4·0	..	0	17	0	0	7	0	0	0	0	0	0	
Bankura	..	..	..	..	..	..	..	..	..	190·6	−9.3	28·0	1	11	0	..	..	..	0	14	..	..	..	..	..	..	..	..	..	
Burdwan	31·7	−0·5	..	..	25·9	0	23·8	6, 30	133·6	250·4	−26·9	55·0	30	13	+17·6	6·9	5·4	+2·5	0	17	0	0	2	0	0	0	0	0	0	
Krishnagar	33·0	+0·7	36·1	22,24	26·0	+0.4	24·4	24	107·8	193·6	−8·6	76·6	1	16	+4·8	4·3	3·5	−1·0	2	18	0	0	10	0	0	0	0	0	0	
Asansol	32.1	−0·1	35·0	23	25·7	+0·7	24·3	10	80·9	196·8	−12·7	42·0	9	13	+2·3	7·8	6·2	−0·2	0	15	0	0	12	0	0	0	0	0	0	
Suri	31·7	..	34·4	22, 24	25·4	..	21·6	10	150·2	217.8	..	34·8	5	12	..	8.5	6·7	..	0	18	0	0	9	0	0	0	0	0	0	
Berhampore	32·6	+0·6	35·1	23,24	25·9	0	22·9	16	79·9	234·5	+2·3	39·6	16	12	+0·5	1·0	1·0	−3.0	0	19	0	0	2	0	0	0	0	0	0	
Orissa																														
Baripada	32·9	..	35·9	22	25.4	..	24·0	26	144.4	255.0	..	58.2	4	15	..	3·4	1·9	..	0	21	0	0	15	0	0	0	0	0	0	

(f) Total for 25 days. (b) Total for 29 days. *Temporarily closed,

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0.2mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Orissa—*Contd.*																													
Balasore	32.0	+0·4	33·9	21	26·0	+0·4	24·4	10	170·3	305·8	+24·9	78·7	26	15	+2·1	7·1	4·2	+0·2	0	19	0	0	21	0	0	0	0	0	0
Chandbali	32.1	+0·5	33·9	5days	25·7	0	22·2	24	142·5	299·5	+72·9	116·2	25	8	−6·1	10·5	8·3	+0·1	0	12	0	0	0	0	0	0	0	0	0
Cuttack	33·7	+1·5	36·4	22	26·0	+0·6	24·9	9,25,26	145·0	214·6	−33·3	72·0	9	9	−3·6	6·7	5·1	+2·2	0	12	0	0	3	0	0	0	0	0	0
Bhubaneswar	32·1	..	34·0	4	25·6	..	24·7	25	63·2	113·2	..	23.6	18	9	..	13·0	9·7	..	0	12	0	0	21	2	0	0	0	0	0
Puri	31·9	+0·5	34·4	22	27·0	+0·5	24·5	9	99·8	242·0	+12·1	85.2	9	11	−1·1	17·8	17·0	+4·0	0	15	0	0	0	0	0	0	0	0	0
Gopalpur	31·8	+0·4	33·3	5	25·9	+0.1	22.4	3	38·3	279·5	+89·5	51·2	3	9	−0.5	15·6	12.8	+2·3	2	12	0	0	10	0	0	0	0	0	0
Koraput	27·6	..	30·0	24	20·6	..	18·3	5	76·5	58·3	..	16.3	9	5	..	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Titilagarh	33·0	..	34·8	22	24·5	..	23·3	3,4	109·5	187·0	..	33·0	13, 26	9	..	3.5	2·4	..	0	9	0	0	2	0	0	0	0	0	0
Bolangir	32·7	..	38·4	11	24·8	..	22·4	17	108·6	190·2	..	40·8	9	13	..	6·6	6·2	..	0	14	0	0	0	0	0	0	0	0	0
Phulbani	30·9	..	33·3	22	23·0	..	21·4	30	79 4	145·1	..	30·6	22	9	..	3·7	2·3	..	0	18	0	0	2	0	0	0	0	0	0
Angul	32·1	+0·5	35·7	14	25·1	+0·4	22·6	6	64·4	230·6	+43·9	85·0	25	7	−4·1	7·7	5·4	−0·7	0	13	0	0	16	0	0	0	0	0	0
Keonjhar	30·1	..	32·4	21	23·3	..	22·4	10	135·1	271·8	..	139·5	25	9	..	6·8	3.8	..	0	15	0	0	3	0	0	0	0	0	0
Sambalpur	32·3	+0.8	34·4	23	24·7	−0·2	23·1	5	87·3	187·8	−42·1	38·8	14	12	+0·6	5·1	4·3	−0.2	0	16	0	0	13	0	0	0	0	0	0
Jharsuguda	31·9	..	34·2	22	24·8	..	22·7	5	32·0	205·4	..	82.6	5	11	..	8·4	6·6	..	0	18	0	0	20	0	0	0	0	0	0
Bihar Plateau																													
Jamshedpur	32·7	+0·5	34·7	23	25·6	+0·3	23·5	24	172·8	250·2	+69·6	38·0	10	15	+3·8	8·5	5·6	+0·6	0	16	0	0	11	0	0	0	0	0	0
Jamshedpur (P.B.O.)	32·2	..	34·4	17	25·2	..	23·0	24	129·0	192·5	..	28·2	10	..	..	..	..	..	..	..	0	0	21	0	0	0	0	0	0
Chaibasa	32·	+0·3	34·2	16	24·9	+0·5	23·2	8	131·0	187·5	−13·4	36·8	8	10	−1·6	3·5	2·0	−0·6	0	17	0	0	6	0	0	0	0	0	0
Ranchi	30·1	+1·2	32·8	8,9	21·3	−0·9	19·8	18	115·7	227·7	−8.5	70·4	27	9	−3·3	2·7	2·0	−4·4	0	14	0	0	0	0	0	0	0	0	0
Ranchi (G.W.O.)	29·2	..	31·2	23	23·0	..	21·7	10,16 25	..	235·9	..	61·0	26	12	..	(j) 12·0	8·7	..	4	15	0	0	9	0	0	0	0	0	0
Daltonganj	32·6	+0·5	36·0	24	24·7	+0·6	22·9	1,29	47·2	146·1	−35·3	27·6	10	10	+0·7	..	..	..	0	13	0	0	1	0	0	0	0	0	0
Hazaribagh	29·9	+0·6	33·3	24	22·8	+0·4	21·1	2,26	175.3	240·1	+13·0	49·4	13	12	+0·5	9.5	7·0	−1·5	1	15	0	0	10	1	0	0	0	0	0
Dhanbad (R)																													
Dumka	32·0	+0·3	34·7	24	24·1	−0·7	22·4	10,26	81·3	233·1	−10·5	80·6	1	9	−3·5	5·0	5·1	+2·0	1	15	0	0	11	0	0	0	0	0	0
Bihar Plains																													
Purnea	31·2	−0·5	36·0	24	24·7	−0·5	21·8	28	(b) 81·6	(b) 401·4	..	..	..	..	..	(c) 4·0	(c) 2·3	−0·8	..	..	0	0	5	0	0	0	0	0	0
Forbesgunj	31·8	..	37·0	24	24.4	..	20·9	28	227·0	925·2	..	228·6	2	14	..	9·4	6·1	..	1	17	0	0	12	0	0	0	0	0	0
Darbhanga	31·5	−0·3	35·7	24	25·8	0	22·8	28	170·7	553·6	+318·9	154·4	2	12	+2.6	6·9	5·3	+1·1	0	13	0	0	5	0	0	0	0	0	0
Motihari	29·9	−2·1	33·5	23	25·3	+0·3	21·3	17	198·1	427·5	+197·6	96·0	13	12	+2·9	2·1	1·4	−3·4	0	13	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	317·6	+97·9	99·1	27	8	−1·5	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Chapra	32·8	..	36·6	24	26.3	..	23 8	27	49·0	283·6	+93·6	179·3	27	11	+2·3	2·0	1·7	..	0	15	0	0	0	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	228·2	+20·2	132·0	27	9	−0·5	..	..	..	0	11	0	0	0	0	0	0	0	0	0
Patna	32·4	+0·3	36·4	23,25	26·6	+0·5	24·4	27	49·8	266·0	+47·6	162·0	27	9	−0·2	5·3	4·8	−0·5	0	11	0	0	2	0	0	0	0	0	0
Patna (Aerodrome)	32·1	..	35·8	24	25·7	..	23·7	27	64·6	347·5	..	251·6	27	9	..	6·9	5·2	..	0	12	0	0	6	0	0	0	0	0	0
Dehri	31·9	..	35·0	24	25·6	..	23·4	28	57·2	99·0	−88·7	22·0	14	9	+0·1	4·9	4·1	..	0	10	0	0	4	0	0	0	0	0	0
Gaya	32·2	−0·3	35·3	25	25·8	+0·7	23·8	12	36·2	154·2	−36·3	79·6	27	8	−1·3	8·9	7·4	+0·2	0	14	0	0	10	0	0	0	0	3	0
Jamui	31·2	..	34·4	24	24·6	..	22·8	2	89·2	409·0	..	180·6	27	13	..	6·4	4·3	..	0	14	0	0	6	0	0	0	0	0	0
Bhagalpur	31·3	..	36·1	22	24·7	..	22·3	26	254·9	743·9	..	179·8	1	15	..	7·1	5·5	..	0	17	0	0	15	0	0	0	0	0	0
Sabour	31·3	−0·5	35·2	22,24	25·7	0	23·3	26	144·4	569·8	+357·5	160·0	1	14	+4·2	6·7	5·6	−1·6	0	17	0	0	11	0	0	0	0	0	0
Uttar Pradesh (East)																													
Gonda	32·2	−0·6	36·7	24	25·6	+0·5	21·7	27,28	176·6	421·2	+189·0	70·2	3	9	−1·2	3·6	3·0	−2·0	0	10	0	0	1	0	0	0	0	0	0
Nautanwa	30·3	..	34·8	24	24·9	..	21·8	28	48·0	379·0	..	115·6	1	12	..	6·3	4·2	..	0	12	0	0	0	0	0	0	0	0	0
Gorakhpur	33·2	+0·8	37·5	15	25·7	+0·6	22·7	2	56·3	221·4	+5·0	47·2	3	10	−0·7	..	..	..	0	13	0	0	0	0	0	0		0	0
Azamgarh	23·8	..	36·3	25	23·0	..	20·5	28	0	0	..	0	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ballia	32·8	..	36·0	19,22	25·8	..	23·8	28	60·8	96·2	..	30·4	3	8	..	4·0	3·6	..	0	10	0	0	0	0	0	0	0	0	0
Varanasi (Banaras)	32·7	−0·1	36·0	25	25·7	+0·5	23·7	28	92·8	131·6	−51·6	49·2	11	8	+0·7	3·2	3·2	−1 3	0	10	0	0	0	0	0	0	0	0	0
Varanasi (Banaras) (Babatpur Aerodrome)	32·7	..	36·1	24	25·6	..	23·7	30	79·8	125·9	..	27·3	27	10	..	10·5	7·1	..	0	13	0	0	6	0	0	0	0	0	0
Allahabad (Bamrauli)	33·5	+0·4	36·6	23	25·7	+0·9	22.7	28	24·9	75·1	−137·2	27·9	10	8	−1·5	7·5	4·3	−1·7	0	9	0	0	5	0	0	0	0	0	0
Sultanpur	32·6	..	36·2	23,24	25·6	..	22·8	28	34·3	109·7	..	42·4	11	7	..	5·5	3·4	..	0	7	0	0	0	0	0	0	0	0	0
Faizabad	32·3	..	35·1	24,25	24·1	..	21·0	28	175·7	233·3	..	58·2	28	10	..	4·8	3·2	..	0	10	0	0	4	0	0	0	0	0	0
Banda	33·6	..	36·7	25	24·4	..	21·7	27,28	13·0	88·0	..	36.0	26	6	..	4·0	2·3	..	0	7	0	0	0	1	0	0	0	0	0
Fatehpur	32·2	+0·4	36·1	24	25·3	+0·5	22·3	25	22·6	88·7	−51·2	38·2	11	6	−2·6	6·3	3·4	−0·9	0	8	0	0	2	0	0	0	0	0	0
Kanpur	33·3	+0·6	36·1	25	26·2	+1·6	21·6	28	89·4	108·8	−63·7	54·4	27	6	−1·3	12·2	9·0	+0·8	0	8	0	0	1	0	0	0	0	0	0
Kanpur (Aerodrome)	33·5	..	36·7	25	25·4	..	21·8	28	31·1	41·0	..	15·2	27	4	..	..	..	..	0	7	0	0	2	0	0	0	0	1	0
Lucknow	33·2	−0·1	36·5	25	25·5	+0·8	21·6	27	51·2	116·4	−71·6	52·8	11	5	−2·9	5·4	3·6	+0·9	0	7	0	0	0	0	0	0	0	0	0
Lucknow (Amausi Aerodrome)	33·1	−0·2	35.8	25	25·3	+1·6	20.8	27	68·4	98·1	−89·9	32·4	27	6	−1·9	11·3	7·6	..	1	7	0	0	3	0	0	0	0	0	0
Hardoi	33·1	..	36·2	9,24, 25	25·6	..	22·2	27	24·3	247·3	..	214·6	11	6	..	7·5	5.3	..	0	9	0	0	1	0	0	0	0	0	0
Lakhimpur Kheri	32·2	..	35·6	25	25.1	..	21·4	3	51·0	428·2	..	187 6	2	7	..	4·0	3·0	..	0	10	0	0	8	0	0	0	0	0	0
Bahraich	32·5	−0·4	36·6	25	25·5	+0·8	21·1	27	62·1	285·0	+67·1	77·0	3	8	+0·7	7·5	5·3	+2·1	0	9	0	0	0	0	0	0	0	0	0

(j) Mean of 21 days. (c)—Mean of 28 days, (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—																															
Orai	32·8	..	35·6	23	24·6	..	22·2	28,30	33·2	67·6	..	27·0	10	5	..	9.1	7·4	..	0	8	0	0	0	0	0	0	0	0	0
Jhansi	33·6	+0·4	36·4	30	23·6	−0·5	21·7	27,29	70·0	103·2	−46.7	26·2	10	5	−2·0	6·2	4·8	0	0	6	0	0	0	0	0	0	0	0	0
Agra	33·9	+0·1	36·5	21	24·5	−0·1	22·5	26,27	71·0	82·1	−34·2	37·0	26	4	−1·6	6·3	4·4	−1·1	0	5	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	34·1	..	36·4	23	24·5	..	21·9	26	43·6	58·5	..	16·7	25	5	..	..	..	..	0	5	0	0	3	0	0	0	0	0	0
Mainpuri	34·1	+0.3	36·9	23	25·3	+1.1	21·8	27	32·0	56·6	−72·7	26·4	7	4	−2.4	3.5	2·2	−0·5	0	4	0	0	1	0	0	0	0	0	0
Aligarh	34·2	+0·7	36·4	24,25	24·4	0	22·2	26	16·0	53·6	−81·0	24·4	18	4	−2·1	8·9	6·7	+0·4	0	4	0	0	0	0	0	0	0	0	0
Bareilly	33·2	+0·5	36·5	25	24·9	+0·6	21·7	26	132·2	314·0	+123·5	120·0	11	5	−1·8	6·4	3·8	+1·2	.	6	0	0	5	0	0	0	0	0	0
Meerut	34·2	+1.0	36·1	10, 21,25	24·5	+0·8	21·2	26	..	36·5	−112·3	16·5	11	3	−2·1	..	5·5	..	0	4	0	0	0	0	0	0	0	0	0
Najibabad	32·8	..	35·3	23	..	..	..	..	24·2	102·8	..	42·6	2	7	..	5·5	3·9	..	0	7	0	0	2	0	0	0	0	0	0
Roorkee	33·3	+0.8	35·7	9	23·8	+1·0	19·7	26	43·2	93·2	−68·6	43·2	26	4	−2·0	4·4	4·0	+1·3	0	6	0	0	2	0	0	0	0	0	0
Dehra Dun	30·0	+0·7	33·3	9	21·2	+0·4	17·7	26	32·9	270·3	+0.6	77·0	3	8	−2·9	4·4	3·3	+0·7	0	13	0	0	8	0	0	0	0	0	0
Punjab (India) (Including Delhi)																															
New Delhi	35·0	+1·3	37·4	25	25.3	+1·0	22·8	26	9·2	13·0	−109·9	8·4	12	2	−2·6	12·8	9·5	+0·5	0	3	0	0	2	0	0	0	0	1	0
New Delhi (Palam Aerodrome)	34·9	..	36·8	25,29	23·4	..	19·3	30	0	5·7	..	5·7	11	1	..	..	..	..	0	1	0	0	4	0	0	0	0	0	0
Hissar	36·2	+0.3	38·6	22	24·6	+1·0	21·6	29	11·0	14·4	−57·0	11·0	10	1	−2.1	7.0	7.0	+0.4	0	3	0	0	1	0	1	0	0	0	0
Karnal	34·1	..	36·7	23	21·0	..	18·3	18	10·0	18·0	..	10·0	12	2	..	..	..	..	2	0	0	0	0	0	0	0	0	0	0
Patiala	35·5	..	37·5	15	24·2	..	20·9	29,30	8·2	8·2	−214·6	8·2	18	1	−5·0	7·1	5·0	..	0	1	0	0	1	0	0	0	0	0	0
Ambala	35·4	+1·0	37·3	23, 25,26	24·1	+0·8	21·0	30	17·0	17·0	−112·8	12·8	18	2	−2.7	6·5	4·7	+1·2	0	2	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	34·1	..	35·8	24	23·2	..	19·6	30	41·7	41·7	..	27·5	18	2	..	..	..	..	0	2	0	0	4	1	0	0	0	0	0
Chandigarh	34.0	..	35·7	10	22·3	..	19·0	27	0	1.2	..	1·2	3	0	..	..	..	..	0	1	0	0	1	0	1	0	0	0	0
Ludhiana	35·7	+0·8	38·1	24	24·3	+0·5	..	..	0	7·2	−93·1	4·4	4	2	−1·8	4·6	3·3	+1·4	0	2	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	36·2	..	38·2	14	22.7	..	18.3	29	0	0·5	..	0·5	5	0	..	..	..	..	0	1	0	0	1	0	2	0	0	0	0
Bhatinda	37·5	..	39·6	14	23·9	..	20·6	29,30	3.0	3·0	..	3·0	10	1	..	7·5	6·0	..	0	1	0	0	0	0	1	0	0	0	0
Ferozepur	36·7	..	39·3	14	23·4	..	19·3	30	0	0	..	0	..	0	..	3·0	1·5	..	0	0	0	0	0	0	3	0	0	0	0
Amritsar	36·0	..	38·2	24	23·0	..	18·8	29	5·1	5·8	..	4·1	11	1	..	7·7	5·8	..	1	2	0	0	3	0	2	0	0	0	0
Pathankot (Aerodrome)	34·1	..	35·9	15	23·5	..	20·7	18,30	3·1	10·7	..	7·0	17	1	..	6·6	5·3	..	0	5	0	0	7	0	2	0	0	0	0
Adampur (Aerodrome) (R)																															
Himachal Pradesh																															
Bilaspur	32·5	..	34·3	26	21·3	..	16·3	29	22·8	44·8	..	21·3	3	4	..	4.6	3·0	..	0	5	0	0	5	16	0	0	0	0	0
Mandi	31·1	..	33·1	9	18·8	..	13·8	29	18·0	210·6	..	98·6	1	10	..	2·2	1·5	..	0	13	0	0	6	3	0	0	0	0	0
Jammu and Kashmir																															
Srinagar	28·1	−0.5	33.2	2	12·3	+0·4	6·8	30	5·0	14·5	−24.4	5·8	3	2	−1·5	5.2	4·2	+0·7	0	6	0	0	2	0	0	0	0	0	0
Srinagar (Aerodrome)	27·6	..	32.7	2	12·7	..	8·1	30	2·3	14·7	..	9·4	3	1	..	..	..	..	0	6	0	0	2	1	0	0	0	0	0
Gulmarg (R)																															
Sonemarg	..	..	..	..	..	..	..	..	..	0	77·5	0	..	0	−7·1	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Dras	..	..	..	..	..	..	..	..	..	0	−17.5	0	..	0	−1.3	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Leh	22·2	+1.3	27·7	2	6.4	+1·0	1·5	30	0	0	−6.9	0	..	0	−0·9	8·0	6·6	+3·7	0	0	0	0	1	0	0	0	0	0	0
Skardu (R)																															
Gilgit (R)																															
Misgar (R)																															
Jammu (R)																															
Jammu (Aerodrome)	34·3	..	36·4	16	24·0	..	20·0	29	29·7	32·0	..	24·1	25	2	..	..	..	..	0	4	0	0	5	0	2	0	0	0	0
Rajasthan (West)																															
Sri Ganganagar	38·5	+0·7	41·4	23	25·5	+2·1	22·0	30	2·5	3·7	+0·6	1·2	5	0	−0·5	6.3	4·4	−4.6	0	4	0	0	3	0	2	0	0	0	0
Churu	36·8	..	39·4	14	24.4	..	21·7	27	0	0	..	0	..	0	..	12·3	8·9	..	0	0	0	0	1	0	0	0	0	0	0
Bikaner	38·9	+2.6	42·4	24	25·1	0	20·9	30	0	0	−33·3	0	..	0	−2·1	8·4	7.3	−1·4	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	38·5	..	42·2	27	25·1	..	22·7	28,29	0	0	..	0	..	0	..	17·9	16·2	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	37·8	..	41·5	24,29	25·7	..	23·1	30	0	0	−24·1	0	..	0	−1·7	16·5	13·8	..	0	0	0	0	0	0	0	0	0	0	0
Nagaur	37·6	..	41·6	23,28	25·4	..	21·9	18	3·0	3·0	..	3·0	18	1	..	10·2	9·4	..	0	1	0	0	0	0	0	0	0	0	0
Jodhpur	37·7	+3.1	42·1	24	25·6	+1·8	23·1	17,29	0	0	−61·0	0	..	0	−2·8	12·8	10·9	−0·8	0	0	0	0	1	0	1	0	0	0	0
Barmer	37·6	+2·5	42·5	27	25·4	+1·1	20·7	28	2·4	2·4	−16·1	2·4	19	0	−1.4	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Rajasthan (East)																															
Pilani	36·1	..	38·5	28	23·8	..	21·3	26	0·4	0·4	..	0.4	12	0	..	14.0	10·6	..	0	1	0	0	0	0	0	0	0	0	0
Alwar	34·8	..	36·6	30	24·4	..	20.4	30	32·0	46·2	..	23·4	18	5	..	5·7	3·9	..	0	6	0	0	0	0	0	0	0	0	0
Sikar	35·0	..	38·6	23	23·1	..	19·9	30	3·1	13·3	..	10·2	10	2	..	8·3	7·3	..	2	0	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer Aerodrome).	34·6	..	38·0	28,29, 30	22·9	..	20·8	30	10·2	30.2	..	13·2	12	4	..	..	..	..	0	4	0	0	3	0	0	0	0	2	0
Dholpur	34·7	..	37·4	22	24·3	..	21·9	30	10·0	12·9	..	9·6	25	1	..	7·0	4·8	..	2	4	0	0	5	0	0	0	0	0	0
Tonk	35·2	..	38·9	29	24·4	..	21·2	30	1·0	4·4	..	3·2	11	1	..	9·4	6.5	..	1	2	0	0	0	0	0	0	0	0	0

(R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hour	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)— *Contd.*																													
Ajmer	34·5	+2·3	38·8	28	24·5	+0·9	21·7	18	5·6	6.4	—62.2	6.4	12	1	—3·0	11·1	9·2	+2·6	0	1	0	0	1	0	0	0	0	0	0
Kotah	34·2	+0·7	38·0	28	25·1	+0·4	23·4	18	35.4	40.2	—79·4	24.2	12	4	—1·7	5·4	5·3	+1·1	0	5	0	0	1	0	0	0	0	0	0
Chambal	33·8	..	37·5	28,30	23·2	..	20·3	29	1.6	36.0	..	30.0	11	2	..	9·3	6·0	..	0	5	0	0	2	0	0	0	0	0	0
Jhalawar	33·8	+1·9	37·8	29	23·6	+0·7	21·6	30	14.6	22.8	—135·4	15.6	12	2	—4·9	7·8	5·7	+0·7	0	2	0	0	1	0	0	0	0	0	0
Udaipur	32·3	+1·4	36·7	28	21·8	0	19·1	18	4.2	9.9	—87.9	5.0	12	2	—3·4	5·5	3·0	..	1	4	0	0	4	0	0	0	0	0	0
Ernpura (Jawai Dam).	34·3	..	38·9	23	24·7	..	19·9	17	1.4	30.4	..	28·0	17	1	..	5.0	7·3	..	0	3	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	33·5	+1·2	36·7	24	24·0	—0·4	21·6	27	9.4	14.4	—172·8	6.0	11	2	—5·4	8·6	5·9	..	1	5	0	0	3	0	0	0	0	0	0
Sheopur Kalan	33·9	..	36·8	22,30	23·5	..	21·4	30	9.4	23.9	..	12.2	10	3	..	7·9	6·2	..	0	6	0	0	2	0	0	0	0	0	0
Guna	32·2	+1·6	38·1	9	22·2	+0·3	19·1	27	40.3	42·8	—196·2	13·6	11	4	—4·6	7·4	7·3	..	0	6	0	0	4	0	0	0	0	0	0
Rajgarh	33·4	..	36·4	23	22·6	..	19·8	30	18.6	20·0	..	10 6	12	2	..	8·7	7·2	..	0	4	0	0	0	0	0	0	0	0	0
Neemuch	32·4	+1·3	36·3	28	22·5	+0·7	20·6	18	11.6	20.3	—99.9	9.8	19	4	—2·3	10·9	9·3	—0·4	1	4	0	0	2	0	0	0	0	0	0
Ratlam	31·9	..	35·8	24	..	..	..	..	29.4	53.3	..	16.1	18	8	..	7·3	6·3	..	0	11	0	0	5	0	0	0	0	0	0
Alirajpur	31·3	..	36·0	22	22·2	..	21·0	23	45.6	130.6	..	44.6	19	9	..	10·1	8·0	..	0	12	0	0	2	0	0	0	0	0	0
Indore	31·0	+1·3	33·9	30	21·1	+0·3	18·6	30	34.7	95.8	—68·3	40.3	11	6	—2·4	16·7	13·8	..	0	9	0	0	6	2	0	0	0	0	0
Ujjain	32.1	..	36.0	24	21.8	..	18.4	30	..	53.8	..	37.4	26	5	..	..	10.3	..	0	6	0	0	4	0	0	0	0	0	0
Bhopal (Bairagarh)	31·9	+2.0	34.8	29	21·7	—0·2	18·7	30	52.6	54.1	—210.6	30.2	10	3	—7·2	13·9	10·5	0	0	9	0	0	6	0	0	0	0	0	0
Khandwa	33·2	+1·9	37·2	30	23·1	+0·3	20·0	30	21.6	25.8	—118·7	17.8	8	3	—4·1	12·1	8·7	+0·7	0	4	0	0	0	0	0	0	0	0	0
Hoshangabad	32·3	+1.9	36·2	23	23·1	+0·2	21·1	20	31.4	39.0	—173·3	21.0	13	3	—6·5	6·2	4·6	+1·2	0	5	0	0	5	0	0	0	0	0	0
Betul	29·9	..	32·8	26	20·9	..	16·9	30	19.0	25.4	..	10.0	10	4	..	8·0	4·9	..	2	6	0	0	3	0	0	0	0	0	0
Chhindwara	30·9	..	33·7	15,24	21·6	..	18·5	28 30	95.7	120.8	..	32.6	15	6	..	7.1	4·1	..	0	8	0	0	4	0	0	0	0	0	0
Seoni	31·0	+1·6	33·0	24,30	22.2	+0·9	21·2	15	28.8	65.4	—152·8	29.4	12	7	—3·9	5·1	2·7	—2·1	0	12	0	0	5	0	0	0	0	0	0
Sagar	30·7	+0.7	34·0	23	22·0	+0·4	20·2	1	48.0	50.0	—143.0	10.0	13,26	6	—3·6	8·8	7·1	..	0	7	0	0	5	1	0	0	0	0	0
Nowgong	33·9	+1·5	36·8	23	23·8	0	21·1	30	81.2	95.4	—52·2	50.2	11	5	—2·2	6·9	4·5	+1·6	0	9	0	0	5	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	32·3	+1·1	34·8	6	24·2	+0·4	21·5	29	51.4	54.6	—120·4	24.6	18	5	—3·9	8·3	5·1	—0·2	0	7	0	0	1	0	0	0	0	0	0
Sidhi	32·3	..	35·4	24	24·3	..	21·0	28	6.0	73.2	..	35.0	10	4	..	8·4	5·0	..	0	5	0	0	2	0	0	0	0	0	0
Umaria	32.2	+2·0	34·2	24	22·8	0	19.1	28	20·4	33.8	—98·1	7.0	11	5	—5·4	7·1	4·2	—0.9	1	11	0	0	4	0	0	0	0	0	0
Jabalpur	32·7	+2·1	34·8	24	23·7	+1·3	21·5	29	14.0	19.3	—194·3	8.6	11	4	—5·7	7·6	4·3	+0·8	0	5	0	0	3	1	0	0	0	0	0
Mandla	31·3	..	34·0	24	22·8	..	20·4	29	79.6	87.8	..	28.6	9	7	..	2·9	1·6	..	0	13	0	0	12	5	0	0	0	0	0
Pendra	29·7	+1·0	32·0	25	21·7	+0·3	20·0	22	28.8	113.8	—86.9	31.9	10	5	—6·3	6·7	5·4	..	0	8	0	0	11	0	0	0	0	0	0
Ambikapur	30·0	..	32·6	25	22.3	..	19.4	29	116.5	216.7	..	87.2	10	11	..	9·6	6·7	..	2	13	0	0	6	3	0	0	0	0	0
Champa	32 5	..	34·2	22	24·6	..	20.9	22	76.6	217.4	..	50.2	22	12	..	5·8	4·7	..	0	15	0	0	16	0	0	0	0	0	0
Raigarh	32.6	..	33.8	21	24·8	..	22·0	23	54.8	153.0	..	38.6	9	11	..	5·4	3·9	..	0	14	0	0	0	0	0	0	0	0	0
Raipur	32.3	+1·1	34·3	16	24·2	+0·3	21·6	16	20.4	121.6	—13·7	56.6	16	8	—2·3	7·4	6·1	—1·5	1	13	0	0	9	0	0	0	0	0	0
Kanker	31.3	+1·4	33·3	24	24.5	+1·8	23·0	30	25.9	68.8	—191.3	28.8	24	6	—6·3	6·0	4·5	—1·3	0	10	0	0	5	0	0	0	0	0	0
Jagdalpur	30·2	+0·6	32·0	22	22·6	+0·7	21·3	7	89·8	214·6	—49·1	51·7	7	14	+0·4	6·1	4·0	..	2	25	0	0	20	2	0	0	0	0	0
Gujarat																													
Deesa	..	..	..	..	24.0	..	20.7	29	0.8	6.6	..	6.6	18	1	..	9·4	7·7	..	0	1	0	0	0	0	0	0	0	0	0
Radhanpur	36·2	..	40·5	23	..	..	..	..	0·9	3.2	..	2.3	26	0	..	10.4	8.4	..	0	2	0	0	3	0	0	0	0	0	0
Idar	34·3	..	39·0	23	23·5	..	21·5	18	9.2	11.4	..	5·4	18	1	..	8·3	4·7	..	0	4	0	0	4	0	0	0	0	0	0
Ahmedabad	35·0	+1·3	39·8	23	24·1	0	21·7	30	2.6	37.7	—68·0	31.1	11	2	—3·2	7·2	6·0	—1·2	0	5	0	0	4	0	0	0	0	1	0
Dohad	31·9	+1·8	36·4	30	22·4	—0·3	20·0	30	9.3	41.1	—101.9	14.1	25	6	—1.2	17·0	15·8	..	0	9	0	0	7	0	0	0	0	0	0
Baroda	34·0	+1·4	37·8	22.23	24·7	+1·0	21·2	30	9.9	126.5	—24·9	47.4	10	6	—0.7	5·6	4·0	—1·5	0	8	0	0	5	0	0	0	0	0	0
Baroda (Aerodrome)	33·9	..	38·4	22	24.3	..	21·2	30	3.4	97.6	..	45.6	11	4	..	8·2	7·9	..	1	8	0	0	6	1	0	0	0	0	0
Broach	33·6	..	38·2	22	24·5	..	22 5	30	44.6	173.5	..	60.6	11	6	..	9·1	7·7	..	0	10	0	0	7	1	0	0	0	0	0
Surat	32·8	+1·3	38·1	30	24·6	+0·2	23·0	10	9.2	99.4	—47·9	72.5	11	7	—0·4	7·3	8·3	+2·2	0	9	0	0	3	0	0	0	0	0	0
Saurashtra and Kutch																													
Naliya	32·1	..	37·2	22	24·4	..	20.4	19	0	0	..	0	..	0	..	20·9	16·4	..	0	0	0	0	1	1	0	0	0	0	0
Bhuj (Aerodrome)	35·5	+2.1	39·7	23	24·3	+0.6	20·5	29	5.0	5.2	—40.8	5.0	10	1	—1.2	17·5	14·6	+0.6	1	1	0	0	1	0	0	0	0	0	0
Bhutakia Bhimasar	36·2	..	40·4	23	25·0	..	22·3	29	0.2	0.2	..	0.2	19	0	..	18·5	17·4	..	1	0	0	0	0	0	0	0	0	0	0
New Kandla	33·2	..	37·8	22	25·7	..	23·8	30	0.2	0.2	..	0.2	2	0	..	24·8	23.3	..	1	0	0	0	2	0	0	0	0	0	0
Mandvi	31.3	..	36.4	22	25·6	..	20·6	30	0	0	..	0	..	0	..	30·6	27·7	..	0	0	0	0	0	0	0	0	2	0	0
Dwarka	30·1	+0·5	31·2	19	25·1	—0.3	23·6	30	0	0	—37·3	0	..	0	—2·0	16·6	15·4	+1·7	0	0	0	0	0	0	0	0	0	0	0
Porbander	30·9	..	35·0	22	25·1	..	23·8	1,8,18	1.4	12·6	..	5.6	21	2	..	15·3	14·6	..	0	5	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome)	31.6	..	36·7	21	24.9	..	21.6	29	..	..	..	..	..	..	..	21·8	15·5	..	..	..	0	0	1	0	0	0	0	0	0
Jamnagar	33·6	—1.7	37·1	22	24·6	+1·0	22·3	8,17	0	1.3	—55·3	0.8	1	0	—2·7	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Rajkot (Aerodrome)	34·2	+1·0	37·9	21,23	22·8	+0·2	20·7	7,23, 29	0.4	44.4	—40·4	31.8	23	3	—1·9	21·6	17·5	..	0	4	0	0	3	0	0	0	0	0	0
Surendranagar	35·3	..	39·4	23	24·8	..	22·2	26	0	96.2	..	67.0		3	..	14.6	13.3	..	0	4	0	0	3	0	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a)	20b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch (*Contd.*)																													
Bhavanagar	34·8	+1.2	39·0	22	24·0	+0·2	22·5	18	31·6	50·2	−47·8	32·4	26	3	−2·7	11·0	10.1	+1·9	0	6	0	0	1	0	0	0	0	0	0
Bhavnagar (Aerodrome)	34·3	..	37·8	21,22	24·7	..	22·8	16	20.9	47.1	..	20.7	12	4	..	18·2	17·1	..	1	4	0	0	2	0	0	0	0	0	0
Mahuva	32·8	..	37·0	21	23·8	..	21·8	6	32.7	42.5	..	31.2	11	3	..	13.2	9.6	..	0	5	0	0	5	0	0	0	0	0	0
Keshod	32·7	..	37·6	21	22·9	..	20·2	30	6·5	85·9	..	56.4	23	4	..	20·7	15·3	..	2	11	0	0	3	3	0	0	0	0	0
Veraval	30·1	..	35·6	21	24·3	..	22·5	30	7.7	20.8	−42·5	11.5	21	2	−1·9	20·9	17·8	..	3	5	0	0	3	0	0	0	0	0	0
Konkan																													
Dahanu	30·0	+0·8	31·7	21,23	24·8	+0·4	23·0	13	40.4	358.4	+22.1	164.4	10	8	−6.0	18·2	15·1	−1·6	0	15	0	0	3	0	0	0	0	0	0
Bombay (Colaba)	30·7	+1.0	33·5	21	24·7	+0·4	23·1	8	13.7	97.5	−166.4	15.5	24	12	−0·7	10.4	8·2	−3·1	2	21	0	0	9	0	0	0	0	3	0
Bombay (Santa Cruz Aerodrome)	29·9	+0·4	32·3	21	24·1	+0·7	22·8	10,25	16.6	110.0	−257·5	16.8	25	10	−2·6	11·7	7·7	..	0	18	0	0	7	0	0	0	0	0	0
Alibag	29·5	+0.3	32·5	21	24·2	−0·2	23·1	8	..	141.0	−124·9	51.6	26	12	−2·5	..	12·4	−1.8	0	22	0	0	8	0	0	0	0	0	0
Harnai	28·4	−0·3	30·5	21	24·1	0	22·4	24	77.9	244.4	−348.2	74.7	25	13	−5·8	13·8	12·1	−2·2	1	20	0	0	1	0	0	0	0	0	0
Ratnagiri	28·8	..	30·7	24	23·5	..	22·1	12	52.6	246.4	−53·8	30.2	9	19	+4 0	..	..	..	2	26	0	0	5	0	0	0	0	0	0
Devgad	28·6	−0.1	30·5	15	23·8	−0·4	22·4	7	59.2	344.6	187·0	59.2	20	18	−0·8	14·6	13·6	−2·5	0	20	0	0	3	0	0	0	0	0	0
Vengurla	29·1	..	30·1	15	23·6	..	22·0	7	83.2	277.5	..	54.3	27	14	..	9·6	5·8	..	1	21	0	0	7	1	0	0	0	0	0
Maharashtra including Marathwada																													
Nandurbar	31·7	..	36·1	22	23·0	..	21·4	17	124.5	163.1	..	29.0	20	12	..	11·0	8·9	..	0	15	0	0	0	0	0	0	0	0	0
Jalgaon	33·5	..	36·8	22	23·0	..	20·4	30	30.8	60.0	−92·7	37.0	8	3	−4·7	14·6	11·7	..	0	6	0	0	10	0	0	0	0	0	0
Malegaon	32·2	+0·7	35·1	25	21·5	+0·3	19·6	15	73.4	134.8	−12·3	32.2	26	10	+2·3	10·4	8·5	−1·0	0	10	0	0	2	0	0	0	0	0	0
Deolali	29·5	..	33·9	30	20·8	..	19·7	15	81.5	207.0	..	52.5	25	11	..	13·7	10 1	..	0	16	0	0	7	0	0	0	0	0	0
Aurangabad	31·5	+1·4	34·2	30	21·8	+1·1	20·6	1	44.2	116.4	−53·5	41.6	23	7	−2·0	13·9	11·4	+0·3	1	12	0	0	4	0	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome)	31·0	..	34·1	30	21·5	..	18·3	30	25.8	107.5	..	50.8	8	7	..	16·7	13·1	..	0	12	0	0	7	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	260.0	−434·7	37.6	10	20	−1.7	..	..	..	0	23	..	..	..	..	..	..	..	..	..
Ahmednagar	31·1	+1·0	33·7	30	20·9	+1·0	19·2	5	39.5	255.7	+89·6	78·7	7	12	+3·4	9·3	7·1	−2·9	0	15	0	0	6	0	0	0	0	0	0
Bhir*																													
Parbhani	31·7	..	34·9	2	21·9	..	20·6	6	65·8	165.8	−38·7	30.6	25	13	+3·4	11·2	8·5	..	0	15	0	0	9	0	0	0	0	0	0
Nanded	31.9	..	34.4	2	..	..	..	..	94.2	160.8	..	39.6	11	13	..	7.4	5 2	..	0	14	0	0	0	0	0	0	0	0	0
Poona	29·6	+0·4	33·0	29	20·7	+0·2	18·9	12	84.6	218.9	+84·5	40.3	19	14	+6·4	5 3	3·5	−7·3	1	22	0	0	9	1	0	0	0	2	0
Poona (Lohagaon Aerodrome)	29 2	..	33.3	30	20.0	..	18·1	12	212.4	348·3	..	69.3	22	14	..	..	..	..	0	20	0	0	9	0	0	0	1	0	0
Baramati	29·7	..	32·4	14	21·3	..	18·8	12	55·0	219·5	..	58.3	20	13	..	12·3	11·0	.	0	17	0	0	5	0	0	0	0	0	0
Jeur	31·2	..	33·7	1	21·2	..	19·8	2,12	39.7	220.1	..	69.7	18	13	..	11.5	10·2	..	1	16	0	0	3	0	0	0	0	0	0
Sholapur	31·2	−0·3	34·7	1	21·6	−0·1	20·0	11	109.6	303.2	+110·4	55.5	25	14	+4·9	10·0	8·3	−2·0	0	19	0	0	9	0	0	0	0	0	0
Miraj	29·6	+0·5	31·6	14,22	20·6	+0·7	17·5	12	93.0	224.0	+125.5	59.0	7	11	+5·3	..	..	..	1	15	0	0	3	0	0	0	0	0	0
Kolhapur	28·5	−0·2	31·2	29	20·5	0	17·6	12	116.0	248.9	+153·1	81.8	24	10	+2·1	11·3	9·1	−4·3	3	17	0	0	5	0	0	0	0	0	0
Vidarbha																													
Buldhana	29·5	..	33·0	22	21·4	..	19·5	3	6.4	107.4	..	48.0	27	4	..	9·6	8·3	..	0	9	0	0	0	0	0	0	0	0	0
Akola	33·0	+1·1	35·8	22	22.8	0	20·7	22,30	45.9	147.9	+0·6	44.6	9	6	−1·6	10·8	8·0	+0·1	0	10	0	0	1	0	0	0	0	0	0
Amravati	32·7	+1·5	35·2	25	..	..	..	..	56·4	106.5	−46 9	18.2	27	10	+1·7	10.6	8.0	+1.1	1	16	0	0	10	0	0	0	0	0	0
Yeotmal	31·6	..	35·1	9	22·3	..	20·6	8	38.9	137.9	..	61.6	6	6	..	11·5	9.0	..	0	8	0	0	0	0	0	0	0	0	0
Nagpur	32·6	+1·3	34·8	23,24, 26	23·2	−0·1	20·2	30	68.0	153.5	−50·0	66.0	6	7	−3·6	10·4	7.5	..	1	14	0	0	15	0	0	0	0	4	0
Gondia	32·1	..	33·5	19	24·2	..	22.4	9	78.8	224.4	..	65.8	10	8	..	5·9	3·3	..	0	11	0	0	3	0	0	0	0	0	0
Brahmapuri	32·3	..	34·4	23	24·5	..	22·9	30	72.8	183 6	..	44.2	9	9	..	4·7	3·2	..	0	14	0	0	0	0	0	0	0	0	0
Chanda	32·3	+0·7	34·1	1	24·2	+0·6	22·8	26	62.2	102.6	−123.7	33.8	28	9	−1·7	9·2	5·4	+0 4	0	14	0	0	12	0	0	0	0	0	0
Sironcha	32·6	..	34·4	22	24·6	..	22·8	23	71·2	175.6	..	21·2	1	15	..	4·9	3·0	..	0	16	0	0	11	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Nellore	32·6	−2·2	37.0	15	25·1	−0·6	22·9	7	209·1	360 9	+247.6	59·9	16	13	+7·1	8·1	6·5	−0·4	0	16	0	0	5	0	0	0	0	0	0
Ongole	32·8	..	36·9	14	25·0	..	22·4	7	152.6	343.5	..	73·6	18	15	..	3·4	2·6	..	1	15	0	0	0	0	0	0	0	0	0
Rentachintala	32·7	−1·6	36·2	3	24·8	+0·4	21·8	29	69·4	375·2	+254·3	108·0	7	13	+5·2	5.5	3·0	−6·5	0	15	0	0	9	0	0	0	0	0	0
Gannavaram	31·9	..	34·3	13	25·3	..	23·1	7	95·1	230·4	..	75·6	18	13	..	11·3	8·2	..	0	15	0	0	18	1	0	0	0	0	0
Masulipatam	31·4	−1·1	33·6	13	25·8	+0·5	24·3	8,19	55.6	290·0	+128·2	100·4	29	13	+3·1	9·7	7·1	−0·1	0	16	0	0	7	0	0	0	0	0	0
Nidadavolu	31·5	..	34·1	6	24·4	..	22·1	26	142·6	338·4	..	88·0	26	13	..	8·5	6·5	..	0	16	0	0	7	0	0	0	0	0	0
Kakinada	31·9	−0·2	34·5	14	25·3	−0·3	23·4	30	71·0	213.4	+56·9	63·2	19	10	+1·2	10·8	8·3	+1·5	0	14	0	0	5	0	0	0	0	0	0
Visakhapatnam	32.4	−0·1	34·7	4	25·5	−0·1	23·6	3	70·9	202·7	+36·3	42·2	26	11	+1·9	13·6	8·5	−0·2	0	16	0	0	15	0	0	0	0	0	0
Calingapatam	31.9	−0.2	34.4	5	25.4	−0.4	24.3	1,2,18	26·0	240·4	+64·4	86·6	14	14	+4·9	11.2	8.5	+1.3	0	14	0	0	10	0	0	0	0	0	0
Telangana																													
Ramagundam	33·1	..	35.6	23	23·0	..	20·7	23	68.4	226.2	..	72.2	23	12	..	5·9	3.8	..	0	13	0	0	6	0	0	0	0	0	0
Nijamabad	31·2	+0·3	32·9	23	23·2	+0·5	21·2	18,19	14.3	140.3	−86·0	31.4	6	12	+2·0	5·2	4·2	−0·8	0	14	0	0	0	0	0	0	0	0	0
Mahabubnagar	32·0	..	33·2	3	22·2	..	19·4	29	125·1	288·8	..	50.8	9	14	..	10·7	8·4	..	0	17	0	0	6	0	0	0	0	0	0
Nagargi Konda	32·9	..	36.3	3	24·9	..	22·7	8	34·6	233·0	..	72·7	7	9	..	12·7	8·4	..	1	16	0	0	8	0	0	0	0	0	0
Hyderabad (Begumpet Aerodrome)	30.1	+0.3	32·8	3	22.3	+1.0	19.4	29	87.6	361.7	+197.9	60.3	15	13	+3.5	14.4	9·7	−1.1	1	15	0	0	8	0	0	0	0	0	0

*Data not availoble.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 or 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Telengana—(*Contd.*)																														
Hakimpet	29·4	..	32·3	3	21·7	..	19·2	29	27·0	204·0	..	47·0	9	11	..	..	..	..	0	14	0	0	15	2	0	0	0	0	0
Hanamkonda	32·0	+0·8	34 0	27	24·1	+0·5	21·5	29	42·0	210·2	+23·8	49·2	18	11	+1·9	10·6	7·2	+0.3	0	14	0	0	8	0	0	0	0	0	0
Bhadrachallam	32·8	..	35·2	23	24·9	..	23·5	17	45·2	179·9	..	20·0	16,	14	..	4.9	4·0	..	0	18	0	0	0	0	0	0	0	0	0
Khammameth	32·6	..	35·2	13	24·2	..	22·2	16	50·0	191·4	..	52·2	29 26	9	..	6·5	4·3	..	0	10	0	0	3	0	0	0	0	0	0
Rayalaseema																														
Arogyavaram	28·7	..	31·8	15	21·1	..	19.1	18	25.2	158.0	..	43.2	22	9	..	9·0	6·5	..	0	15	0	0	2	0	0	0	0	0	0
Cuddapah	31·9	−2·3	36·3	3	20·2	−4·5	16.5	7	27·0	434·6	+281·4	94·0	30	14	+5.7	4·2	3·0	−4·9	0	18	0	0	0	0	0	0	0	0	0
Anantapur	31.7	..	35·4	3,14	23·4	..	21.5	19	113·5	28·4	+124·9	71·5	19	10	+3·1	13·4	12·2	..	1	11	0	0	8	0	0	0	0	0	0
Kurnool	31·7	−0·5	35·4	5	23·5	+0.2	21·2	11	57.2	413·5	+262·1	138·8	7	14	+4·8	13·7	10·9	+1·1	0	16	0	0	11	0	0	0	0	0	0
Madras State																														
Palayamcotai	34·5	..	36·8	12	25.5	..	23·4	23	9·6	11 0	−20·2	9·6	12	1	−1·2	19·4	14·2	..	1	1	0	0	0	0	0	0	0	0	0
Tuticorin	34·1	..	36·8	16	24·1	..	24·2	1,13	3.0	14·0	..	8·0	13	3	..	23·5	20.0	..	0	3	0	0	0	0	0	0	0	0	0
Pamban	31·2	−0·6	32·5	9	26·0	+0·1	24·6	21	0	0	−29.0	0	..	0	−1·9	16·5	15·7	+3·1	0	0	0	0	0	0	0	0	0	0	0
Tondi	34·3	..	38·2	10,28	25·5	..	22.6	13	2·0	35·0	..	31·0	13	1	..	18·8	13·9	..	0	3	0	0	0	0	0	0	0	0	0
Mathurai	34·8	+0·5	36·5	30	24·8	+0.4	21·9	13	3·2	171·8	+52.4	95·2	13	4	−2 5	7·4	5·7	+0.6	0	6	0	0	0	0	0	0	0	0	0
Mathurai (Aerodrome).	34·1	..	36·6	30	24·5	..	22·5	13	13·6	73·6	..	27.2	13	7	..	16·4	13·6	..	0	9	0	0	8	0	0	0	0	0	0
Adhirampattnam	33·9	..	37·0	7	25·2	..	22·0	30	0	39.9	..	20·4	30	4	..	14·9	11·6	..	0	7	0	0	5	0	0	0	0	0	0
Vedarenyan	33.4	..	..	..	25·1	..	..	..	0	12·0	..	..	..	..	..	12·0	9·9	..	..	..	..	..	..	..	..	..	..	.	0
Nagapattinam	33·6	−0·1	35·7	29	25·5	+0.3	23·4	4,5	3·4	107·1	+23.3	30·2	4	6	+0·9	11·0	9 4	+1·7	0	8	0	0	7	0	0	0	0	0	0
Tiruchirapalli	34 3	−0·2	36·5	12	25·0	+0·4	21·6	13	7·3	85·7	−34·2	74·5	13	2	−4.0	26·9	22·0	+4·9	1	4	0	0	7	0	0	0	0	0	0
Coimbatore	30·9	−0·6	33.4	12,13	22.0	+0·4	20.6	18	1·2	14.4	−26.0	12·0	13	1	−2·3	18·3	15.0	+7.4	0	3	0	0	0	0	0	0	0	0	0
Coimbatore (Peelamedu Aerodrome).	31·1	..	33·5	13	21·7	..	20·7	21	12·9	26·8	..	13·5	13	2	..	32·2	28·4	..	0	3	0	0	3	0	0	0	0	0	0
Salem	31·5	−1·7	35.1	13	23.4	+0·6	21.5	13	6.8	140·4	−13.8	87·0	13	8	−0·5	7·5	6·6	+1.6	0	13	0	0	7	0	0	0	0	0	0
Kallakurichi	33·5	..	36·0	11,12	24·3	..	22·2	12,14	15·0	85 5	..	23·4	13	9	..	7·2	6·4	..	0	13	0	0	3	0	0	0	0	0	0
Cuddalore	33.4	−0·2	35·4	5	23 8	−1·1	21·7	23	64 5	152.9	+20·6	34 2	16	9	+2·8	6·5	5·6	−0·7	0	13	0	0	5	0	0	0	0	0	0
Tirupattur	32·1	..	36·6	13	23·1	..	20·1	7	16·4	353·9	..	120·0	30	13	..	7.7	4.9	..	0	15	0	0	3	0	0	0	0	0	0
Vellore	32·6	−0·8	35·7	15	23·3	−0·8	20·7	30	61·6	215·8	+41·1	47·0	16	13	+4·9	7·8	6·1	+1·1	0	15	0	0	6	0	0	0	0	0	0
Tambaram (Aerodrome).	33·0	..	36·8	15	24·4	..	21·9	17	59·9	272 7	..	79 0	8	11	..	..	..	..	0	14	0	0	4	0	0	0	0	0	0
Madras	33·1	−1·3	36·5	14,15	24·6	−0·5	22·3	17	85·5	279·3	+160·4	58 3	17	14	+7·0	13·8	9·9	−3·0	0	18	0	0	11	0	0	0	0	5	0
Madras (Nungambakkam).	32·6	..	36·5	15	24·0	..	21·7	17	..	274 9	..	70 8	17	13	..	..	5·5	..	0	18	0	0	10	0	0	0	0	0	0
Coastal Mysore																														
Karwar	28·7	..	30·6	2	23·7	..	22·4	11	41·3	389.3	+83.7	128·4	26	18	+2·5	9.5	6·7	..	1	22	0	0	0	0	0	0	0	0	0
Honavar	28·9	0	30·7	15,25	22·8	−0·4	21·4	16	140·0	598·5	+207·8	110·2	22	19	+0·8	8·7	6·4	+2·7	0	24	0	0	2	0	0	0	0	0	0
Mangalore	28·1	−1.0	30·2	1,15	22·9	−0·6	21·5	9	104·1	636.5	+370·3	96·0	21	22	+6·5	8·8	6.8	+0·5	0	24	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe Aerodrome).	27·7	..	29·6	13	22·6	..	21·4	19	151·2	598.8	..	69·6	20	22	..	9·3	6.5	..	0	26	0	0	1	3	0	0	0	0	0
Interior Mysore (North)																														
Bidar	29·3	+0·4	32·0	2	21·5	+0·3	19·7	29	46·2	159.0	−57.9	48.4	10	11	0	12.8	10·9	−1·5	0	12	0	0	0	0	0	0	0	0	0
Gulbarga	30·5	−0·9	34·6	2	22·3	+0.4	20·0	11	111·4	393·8	+204·3	62·0	17	15	+4·9	13·2	11·3	+0·4	0	17	0	0	8	0	0	0	1	0	0
Bijapur	30·4	−0.4	33·4	3	21·4	+0·4	19·5	11	86·3	494·3	+353.6	71·8	18	18	+10.0	9·2	8.7	−1.0	0	18	0	0	6	0	0	0	0	0	0
Belgaum	27·6	+0·4	30·4	22	19·9	+1·3	..	..	82·0	149·2	+30·6	39 6	29	9	−0·1	9.2	6.7	−2.6	1	19	0	0	0	0	0	0	0	0	0
Belgaum (Sambre Aerodrome).	27·3	..	29·8	29	19.9	..	17·2	12	22.2	111·6	..	41·6	29	11	..	..	..	..	1	14	0	0	10	2	0	0	0	0	0
Gadag	29·4	−0·2	33·1	14	20·7	+0·3	19·1	12	26·6	454·3	+335·4	136·4	29	10	+3·6	10·9	11·5	−1.7	0	13	0	0	4	0	0	0	0	0	0
Raichur	31·4	−0.4	35·4	2	22·7	+0·1	20·3	11	58·0	380·8	+222·6	67·4	27	13	+3·6	13.4	11·0	−0.9	0	18	0	0	5	0	0	0	0	0	0
Interior Mysore (South)																														
Bellary	31·2	−1·3	34.8	14	22.9	+0.1	20·1	12	41·4	154·9	+31.2	33·5	23	10	+2·9	11·2	11.2	+1·1	0	17	0	0	0	0	0	0	0	0	0
Chitaldrug	28·3	−0·8	31·2	15	20·7	+0·7	18.9	17	15 2	63·8	−47.2	19·8	17	6	−1·1	9·8	10.2	+0.7	4	9	0	0	2	0	0	0	0	0	0
Shimoga	28·5	..	30·6	14	20·6	..	18·4	12	76.9	91·3	..	25·3	24	8	..	7·3	4·4	..	0	16	0	0	0	0	0	0	0	0	0
Balehonnur	24·2	−0·5	27·2	14	18·3	+0·2	17·8	4,6,11	..	251·8	+56.7	66·3	24	20	+4·0	..	..	..	0	23	0	0	0	0	0	0	0	0	0
Hassan	26·5	−0·7	29·8	13	18·7	+0·5	16·5	4	51.0	101·0	−9·0	25.2	22	8	−0·1	13·6	10·1	+1.9	0	12	0	0	1	0	0	0	0	0	0
Mysore	29·1	+0·1	31·8	14	19·9	+0·7	18.3	11	16·1	67 7	−58.0	17·6	22	6	−2·2	11·8	12·2	+2.5	0	9	0	0	0	0	0	0	0	0	0
Bangalore (Central Observatory).	27·1	−0·7	30·6	14	19·6	+1·1	17·7	15	13·6	216·5	+47·3	53·4	17	15	+6·1	14·6	12·6	+3·3	0	21	0	0	7	0	0	0	0	0	0
Bangalore (Aerodrome).	27·4	..	30·7	14	20·0	..	18·3	11	13·1	140·7	..	20·0	17	15	..	..	..	..	1	19	0	0	3	0	0	0	0	1	0
Kerala																														
Kozhikode	28·6	−0·5	31·3	3	23·0	−0·7	21·2	21	40·4	419·8	+218·1	74·0	21	15	+3·3	11·7	9·4 (b)	+2.3	0	19	0	0	0	0	0	0	0	0	0
Palghat	29·3	..	31·7	14	22·8	..	21·4	21	82·3	208·3	..	32·5	28	18	..	15·4	12·2	..	2	21	0	0	2	0	0	0	0	0	0
Fort Cochin	28.0	−0·3	29·3	27	24·0	−0.1	22·9	21	164·6	530.2	+335.4	65·8	10	25	+12·3	11·7	9·6	+2·5	0	26	0	0	0	0	0	0	0	0	0
Cochin (Naval Air Station)	28·9	..	30·2	14	23·5	..	22·5	20,21	147·4	527·9	..	48·9	28	25	..	10·7	7 5	..	0	26	0	0	3	0	0	0	0	4	0

b) Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days, (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0.2 mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29	
Kerala—(*Contd.*)																														
Alleppey	28·6	..	30·2	5,6	23·2	..	21·7	21	104·0	470·4	..	63·4	21	24	..	15·1	11·9	..	0	26	0	0	0	0	0	0	0	0	0	
Punalur	30·1	..	32·9	14	23·5	..	22·8	21	134·1	406.6	..	61·4	28	21	..	7·0	4·1	..	0	21	0	0	0	0	0	0	0	0	0	
Trivandrum	28·9	−0·8	31·0	5	22·7	−0·6	21·5	22,23	57·5	249·1	+134.6	25·8	28	20	+11·9	14·6	9·6	+0·3	0	23	0	0	3	0	0	0	0	0	0	
Trivandrum (Aerodrome).	29·0	..	30·6	5,13	23·0	..	21·7	22	..	246.3	..	27·6	22	18	..	..	8·0	..	0	21	0	0	1	0	0	0	0	0	0	
Arabian Sea Islands																														
Minicoy*																														
Amini Divi*																														
Hill Stations (excluding Kashmir)—																														
Kohima	24·3	..	29.3	24	18·9	..	17·7	16	208·8	279·6	..	81·6	2	13	..	..	..	..	0	17	0	0	3	17	0	0	0	0	0	
Aijal	15·5	..	28·9	21,22	19·9	..	18.3	16	(b) 92·0	(b) 236·5	..	57·8	18	13	..	0·8	0·7	..	0	18	0	0	0	0	0	0	0	0	0	
Shillong	23·1	−0·4	26·7	7,9,21	16·9	+0·5	15·1	20,21	120·8	760·2	+460·7	256·2	15	16	−1·3	3·8	2·5	+0·1	0	20	0	0	1	0	0	0	0	0	0	
Cherrapunji (R)																														
Darjiling (Raj Bhavan)	18·8	−0·4	24·9	24	14·4	0	11·2	28	243·0	775·2	+295·1	171·4	28	19	+2.0	1·6	1·3	−1.0	0	23	0	0	2	15	0	0	0	0	0	
Kalimpong	26·0	+2·3	28·9	23,26	18·5	−0·3	15·6	5 Days	266·7	745·5	+458·0	154·9	2	11	−1·7	5·7	4·4	−4·6	0	11	0	0	0	0	0	0	0	0	0	
Mukteswar (Kumaon)	20·8	+1·0	23·4	30	13·4	+0·6	10·9	29	84.8	200·0	−1·4	64·0	12	9	−1·1	10·4	11·7	+3·7	0	14	0	0	12	9	0	0	0	0	0	
Nainital	20·9	..	23·7	15	14·4	..	11·1	29	74·5	450·5	..	119·0	1	12	..	10·1	7·3	..	0	12	0	0	0	0	0	0	0	0	0	
Joshimath	23·6	..	26·9	9	14·9	..	11·5	29	14·4	75·0	..	21.2	3	8	..	6·2	5·1	..	0	14	0	0	0	0	0	0	0	0	0	
Badrinath	15·7	..	17·3	9	9·6	..	7·8	27	..	21·3	..	6·4	9	3	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..	
Lokpal	7·3	..	10·6	1	2.2	..	−1·0	30	..	207.3	..	31.4	10	16	..	..	..	..	3	22	..	..	..	..	..	..	..	..	..	
Mussoorie	20·4	+0·7	24·5	26	13·9	−0·2	11·6	18,29	131·4	233·1	−19·6	63·2	10	9	−3·8	7·1	5·3	−0·8	0	10	0	0	9	14	0	0	0	0	0	
Simla	20·7	+0·5	22·7	8	14.4	+0·9	12·2	27	40·2	179·4	+9·7	58·2	1	6	−3·3	3·3	2·9	−4·2	0	8	0	0	5	7	0	0	0	0	0	
Dharampur	..	..	..	..	..	..	..	..	..	53·2	−127·4	29·0	18	5	−2·5	..	..	..	0	8	..	..	..	..	..	..	..	..	..	
Dalhousie	23·8	..	26·0	9,16	..	..	..	..	60·4	325·2	+151·2	159·3	16	5	−3·3	2·3	2·3	..	0	7	0	0	3	2	0	0	0	0	0	
Dharamshala	26·7	..	28·8	25	19·6	..	17 8	3	109·2	304.8	..	89·0	1	10	..	5·3	4·1	..	0	10	0	1	16	0	0	0	0	0	0	
Abu	25·7	+1·7	31·2	26	19·4	+1·2	16·9	1	24·3	54·4	−183·6	18·4	18	5	−2·6	9·6	5·0	−3·7	0	7	0	0	1	3	0	0	0	0	0	
Pachmarhi	27·0	+1·7	30·0	23	19·2	+0·3	15·3	28	45·2	164·2	−196 2	49·6	9	11	−2·1	6·8	5·8	−1·3	1	12	0	0	4	7	0	0	0	0	0	
Mahabaleshwar	21·5	+1·6	25·6	30	15·7	−0·3	13·7	13	152·6	527.7	−202·3	59·2	25	23	+0·4	(b) 10·0	(c) 10·5	−2·1	0	27	0	0	6	28	0	0	0	0	0	
Mercara	21·7	−0·4	25·6	14	16·5	−0·1	15·4	4	214·6	422.4	+141·0	65·0	25	23	+4·8	14·7	11·8	+3·4	0	24	0	0	0	0	0	0	0	0	0	
Kodaikanal	17·8	+0·7	19·9	30	11·7	+0·6	10·0	13	70·5	96·2	−88·7	18·1	15	7	−4·9	14·7	15·2	+3·5	0	15	0	0	0	0	0	0	0	0	0	
Ootacamund	17·7	−0·4	21 5	14	10·9	+0·3	8·3	4	98·3	160·1	+12·0	37·2	22	10	−2·0	7·0	5·0	−0·6	0	17	0	0	0	0	0	0	0	0	0	
Coonoor	21·7	0	24·1	29	15·0	+1·5	12·8	5	..	97·1	+6·7	26·0	21	6	1·0	..	6·4	+0·8	1	10	0	0	0	0	0	0	0	0	0	
Nepal																														
Katmandu	26·9	..	29·6	25	18·4	..	15·4	24	44·2	155·7	..	24·8	28	13	..	2·1	1.0	..	1	20	0	0	7	2		0	0	0	0	
Sikkim																														
Lachen	17·2	..	22·2	9	10·7	..	5·6	28	..	340·4	..	91·8	28	25	..	..	..	..	0	28	..	..	..	..	..	..	..	..	..	
Tibet																														
Yatung (Chumbi) (R)																														
Ceylon																														
Colombo	28·2	−1.8	30·2	20	23·5	−1·3	21·8	8	25·7	126.0	−18·0	29·7	26	11	+2·2	..	..	..	0	17	0	0	1	0	0	0	0	0	0	
Trincomalee	33·4	+0·1	35·7	10	25·8	+1.0	22·3	13	28·0	141·3	+42·5	112·0	13	3	−2·4	..	..	..	0	4	0	0	1	0	0	0	0	0	0	
Batticoloa	32·8	..	35·6	5	24·9	..	23·2	12,13	33·5	71·5	..	35·0	15	2	..	..	..	..	0	3	0	0	5	0	0	0	0	0	0	
Hambantota	29·9	−0.4	33·8	10	24·7	+0 3	23·8	29	54·3	71.5	+3·9	15·2	19	8	+3.2	..	..	..	0	14	0	0	0	0	0	0	0	0	0	
Mannar	20·3	..	31·7	12	26·0	..	25·4	21	0	2·0	..	2·0	21	0	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0	
Hydrometeorological Observatories																														
Damodar Catchment																														
Bokaro	31·7	..	34·5	24	24·3	..	23·1	30	148·4	355·8	..	101·2	27	17	..	..	..	..	0	19	0	0	14	2	0	0	0	0	0	
Hazaribagh	28·8	..	31·7	24	22·6	..	21·1	26	214·5	268·6	..	67·6	30	12	..	9·5	5·9	..	0	15	0	0	4	0	0	0	0	0	0	
Tilaiya	31·3	..	36·9	19	24·5	..	21·3	2	47·5	145·8	..	40·0	30	10	..	9.9	8·5	..	0	12	0	0	5	0	0	0	0	0	0	
Ramgarh	32·3	..	37·2	26	24·3	..	22·2	19	108·8	211·2	..	50.0	27	14	..	3.6	1·9	..	17	0	0	0	2	0	0	0	0	0	0	
Panchet Hills	32·4	..	34·9	22	25·8	..	24·2	14	82·6	281·0	..	56·7	9	14	..	8·4	7·7	..	0	18	0	0	17	0	0	0	0	0	0	
Durgapur	32·3	..	34·2	24	25·5	..	23·9	13	54·8	157·6	..	43.0	9	12	..	14·0	10·1	..	0	18	0	0	6	0	0	0	0	0	0	
Maithon	32·9	..	35·5	24	25 1	..	23·3	10	93·6	185.9	..	39·7	10	13	..	..	..	..	0	16	0	0	8	0	0	0	0	0	0	
Konar	..	..	..	..	..	..	..	..	..	245·0	..	68·8	26	11	..	..	..	..	0	15	..	..	..	..	..	..	..	..	..	
Mahanadi Catchment																														
Hirakud	32·9	..	34·9	22,23	25·2	..	23·3	18	38·1	230·0	..	52·0	5	11	..	5·6	4·2	..	1	21	0	0	21	0	0	0	0	0	0	
Khijrawar	30.6	..	32·3	24	23·8	..	22.7	30	95·9	144·8	..	58·6	16	7	..	(f) 7·4	4·1	..	1	10	0	0	0	0	0	0	0	0	0	
Sonepur	32·6	..	34·7	23	..	..	..	..	..	433·0	..	118·6	25	14	..	..	5·1	..	0	18	..	..	..	..	..	..	..	..	..	
Ginabahar	31·5	..	34·3	16	23·9	..	21·7	29	..	307·2	..	131·8	26	13		..	..	..	0	18	..	..	..	..	..	..	..	..	..	
Bhimkund	30·9	..	33·1	22	23·7	..	22·6	25	241·9	347·3	..	76·0	25	17	..	1·2	1·0	..	0	22	0	0	6	0	0	0	0	0	0	

(b) Mean of 29 days.
(c) Mean of 28 days.
(R) Register not received.
(f) Mean of 25 days.
*Data given as addenda in December 1960 issue.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour.			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0·2 mm.)	Precipitation (0.3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories (*Concld.*)																													
Narbada Catchment																													
Punasa	32.4	..	36.1	24,29	22.8	..	20.1	30	17.2	18.2	..	9.0	13	3	..	6.6	4.4	..	0	4	0	0	0	0	0	0	0	0	0
Bagra Tawa	32.4	..	35.1	25,28	23.1	..	19.3	30	55.0	71.7	..	21.0	8	5	..	4.2	3.8	..	0	8	0	0	2	0	0	0	0	0	0
Thikri	33.1	..	37.3	30	23.0	..	20.4	30	..	137.3	..	65.5	10	5	..	..	..	..	0	8	0	0	2	0	0	0	0	0	0
Sabarmati Catchment																													
Jhadol (R)																													
Dharoi	34.5	..	39.3	23	23.7	..	22.0	18	0	9.0	..	6.0	9	2	..	..	..	..	2	0	..	..	..	..	..	..	..	..	..
Ganga Catchment																													
Mukhim	23·0	..	25·3	10	15.3	..	12·8	27,29	163·8	202·9	..	77·6	16	9	..	..	..	..	1	14	0	1	11	2	1	0	0	0	0
Tehri	32.9	..	35·2	9	21.0	..	17·7	26	24·6	77·2	..	20·0	7	7	..	5.0	3.1	..	0	8	0	0	6	1	0	0	0	0	0
Gandak Catchment																													
Gorkha (R)																													
Pokhara	28 4	..	30·9	8	20·9	..	18·1	29	54·5	687·1	..	132·4	14	18	..	4·8	3·3	..	0	22	0	0	17	0	0	0	0	0	0
Nawakot	29·0	..	31·9	21,25	20·2	..	17·9	28	41·0	195·0	..	41·0	2	15	..	..	..	..	0	20	..	..	..	..	..	..	..	..	..
Jomosom	21·9	..	25·1	9	11·2	..	7·2	30	6·0	49·0	..	35·0	28	4	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	60·0	392·4	..	81·8	11	17	..	..	..	..	0	20	..	..	..	..	..	..	..	..	..
Timura	25·7	..	28·4	24	16·1	..	13·5	30	18·5	107·8	..	16·0	9	13	..	..	..	..	0	21	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Gogra Catchment																													
Dandeldhura	23·2	..	25·6	9	(c) 16·0	..	(c) 13·7	18	123·3	241·2	..	85·3	12	10	..	..	..	..	1	11	0	0	8	16	0	0	0	0	0
Minsiyari (R)																													
Butwal	32·1	..	35.4	24	24·6	..	22.3	29	160·5	414·3	..	79·4	17	12	..	..	..	..	0	13	..	..	..	..	..	..	..	..	..
Bagmati Catchment																													
Katmandu*																													
Kosi Catchment																													
Chautara	(k) 26·1	..	28·0	8	(k) 18·4	..	16·6	17	57·7	287·9	..	48.8	5	16	..	..	..	..	1	19	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	71·4	317·0	..	47·6	16	21	..	..		..	0	28	..	..	..	..	..	..	..	..	..
Okhaldhunga	23·2	..	27·1	10	16·3	..	14·3	27,28	98·8	385·5	..	95·2	1	13	..	2.3	1.7	..	0	19	0	0	5	12	0	0	0	0	0
Barahkshetra	30·1	..	34·6	25	2[illegible]·1	..	20.7	28	351·6	519.5	..	177·4	14	12	..	6·7	4.1	..	1	17	0	0	7	0	0	0	0	0	0
Angbung	..	..	..	..	..	..	..	..	102·0	312·1	..	80·0	28	15	..	..	..	..	0	19	..	..	..	..	..	..	..	..	..
Taplejung	23·2	..	26·6	8,24	16·4	..	13·2	28	102·2	400·6	..	59·0	28	20	..	..	..	..	0	24	0	1	2	14	0	0	0	0	0
Taplethok	(d) 25·9	..	29·9	25	17.7	..	15.6	29	110·4	432·0	..	59·6	29	24	..	..	..	..	0	26	..	..	..	..	..	..	..	..	..
Wallungchung Gola	15·7	..	20·0	9	8·5	..	3·9	28	146·2	311·2	..	92·0	28	20	..	..	..	..	0	27	..	..	..	..	..	..	..	..	..
Bhojpur	23·6	..	27·7	24	..	..	..	..	68·1	172·0	..	58·6	27	11	..	..	..	..	0	13	..	..	..	..	..	..	..	..	..
Chainpur	25·8	..	29·3	24	19·3	..	15·4	28	48.4	235·8	..	45·2	28	13	..	..	..	..	0	17	..	..	..	..	..	..	..	..	..
Tista Catchment																													
Gangtok	21·6	..	27·3	24	15·7	..	12·1	28	177·9	633·9	..	108·8	28	22	..	3·2	2·8	..	0	24	0	0	7	20	0	0	0	0	0
Geyzing	25·3	..	30·6	24	17·3	..	13·9	28	115·6	522·7	..	123·2	28	15	..	..	..	..	0	16	..	..		..	.	..	..	..	..

(R) Register not received. (c) Mean of 28 days. (d) Mean of 27 days. (k) Mean of 20 days. *Data included under "Nepal".

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Mayabandar	0830	28	1008·1	1005·0	..	27.2	25·6	25·0	31·4	88	..	5·0	..	3.2	0	0	21	0	1	0	0	0	19	1	0	9	0
	1730	,,	1005·6	1002·5	..	26·0	25·0	24·5	30·8	93	..	5·6	..	3·6	0	0	23	0	0	0	0	0	21	2	0	7	0
Long Island	0830	24	1008·2	1005·4	..	27·0	25·6	25·0	31·8	89	..	6·5	..	1.3	0	0	10	0	0	0	1	0	5	3	0	20	1
	1730	,,	1005.8	1003·0	..	26·5	25·1	24·5	30·8	90	..	6·9	..	1.3	0	0	9	0	0	0	0	0	0	1	1	21	7
Port Blair	0530	79	1006·9	998·0	..	24·7	24·1	23·8	29·6	95	..	7·5	..	8·5	0	1	26	0	0	0	0	2	14	11	0	3	0
	0830	,,	1008.5	999·6	−1.0	26·9	25·4	24·6	31·1	88	+4	7·0	+0·8	10·8	0	0	30	0	0	0	2	1	18	9	0	0	0
	1130	,,	1007·4	998·5	..	27·5	25·4	24·6	30·7	84	..	7·2	..	13·3	0	2	28	0	0	0	0	4	18	7	1	0	0
	1730	,,	1006·3	997·4	..	25·7	24·6	24·1	29·9	92	..	7·4	..	9·0	0	0	26	0	0	0	0	3	15	8	0	4	0
	2330	,,	1007·6	998·6	..	25·1	24·4	24·1	30·2	95	..	6·8	..	9·4	0	2	23	0	0	0	0	0	17	7	1	5	0
Carnicobar	0830	10	1009·5	1008·3	..	27·5	25·5	24·5	31·0	84	..	7·3	..	6·4	0	0	28	0	0	0	1	0	23	4	0	2	0
	1730	,,	1007·0	1005 8	..	25·9	24·6	24·1	29·8	90	..	7·1	..	3·2	0	0	23	0	0	0	0	0	20	3	0	7	0
Nancowry	0830	26	1010·2	1007.3	..	26·9	25·2	24·4	30·7	86	..	6.4	..	6.9	0	0	19	0	0	0	0	0	18	1	0	11	0
	1730	,,	1007·5	1004·6	..	26·2	24·7	24·0	30·0	88	..	6·1	..	0	0	16	0	0	0	0	0	0	15	1	0	14	0
Kondul	0830	8	1010·4	1009·5	..	26·7	24·9	24.1	30·2	86	..	5·8	..	10·4	0	1	28	0	0	0	29	0	0	0	0	1	0
	1730	,,	1007·6	1006·7	..	26·0	24·7	24·0	30·0	89	..	6·9	..	7·6	0	0	22	0	0	0	21	1	0	0	0	8	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1007·5	989·7	..	26·5	24.0	22.6	27·8	80	..	6·7	..	6.3	0	1	21	0	0	0	2	2	0	1	17	8	0
	1730	,,	1003·3	985·7	..	27·2	25.3	24.3	30·6	85	..	6·0	..	1.1	0	0	6	0	1	0	0	0	1	1	3	24	0
Digboi	0830	152	..	..	..	24·3	22·5	21·3	35·8	85	..	(b) 5·4	..	..	0	0	29	0	6		4	2	4	1	8	0	0
	1730	..	..	..	..	27·0	24·6	23·7	29·0	84	..	(b) 6·0	..	..	0	0	29	6	6	1	4	1	7	0	4	0	0
Dibrugarh	0830	106	1007·0	995·4	−0·5	27·3	25·2	24·4	30·2	87	+1	6·2	+0·4	1.9	0	0	16	3	4	5	1	0	1	1	1	14	0
	1730	,,	1002·7	990·8	..	28·3	25·9	24·9	31·4	82	..	4·6	..	0·9	0	0	7	1	2	2	0	2	0	0	0	23	0
Dibrugarh (Mohan bari Aerodrome).	0230	111	1004·8	992·2	..	24.6	24·0	23·3	29·4	95	..	6·2	..	2.0	0	0	8		4	4	0	0	0	0	0	22	0
	0530	,,	1005·9	993·2	..	24·4	23·9	23·6	29·2	92	..	6·6	..	1.0	0	0	6	1	3	1	1	0	0	0	0	24	0
	0830	,,	1007·3	994·8	..	27·2	25·1	24·3	30·0	85	..	6·7	..	4·1	0	0	24	1	12	5	0	2	0	4	0	6	0
	1130	,,	1005·8	993·4	..	29·3	25·7	24·4	30·1	76	..	6·2	..	5·2	0	0	25	3	11	5	0	0	2	3	1	5	0
	1730	,,	1003·1	990·8	..	27.9	25·7	24·7	31·3	83	..	5·6	..	2.4	0	0	10	2	3	3	1	0	0	1	0	20	0
	2330	,,	1005·7	993·1	..	25·2	24·4	24·0	29·9	94	..	5·4	..	2.0	0	0	10	0	8	0	2	0	0	0	0	20	0
North Lakhimpur	0830	102	1007·1	995·6	..	27·1	25·3	24·5	30·9	86	..	6·0	..	5·4	0	2	23	7	6	7	1	1	2	0	1	5	0
	1130	,,	1005·9	994.5	..	29·5	26·1	24·6	31·0	76	..	5·2	..	7.5	0	2	27	3	4	5	6	6	5	0	0	1	0
	1730	,,	1003·4	991·9	..	28·1	26.1	25·4	32·2	85	..	4·9	..	3·7	0	0	24	1	7	1	3	5	5	2	0	6	0
Sibsagar	0830	97	1007·6	996·7	−0·1	28·0	26·0	25·3	31·9	85	−2	7·0	+0·3	2·8	0	0	17	4	6	3	1	0	3	0	0	13	0
	1730	,,	1003·3	992·5	..	29·2	26·5	25·5	32·4	81	..	5·5	..	1·9	0	0	15	3	5	2	4	0	1	0	0	15	0
Jorhat	0530	90	1005·1	995·0	..	25·1	25·0	24·9	31·6	99	..	6·5	..	3·9	0	3	6	0	1	1	0	4	2	1	0	21	0
	0830	,,	1006·6	996·3	..	28·0	26·7	25·7	33·9	88	..	6·7	..	7·0	0	1	22	4	7	2	1	1	7	0	1	7	0
	1130	,,	1005·2	995.3	..	30·3	27·3	26.3	33·8	80	..	6.2	..	10.9	0	3	26	3	14	0	1	2	6	0	3	1	0
	1730	,,	1002·5	992·8	..	27·9	26·6	26·2	33·8	90	..	4·8	..	4·5	0	1	13	4	7	0	0	0	2	0	1	16	0
	2330	,,	1005.1	994.9	..	25.7	25.4	25.4	32.2	98	..	4·7	..	1.9	0	0	6	0	2	1	0	1	2	0	0	24	0
Golaghat	0830	..	..	..	..	27·9	25·7	24·8	31·2	84	..	(b) 5·1	..	..	0	0	0	0	0	0	0	0	0	0	0	29	0
	1730	..	..	..	..	29·0	26·4	25·0	32·4	80	..	(f) 5·3	..	..	0	0	0	0	0	0	0	0	0	0	0	25	0
Gohpur	0830	..	..	..	..	27·5	26·1	25·5	32·6	89	..	..	..	3.0	0	0	30	0	0	30	0	0	0	0	0	0	0
	1730	..	..	..	..	28·7	27.1	26.3	34·6	87	..	..	..	3·0	0	0	30	0	0	29	0	1	0	0	0	0	0
Tezpur	0830	79	1006·5	997·7	−1·5	26·7	25·9	25·6	32·9	92	+6	5·9	+0·1	2·8	0	0	30	0	8	12	4	4	1	1	0	0	0
	1730	,,	1003·0	994·2	..	28.3	26·9	26·3	34·2	88	..	4·6	..	2.6	0	0	30	1	7	2	11	1	7	1	0	0	0
Majbat	0830	..	..	..	..	..	..	..	..	..	..	6·2	..	6·0	0	0	25	2	6	7	0	4	1	4	1	5	0
	1730	..	..	..	..	..	..	..	..	..	..	5·8	..	4·1	0	0	19	2	3	3	0	3	5	3	0	11	0
Chaparmukh*	0830	66																									
	1730	,,																									
Tangla	0830	78	1006·6	997·8	..	28·0	25·6	24·6	30·7	83	..	3·8	..	1.1	0	0	7	0	1	2	1	0	1	2	0	23	0
	1730	,,	1002·5	993·8	..	28.7	26·1	25·2	31·8	80	..	2.8	..	0.9	0	0	6	0	0	0	3	0	1	2	0	24	0
Gauhati	0830	55	1006·7	1000·4	−0·6	27.7	26·0	25·2	32·3	86	+4	6·0	+0.6	1·5	0	0	15	0	6	7	1	0	0	0	1	15	0
	1730	,,	1003·1	996·8	..	28.3	26·2	25·3	32·3	85	..	5·8	..	0·1	0	0	1	1	0	0	0	0	0	0	0	29	0
Gauhati (Bhorjor Aerodrome)	0230	54	1004·1	998·3	..	25·7	25.2	25·1	31·6	92	..	6·1	..	2·5	0	0	10	0	2	4	1	2	0	1	0	20	0
	0530	,,	1005·1	999·1	..	25.4	25·0	24·7	31·4	95	..	6·4	..	2.0	0	0	10	1	3	2	0	2	1	1	0	20	0
	0830	,,	1006·6	1000·5	..	27.6	26·1	25.3	32·7	86	..	6·5	..	4·2	0	0	19	4	8	2	0	1	2	1	1	11	0
	1130	,,	1005·3	999.2	..	29·5	27·1	26·0	33·8	83	..	6·4	..	7.6	0	0	27	7	11	2	0	0	0	4	3	3	0
	1730	,,	1002·8	996.7	..	28·0	26·3	25·5	32·9	86	..	6·5		3·3	0	0	18	3	4	3	1	1	3	2	1	12	0
	2330	,,	1005·0	999·0	..	27·3	25·7	25·3	31·6	94	..	5·6	..	1·9	0	0	9	0	2	2	1	2	2	0	0	21	0

*Temporarily closed.

(b) Mean of 29 days.

(f) Mean of 25 days.

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (Km.p.h): Mean wind speed, in Km. per hour	Wind speed (Km.p.h): 62 or more	Wind speed (Km.p.h): 20 to 61	Wind speed (Km.p.h): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)— *(Contd.)*																											
Rangiya	0830	..	..	..	..	28·3	25·9	25·0	31·6	82	..	(b) 4·8	..	(b) 4·8	0	0	26	1	6	11	1	2	1	3	1	3	0
	1730	..	..	..	..	29·4	26·3	25·0	31·7	78	..	3·9	..	3.5	0	0	23	0	7	11	0	0	1	3	1	7	0
Goalpara	0830	38	1000·6	996·3	..	26·8	25·1	23·7	30·5	84	..	(f) 6·5	..	(f) 2·4	0	0	20	0	8	2	4	0	3	0	3	5	0
	1730	,,	997·4	993·1	..	27·8	24·8	24·5	28·8	80	..	(f) 2·5	..	(f) 1·7	0	0	13	1	2	4	2	2	2	0	0	12	0
Dhubri	0830	35	1006·9	1002·9	−0·4	26.8	25·9	25·3	32·8	92	+7	4·5	−0·7	1·3	0	0	8	1	3	2	0	0	0	1	1	22	0
	1730	,,	1003·3	999·3	..	27·2	26·1	25·4	32·9	91	..	4·7	..	0·3	0	0	3	0	2	1	0	0	0	0	0	27	0
Dhubri (Rupsi Aerodrome)	0530	36	1003·9	999·8	..	25·0	24·5	24·3	30·3	96	..	5·9	..	3·1	0	0	13	0	2	5	1	1	4	0	0	17	0
	0830	,,	1005·7	1001·7	..	27·4	25·6	25·0	30·4	87	..	5.8	..	9.6	0	2	25	2	4	11	3	2	2	1	0	3	2
	1130	,,	1004·5	1000·5	..	28·9	26·2	25·0	31·9	81	..	6·0	..	6·4	0	0	27	0	1	6	12	6	2	0	0	3	0
	1730	,,	1001·9	997·8	..	27·9	25·8	24·9	31·5	85	..	5·4	..	2·7	0	0	14	0	1	4	2	4	2	0	1	16	0
Tura	0830	370	1007·8	966·4	..	25·8	24·1	23·3	28·7	90	..	6·4	..	3·2	0	0	18	0	1	0	4	6	4	2	1	12	0
	1730	,,	1005·6	964·2	..	26·3	25·4	23·6	31·8	82	..	7·5	..	3·5	0	0	24	1	0	3	3	4	5	8	0	6	0
Agartala	0230	16	1004·0	1002·2	..	25·3	24·9	24·6	31·3	97	..	5·9	..	5·1	0	0	19	0	0	3	10	5	1	0	0	11	0
	0530	,,	1004·6	1002·8	..	24·9	24·6	24·4	30·7	93	..	6·6	..	5·6	0	0	22	0	1	3	9	8	1	0	0	8	0
	0830	,,	1006·2	1004·4	..	27·9	26·2	25·5	32·7	87	..	6·4	..	7·9	0	0	28	2	1	6	7	10	0	1	1	2	0
	1130	,,	1002·5	1003·4	..	29·9	27·0	25·9	33·3	79	..	6·6	..	9·5	0	1	29	3	1	1	6	8	5	3	3	0	0
	1730	,,	1002·0	1000.9	..	27·6	26·1	25.3	32.6	89	..	6·4	..	6.5	0	1	27	4	1	1	6	10	4	1	1	2	0
	2330	,,	1006·0	1003.2	..	25·7	25.3	25.1	32·1	97	..	6·0	..	6.6	0	0	20	0	0	3	10	7	0	0	0	10	0
Kailashar	0530	29	1006·0	1002·7	..	25·0	24.5	24·1	30·3	95	..	7·0	..	2·5	0	0	13	1	1	0	1	6	2	1	1	17	0
	0830	,,	1007·5	1004·3	..	27·8	25·8	24·9	31·7	84	..	7·0	..	4·5	0	0	21	2	3	1	3	8	4	0	0	9	0
	1130	,,	1006·4	1003·2	..	30·3	26·9	25·4	32·8	75	..	6·4	..	5·5	0	0	26	2	6	2	0	9	2	1	4	4	0
	1730	,,	1003·6	1000·4	..	28·4	26·4	25·6	32·9	86	..	6·5	..	3·3	0	0	19	1	2	2	0	9	2	2	1	11	0
Silchar	0830	29	1007·2	1003·8	−0·9	27·9	25·9	25·0	31·9	84	0	5·9	+0·1	2·2	0	0	21	2	7	4	3	2	0	2	1	9	0
	1730	,,	1003·4	1000·1	..	29·9	26·7	25·8	32·2	83	..	4·7	..	0·5	0	0	5	1	2	0	0	1	0	0	1	25	0
Silchar (Kumbhigram Aerodrome)	0530	97	1004·3	993·3	..	24·4	23·9	23·4	29·2	96	..	5·8	..	6·4	0	0	25	0	5	18	1	0	0	1	0	5	0
	0830	,,	1005·7	994·8	..	27·6	25·5	24·5	30·9	83	..	6·1	..	7·1	0	0	25	1	2	15	2	0	1	3	1	5	0
	1130	,,	1004·4	993·7	..	30·0	26·3	24·5	31·3	75	..	5·6	..	9·1	0	0	30	0	2	6	3	2	4	9	4	0	0
	1730	,,	1002·0	991·2	..	28·2	25·9	24·8	31·7	83	..	6·2	..	7·8	0	0	30	2	3	9	2	2	3	6	3	0	0
Imphal	0530	801	1007·9	919·9	..	21·4	20·9	20·6	24·3	96	..	6·3	..	0·9	0	0	3	1	0	0	0	1	1	0	0	27	0
	0830	,,	1008·3	921·2	..	24·6	22·3	21·4	25·4	82	..	6·4	..	2.8	0	0	16	0	0	2	3	4	6	1	0	14	0
	1130	,,	1006·3	920·0	..	26·6	22·9	21·1	25·3	72	..	6·2	..	5·6	0	0	24	0	1	1	3	6	6	3	3	6	1
	1730	,,	1004·5	917·8	..	24·5	22·2	21·1	25·2	81	..	6·2	..	2·8	0	0	14	2	1	0	0	2	6	1	2	16	0
	2330	,,	1007·3	920·0	..	22·4	21·6	21·1	25·2	93	..	5·6	..	2·0	0	0	9	1	1	0	0	1	5	1	0	21	0
Haflong	0830	682	1006·6	931·9	..	24·1	22·6	21·9	26·4	88	..	5·2	..	7·5	0	2	28	4	4	0	0	8	14	0	0	0	0
	1730	,,	1001·5	927.5	..	25·0	23·1	22·3	26·8	86	..	5·9	..	5·9	0	0	30	1	0	0	0	2	25	0	2	0	0
Lumding	0830	149	1006·3	989·6	..	27·6	25·7	24·8	31·3	85	0	6·7	..	1·8	0	0	15	1	2	1	5	0	2	1	3	15	0
	1730	,,	1002·2	985·6	..	28·6	26·3	25·3	32·4	82	..	5·9	..	0·8	0	0	7	0	1	0	0	1	4	0	1	23	0
Sub-Himalayan West Bengal Cooch Behar	0830	43	1006.3	1001·5	..	27·5	25·5	24·5	31.0	85	..	6·1	..	8.2	0	3	23	0	8	11	4	0	0	1	1	4	1
	1130	,,	1005.3	1000·5	..	29·1	25.9	24·5	30.7	78	..	5·9	..	7.4	0	1	24	0	3	13	8	0	0	0	0	5	1
	1730	,,	1002·5	997·7	..	27·9	25·9	24·9	31·9	85	..	5·3	..	2·8	0	0	8	0	0	6	1	1	0	0	0	22	0
Jalpaiguri	0830	83	1006·3	997.0	−0.6	25·7	24·6	24·1	31·0	92	+5	5·9	+1.5	5·9	0	0	22	6	7	7	2	0	0	0	0	8	0
	1730	,,	1002·4	993·1	..	28·7	25·8	24.4	31·1	79	..	4·4	..	6·0	0	1	21	3	4	8	2	3	1	1	0	8	0
Bagdogra	0230	131	1003·9	989·1	..	25·1	23·8	23·3	28·5	90	..	6·0	..	4·6	0	1	25	10	5	10	0	0	0	0	1	4	0
	0530	,,	1004·6	989·8	..	24·2	23·7	23·4	28·8	96	..	6·3	..	4·1	0	1	20	4	5	7	1	0	1	0	3	9	0
	0830	,,	1006·4	991.6	..	27·1	24·9	23·9	29·7	84	..	6·3	..	6·9	0	1	23	1	8	12	2	1	0	0	0	6	0
	1130	,,	1005·3	990·6	..	29·1	25·8	24·4	30.4	77	..	6·2	..	7.2	0	0	26	0	4	11	6	1	3	1	0	4	0
	1730	,,	1002·4	987·8	..	27·8	25·7	24·8	31·4	85	..	6·0	..	4·8	0	1	18	2	4	8	1	1	2	0	1	11	0
	2330	,,	1005·1	990·3	..	25·7	24·3	23·5	29·3	89	..	6·2	..	5·6	0	1	19	7	7	5	0	1	0	0	0	10	0
Malda	0830	31	1005·7	1002·2	−0·3	28·2	26·3	25·5	32·6	85	+4	6·5	+2·3	7·8	0	0	28	1	5	7	4	5	4	0	2	2	0
	1730	,,	1002·1	998·6	..	29·4	26·6	25·6	32·5	81	..	5·9	..	5·8	0	0	25	4	4	7	2	2	2	0	4	5	0
Gangetic West Bengal Dum Dum	0230	6	1003·2	1002·5	..	26.7	25·9	25·6	32·7	94	..	5·3	..	4·6	0	0	23	0	0	5	5	7	4	1	1	7	0
	0530	,,	1003·8	1003·1	..	26·4	25·8	25·5	32.8	95	..	6·0	..	2·7	0	0	15	1	1	2	5	4	2	0	0	15	0
	0830	,,	1005·5	1004·8	..	28·9	26·7	25·8	33·2	83	..	6·4	..	5·1	0	0	27	6	2	2	5	6	3	1	2	3	0
	1130	,,	1004·6	1003·9	..	30·5	26·9	25·5	32·5	75	..	6·5	..	6·7	0	0	29	3	5	3	6	6	2	2	0	1	0
	1730	,,	1002·1	1001·4	..	28·1	26·2	25·3	32·4	85	..	6·5	..	4·5	0	0	26	3	2	5	4	5	3	2	2	4	2
	2330	,,	1004·4	1003·7	..	27·1	26·1	25·7	33·1	92	..	5·4	..	4·1	0	0	21	1	1	2	4	8	4	1	0	9	0

(b) Mean of 29 days.

(f) Mean of 25 days.

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal (*Contd.*)																											
Calcutta	0830	6	1005.3	1004·6	−0·7	29·1	26·7	25.7	33·0	82	−1	6·0	+0·3	5·5	0	0	26	4	3	3	3	7	3	3	0	4	0
	1130	„	1004·4	1003.7	..	30·4	27·2	25·9	33·5	77	..	6·6	..	7·1	0	1	26	1	2	6	4	5	4	2	3	3	0
	1730	„	1001·9	1001·2	..	28·4	26·5	25·7	31·5	86	..	6.5	..	4·5	0	0	19	1	0	2	4	7	3	1	1	11	0
Barrackpore	0530	7	1004·2	1003·4	..	26·7	26·1	25·8	33·4	95	..	5·8	..	4.3	0	0	14	0	1	4	1	3	2	2	1	16	0
	0830	„	1005.9	1005.2	..	29·0	27·1	26.3	34·2	86	..	6.2	..	7·9	0	0	24	1	1	3	5	3	8	1	2	6	0
	1130	„	1005·0	1004.3	..	30.7	27·6	26.3	34·4	79	..	6·4	..	9·9	0	1	27	3	1	7	5	4	4	3	1	2	0
	1730	„	1002·4	1001·7	..	28·4	26·2	25.5	32·1	84	..	6.5	..	5·6	0	0	19	0	0	4	5	6	1	0	3	11	0
	2330	„	1004·8	1004·0	..	27·3	26·2	25·8	33.0	92	..	4·3	..	3·6	0	0	14	0	0	3	3	3	5	0	0	16	0
Saugor Island	0830	3	1004·9	1004.6	−0·7	28·7	26·9	26·3	34·2	87	+6	6·0	−0.1	16.1	0	8	21	4	4	2	3	6	7	1	2	1	0
	1730	„	1001·7	1001.4	..	29·1	27·0	26.1	34·0	84	..	6.0	..	17·9	0	7	23	2	2	1	8	9	5	2	1	0	0
Sandheads	0530	10	1003·2	1002·1	..	28·6	26·5	25.6	32.4	84	..	6.5	..	10·8	0	3	22	0	0	2	3	6	10	1	3	5	0
	0830	„	1005·1	1004.1	−0·7	29·3	26·9	25·8	33.5	81	+2	5·9	+0.9	10·2	0	3	22	0	1	4	1	5	9	1	4	5	0
	1130	„	1004·8	1003·7	..	29·7	26·8	25·7	32·7	79	..	5·9	..	13·2	0	5	22	0	5	3	3	5	9	1	1	3	0
	1730	„	1001·7	1000·7	..	29·8	26.9	25·6	33·1	78	..	6·7	..	11·5	0	2	23	0	0	4	6	5	7	2	1	5	0
	2330	„	1004·3	1003·2	..	28·8	26·7	25.8	33·0	83	..	1·4	..	1·3	0	4	24	0	0	1	5	10	10	1	1	2	0
Contai	0830	11	1005·1	1003·9	..	29·0	26.9	26·1	33·7	84	..	4·1	..	3.4	0	0	23	3	4	0	6	7	2	1	0	7	0
	1730	„	1002.2	1001·0	..	28·7	26.8	25·8	33·9	84	..	3.6	..	4·2	0	0	23	2	1	2	7	6	4	0	1	7	0
Midnapore	0830	45	1005·0	999·9	−0·8	28·2	26.4	25.6	33·0	86	+4	4.5	0	2.1	0	0	17	1	3	2	0	5	6	0	0	13	0
	1730	„	1001·6	996·6	..	28·9	26·4	25·4	32.4	82	..	5·1	..	1·8	0	0	14	1	1	1	1	8	1	1	0	16	0
Purulia	0830	255	1005·4	977·2	..	27·5	25·3	24·3	30·4	83	..	6·2	..	4.2	0	0	29	2	2	0	14	0	0	0	11	1	0
	1730	„	1002·1	973·9	..	28·2	25·4	24·1	30·2	79	..	6·6	..	4·3	0	0	28	1	5	0	14	0	0	0	8	2	0
Burdwan	0830	32	1004.7	1000·8	−1·5	28·4	27·0	26·4	34·4	88	+5	5·3	−0·1	6·9	0	1	17	0	0	7	2	2	6	1	0	12	0
	1730	„	1001·8	998·1	..	28·9	27·5	27·2	35·9	88	..	5·7	..	6·4	0	0	20	0	3	2	6	3	5	1	0	10	0
Krishnagar	0830	15	1005·7	1004·1	−0·1	29·4	27·2	26.4	34.3	84	+3	4·5	−0·9	1·1	0	0	10	1	0	4	1	4	0	0	0	20	0
	1730	„	1002·2	1000·6	..	28·8	26·8	26.1	33.7	85	..	4·1	..	0·7	0	0	7	0	0	0	0	7	0	0	0	23	0
Asansol	0230	126	1003·2	989·0	..	26·1	25·6	25.4	32·3	89	..	5·6	..	4·7	0	0	12	0	3	3	3	3	0	0	0	18	0
	0530	„	1003·5	989·4	..	25·9	25·5	25·3	32.4	94	..	7·0	..	3.9	0	0	12	0	1	3	3	4	0	0	1	18	0
	0830	„	1005·2	991·1	−0·3	28·6	26·5	25·7	32·9	85	+2	6·0	+0.8	6·1	0	1	13	0	1	3	5	3	0	0	2	16	0
	1130	„	1004·4	990.4	..	30·4	27·2	25·9	33·5	78	..	6·1	..	8·5	0	4	16	0	4	4	7	1	0	1	3	10	0
	1730	„	1001·6	978.6	..	28·7	26·4	25·4	32·7	83	..	6·5	..	5·5	0	2	13	0	2	5	4	3	0	1	0	15	0
	2330	„	1004·2	990·1	..	26·5	25·8	25·5	32.8	94	..	5·4	..	5·1	0	1	13	0	3	3	3	3	2	0	0	16	0
Suri	0830	77	1005·8	997·2	..	28·1	26·3	25·4	32.9	86	..	6·6	..	6·4	0	0	28	1	6	7	3	4	4	1	2	2	0
	1730	„	1002·4	993·8	..	28·9	26·2	25·0	31.7	80	..	6·6	..	5.9	0	0	24	0	3	6	7	4	3	1	0	6	0
Berhampore	0830	19	1004·9	1002·8	−1·3	28·3	26·6	26·0	32.6	86	+4	6.5	+1.1	1·0	0	0	8	0	0	4	0	3	1	0	0	22	0
	1730	„	1001·8	999·7	..	29·3	26·8	25·7	33.5	82	..	6·4	..	0·7	0	0	3	0	0	1	1	1	0	0	0	27	0
Orissa																											
Baripada	0830	54	1005·9	999·8	..	28·4	26·1	25·1	32·0	83	..	5·8	..	1·8	0	0	17	3	0	1	3	1	5	0	4	13	0
	1730	„	1002.4	996·4	..	28·3	26.0	25.0	31·7	82	..	6.0	..	1.4	0	0	11	0	2	0	3	1	3	0	2	19	0
Balasore	0830	20	1004·9	1002·7	−0·7	28·5	26.7	26.0	33·7	86	+3	6·3	+1·1	5·4	0	1	18	4	3	0	1	7	4	0	0	11	0
	1730	„	1001·8	999·6	..	28·8	26·7	25·8	33·3	84	..	6·4	..	2·4	0	0	13	0	0	0	6	3	4	0	0	17	0
Chandbali	0830	6	1004·9	1004·2	−0·5	28·4	26·6	26·0	33·5	86	+3	3·6	−1·8	4·9	0	0	26	3	2	0	5	7	4	3	2	4	0
	1730	„	1002·1	1001·4	..	29·2	26 8	26·1	33·4	83	..	4.8	..	6·0	0	0	30	1	3	7	8	3	4	1	3	0	0
Cuttack	0830	27	1004·9	1001·9	−1.1	28·7	26·8	25·8	34·1	84	+4	4·6	−0.4	0·9	0	0		0	0	0	0	0	1	2	0	27	0
	1730	„	1001·9	998·9	..	29·8	27 0	25·9	33·4	79	..	5.8	..	0·9	0	0	3	0	0	0	0	1	2	0	0	27	0
Bhubaneswar	0230	46	1003·3	998·1	..	26·3	25·6	25·3	32·1	94	..	5.0	..	6.2	0	1	21	4	1	0	0	3	10	4	0	8	0
	0530	„	1003·6	998·4	..	26·0	25·4	25·2	32.1	95	..	6·1	..	5·4	0	1	21	7	2	0	0	3	6	3	1	8	0
	0830	„	1005·4	1000.2	..	28·5	26·5	25·7	33·0	85	..	6.4	..	9·6	0	0	29	6	5	1	0	1	8	5	3	1	0
	1130	„	1004·6	999·4	..	30·5	26·7	25·2	31·9	72	..	6.4	..	13·2	0	5	22	4	4	1	0	3	11	1	3	3	0
	1730	„	1002·3	997·1	..	28·6	26·4	25·4	32·6	83	..	6.8	..	12·7	0	3	25	1	2	5	3	7	8	1	1	2	0
	2330	„	1004·6	999·4	..	26·7	25·8	25·4	32·6	93	..	4·6	..	6·0	0	0	19	3	0	1	0	5	9	0	1	11	0
Puri	0830	6	1005·4	1004.7	−0·3	29·0	27·0	26·1	34·0	84	+4	6·7	+2·0	15.5	0	11	19	3	1	3	2	0	15	5	1	0	0
	1730	„	1002·4	1001.7	..	29.1	26.8	26·0	33·4	83	..	7·2	..	17·2	0	12	17	0	3	2	5	1	16	2	0	1	0
Gopalpur	0530	17	1003·7	1001.8	..	26.3	25.6	25·3	32·3	94	..	6·0	..	5·2	0	0	24	7	0	0	0	2	6	1	8	6	0
	0830	„	1005.5	1003.6	−0.3	28.8	26.5	25·5	32·9	83	+2	5·8	+1.6	9.7	0	3	24	11	1	0	1	3	6	1	4	3	0
	1130	„	1004.9	1003.0	..	30.6	27.1	25·6	33·1	75	..	5·9	..	14·1	0	6	24	5	1	6	3	8	6	0	1	0	0
	1730	„	1002·5	1000·6	..	29.2	26.4	25·2	32·1	79	..	6·2	..	14.8	0	8	20	1	1	5	9	5	4	1	2	2	0
	2330	„	1004.5	1002.8	..	27.3	25.9	25·3	32.3	89	..	4·7	..	9.6	0	4	23	4	0	2	1	3	10	3	4	3	0

Division and station	Hour of observation I.S.T	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Koraput	0830	913	1491·8	908·5	..	24·3	21·8	20·6	24·3	81	..	4·9	..	6·0	0	0	30	1	3	6	0	0	4	6	10	0	0
	1730	,,	1458·4	904·9	..	24·2	21·2	19·5	22·9	77	..	5·4	..	6·0	0	0	30	1	1	3	5	1	4	7	8	0	0
Titilagarh	0830	211	1004·3	980·8	..	28·2	26·1	25·2	31·0	85	..	1·3	..	2·8	0	0	30	0	7	0	10	0	11	0	2	0	0
	1730	,,	1002·6	979·1	..	28·8	26·5	25·3	32·9	82	..	1·5	..	2·9	0	0	29	1	12	0	10	1	4	0	1	1	0
Bolangir	0830	190	1004·1	982·7	..	28·0	25·4	24·1	30·4	80	..	6·5	..	1·8	0	1	29	7	5	2	1	6	5	1	2	0	1
	1730	,,	1001·1	980·0	..	28·6	25·5	24·4	30·1	79	..	7·2	..	6·9	0	0	30	5	3	1	3	8	6	1	2	0	1
Phulbani	0830	464	1002·8	951·8	..	25·9	23·8	22·7	27·9	82	..	4·4	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1000·4	949·7	..	27·1	24·5	23·2	28·9	80	..	6·7	..	1·0	0	0	7	1	0	1	1	0	0	3	1	23	0
Angul	0830	139	1005·5	989·9	−0·2	27·2	25·3	24·3	30·6	85	+3	7·0	+1·6	3·0	0	0	27	0	1	3	2	4	2	6	9	3	0
	1730	,,	1001·9	986·5	..	28·3	25·5	24·2	30·4	79	..	7·7	..	4·0	0	0	30	0	2	3	2	14	3	2	4	0	0
Keonjhar	0830	463	1005·5	951·6	..	26·1	23·8	22·8	27·9	83	.	5·7	..	4·0	0	0	28	3	4	6	0	2	1	7	5	2	0
	1730	,,	1002·3	948·6	..	26·4	23·9	23·2	27·8	81	..	7·5	..	3·1	0	0	27	3	1	4	6	5	4	2	2	3	0
Sambalpur	0830	148	1005·2	988·7	−0·6	29·0	26·1	24·9	31·5	79	−3	5·3	+0·3	1·0	0	0	8	1	1	1	1	1	3	0	0	22	0
	1730	,,	1001·3	984·0	..	29·2	26·2	24·9	31·5	78	..	6·4	..	0·7	0	0	6	0	0	1	1	3	1	0	0	24	0
Jharsuguda	0230	230	1003·2	977·5	..	25.4	24·7	24·3	30·7	94	..	6·7	..	3·5	0	0	21	6	1	0	4	2	2	4	2	9	0
	0530	,,	1003·6	977 8	..	25·0	24·5	24·2	30·3	95	..	7·0	..	4.7	0	0	30	9	3	3	5	4	4	1	1	0	0
	0830	,,	1005·3	979·7	..	27·5	25·4	24·4	30·7	84	..	7·0	..	5·6	0	0	28	4	3	4	5	3	3	4	2	2	0
	1130	,,	1004·2	978·8	..	29·9	26·2	24·6	31·2	74	..	7·0	..	5·7	0	0	26	6	6	1	1	1	5	5	1	4	0
	1730	,,	1001·2	975·8	..	28·9	25·9	24·1	30·9	78	..	7·5	..	6·5	0	0	28	1	2	6	4	2	6	5	2	2	0
	2330	,,	1004·1	978·4	..	25·9	25·1	24·6	31·9	93	..	6·9	..	5·1	0	0	22	3	1	2	8	3	1	2	2	8	0
Bihar Plateau																											
Jamshedpur	0830	129	1005·2	990·8	−0·1	27·7	25·8	25·0	31·6	85	+4	5·8	+0·1	5·1	0	0	25	1	1	5	1	2	1	11	3	5	0
	1730	,,	1001·5	987·2	..	28·6	25·9	24·7	32·8	81	..	6·6	..	4·4	0	0	23	0	1	12	5	3	0	2	0	7	0
Jamshedpur (P.B.O.)	0530	142	1003·6	987·7	..	26·0	25·1	24·7	31·2	93	..	6·5	..	3·1	0	0	17	2	6	1	1	2	3	2	0	13	0
	0830	,,	1005·2	989·3	..	27·5	25·6	24·6	31·1	85	..	6·4	..	5·3	0	0	26	2	3	2	2	3	6	3	5	4	0
	1130	,,	1004·0	988·3	..	30·6	26·4	24·6	31·0	71	..	6·2	..	7·9	0	0	30	6	4	1	0	5	5	5	4	0	0
	1730	,,	1001·6	985·8	..	28·6	25·7	24·4	30·5	79	..	7·0	..	6·2	0	0	24	1	8	7	2	1	2	1	2	6	0
	2330	,,	1004·2	988·3	..	26·6	25·4	24·7	31·5	90	..	5·3	..	5·4	0	0	24	1	12	4	0	0	1	4	2	6	0
Chaibasa	0830	226	1005·2	979·9	−0·2	27·6	25·4	24·3	30·6	83	+2	5·7	+0·6	1·9	0	0	16	0	6	0	1	0	8	1	0	14	0
	1730	,,	1001·4	976·3	..	28·3	25·5	24·3	30·3	79	..	6·7	..	1·4	0	0	10	0	4	0	2	0	2	2	0	20	0
Ranchi	0830	655	1004·6	933·2	−0·4	25·4	23·0	21·9	26·3	80	−1	5·6	+0·5	0·3	0	0	3	0	2	0	0	1	0	0	0	27	0
	1730	,,	1001·4	930·3	..	26·0	23.6	22·6	27·4	81	..	6·5	..	0·2	0	0	2	0	0	2	0	0	0	0	0	28	0
Ranchi (C.W.O.)	0530	652	1003·8	932·2	..	23·1	22·5	22.2	26·9	95	..	6·8	..	2·9	0	0	15	1	1	1	2	1	4	1	3	15	1
	0830	,,	1004·9	933·7	..	25·5	23·3	22·4	27·1	83	..	6·9	..	6·8	0	0	26	2	8	1	2	2	2	0	6	4	3
	1130	,,	1003·8	933·2	..	27·3	23·6	22·1	26·6	74	..	7·0	..	8·1	0	0	30	4	10	1	1	3	3	1	7	0	0
	1730	,,	1001·1	930·3	..	26·1	23·4	22·2	26·7	79	..	(i) 7·5	..	(i) 8·1	0	0	22	2	9	1	3	0	1	1	5	0	0
Daltonganj	0830	221	1004·9	980·4	−0·5	28·3	25·7	24·6	30.8	81	+2	5·6	+2·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1001·2	976·7	..	28·7	26.0	24·9	33·0	81	..	6·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	1005·2	938·3	0	25·7	23·9	23·1	27·7	86	+5	5·9	+0·3	7·0	0	2	23	3	6	0	2	3	3	1	7	5	0
	1730	,,	1001·5	935·0	..	26·6	24·3	23·3	28·8	83	..	6·7	..	5·8	0	2	23	4	7	3	2	2	1	1	5	5	0
Dhanbad (R)	0830	257																									
(R)	1730	,,																									
Dumka	0830	149	1004·9	988·3	−0·9	27·8	26·0	25·3	31·1	87	+6	4·6	−0·1	3·2	0	0	17	1	1	0	7	4	2	2	0	13	0
	1730	,,	1001·8	945·4	..	28·8	26·0	24·9	31·4	81	..	4·0	..	2·1	0	0	10	0	1	0	3	4	1	1	0	20	0
Bihar Plains																											
Purnea	0830	38	1005·4	1001·2	−0·8	28·2	26·4	25·6	33·2	86	+1	(b) 5·4	+0·7	(b) 1·6	0	0	13	0	2	7	2	1	1	0	0	16	0
	1730	,,	1002·1	997·8	..	28·6	26·6	25·8	33·3	85	..	(b) 4·0	..	(b) 1·3	0	0	9	0	1	5	2	1	0	0	0	20	0
Forbesganj	0830	61	1005·6	998·7	..	27·5	25·7	25·0	31·7	87	..	5·9	..	4·9	0	0	28	0	5	17	5	0	0	0	1	2	0
	1730	,,	1001·6	994·8	..	29·6	26·4	25·1	32·0	77	..	5·0	..	3·4	0	0	20	0	4	11	2	0	1	2	0	10	0
Darbhanga	0830	49	1005·9	1000·4	+0·1	29·7	26·2	24·9	31·7	79	+2	4·8	+0·1	5·7	0	0	30	1	12	9	1	0	0	1	6	0	0
	1730	,,	1002·0	996·5	..	29·2	26·4	25·2	31·7	80	..	4·5	..	4·0	0	0	24	1	12	8	0	0	1	0	2	6	0
Motihari	0830	66	1005·0	997·5	−0.5	28·5	26·3	25·3	32·4	83	+3	3·9	0	1·1	0	0	9	0	3	1	4	0	0	0	1	21	0
	1730	,,	1001·9	994·5	..	29·5	27·6	26·7	35·1	85	..	2.7	..	0·4	0	0	4	0	2	0	1	0	1	0	0	26	0
Chapra	0830	..	..	..	..	28·9	26·5	25·5	32·7	83	..	5·1	..	1·2	0	0	8	0	0	2	1	0	4	1	0	22	0
	1730	..	..	..	..	30·2	26·9	25·7	32·7	77	..	5·0	..	0·7	0	0	6	0	1	2	0	0	3	0	0	24	0
Patna	0830	53	1005·1	999·2	−0·5	28·9	26·5	25 5	32·7	83	+4	5·2	+0·3	6·0	0	1	24	0	5	11	1	1	0	5	2	5	0
	1730	,,	1001·4	995·5	..	30·1	26·8	25·4	32·5	77	..	4·9	..	3·9	0	0	17	0	3	8	0	0	1	5	0	13	0

(b) Mean of 29 days. (R) Register not received. (i) Mean of 22 days.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature° in °C: Dry bulb	Mean temperature° in °C: Wet bulb	Mean temperature° in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*)																											
Patna (Aerodrome)	0530	60	1033·2	996·4	..	26·5	25·7	25·3	32·3	93	..	5·5	..	4·8	0	1	8	0	0	6	1	0	0	2	0	21	0
	0830	,,	1004·5	997·8	..	28·8	26·5	25·4	32·9	83	..	5·5	..	9·2	0	2	21	0	2	7	4	1	3	4	2	7	0
	1130	,,	1004·1	997·4	..	30·5	27·0	25·5	32·8	76	..	6·3	..	8·8	0	0	22	0	4	6	5	0	3	2	2	8	0
	1730	,,	1000·9	994·2	..	30·4	27·0	25·6	33·0	76	..	5·2	..	4·4	0	0	12	0	1	5	0	0	1	2	3	18	0
	2330	52	1003·9	998·1	..	27·9	26·8	26·0	34·3	90	..	4·0	..	3·7	0	0	7	0	0	5	2	0	0	0	0	23	0
Dehri	0830	107	1004·8	992·8	..	28·9	26·2	25·0	31·9	80	..	5·7	..	3·2	0	0	30	4	0	7	7	1	5	4	2	0	0
	1730	,,	1000·3	988·4	..	29·6	26·8	25·6	31·8	80	..	5·6	..	3·2	0	0	30	5	7	4	2	1	1	4	6	0	0
Gaya	0230	116	1003·0	990·0	..	26·8	25·9	25·5	32·8	92	..	4·8	..	6·2	0	2	15	0	1	4	1	0	8	3	0	13	0
	0530	,,	1003·5	990·5	..	26·3	25·6	25·3	32·1	94	..	5·2	..	6·2	0	2	15	0	0	3	3	1	7	3	0	13	0
	0830	,,	1005·4	992·3	+0·1	28·7	26·3	25 4	32·3	83	+8	5·8	+2.1	8.3	0	3	18	0	1	5	2	1	7	4	1	9	0
	1130	,,	1004·7	991·8	..	30·9	26·7	24·8	31·6	72	..	6·1	..	13·0	0	9	20	3	4	10	1	0	0	7	4	1	0
	1730	,,	1001·5	988·5	..	30·1	26·7	25·3	32·4	76	..	5·9	..	6·7	0	1	23	1	11	5	0	1	0	4	2	6	0
	2330	,,	1003·9	990·9	..	27·3	26·1	25·5	32·9	89	..	5·0	..	6·6	0	2	17	0	3	5	1	1	8	1	0	11	0
Jamui	0830	82	1005·2	995·8	..	28·1	26·5	26·0	33·4	87	..	5·5	..	2·6	0	0	17	2	0	8	1	1	0	4	1	13	0
	1730	,,	1001·2	991·8	..	29·0	26·8	25·7	33·3	82	..	4·8	..	2·3	0	0	14	0	0	6	1	0	0	6	1	16	0
Bhagalpur	0530	49	1004·1	998·5	..	26·0	25·4	25·2	32·1	95	..	6·5	..	4·5	0	0	18	1	2	5	5	2	1	2	0	12	0
	0830	,,	1005·8	1000·3	..	28·1	26·4	25·6	33·0	87	..	6·5	..	6·8	0	0	20	2	1	7	5	0	2	3	0	10	0
	1130	,,	1005.1	999·6	..	30·0	27·0	25·7	33·3	79	..	6·4	..	7·3	0	0	25	1	2	10	4	2	1	3	2	5	0
	1730	,,	1002·1	996·7	..	28·7	26·6	25·8	33·2	84	..	6.3	..	6·0	0	0	20	1	1	7	5	0	1	2	3	10	0
	2330	,,	1004·6	999·1	..	26·9	26·0	25·6	32·9	92	..	5.4	..	4·8	0	0	13	1	0	6	3	0	1	2	0	17	0
Sabour	0830	37	1005·2	1001·1	+0·1	28·0	26·4	25·4	34·0	87	+4	6.0	+0.3	5·4	0	0	20	2	1	7	3	2	3	2	0	10	0
	1730	,,	1001·6	997·4	..	28·9	26·9	25·7	34·0	85	..	5·7	..	3·4	0	0	14	0	1	7	2	0	1	2	1	16	0
Uttar Pradesh (East)																											
Gonda	0830	110	1005·1	992·8	..	28·3	25·9	24·7	31·1	82	+1	3·9	−0.3	2·6	0	0	20	1	4	9	2	1	0	1	2	10	0
	1730	,,	1001·5	989·3	..	29·5	26·5	25·3	32·2	82	..	3·6	..	1·4	0	0	12	1	2	1	2	0	0	3	3	18	0
Nautanwa	0830	99	1004·8	993·9	..	27·9	25·8	24·7	31·1	83	..	4·0	..	3·3	0	0	23	3	1	8	7	1	1	2	0	7	0
	1730	,,	1001·3	990·2	..	30·3	26·4	24·7	31·1	71	..	2·9	..	3·2	0	0	22	3	2	7	4	0	3	2	1	8	0
Gorakhpur	0830	77	1005·5	996·7	−0·1	29·9	26·3	24·2	30·2	75	−6	4·6	+1·2	3·0	0	0	30	3	14	5	2	2	1	1	2	0	0
	1730	,,	1001·8	993·0	..	30·5	26·8	24·9	31·5	74	..	4·3	..	3.0	0	0	30	2	14	3	3	0	5	1	2	0	0
Gorakhpur (P.B.O)	0230	78	1002·8	994·0	..	27·3	26·2	25·8	33·2	92	..	4·1	..	3.4	0	0	19	1	5	4	1	0	6	2	0	11	0
	0530	,,	1003·2	994·4	..	26·8	25·6	25·2	32·1	91	..	4·9	..	2·5	0	0	16	2	3	3	2	1	1	4	0	14	0
	1130	,,	1004·6	995·9	..	30·3	27·1	25·9	33·4	78	..	6·4	..	4·8	0	0	29	0	5	7	4	0	9	3	1	1	0
	2330	,,	1003·8	995·1	..	27·9	26·6	26·2	34.0	91	..	3·8	..	2·9	0	0	21	1	9	1	0	1	5	3	1	9	0
Azamgarh	0830	78	1004·2	995·5	..	28·1	26·4	25·6	32·8	87	..	4.7	..	2·9	0	0	25	0	0	18	0	0	0	7	0	5	0
	1730	,,	1001·0	990·4	..	29·5	26·7	25·9	33·4	80	..	4·4	..	1·3	0	0	13	0	0	8	0	0	0	5	0	17	0
Ballia	0830	64	1005·0	998·0	..	29·0	26·2	24·9	31·5	82	..	5·0	..	2·5	0	0	19	0	7	4	1	0	0	5	2	11	0
	1730	,,	1001·5	994·4	..	30·1	27·3	26·3	34·2	80	..	4·9	..	1·4	0	0	12	0	6	3	0	0	1	1	1	18	0
Varanasi (Banaras)	0830	76	1004·5	996·1	−0·6	28·6	26·9	26·0	33·6	87	27	3·7	−0·5	3·7	0	0	22	1	6	4	0	1	5	4	1	8	0
	1730	,,	1001·3	993·0	..	30·3	27·2	25·7	33·0	77	..	4·7	..	3·9	0	0	26	3	5	3	1	0	3	6	5	4	0
Varanasi (Banaras) (Babatpur Aerodrome)	0530	85	1004·5	994·9	..	26·0	25·7	25·4	32·4	97	..	4·0	..	4·8	0	0	14	1	4	2	0	0	3	3	1	16	0
	0830	,,	1006·0	996·5	..	29·0	26·5	26·1	33·8	85	..	4·0	..	8·7	0	1	23	0	3	3	6	1	8	2	1	6	0
	1130	,,	1005·5	995·9	..	31·1	27·5	26·0	33·6	75	..	5·2	..	9·6	0	1	27	4	5	4	1	1	3	6	4	2	0
	1730	,,	1002·4	997·8	..	29·9	27·2	26·2	34·0	81	..	4·4	..	5·9	0	0	23	2	5	2	1	0	0	9	4	7	0
	2330	,,	1005·0	995·3	..	27·3	26·6	26·2	34·0	94	..	3·5	..	4·7	0	0	14	0	4	2	1	2	3	2	0	16	0
Allahabad (Bamrauli)	0230	98	1002·8	991·8	..	26·7	25·6	25·1	31·9	91	..	3·5	..	2·5	0	0	14	2	2	1	0	1	4	4	0	16	0
	0530	,,	1004.2	992·2	..	26·1	25·2	24·8	31·3	93	..	3·9	..	2·4	0	0	14	0	2	3	0	0	5	3	1	16	0
	0830	,,	1004·8	993·9	−0·4	29·4	26·2	24·9	31·5	77	2	4·3	−0·2	6.6	0	0	23	1	3	4	2	1	4	5	3	7	0
	1130	,,	1004.5	993·6	..	31·7	26·7	24·5	30·7	66	..	5·8	..	9·2	0	2	26	2	9	3	1	1	0	9	3	2	0
	1730	,,	1001·2	990·4	..	31·0	26.6	24·8	31·3	70	..	4·8	..	4·3	0	0	21	4	4	2	0	0	2	7	2	9	0
	2330	,,	1003·7	992·7	..	27·4	25·9	25·3	32·2	89	..	3·6	..	1·1	0	0	8	1	2	1	0	0	3	1	0	2	0
Sultanpur	0830	97	1004·2	994·1	..	29·9	26.5	25·0	31·7	76	..	4·9	..	1·4	0	0	14	0	0	6	0	0	1	6	1	16	0
	1730	,,	1006·8	990·1	..	29·9	26·5	25·0	31·7	76	..	5·2	..	0·7	0	0	8	0	0	4	0	0	0	4	0	22	0
Faizabad	0830	102	1004·8	993.3	..	28·2	25·8	24·6	30·9	72	..	4·3	..	2·5	0	0	18	2	2	4	3	1	0	5	1	12	0
	1730	,,	1001·2	989·8	..	29·3	26·5	25·3	32·2	80	..	4.6	..	1·8	0	0	12	2	0	3	0	0	2	4	1	18	0
Banda	0830	121	1005·2	991·7	..	29·5	26·2	24·8	31·3	77	..	2·3	..	1·8	0	0	13	0	1	0	2	0	5	4	1	17	0
	1730	,,	1004·4	997·8	..	31·8	27·4	25·8	33·2	71	..	3·1	..	3·0	0	0	23	0	6	0	3	0	6	0	8	7	0

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level height in g. p. m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km p.h.): 61 or more	Wind speed (Km p.h.): 20 to 61	Wind speed (Km p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —*Contd.*																											
Fatehpur	0830	114	1004·9	992·1	..	28·6	26·1	25·1	31·9	82	+1	2·8	−0·9	4·0	0	0	20	0	1	3	1	1	3	9	2	10	0
	1730	,,	1001·3	988·6	..	30·8	26·3	25.2	32·1	72	..	3·5	..	3·1	0	0	17	2	4	4	0	0	0	2	5	13	0
Kanpur	0830	126	1005·3	991·2	+0.2	28·4	25·5	24·2	30·2	79	−3	2·8	+0·2	7·9	0	0	28	1	0	9	2	3	3	8	2	2	0
	1730	,,	1001·7	988·0	..	30·7	25·9	23·8	29·5	68	..	3·7	..	8·6	0	0	30	5	6	3	0	1	2	12	1	0	0
Kanpur (Aerodrome)	0530	126	1003·4	989·0	..	25·8	24·7	24.2	30·2	91	..	3·3	..	5·5	0	1	16	1	3	0	1	3	5	4	0	13	0
	0830	,,	1004·9	990·7	..	28·5	25·8	24·4	30·5	78	..	3·4	..	12·6	0	5	20	1	2	2	4	3	4	7	2	5	0
	1130	,,	1004·8	990·7	..	31·9	26·0	23·4	28·8	62	..	4·5	..	16·2	0	5	23	3	3	6	2	2	1	7	4	2	0
	1730	,,	1001·5	987·4	..	31·1	25·7	23·3	28·6	65	..	4·0	..	12·1	0	1	28	9	6	3	1	1	1	5	3	1	0
	2330	,,	1003·8	989·5	..	27·1	25·4	24·6	30·9	87	..	2·4	..	5·4	0	0	19	2	0	3	2	2	5	5	0	11	0
Lucknow	0830	111	1005·6	993.2	+0·6	28·3	25·8	24·9	31·5	82	+3	3·0	−0·6	2·9	0	0	27	3	5	4	1	5	4	4	1	3	0
	1730	,,	1002·3	990·0	..	30·9	26·0	24·0	29·8	68	..	2 9	..	2·7	0	0	26	1	7	1	2	0	1	12	2	4	0
Lucknow (Amausi Aerodrome).	0230	128	1002·6	988·2	..	26·0	25·6	25·4	32·4	96	..	3·2	..	6·9	0	2	14	1	2	1	2	0	9	1	0	14	0
	0530	,,	1002·9	988·5	..	25·7	25·2	24·9	31·5	95	..	3·8	..	7·2	0	2	14	1	2	1	2	0	6	3	1	14	0
	0830	,,	1004·6	990·3	−0·5	28·6	26·7	25·8	33·2	85	+10	3·7	+0·1	10·0	0	5	19	0	3	3	5	1	5	5	2	6	0
	1130	,,	1004·5	990·3	..	31·1	28·0	26·9	35·4	78	..	4·9	..	12·4	0	4	21	1	4	5	4	1	1	5	4	5	0
	1730	,,	1001·1	987·0	..	30·4	28·0	27·1	35·9	83	..	4·0	..	8·0	0	2	21	4	3	3	0	1	2	4	6	7	0
	2330	,,	1003·5	989·1	..	26·7	26·2	25·9	33·4	95	..	3·2	..	5·2	0	1	14	0	2	3	0	1	6	3	0	15	0
Hardoi	0830	142	1004·6	988·7	..	28·4	25·9	24·8	31·3	81	..	2·9	..	5·8	0	0	26	0	4	4	4	2	3	8	1	4	0
	1730	,,	1001·1	985·4	..	31·0	27·1	25·5	32.6	73	..	2·8	..	3·5	0	0	19	2	1	4	1	0	0	8	3	11	0
Lakhimpur Kheri	0830	147	1005·2	988.7	..	27.4	25·8	25.2	32.1	88	..	3.4	..	2·0	0	0	18	0	3	4	5	0	1	5	0	12	0
	1730	,,	1001.1	984.7	..	28.3	26.7	25.5	32.6	80	..	2.5	..	1·9	0	0	17	0	4	2	2	0	1	8	0	13	0
Bahraich	0830	124	1005·2	991·2	..	28·2	25·6	24.5	30.7	79	+1	4.6	+1.8	5·9	0	0	25	0	1	10	6	2	1	4	1	5	0
	1730	,,	1002.1	988·3	..	29.8	26.0	24.4	30.5	74	..	4·7	..	4·5	0	0	27	2	1	8	1	0	0	14	1	3	0
Uttar Pradesh (West) Orai	0830	141	1016 4	990.7	..	30.0	25·9	24.2	30.2	72	..	2.0	..	3.8	0	0	25	2	0	0	0	1	4	1	17	5	0
	1730	,,	1001·4	985·8	..	30·7	26·3	24·1	30·0	69	..	3·2	..	3·6	0	0	30	9	5	0	0	0	5	3	8	0	0
Jhansi	0830	251	1005·1	977·0	−0.7	27·1	24·2	22·7	27·6	78	+4	2·6	−0·3	1·5	0	0	14	4	0	1	1	1	0	5	2	16	0
	1730	,,	1001·8	974·1	..	30·8	24·9	22·1	26·6	63	..	3·6	..	1·2	0	0	12	6	2	1	0	0	0	2	1	18	0
Agra	0830	169	1005·0	986·2	−0.1	28·0	24·7	23·2	28·4	75	0	0·9	−2·2	0·2	0	0	2	0	0	0	0	0	1	0	1	28	0
	1730	,,	1001·6	982·9	..	31·3	25·4	22.7	27·6	62	..	2·3	..	3·0	0	0	11	1	2	0	2	2	2	0	2	19	0
Agra (Aerodrome)	0530	169	1003·5	984·4	..	24·7	23·7	23·2	28·4	91	..	2·3	..	3·8	0	0	14	1	1	0	2	0	8	1	1	16	0
	0830	,,	1005·0	986·1	..	27·8	25.2	23.9	29.7	80	..	2·3	..	7·1	0	0	27	2	1	2	2	2	9	7	2	3	0
	1130	,,	1004·8	986·1	..	31·9	26.4	24·0	29·8	63	..	3·4	..	9·1	0	1	25	1	2	4	2	0	2	9	6	4	0
	1730	,,	1001·7	983·1	..	30·9	25.7	23·3	28 6	66	..	3·7	..	8·0	0	2	24	3	5	2	1	0	1	10	4	4	0
	2330	,,	1003·9	984·8	..	26·6	24·6	23·7	29.3	84	..	1·6	..	4·3	0	0	15	2	1	4	1	2	3	1	1	15	0
Mainpuri	0830	157	1003·4	986·0	−1.5	28·7	25·8	24·6	30·9	79	+3	1·6	−1·8	1·8	0	0	18	0	0	1	1	0	2	13	1	12	0
	1730	,,	1001·4	984·0	..	31·6	27·0	25·0	31·7	71	..	2·8	..	1·7	0	0	17	0	1	4	0	0	1	11	0	13	0
Aligarh	0830	187	1004·9	983·8	.	28·1	25·4	24·2	30.2	80	+9	2·7	+0·1	3·0	0	0	26	0	2	7	1	1	0	15	0	4	0
	1730	,,	1001·7	981·3	..	32·3	26·2	23·5	28·9	58	..	3·7	..	2·8	0	0	25	7	1	6	1	1	0	9	0	5	0
Bareilly	0830	173	1004·7	985·4	−0·5	28·5	25·6	24·3	30.4	79	−1	2·9	−0·4	4·7	0	0	23	1	2	5	4	2	4	4	1	7	0
	1730	,,	1000·5	981·5	..	30·2	25·9	24·1	30·0	71	..	3·2	..	1·8	0	0	12	0	2	2	1	1	0	1	5	18	0
Bareilly (P.B.O).	0230	172	1002·4	983·2	..	26·8	25·0	24·3	30·4	86	..	2·2	..	3·3	0	0	14	0	1	5	2	1	1	4	0	16	0
	0530	,,	1003·0	983·8	..	26.3	24·8	24·1	30·0	88	..	2·8	..	3·3	0	1	16	0	4	6	0	0	1	6	0	13	0
	1130	,,	1003·8	984·7	..	30·0	25·4	23.6	29·1	69	.	3·7	..	7·6	0	2	23	0	3	4	5	1	1	6	5	5	0
	2330	..	1003·3	984·0	..	27·6	25·5	24·7	31·1	85	..	2·0	..	2·2	0	0	13	0	0	5	3	1	0	3	1	17	0
Meerut	0830	222	1004·5	980·1	−0·3	28·8	25·4	23·8	29·7	75	−1	2·0	−0·4	3·2	0	0	16	1	1	4	0	0	0	8	2	14	0
Najibabad	0830	270	1005·0	974·9	..	26·3	24·5	23·5	28·9	84	..	2.4	..	4·3	0	0	24	1	3	10	6	0	0	1	3	6	0
	1730	,,	1001·9	972·4	..	31·5	26·4	23·7	29·3	65	..	1·5	..	3·4	0	0	26	3	1	1	1	0	1	5	14	4	0
Roorkee	0830	274	1004·4	973·9	−0·8	27·1	24·6	23·3	28·6	80	+1	3·9	+1·0	0·5	0	0	5	0	0	0	2	0	1	0	2	25	0
	1730	,,	1000·7	970·7	..	31·5	26·1	23·6	29·1	63	..	3·5	..	0·6	0	0	6	0	0	0	1	0	0	1	4	24	0
Dehra Dun	0530	682	1004·0	926·8	..	22·1	20·8	20·1	23·5	88	..	3·9	..	2·7	0	0	21	4	8	2	2	0	0	5	0	9	0
	0830	,,	1004·7	930·2	−0·3	25·4	22·2	20·8	24·6	75	−5	3·2	−0·6	1·6	0	0	16	2	4	2	6	1	1	0	0	14	0
	1130	,,	1004·5	930·6	..	27·7	23·2	21·2	25·2	70	..	4·2	..	2·7	0	0	25	1	2	5	8	2	6	2	1	5	0
	1730	,,	1001·4	927·7	..	27.5	23·7	22·0	26·4	73	..	4·2	..	1·7	0	0	15	1	2	0	2	0	3	5	2	15	0
	2330	,,	1004·1	929·1	..	23·4	21·8	21·0	24·8	87	..	2.0	..	2·9	0	0	25	10	7	0	0	1	1	4	2	5	0

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)																											
New Delhi	0230	216	1002·9	978·7	..	26·6	23·8	22·7	27·6	78	..	1·1	..	4·9	0	0	12	0	1	1	1	0	1	8	0	18	0
	0530	,,	1003·3	979·0	..	25·7	23·3	22·2	26 7	79	..	1.8	..	5.0	0	0	13	0	0	0	1	0	2	9	1	17	0
	0830	,,	1004·8	980·7	−0·3	28·6	24·3	22·4	27·1	69	−5	1·6	−1·7	11·5	0	4	21	0	2	4	0	2	3	10	4	5	0
	1130	,,	1004·6	980·9	..	32·6	25·5	21·6	25.8	53	..	2·3	..	11·9	0	7	19	2	2	4	3	0	0	5	10	4	0
	1730	,,	1001·1	977·4	..	33·2	25·0	21·0	24·9	50	..	2·3	..	6·7	0	0	23	2	2	3	2	0	1	3	10	7	0
	2330	,,	1003·5	979·3	..	27·2	24·3	22·6	27·4	73	..	1·4	..	3·5	0	0	12	0	1	2	1	1	4	2	1	18	0
New Delhi Palam (Aerodrome)	0230	233	1002·8	976·9	..	26·3	23·8	22·6	27·4	80	..	1·5	..	7·0	0	0	25	2	0	4	2	7	7	2	1	5	0
	0530	,,	1003·4	977·2	..	24·6	23·0	22·2	26·7	87	..	1·8	..	6·9	0	0	22	1	1	5	1	1	12	1	0	8	0
	0830	,,	1004·8	978·8	..	28 2	24·4	23·7	27·6	71	..	2·0	..	12·2	0	7	22	1	2	3	3	4	6	9	1	1	0
	1130	,,	1004·8	979·1	..	32·9	25·8	22·7	27·6	54	..	2·4	..	16·6	0	12	17	1	2	5	3	2	0	9	7	1	0
	1430	,,	1002·2	976·8	..	33·9	26·2	22·8	27·7	53	..	3·3	..	15·2	0	9	20	2	4	3	2	0	0	4	14	1	0
	1730	,,	1001·1	975·6	..	32 9	25·3	21·6	25·8	52	..	2·5	..	13·2	0	4	26	5	4	4	1	0	2	6	8	0	0
	2030	,,	1002·7	976·8	..	29·5	25·1	23·0	23·1	69	..	1·8	..	6·4	0	1	22	3	4	4	2	2	4	1	3	7	0
	2330	,,	1003·5	977·4	..	26·8	24·2	22·7	27·6	78	..	1·4	..	7·9	0	0	29	1	3	6	4	4	9	1	1	1	0
Hissar . . .	0530	221	1003·4	978·6	..	24·9	23·0	22·0	26·4	85	..	1·3	..	6·4	0	0	30	1	2	4	7	2	13	1	0	0	0
	0830	,,	1004·2	978·8	−1·5	28·1	24·4	22·6	27·6	72	+7	0·9	−0·7	5.3	0	0	30	1	0	1	3	2	19	4	0	0	0
	1130	,,	1004·7	980·4	..	33·5	25·9	22·4	27·1	54	..	1·0	..	5·9	0	0	30	1	1	3	3	1	10	6	5	0	0
	1730	,,	1001·2	977·1	..	33·5	25·8	22·0	26·4	52	..	1·4	..	4·3	0	0	27	3	5	1	3	2	11	1	1	3	0
	2330	,,	1003·3	978·9	..	27·6	24·1	22·4	27·1	74	..	0·7	..	6.3	0	0	28	1	2	0	12	3	8	2	0	2	0
Karnal . . .	0830	249	1005·0	977·1	..	28·5	24·9	23·0	28·1	70	..	0·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1001·0	973·6	..	31·8	26·2	23·0	28·1	64	..	0·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Patiala . .	0830	251	1004·4	976·6	..	28·2	24·4	22·7	27·6	72	..	1·9	..	3·8	0	0	19	0	0	0	7	0	0	0	12	11	0
	1730	,,	1001·4	974·0	..	32·5	25·3	22·0	26·4	55	..	1·5	..	2·8	0	0	14	1	1	0	1	0	0	0	11	16	0
Ambala . . .	0830	272	1004·4	974·1	−0·6	26·8	24·4	23·0	28·1	80	+6	1·5	−1·8	2·0	0	0	13	0	0	0	5	0	4	0	4	17	0
	1730	,,	1000·7	971·0	..	32·5	25·1	21·4	25 5	53	..	1·3	..	2·0	0	0	18	0	4	0	10	0	1	0	3	12	0
Ambala (P.B.O.) .	0230	278	1002·2	971·2	..	26·1	23·9	23·1	28·3	84	..	1·6	..	3·9	0	0	17	1	2	4	7	1	1	0	1	13	0
	0530	,,	1002·6	971·5	..	25·3	23·5	22·7	27·6	86	..	2·1	..	4·4	0	0	20	0	4	0	11	1	1	3	0	10	0
	1130	,,	1004.2	973·7	..	31·3	25·4	22·9	27 9	61	..	1·2	..	6·6	0	0	26	0	0	3	8	1	2	8	4	4	0
	2330	,,	1002·6	971·7	..	27·8	24·5	23·5	28·9	76	..	1·1	..	4.7	0	0	20	3	2	0	5	0	4	1	5	10	0
Ambala (Aerodrome) .	0530	274	1002·9	972·0	..	23·8	22·8	22·2	26 7	91	..	2·2	..	4·0	0	0	11	0	0	3	3	0	2	2	1	19	0
	0830	,,	1004·2	973·6	..	27·1	24·3	23·0	28·1	77	..	2·2	..	9·0	0	2	21	0	0	10	5	1	0	3	4	7	0
	1130	,,	1003·9	973·6	..	31·3	25·4	22·7	27·6	61	..	2·0	..	11·5	0	3	24	1	0	6	7	2	0	7	3	3	1
	1730	,,	1000·6	970·6	..	31·9	24·8	21·4	25·5	55	..	2·4	..	11·4	0	2	22	0	1	0	1	0	1	12	9	6	0
	2330	,,	1002·8	972·1	..	25·6	23·5	22·2	26·7	80	..	1·5	..	4·9	0	1	12	0	0	3	1	0	0	5	4	17	0
Chandigarh . .	0830	347	1003·6	965·4	..	28·9	24·2	21·9	26·3	66	..	1·3	..	2·0	0	0	19	2	2	0	4	0	0	0	11	11	0
	1730	,,	1000·7	963·0	..	31·7	24·6	21·0	24·9	54	..	2·0	..	1·6	0	0	17	1	1	1	3	0	0	0	11	13	0
Ludhiana . .	0830	247	1004·0	976·5	−1·0	27·9	24·4	22·5	27·2	73	+1	1·4	−0·4	4·3	0	0	27	1	2	4	4	5	3	6	2	3	0
	1730	,,	1000·6	973·7	..	33·6	25·6	21·7	25·9	50	..	1·5	..	3.3	0	0	23	4	8	0	1	0	0	3	7	7	0
Halwara (Aerodrome) .	0830	242	1004·9	978·0	..	28·3	24·1	22·1	26·6	69	..	1·2	..	7·8	0	2	20	0	0	0	9	2	4	4	3	8	0
	1730	,,	1002·0	975 7	..	34·2	24·7	19·8	23·1	44	..	1·4	..	9·2	0	1	25	5	3	0	1	0	2	1	14	4	0
Bhatinda . .	0830	211	1003·8	980 4	..	30·0	25·1	22·8	27·7	65	..	0·9	..	6·9	0	0	28	1	2	0	5	6	7	3	4	2	0
	*1730	,,	1000·8	977·7	..	35·7	25·9	21·2	25·2	43	..	1·6	..	5·0	0	0	28	6	2	1	0	2	3	2	12	2	0
Ferozepur . .	0830	200	1003·4	981·0	..	28·9	23·8	21·3	25·3	65	..	0·6	..	0·5	0	0	6	0	0	0	3	0	2	0	1	24	0
	1730	,,	1000·1	978·4	..	35·4	25·4	20·8	24·6	44	..	0·4	..	1·4	0	0	13	5	0	0	0	0	1	1	6	17	0
Amritsar . .	0530	234	1003·0	976·6	..	23·7	22·5	21·9	26·3	90	..	0·7	..	4·0	0	0	19	1	1	2	4	6	3	1	1	11	0
	0830	,,	1004·3	978·2	..	27·9	24·1	22·3	26·9	72	..	0·8	..	5·7	0	1	18	1	0	4	5	3	3	2	1	11	0
	1130	,,	1004·4	978·8	..	33·2	25·0	21·3	25·3	51	..	1·0	..	9·0	0	1	27	2	0	4	1	7	5	6	3	2	0
	1730	,,	1000·9	975·3	..	33·6	24·6	20·0	23·4	46	..	5·1	..	9·4	0	1	28	6	0	1	1	1	2	2	16	1	0
Pathankot (Aerodrome)	0830	312	1004·4	969·8	..	27·2	23·6	21·6	25·8	70	..	2·7	..	1·9	0	0	18	1	6	7	3	0	1	0	0	12	0
	1130	,,	1004·4	970·3	..	31·2	24·8	21·8	26.1	58	..	3·1	..	2·4	0	0	20	0	2	2	2	3	7	3	1	10	0
	1730	,,	1000·9	967·0	..	32·3	24·9	21·3	25·3	52	..	2.2	..	3·1	0	0	17	1	1	1	1	0	3	7	3	13	0
Adampur (Aerodrome). (R)	0530	238																									
(R)	0830	,,																									
(R)	1130	,,																									
(R)	1730	,,																									
(R)	2330	,,																									

*Observations for 30 days. (R) Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Himachal Pradesh																											
Bilaspur	0830	493	1005·6	951·1	..	24·5	22·1	20·8	24·6	80	..	2·1	..	2·0	0	0	19	3	5	0	0	4	2	0	5	11	0
	1730	,,	1001·3	947·9	..	30·8	24·0	20·9	24·7	56	..	2·6	..	3·2	0	0	28	1	1	0	1	4	3	6	12	2	0
Mandi	0830	761	1005·1	921·6	..	22·4	20·2	19·1	22·1	78	..	2·4	..	0·1	0	0	1	0	0	0	0	1	0	0	0	29	0
	1730	,,	999·8	918·7	..	28·8	23·5	21·0	24·9	62	..	3·3	..	0·8	0	0	8	0	0	1	0	0	1	0	6	22	0
Jammu and Kashmir																											
Srinagar	0830	1587	1483·6	840·0	+0·1	16·2	13·7	11·9	14·0	76	9	2·1	—0·2	1·4	0	0	9	0	0	1	7	0	0	0	1	21	0
	1130	,,	1478·4	839·7	..	23·5	16·4	12·3	13·7	49		2·2	..	2·0	0	0	12	2	1	0	4	1	0	0	4	18	0
	1730	,,	1445·1	836·5	..	24·5	16·4	11·2	13·4	44	..	2·7	..	2·0	0	0	10	0	1	0	2	1	1	3	2	20	0
Srinagar (Aerodrome)	0530	1666	1463·7	830·5	..	13·3	11·0	9·2	11·6	77	..	2·5	..	2·5	0	1	7	0	1	1	0	0	1	4	1	22	0
	0830	,,	1475·1	831·9	..	17·8	13·3	10·2	12·5	62	..	2·0	..	4·0	0	0	21	1	3	3	2	3	0	2	7	9	0
	1130	,,	1472·1	831·9	..	23·2	15·7	10·7	12·9	47	..	2·4	..	6·7	0	1	24	5	6	9	0	2	0	2	1	5	0
	1730	,,	143·8	828·9	..	25·4	14·9	06·9	10·3	33	..	3·1	..	8·3	0	3	20	4	0	2	2	1	1	4	9	7	0
	2330	,,	1461·8	830·5	..	16·5	12·7	09·9	12·2	66	..	1·3	..	1·9	0	0	8	0	0	0	1	0	2	2	3	22	0
Gulmarg (R)	0830	2655																									
(R)	1730	,,																									
Leh	0530	3514	3095·0	665·7	..	07·4	02·6	—3.5	4·6	46	..	1·6	..	5·3	0	0	(b) 23	5	17	0	0	0	1	0	0	6	0
	0830	,,	3095·1	666·3	—0.9	13·5	05·8	—2·8	4·8	33	—1·7	1·6	—1·3	2·3	0	0	13	3	1	0	1	5	2	0	1	17	0
	1730	,,	3037·7	662·7	..	18·8	09·3	0·6	6·4	30	..	2·3	..	10·2	0	0	28	0	0	0	1	4	16	2	5	2	0
Skardu (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Misgar (R)	0830																										
(R)	1730																										
Jammu*	0830																										
Jammu (Aerodrome)	0530	292	1003·2	970·2	..	24·8	22·5	21·3	25·3	82	..	1·9	..	3·2	0	0	11	0	8	0	1	0	1	1	0	19	0
	0830	,,	1004·3	971·6	..	27·6	23·6	21·6	25·8	70	..	1·9	..	7·2	0	2	19	1	13	2	3	0	0	0	2	9	0
	1130	,,	1004·4	972·2	..	31·6	24·7	21·3	25·3	55	..	2·1	..	6·8	0	2	20	1	9	1	3	2	4	1	1	8	0
	1730	,,	1001·0	969·0	..	32·6	25·1	21·5	25·6	54	..	2·1	..	5·9	0	0	19	0	1	0	2	1	1	9	5	11	0
Rajasthan (West)																											
Sriganganagar	0530	177	1002·6	982·7	..	26·2	22·1	19·6	22·8	69	..	0·9	..	1·9	0	0	14	0	1	4	3	0	6	0	0	16	0
	0830	,,	1003·8	984·0	..	28·1	23·1	20·5	24·1	63	+3	0·2	—0·5	3·3	0	0	20	0	1	2	5	2	10	0	0	10	0
	1130	,,	1003·9	984·6	..	35·2	24·5	18·9	12·8	39	..	0·6	..	4·7	0	0	28	0	1	2	7	2	9	5	2	2	0
	1730	,,	1000·3	981·1	..	36·3	24·5	18·7	21·6	36	..	1·2	..	2·4	0	0	16	0	4	0	1	1	6	2	2	14	0
	2330	,,	1002·5	982·8	..	28·3	22·6	19·7	22·9	60	..	0·5	..	1.6	0	0	8	1	0	2	2	1	1	1	0	22	0
Churu	0830	291	1004·9	972·5	..	27·7	23·8	21·7	25·9	69	..	1·1	..	10.6	0	1	28	0	1	3	2	6	7	10	0	1	0
	1730	,,	1000·8	969·3	..	35·2	25·4	20·2	23·7	43	..	1·9	..	9.8	0	1	27	15	2	1	0	1	6	2	1	2	0
Bikaner	0830	224	1004·4	979·5	—0·7	29·0	23·0	19·6	22·8	58	—10	0·1	—1·4	6·8	0	0	29	0	0	1	4	0	19	2	3	1	0
	1730	,,	1000·4	976·2	..	37·2	25·0	18·2	20·9	34	..	0·2	..	6·3	0	0	30	3	2	2	2	1	10	3	7	0	0
Bikaner (P. B. O.)	0530	224	1002·9	977·8	..	26·7	23·9	22·4	27·1	78	..	0·8	..	4·3	0	0	19	0	1	0	3	8	6	1	0	11	0
	1130	,,	1004·1	979·7	..	35·9	28·4	25·2	32·0	56	..	1·0	..	6·0	0	0	24	1	3	1	0	4	7	4	4	6	0
	2330	,,	1002·8	978·0	..	30·0	25·2	22·9	27·9	67	..	0·9	..	3·6	0	0	14	0	1	0	1	9	3	0	0	16	0
Jaisalmer	0830	242	1003·7	976·9	..	27·5	22·5	19·8	23·0	65	..	1·1	..	2·1	0	9	21	1	1	0	0	14	14	0	0	0	0
	1730	,,	1000·2	974·3	..	37·3	23·5	15·2	17·3	28	..	1·5	..	18·8	0	8	22	1	1	0	0	15	13	0	0	0	0
Phalodi	0830	234	1005·1	979·1	..	28·0	22·9	19·8	23·1	65	..	1·5	..	15·8	0	8	22	0	0	1	2	7	14	5	1	0	0
	1730	,,	1001·8	976·4	..	36·7	24·6	17·9	20·1	37	..	2·4	..	16·2	0	7	23	4	2	1	1	7	8	3	4	0	0
Nagaur	0830	298	1004·4	971·1	..	29·7	23·1	19·4	22·5	54	..	1·3	..	11·1	0	4	26	1	2	2	3	4	12	5	1	0	0
	1730	,,	999·6	967·5	..	35·5	23·2	15·9	18·1	33	..	2·7	..	8·8	0	0	30	6	2	2	1	6	6	3	4	0	0
Jodhpur	0230	224	1003·3	978·3	..	28·4	22·3	18·8	21·7	58	..	1·7	..	7·7	0	0	26	0	0	0	1	2	14	6	3	4	0
	0530	,,	1003·8	978·6	..	26·6	22·0	19·3	22·4	66	..	1·6	..	6·3	0	0	22	1	1	0	0	0	16	3	1	8	0
	0830	,,	1005·4	980·4	+0·7	28·6	22·8	19·5	22·7	61	—12	2·2	—1·0	10·2	0	3	21	1	0	0	0	1	13	7	2	6	0
	1130	,,	1005·2	980·6	..	33·6	23·7	18·0	20·6	42	..	2·9	..	11·1	0	3	25	1	0	1	2	1	14	5	3	2	1
	1730	,,	1001·2	976·9	..	36·1	23·8	16·6	18·9	34	..	3·4	..	11·7	0	3	25	2	2	1	1	0	13	3	5	2	1
	2330	,,	1003·8	979·1	..	30·5	22·8	18·4	21·1	50	..	2·5	..	7·5	0	0	28	1	1	0	1	5	11	7	2	2	0
Barmer	0530	194	1003·3	981·5	..	26·5	22·2	19·8	23·2	69	..	1·7	..	5·2	0	0	27	1	4	0	1	1	14	2	4	3	0
	0830	,,	1004·7	982·9	—0·7	27·5	22·8	20·3	23·8	66	—5	2·6	0	5·1	0	0	29	4	0	0	2	5	11	1	6	1	0
	1130	,,	1004·9	983·5	..	33·8	23·7	18·0	20·6	42	..	2·8	..	6·2	0	0	30	2	3	0	0	8	6	8	3		0
	1730	,,	1000·9	979·9	..	36·5	23·6	16·1	18·3	33	..	3·2	..	6·3	0	1	29	3	3	1	2	9	6	3		0	0
	2330	,,	1003·3	981·9	..	30·7	22·9	18.5	21·6	50	..	1·1	..	6·5	0	0	29	1	0	0	1	5	8	11		1	0

(R) Register not received. *Temporarily closed. (b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—*Contd.*																											
Pilani	0830	301	1005·1	972·0	..	28·6	23·9	21·8	26·1	67	..	0·1	..	12.3	0	3	26	0	1	1	4	3	10	9	1	1	0
	1730	,,	1001.2	968·8	..	34·1	24·7	20·1	23·5	45	..	0·4	..	11·3	0	3	26	0	1	1	4	3	10	9	1	1	0
Alwar	0830	271	1003·8	973·5	..	27·2	23·6	21·8	26·1	71		2·0	..	1·9	0	0	9	0	0	1	0	0	0	6	2	21	0
	1730	,,	1001·5	971·9	..	33·0	24·8	21·2	25·2	51	..	3·3	..	2·5	0	0	16	0	5	1	1	2	3	3	1	14	0
Sikar	0830	433	1004·9	957·4	..	28.1	23.5	21·0	24·9	65	..	1·8	..	2·8	0	0	28	1	0	1	1	5	4	15	1	2	0
	1730	,,	1000·7	954·1	..	33·5	24·4	19·6	22·8	47	..	3·3	..	2·3	0	0	20	1	3	1	2	0	4	13	2	4	0
Jaipur (Sanganer Aerodrome)—*Contd.*	0230	390	1003·5	960·0	..	24·6	22·9	22·0	26·4	85	..	1·9	..	4·3	0	0	22	1	2	5	0	0	2	4	8	8	0
	0530	,,	1004·0	960·4	..	23·6	22·3	21·6	25·8	89	..	2·4	..	3·6	0	0	21	4	2	3	0	0	1	4	7	9	0
	0830	,,	1005·0	962·0	..	27·7	24·1	22·2	26·7	73	..	2·3	..	7·0	0	0	22	0	1	5	1	0	0	8	7	8	0
	1130	,,	1004·4	961·9	..	32·0	25·3	22·0	26·4	57	..	2·4	..	11·4	0	3	27	2	3	5	1	0	3	10	6	0	0
	1730	,,	1001·1	958·8	..	32·2	25·1	21·4	26·7	56	..	2·8	..	7·5	0	1	28	3	4	6	0	0	4	7	5	1	0
	2330	,,	1003·9	960·7	..	26·4	23·5	22·0	26·4	79	..	1·9	..	5·0	0	0	25	0	3	9	3	0	3	4	3	5	0
Dholpur	0830	176	1004·6	984.9	..	28·1	24·8	23·2	25·4	76	..	2·5	..	5·2	0	0	19	1	0	1	2	1	5	8	1	11	0
	1730	,,	1001·1	981·6	..	31·4	25·1	22·6	27·4	61	..	3·7	..	5.4	0	0	16	2	3	0	1	1	1	6	2	14	0
Tonk	0830	272	1004·4	974·4	..	28·0	24·0	22·5	29·8	73	..	2·3	..	6·8	0	0	30	2	4	2	2	2	5	7	6	0	0
	1730	,,	1000·2	970·6	..	33·1	25·0	19·9	23·2	50	..	3·2	..	5·5	0	0	30	4	7	2	1	0	5	5	6	0	0
Ajmer	0830	486	1005·2	951·8	—0·9	27·1	22·1	19·6	22·8	64	—3	2·5	—0·3	8·6	0	2	17	0	0	0	0	0	12	7	0	11	0
	1730	,,	1000·5	948·4	..	33·3	22·5	16·6	18·9	40	..	3·6	..	8·7	0	0	28	5	6	0	0	0	6	9	2	2	0
Kotah	0530	257	1004·1	975·4	..	26·1	23·1	21·6	25·8	78	..	2·2	..	2·4	0	0	11	0	0	0	0	1	7	3	0	19	0
	0830	,,	1005·6	977·0	—0·3	28·7	24·1	21·8	26·1	67	—2	1·9	—1·1	2·7	0	0	21	0	0	1	0	0	3	14	3	9	0
	1130	,,	1005·3	977·1	..	32·4	25·1	21·4	25·5	54	..	2·2	..	2·4	0	0	16	0	0	1	0	0	6	4	5	14	0
	1730	,,	1002·0	973·9	..	32·5	24·8	20·8	24·6	52	..	3·2	..	1.3	0	0	15	0	0	2	0	0	2	7	4	15	0
	2330	,,	1004·4	975·8	..	28·2	23·6	21·4	25·5	67	..	1·8	.	1·6	0	0	8	0	0	0	0	0	7	1	0	22	0
Chambal	0830	351	1005·9	966·8	..	26·4	23·4	22·0	26·4	76	..	3·1	..	4·7	0	0	18	1	0	0	1	1	8	5	2	12	0
	1730	,,	1001·7	963·5	..	31·9	23·8	19·3	22·4	50	..	4·2	..	8·1	0	2	27	2	7	1	0	0	4	6	9	1	0
Jhalawar	0830	321	1005·5	969·8	—0·1	26·7	23·7	22·1	26·6	76	—5	2·7	—1·1	2·7	0	0	23	1	2	1	1	0	9	8	1	7	0
	1730	,,	1001·6	966·7	..	32·4	24·7	20·7	24·4	50	..	3·2	..	3·4	0	0	27	4	4	3	1	0	5	6	4	3	0
Udaipur	0230	582	1004·9	940·7	..	23·5	21·2	20·0	23·4	81	..	2·3	..	2·2	0	0	9	0	0	1	0	2	4	1	1	21	0
	0530	,,	1005·1	940·7	..	22·8	20·8	19·8	23·1	84	..	2·7	..	1·1	0	0	6	0	0	0	0	1	3	2	0	24	0
	0830	,,	1006·0	942·1	—0·8	26·2	22·0	19·7	22·9	69	—6	2·5	—0·4	2·3	0	0	13	0	1	0	0	0	5	3	4	17	0
	1130	,,	1005·2	942·3	..	30·7	23·1	19·1	22·1	53	..	3·4	..	5·0	0	0	23	1	3	2	1	3	5	7	1	7	0
	1730	,,	1002·3	939·3	..	30·2	23·2	19·7	22·9	55	..	4·3	..	4·5	0	0	24	1	1	1	0	6	7	6	2	6	0
	2330	,,	1005·9	941·7	..	24·3	21·6	20·3	23·8	79	..	2·7	..	0·9	0	0	3	0	0	0	1	0	1	1	0	27	0
Erinpura (Jowai Dam)	0830	295	1006·1	973·1	..	26·6	23·4	21·9	26·3	75	..	3·5	..	7·0	0	0	25	0	0	0	1	17	6	1	0	5	0
	1730	,,	1002·2	969·9	..	32·2	25·3	21·8	26·1	54	..	3·7	..	4·2	0	0	24	3	0	0	1	5	6	8	1	8	0
Madhya Pradesh (West)																											
Gwalior	2330	207	1003·2	979·9	..	25·2	23·5	22·6	27·6	86	..	2·5	..	3·3	0	0	13	1	0	0	1	1	8	2	0	17	0
	0530	,,	1003·6	980·3	..	24·6	22·9	22·1	26·7	87	..	3·2	..	4·7	0	2	11	1	0	0	2	0	6	4	0	17	0
	0830	,,	1005·0	981·9	+0·2	28·1	24·5	22·8	27·8	73	—3	3·0	—0·8	6·9	0	0	24	2	1	0	2	1	7	10	1	6	0
	1130	,,	1004·8	982·0	..	31·2	25·4	22·7	27·8	62	..	3·3	..	8·3	0	1	26	2	4	1	3	0	0	11	6	3	0
	1730	,,	1001·6	978·8	..	31·1	25·1	22·3	26·8	61	..	3·9	..	6·2	0	0	28	5	4	2	1	1	2	6	7	2	0
	2330	,,	1003·9	980·7	..	26·0	24·0	23·0	28·3	84	..	2·2	..	4·0	0	0	17	1	0	1	1	0	10	3	1	13	0
Sheopurkalan	0830	235	1005·4	979·3	..	27·2	24·3	22·9	28·1	77	..	3·2	..	6·2	0	0	25	0	2	2	5	7	3	2	3	5	0
	1730	,,	1001·2	975·4	..	31·5	25·4	22·6	27·0	61	..	3·9	..	7·7	0	0	28	4	7	6	2	0	2	4	3	2	0
Guna	0530	478	1004·5	951·2	..	22·7	21·5	20.9	24·8	90	..	3·4	..	1·8	0	0	10	1	0	0	0	0	5	3	1	20	0
	0830	,,	1005·9	953·1	+0·4	26·3	23·3	21·9	26·5	77	—6	4·0	+0·3	4·1	0	0	24	4	0	2	0	0	1	17	0	6	0
	1130	,,	1005·0	952·9	..	29·8	23·9	21·4	25·4	62	..	4·1	..	4·8	0	0	29	7	1	3	1	2	3	7	5	1	0
	1730	,,	1001·8	949·7	..	29·3	23·5	20·8	24·7	62	..	4·2	..	7·3	0	3	23	4	3	1	0	0	1	9	8	4	0
	2330	,,	1004·6	951·7	..	24·6	22·4	21·4	25·5	83	..	2·7	..	1·9	0	0	18	1	1	2	3	3	6	2	0	12	0
Rajgarh	0830	382	1005·4	963·0	..	26·0	22·9	21·4	25·5	75		3·0	..	6·8	0	0	27	5	7	0	1	1	0	13	0	3	0
	1730	,,	1001·5	959·9	..	31·1	23·3	18·9	22·4	51	..	8	..	7·4	0	0	28	5	6	0	0	2	0	15	0	2	0
Neemuch	0830	496	1006·5	951·7	—0·3	25·8	22·2	20·3	24·2	74	—5	2·9	+0·3	9·5	0	2	24	0	5	2	0	0	5	10	4	4	0
	1730	,,	1002·8	949·0	..	29·8	22·8	19·3	22·7	56	..	3·9	..	11·8	0	0	30	5	8	0	1	1	7	8	0	0	0
Ratlam	0830	486	1006·8	952·7	..	24·2	22·3	21·4	25·7	86	..	5·0	..	6·4	0	0	22	1	2	0	1	0	8	9	1	8	3
	1730	,,	1002·8	949·7	..	29·1	23·0	20·0	23·3	61	..	5·1	..	12·5	0	0	29	4	7	2	0	0	4	9	3	1	0
Alirajpur	0830	293	1007·5	974·6	..	25·1	23·5	22·8	27·6	87	..	5·0	..	9·4	0	0	26	0	1	2	0	0	7	14	5	2	0
	1730	,,	1003·5	971·3	..	29·4	24·7	22·5	27·3	66	..	4·6	..	10·6	0	1	28	1	1	1	0	0	6	17	3	1	0

Division and station	Hour of observation I.S.T.	Station elevation	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.ph.): 62 or more	Wind speed (Km.ph.): 20 to 61	Wind speed (Km.ph.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Indore	0530	567	1005·5	942·3	..	21·7	20·7	20·2	23·7	91	..	4·2	..	11·6	0	6	21	1	0	1	0	1	11	7	6	3	0
	0830	,,	1006·6	944·0	—0·5	24·3	22·3	21·3	25·4	84	+1	4·8	—0·6	15·4	0	9	19	2	1	2	0	0	5	11	7	2	0
	1130	,,	1005·7	943·9	..	28·5	23·3	20·9	24·9	65	..	4·6	..	16·9	0	8	22	5	7	2	0	0	4	6	5	0	1
	1730	,,	1002·3	940·7	..	28·4	22·7	19·9	24·2	62	..	5·0	..	15·5	0	7	23	3	5	3	0	0	5	7	7	0	0
	2330	,,	1005·9	943·1	..	23·4	21·4	20·3	21·7	83	..	3·0	..	9·5	0	3	23	1	1	2	0	1	16	2	3	4	0
Ujjain	0830	..	..	..	..	25·5	22·9	21·8	25·9	80	..	3·8	..	13·1	0	6	23	2	2	3	0	0	0	11	11	1	0
Bhopal (Bairagarh)	0230	523	1004·4	946·4	..	23·5	21·6	20·7	24·5	85	..	3·3	..	6·3	0	0	21	2	2	0	0	1	2	10	4	9	0
	0530	,,	1004·9	946·7	..	22·5	21·5	20·5	24·9	89	..	4·0	..	7·1	0	1	25	1	2	4	1	0	4	7	7	4	0
	0830	,,	1005·8	948·2	—0·1	26·0	22·9	21·5	25·8	77	—6	4·1	—0·5	10·4	0	0	27	2	3	4	1	0	2	7	8	3	0
	1130	,,	1005·1	948·2	.	29·4	23·4	20·5	24·5	60	..	4·2	..	12·2	0	0	30	3	6	3	2	0	1	10	5	0	0
	1730	,,	1001·8	945·0	..	29·3	22·7	19·2	22·8	57	..	4·9	..	12·9	0	2	27	10	4	1	1	0	3	2	8	1	0
	2330	,,	1005·2	947·3	..	24·6	22·1	20·8	24·8	80	..	3·3	..	5·6	0	0	23	2	6	3	0	1	6	4	1	7	0
Khandwa	0830	318	1006·7	971·2	—0·4	26·3	23·0	21·5	25·0	75	—6	5·6	+1·2	4·3	0	0	30	0	2	0	1	1	3	12	11	0	0
	1730	,,	1002·2	967·3	..	30·7	23·9	20·5	24·2	56	..	6·1	..	4·6	0	0	30	6	2	0	1	1	3	6	11	0	0
Hoshangabad	0830	302	1005·9	972·1	—1·0	25·9	23·4	22·2	26·7	81	—4	5·1	+0·1	2·7	0	0	19	1	1	5	0	0	3	8	1	11	0
	1730	,,	1001·7	968·4	..	30·6	24·3	21·1	25·3	58	..	5·0	..	2·0	0	0	17	0	3	4	0	0	7	3	0	13	0
Betul	0830	653	1006·6	934·8	..	24·5	22·2	21·1	26·0	82	..	5·1	..	4·8	0	0	27	2	4	1	2	1	1	9	7	3	0
	1730	,,	1001·9	931·2	..	27·5	23·0	20·9	24·8	70	..	6·2	..	5·5	0	0	29	8	4	2	1	0	0	8	6	1	0
Chhindwara	0830	685	1005·4	930·7	..	25·5	22·5	21·1	25·1	77	..	5·0	..	5·1	0	0	21	5	6	1	0	0	0	4	5	9	0
	1730	,,	1001·6	927·5	..	27·2	22·4	20·1	23·5	67	..	6·3	..	6·9	0	0	28	4	6	3	0	0	2	3	10	2	0
Seoni	0830	619	1005·3	937·7	—0·2	25·7	23·2	22·0	26·6	80	+1	5·7	+1·4	2·8	0	0	18	3	1	2	0	0	4	4	4	12	0
	1730	,,	1001·4	934·4	..	27·6	23·2	20·8	25·1	67	..	6·6	..	2·2	0	0	17	4	4	0	2	0	2	0	5	13	0
Sagar	0830	551	1005·4	944·7	—0·3	25·4	23·0	21·8	26·4	81	0	3·3	—0·9	6·8	0	0	28	1	4	5	1	0	3	9	5	2	0
	1730	,,	1001·1	941·3	..	28·5	23·2	20·7	24·5	62	..	4·7	..	5·2	0	0	23	0	3	3	0	0	1	10	6	7	0
Nowgong	0830	229	1005·5	980·0	—0·1	27·6	24·9	23·8	29·3	80	—1	2·6	—1·4	5·1	0	0	27	2	3	2	1	4	7	4	2	3	2
	1730	..	1001·2	976·6	..	31·0	25·5	22·7	28·1	63	..	4·1	..	4·7	0	0	26	1	10	0	0	0	10	1	4	4	0
Madhya Pradesh (East)																											
Sutna	0530	317	1003·5	968·0	..	24·8	23·9	23·5	28·9	92	..	5·7	..	2·8	0	0	14	1	0	2	0	0	0	10	1	16	0
	0830	,,	1005·0	969·8	0	27·6	25·0	23·8	29·6	80	0	4·2	+0·1	3·0	0	0	23	0	2	2	4	0	0	15	0	7	0
	1130	,,	1004·3	969·4	..	30·3	25·4	23·2	28·5	67	..	6·7	..	6·4	0	0	30	1	3	7	0	0	3	10	6	0	0
	1730	,,	1001·5	966·6	..	29·4	25·0	22·9	28·1	69	..	5·2	..	4·5	0	0	27	0	8	4	0	0	4	7	4	3	0
	2330	,,	1003·8	968·5	..	26·0	26·4	23·9	29·8	89	..	4·3	..	1·2	0	0	8	0	2	0	0	0	0	5	1	22	0
Sidhi	0830	272	1003·4	973·2	..	27·7	25·1	24·0	29·8	80	..	3·7	..	2·5	0	0	24	7	0	5	0	2	2	7	1	6	0
	1730	,,	1000·4	970·5	..	30·0	25·1	23·0	27·9	67	..	4·1	..	2·3	0	0	21	3	4	2	1	2	3	2	4	9	0
Umaria	0830	459	1004·9	954·3	..	26·0	24·1	22·9	28·6	80	0	4·2	—0·1	4·5	0	0	28	1	5	5	3	0	1	11	2	2	0
	1730	,,	1001·5	951·4	..	28·9	24·5	22·8	27·5	70	..	5·3	..	3·9	0	0	28	3	6	2	1	1	3	8	4	2	0
Jabalpur	0530	393	1004·3	960·5	..	24·0	23·1	22·7	27·6	92	..	4·1	..	2·0	0	0	13	1	1	1	1	1	5	3	0	17	0
	0830	,,	1005·4	962·0	..	27·2	24·4	23·0	28·4	79	—2	4·1	—0·4	4·8	0	0	26	3	3	1	3	1	4	8	3	4	0
	1130	,,	1004·5	961·6	..	30·6	25·2	22·7	27·8	63	..	4·1	..	6·9	0	0	30	4	4	3	1	0	5	9	4	0	0
	1730	,,	1001·4	958·5	..	29·9	24·7	22·3	26·9	65	..	4·9	..	5·3	0	0	28	2	10	2	2	1	4	6	1	2	0
	2330	,,	1004·4	960·9	..	25·5	23·7	22·8	27·9	85	..	4·1	..	3·0	0	0	17	0	4	2	2	1	6	1	1	13	0
Mandla	0830	443	1005·7	956·6	..	25·9	23·7	22·7	27·5	83	..	4·3	..	0·5	0	0	3	2	0	0	0	0	0	1	0	27	0
	1730	,,	1001·5	953·1	..	28·1	24·0	22·0	26·5	71	..	4·6	..	2·5	0	0	14	6	1	1	0	1	0	0	5	16	0
Pendra	0530	625	1004·1	935·2	..	22·8	22·0	21·7	25·8	95	..	5·7	..	4·3	0	0	28	11	1	0	0	1	3	3	9	2	0
	0830	,,	1005·0	936·9	..	24·8	23·0	22·2	28·3	86	+4	6·0	+1·7	4·2	0	0	28	12	2	1	1	2	2	3	5	2	0
	1130	,,	1004·2	936·5	..	28·0	24·2	22·5	27·3	72	..	6·8	..	5·5	0	0	29	10	7	2	2	1	3	2	2	1	0
	1730	,,	1001·5	933·6	..	26·3	23·5	22·0	26·9	76	..	7·0	..	5·3	0	0	29	6	3	2	2	2	5	4	5	1	0
	2330	,,	1004·6	935·9	..	23·7	22·6	22·1	26·6	91	..	5·2	..	3·4	0	0	23	6	1	1	0	1	6	2	6	7	0
Ambikapur	0830	611	1005·3	938·3	..	25·4	23·6	22·8	27·7	86	..	4·8	..	4·1	0	0	24	3	4	3	1	2	2	6	3	6	0
	1730	,,	1001·4	935·1	..	27·1	24·0	22·6	27·6	77	..	4·2	..	7·4	0	0	29	10	6	2	2	1	1	4	3	1	0
Champa	0830	245	1005·5	978·1	..	27·3	25·2	24·3	30·2	84	..	6·3	..	2·8	0	0	24	7	4	3	0	0	2	6	2	6	0
	1730	,,	1001·6	974·5	..	29·0	25·6	24·0	29·9	76	..	7·5	..	3·2	0	0	24	9	4	1	0	0	3	3	4	6	0
Raigarh	0830	220	1005·1	980·8	..	27·2	25·2	24·3	30·3	84	..	6·1	..	3·3	0	0	25	2	7	3	3	1	4	3	2	5	0
	1730	,,	1001·1	976·7	..	29·7	25·8	24·0	30·0	71	..	7·0	..	1·8	0	0	15	1	6	1	1	0	2	2	2	15	0
Raipur	0530	298	1004·1	970·7	..	25·3	24·4	24·0	29·8	92	..	6·8	..	2·0	0	0	14	0	1	2	0	2	4	5	0	16	0
	0830	,,	1005·4	972·5	—0·1	27·7	25·1	24·0	29·6	81	0	6·4	+1·8	3·9	0	0	23	1	2	5	4	0	5	3	3	7	0
	1130	,,	1004·5	971·6	..	29·9	25·6	23·6	29·2	69	..	6·6	..	5·1	0	0	29	1	3	8	4	2	2	4	5	1	0
	1730	,,	1001·7	968·9	..	29·3	25·2	23·4	28·8	71	..	7·2	..	5·4	0	0	24	3	5	4	1	1	3	4	3	6	0
	2330	,,	1004·4	971·2	..	26·5	24·9	24·2	30·1	87	..	5·8	..	5·0	0	0	22	1	6	2	1	3	4	4	1	8	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh West—*Contd.*																											
Kanker	0830	402	1005·5	961·1	−0.2	26·4	24.3	23·3	28.7	83	+1	4·7	−0·9	1·0	0	0	9	0	0	0	0	0	7	0	2	21	0
	1730	"	1001·5	957·6	..	28·8	25.7	24·3	30·5	77	..	5·9	..	1·3	0	0	10	0	5	0	0	0	4	0	1	20	0
Jagdalpur	0530	553	1004·1	943·1	..	23·0	22.3	22·1	26·5	94	..	6·2	..	0·4	0	0	4	0	1	0	0	2	1	0	0	26	0
	0830	"	1005·4	944·7	−0·8	25·5	23·4	22·5	27·3	84	0	6·7	+17·2	2·5	0	0	17	0	3	2	0	4	5	1	2	13	0
	1130	"	1004·1	944·1	..	28·2	24·2	22·4	27·3	71	..	6·5	..	3·5	0	0	22	2	4	3	0	1	5	3	4	8	0
	1730	"	1001·6	951·4	..	26·7	23·9	22·7	27·6	79	..	7·4	..	2·5	0	0	18	0	5	0	0	1	3	2	1	12	0
Gujarat	2330	"	1004·7	943·8	..	23·9	22·9	22·5	27·2	92	..	6.1	..	1·2	0	0	10	0	0	0	1	2	3	2	1	20	0
Deesa	0830	136	1006·6	991·3	−0.4	27·4	23·6	21·8	26·1	72	..	3.8	..	4·4	0	0	28	3	3	1	1	3	6	6	5	2	0
	1730	"	1002·1	987·3	..	24·9	24·0	17·9	20·5	39	..	3·5	..	4.7	0	0	29	3	2	0	3	4	5	6	6	1	0
Radhanpur	0830	30	1006·2	1002.8	..	27·8	..	..	..	..	..	2·3	..	10·4	0	2	26	4	0	0	0	1	10	8	5	2	0
	1730	"	1002·4	999·0	..	34·2	..	..	..	..	..	2·6	..	9·6	0	1	29	2	0	1	0	3	10	5	9	0	0
Idar	0830	219	1006·6	982 0	..	26·4	23·2	21.5	25·6	76	..	3·9	..	4.1	0	0	27	3	1	1	2	2	6	9	3	3	0
	1730	"	1002·4	978·4	..	32·5	24·4	20·2	23·7	50	..	4·2	..	4.9	0	0	25	1	3	1	0	1	7	8	4	5	0
Ahmedabad	0230	55	1004·9	998·6	..	26·0	23·5	22·2	26·7	80	..	2·5	..	8.3	0	1	22	0	0	0	0	2	7	10	4	7	0
	0530	"	1005·2	998·8	..	25·0	23·1	22·2	26.7	84	..	3.2	..	5.1	0	0	18	0	1	0	0	0	7	7	3	12	0
	0830	"	1006 8	1000·5	−1·0	27·0	24.1	22·7	27·6	78	+2	4·0	−0.1	8·9	0	1	22	0	1	0	0	1	6	9	6	7	0
	1130	"	1006·9	1000·7	..	31·3	25.1	22·1	26·6	60	..	3·9	..	10·8	0	1	28	3	0	1	0	1	4	8	12	1	0
	1730	"	1002·8	996·7	..	33.6	25·2	21·0	24·9	49	..	3·6	..	10.2	0	0	28	1	1	1	1	2	9	6	7	2	0
	2330	"	1005·6	999·4	..	27·4	23·9	22·1	26·6	74	.	3·0	..	9·7	0	2	23	0	1	2	0	5	9	6	2	5	0
Dohad	0830	333	1006·5	969·3	..	25·7	23·2	22·0	26·4	80	−6	3.8	−1.9	15·1	0	8	20	0	2	2	0	1	7	15	1	2	0
	1730	"	1002·5	966.1	..	30.9	24·1	20.8	24·6	57	.	3·6	..	15.4	0	3	27	2	2	0	1	0	11	13	1	0	0
Baroda	0530	34	1005.6	1001·6	..	25·2	24·2	23.8	29·5	92	..	4·2	..	2.1	0	0	19	0	0	1	2	1	14	1	0	11	0
	0830	"	1007·3	1003·4	..	26·9	24·9	24·1	30·0	85	+4	4.5	+0·1	2.6	0	0	23	0	0	0	2	3	11	7	0	7	0
	1130	"	1007·4	1003·5	..	31·1	26·2	24·0	29·8	67	..	3·7	..	4 0	0	0	27	0	2	2	0	0	11	11	1	3	0
	1730	"	1003·5	999.6	..	32·2	26·1	23·4	28·8	61	..	3·4	..	3·2	0	0	23	0	1	1	0	0	9	11	1	7	0
	2330	"	1006·2	1002·2	..	26·6	24·6	23·7	29·3	84	..	2·7	..	4 0	0	0	26	0	0	1	2	2	18	3	0	4	0
Baroda (Aerodrome)	0830	38	1007·2	1002·9	..	26·7	24.7	23·8	29·5	84	..	5·3	..	5·8	0	0	26	1	0	0	1	6	11	5	2	4	0
	1130	"	1007·1	1002·9	..	30·9	25.6	23.1	28·3	64	..	4.9	..	6 5	0	0	28	0	3	1	0	1	10	12	1	2	0
	1730	"	1003·2	999·0	..	32·2	25·6	22.6	27·4	58	.	4.5	..	8 5	0	2	26	0	4	0	0	5	9	9	1	2	0
Broach	0830	17	1006 7	1004·7	..	26·1	24·6	23.9	29·7	88	..	5·3	..	5 2	0	0	29	0	2	0	2	2	19	2	2	1	0
	1730	"	1003·3	1001·3	..	31.7	25·7	22·9	27·9	62	..	4.2	..	7·6	0	0	30	2	3	0	1	1	18	1	4	0	0
Surat	0530	12	1005·8	1004·5	..	25.6	24.2	23.6	29·1	89	.	5·6	..	5 2	0	0	21	1	1	0	4	1	12	0	2	9	0
	0830	"	1007·5	1006·2	−0.5	26·9	24·9	24·0	29·8	85	+4	5·7	+0.5	3·4	0	0	23	2	0	0	1	3	11	1	5	7	0
	1130	"	1007·7	1006·4	..	30.2	25.6	23·4	28·8	66	..	5·6	..	8·2	0	1	29	4	1	1	0	2	11	5	6	0	0
	1730	"	1004·1	1002·8	..	30.8	25·6	23.3	28·6	66	..	4.0	..	6·1	0	1	28	2	2	0	0	2	18	3	2	1	0
	2330	"	1006·7	1005·4	.	26·7	24.9	24.0	29.8	85	..	3.1	..	7·2	0	0	26	1	0	0	2	5	16	1	1	4	0
Saurashtra and Kutch																											
Naliya	0830	21	1006·4	1004·0	..	26·6	24·6	23.7	29·3	84	..	4·0	..	12·6	0	5	22	0	0	0	0	0	16	6	5	3	0
	1730	"	1003·9	1001·5	..	29·9	25·0	22.7	27.6	66	..	3·6	..	19.9	0	11	19	0	0	0	0	0	21	5	4	0	0
Bhuj (Aerodrome)	0230	80	1004·8	995·7	..	25·8	24·8	24·3	30·4	91	..	2·0	..	11.6	0	4	21	1	0	0	0	0	14	9	1	5	0
	0530	"	1005·0	995·8	..	24·7	24.0	23·6	29.1	93	..	2·5	..	10.2	0	3	20	1	0	0	0	0	12	8	2	7	0
	0830	"	1006·5	997.4	−0.4	26·7	24·8	24.0	29·8	85	+12	3·2	−0·6	13·9	0	4	26	1	0	0	0	0	12	11	6	0	0
	1130	"	1006·5	997·5	..	31·9	26·4	24.0	29·8	64	..	3.3	..	18·5	0	11	19	3	0	0	0	1	11	10	5	0	0
	1730	"	1003.1	994.2	..	33·2	27·2	24.5	30·7	62	..	3.3	..	21·1	0	16	14	2	0	0	0	0	14	8	6	0	0
	2330	"	1005·7	996.7	..	26·9	25·3	24·6	30·9	87	..	1·5	..	15·6	0	6	21	2	0	0	0	0	15	9	1	3	0
Bhutakia Bhimasar	0830	47	1006·3	1000·9	..	27·2	24·6	23.4	28.8	80	..	..	..	17·5	0	9	21	2	0	0	0	1	12	8	7	0	0
	1730	"	1002·7	997.4	..	35·0	25·4	20.6	24·3	45	..	..	..	21·9	0	16	14	5	1	0	0	3	12	4	5	0	0
New Kandla	0830	14	1007·2	1005.6	..	27·3	24·3	23.0	28.1	77	..	3·7	..	16·8	0	7	23	1	0	0	0	0	7	18	4	0	0
	1730	"	1003·8	1002·2	..	32·0	25·4	22.2	26.7	58	..	3·3	..	29·5	0	23	7	1	0	0	0	1	21	6	1	0	0
Mandvi	0830	9	1006·9	1005·9	−0·4	27·6	25·4	25.6	30·9	84	..	4·7	..	25.3	0	17	13	2	1	0	0	0	16	1	9	0	1
	1730	"	1004·3	1003·2	..	29·6	26·3	25.1	31·9	78	..	3·7	..	40.5	0	30	0	1	0	0	0	0	12	12	1	0	4
Dwarka	0830	11	1007·2	1005·9	..	26·6	25·4	24.9	31·5	91	+6	4·5	+0.3	13·7	0	3	27	2	1	0	0	0	5	18	4	0	0
	1730	"	1004·9	1003.6	..	28·5	26·5	24.6	32·8	84	..	3·9	..	16·9	0	4	26	0	0	0	0	0	4	19	7	0	0
Porbander	0830	7	1007.0	1006·2	..	27·0	25·7	25·2	32.1	90	..	4·7	..	16·4	0	2	28	0	0	0	0	0	5	20	5	0	0
	1730	"	1004·9	1004·1	..	28·8	26·4	25.3	32.2	82	..	4·9	..	19.0	0	8	22	0	0	0	0	0	9	17	4	0	0
Porbandar (Aerodrome)	0830	7	1007·3	1006·5	..	27·6	26·1	25.5	32·6	88	..	3·8	..	16.2	0	7	23	2	0	1	0	0	7	8	12	0	0
	1130	"	1007·6	1006·8	..	30·3	27·6	26.5	34·6	81	..	3·8	..	21·7	0	15	15	3	0	0	0	0	10	11	6	0	0
	1730	"	1004·7	1003·9	..	29·2	27·0	26.1	33.8	84	..	2·7	..	24·6	0	22	8	1	0	0	0	0	10	15	4	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Okras): Mean amount	Cloud amount (Okras): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —*Contd.*																											
Jamnagar	0530	23	1005·4	1002·8	..	25·2	23·7	23.1	28.3	87	..	2·9	..	13·6	0	5	23	0	0	0	0	0	13	14	1	2	0
	0830	,,	1007.0	1004.4	−0.4	27·3	24·6	23·4	28·8	79	+1	4·3	+0.7	16.2	0	8	22	0	0	0	0	0	12	14	4	0	0
	1130	,,	1007·3	1004·8	..	31·1	25·0	22·1	26.6	59	..	4·0	..	20·2	0	16	14	1	1	0	0	0	2	23	3	0	0
	1730	,,	1003.9	1001·4	..	30·8	25·1	22.6	27·4	62	..	3·5	..	27.9	0	26	4	0	0	0	0	0	2	20	8	0	0
	2330	,,	1006·5	1003·9	..	26·6	24·0	22.8	27·7	80	..	2·5	..	16.7	0	10	20	0	0	0	1	0	10	19	0	0	0
Rajkot (Aerodrome)	0830	138	1007.1	991·5	−0.5	26.0	24·2	23·4	28·8	86	+5	3·2	−1.1	17·7	0	13	17	0	0	0	0	0	14	4	12	0	0
	1130	,,	1006·9	991·7	..	30·8	24·9	22.1	26·6	60	..	3·0	..	19·6	0	14	16	0	1	0	0	0	14	4	11	0	0
	1730	,,	1003·3	988·1	..	32.2	24·9	21.3	25·3	55	..	4·1	..	22·3	0	19	11	1	1	0	0	0	8	7	13	0	0
Surendranagar	0830	74	1006·8	998·4	..	27·2	24·1	22·6	27·4	77	..	3·2	..	11.2	0	1	29	2	0	0	0	0	9	8	11	0	0
	1730	,,	1002·7	994.5	..	34·3	25·1	20·6	24.3	45	..	4·3	..	11·2	0	1	29	1	3	0	3	1	9	8	5	0	0
Bhavnagar	0830	17	1017.5	1005·6	−0·2	27·6	..	..	..	..	..	3·3	−1.3	4·2	0	0	29	0	0	0	0	0	11	4	14	1	0
	1730	,,	1003·7	1001·9	..	32·0	..	..	..	..	..	4·1	..	9.9	0	1	27	0	2	1	4	6	8	6	1	2	0
Bhavnagar (Aerodrome)	0830	11	1007·1	1005·9	..	27.3	24·2	22·7	27·6	6	..	3·2	..	16 2	0	5	25	2	0	0	0	0	12	13	3	0	0
	1130	,,	1007·3	1006·1	..	31·5	25·0	22·0	26·4	58	..	3·2	..	15·9	0	3	26	4	5	0	1	0	5	12	2	1	0
	1730	,,	1003·5	1002·3	..	32·4	25·4	22·0	26·4	56	..	3.3	..	20.0	0	8	22	0	4	2	2	10	7	4	1	0	0
Mahuva	0830	9	1007·5	1006.5	..	26·3	24·4	23·5	28·9	85	..	4·8	..	9·4	0	2	26	4	0	0	0	0	8	9	7	2	0
	1730	,,	1004·5	1003·5	..	29·6	25·6	23·9	29·6	70	..	4·1	..	14·8	0	6	24	2	0	0	1	11	15	1	0	0	0
Keshod	0830	51	1007·7	1001·9	..	25·9	24·3	23·6	29·1	87	..	3·1	..	12·5	0	3	22	5	2	0	0	0	9	6	3	5	0
	1130	,,	1007·9	1002·1	..	30·0	24·8	22·4	27·1	65	..	3·6	..	20·6	0	13	17	5	1	0	0	0	8	8	8	0	0
	1730	,,	1004·7	999·0	..	30·5	24·7	21·7	25·9	61	..	2·8	..	25·0	0	23	5	0	0	0	0	0	9	14	4	2	1
Veraval	0230	8	1006·0	1005·1	..	25·4	24·3	23·8	29.5	91	..	3·4	..	13·6	0	7	18	3	1	0	0	0	6	6	9	5	0
	0530	,,	1005·7	1004·8	..	24·9	24.1	23·7	29·3	92	..	4·1	..	13·6	0	5	22	5	0	0	0	0	6	10	6	3	0
	0830	,,	1007·3	1006·4	−0.9	26·3	24·8	24.1	30·0	88	+4	4·3	−0.2	14·1	0	8	20	6	0	0	0	0	5	8	9	2	0
	1130	,,	1007·9	1007·0	..	29·0	25·5	23·8	29·5	76	..	4·3	..	18·8	0	13	17	2	0	0	0	0	7	13	8	0	0
	1730	,,	1005·0	1004·1	..	27·8	25·5	24·5	30·7	82	..	3·8	..	20·1	0	16	13	0	0	0	0	0	5	15	9	1	0
	2330	,,	1006·9	1006·0	..	26·0	24·5	23·7	29·3	88	..	3·3	..	15·0	0	9	19	2	0	0	0	0	5	10	11	2	
Konkan																											
Dahanu	0830	5	1007·4	1006·9	+0.3	26·5	24·5	23·8	29·5	85	−5	7·1	+0.5	11.1	0	5	22	2	0	3	9	2	4	5	2	3	0
	1730	,,	1004·9	1004·4	..	28·7	25·4	24·0	29·8	76	..	6·7	..	17·4	0	6	24	3	1	0	1	0	4	13	8	0	0
Bombay (Colaba)	0830	11	1007·9	1006·7	−1.0	26·6	5·1	24·4	30·5	88	+3	5·9	+0·2	6.5	0	0	24	1	4	1	6	2	0	6	4	6	0
	1130	,,	1008·3	1007·1	..	29·1	26·0	24·7	31·1	77	..	5·3	..	6.9	0	0	27	3	1	1	1	6	4	4	7	3	0
	1730	,,	1005·3	1004·1	..	28·4	25·7	24·5	30·7	80	..	6·5	..	11.7	0	2	28	2	0	0	0	0	2	12	14	0	0
Bombay (Santacruz Aerodrome)	0230	15	1006·3	1004·6	..	25·2	24·1	23·6	29·1	91	..	5·7	..	3·3	0	0	11	1	1	1	0	1	1	6	0	19	0
	0530	,,	1006·3	1004·6	..	24·9	24·0	23·5	28·9	92	..	5·3	..	2·4	0	0	7	0	1	0	0	0	1	5	0	23	0
	0830	,,	1007·9	1006·3	−1.0	26·5	24·8	24·0	29·8	86	+1	6·5	+0.8	3·2	0	0	10	0	0	1	3	0	1	5	0	20	0
	1130	,,	1008·1	1006·5	..	28·9	25·5	24·1	30·0	76	..	6·6	..	11·2	0	2	23	3	2	0	0	0	6	8	6	5	0
	1730	,,	1005·2	1003·6	..	28·1	25·2	24·0	29·8	78	..	6·8	..	15·2	0	6	24	2	2	0	0	0	0	12	14	0	0
	2330	,,	1007·5	1005·8	..	25·7	24·4	23·8	29·5	90	..	6·0	..	5·3	0	1	16	2	4	2	1	0	1	6	1	13	0
Alibag	0830	7	1007·8	1007·0	−1.2	26·2	24·7	24·0	29·8	88	+5	5·9	+0.1	10·3	0	4	23	3	3	0	10	1	2	2	6	3	0
Harnai	0830	20	1008·0	1005.7	−0.1	25·9	24·8	24·3	30·4	91	+6	6·9	..	8·4	0	5	14	4	5	1	0	2	1	4	2	11	0
	1730	,,	1005·4	1003.1	..	26·8	25·4	24·8	31·3	89	..	7·0	..	18·4	0	10	19	4	1	0	0	1	2	11	10	1	0
Ratnagiri	0830	35	1008·4	1004.4	−0.9	25·6	24·8	24·4	30·5	93	..	5·8	..	..	..	..	..	0	0	17	1	0	1	11	0	0	0
	1730	,,	1005·5	1001.5	..	27·3	25·5	24·8	31·3	87	..	6·1	..	..	..	..	..	0	2	1	0	0	0	27	0	0	0
Devgad	0830	36	1008·2	1004.2	−0.4	25·4	24·4	23.9	29.7	92	+2	6·6	0	10·5	0	7	20	1	5	9	2	1	0	5	4	3	0
	1730	,,	1005·6	1001.6	..	26·9	25·4	24·8	31·3	88	..	6·6	..	18.0	0	12	17	1	0	0	0	3	2	6	17	1	0
Vengurla	0230	9	1006·9	1005·9	..	34·5	23·9	23·7	29·3	95	..	6·7	..	0.8	0	0	5	1	0	0	1	0	0	2	1	25	0
	0530	,,	1006·8	1005·8	..	24·2	23·8	23·5	28·9	96	..	6·5	..	1·9	0	0	9	2	0	1	1	1	0	2	2	21	0
	0830	,,	1008·6	1007.6	..	25·5	24·5	24·1	30·0	92	..	6·4	..	2·5	0	0	15	2	0	2	4	1	0	4	2	15	0
	1130	,,	1008·8	1007.8	..	27·9	25·5	24·5	30·7	82	..	6·1	..	5·4	0	0	26	3	0	1	2	1	9	4	6	4	0
	1730	,,	1006·0	1005·0	..	26·8	25·1	24.3	30.4	86	..	7·0	..	6·4	0	0	25	2	0	1	0	3	6	9	4	5	0
	2330	,,	1008·3	1007.3	..	24·9	24.3	23.9	29·7	94	..	6·7	..	2·3	0	0	10	3	1	0	0	2	0	1	3	20	0
Maharashtra (Including Marathwada)																											
Nandurbar	0830	206	1007·2	984·0	.	25·4	23·7	22·8	27·7	86	..	4·0	..	10·3	0	0	30	2	0	0	0	0	4	24	0	0	0
	1730	,,	1003·9	980·4	..	28·4	24·4	22·6	27·4	73	..	5·5	..	18.2	0	0	30	0	0	2	0	1	4	22	1	0	0
Jalgaon	0830	201	1007·2	984·5	..	25·0	23·5	22·5	27·3	83	..	4.8	..	13·8	0	6	22	0	0	0	1	0	2	18	7	2	0
	1730	,,	1002·8	980·6	..	30·7	24·6	21.6	25·8	60	..	5·4	..	14·1	0	5	23	6	0	1	2	0	1	8	10	2	0
Malegaon	0830	437	1007·2	958·4	−0.9	24·2	22·1	20 9	24·7	83	+7	4.8	+0.5	3·1	0	0	15	0	0	0	0	0	2	6	7	15	0
	1730	,,	1002·7	955·0	..	29·5	23·4	20.1	23·2	60	..	6.3	..	15.1	0	8	20	7	4	1	0	0	2	6	8	2	0

Division and station	Hours of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Maharashtra (Including Marathwada)—*contd.*																											
Deolali	0830	571	1008·4	945·1	..	23·5	22·2	21·6	25·8	89	..	5·7	..	7·8	0	1	25	1	1	0	0	0	13	11	0	4	0
	1730	,,	1005·1	942.4	..	25·9	23·0	21·7	25·9	78	..	5·7	..	11·6	0	5	23	1	0	0	1	0	9	10	7	2	0
Aurangabad	0830	581	1007·5	943·4	−0·8	24·4	21·7	20·4	24·0	79	+1	5·8	+0·5	7·7	0	2	18	0	2	2	0	0	0	15	1	10	0
	1730	,,	1002·8	939·9	..	28·4	22·4	19·4	22·5	61	..	6·0	..	13·0	0	5	20	10	2	1	0	1	1	6	4	5	0
Aurangabad (Chikalthan Aerodrome)	0230	579	1005·6	941·3	..	22·4	21·0	20·2	23·7	88	..	5·4	..	9·4	0	2	21	1	1	0	0	0	0	17	4	7	0
	0530	,,	1005·8	941·4	..	21·8	20·6	19·9	23·2	89	..	6·1	..	11.7	0	3	21	1	0	0	0	0	0	18	5	6	0
	0830	,,	1007·0	943·1	..	24·5	21·8	20·5	24·1	79	..	5·6	..	9·9	0	1	22	3	0	2	0	0	0	14	4	7	0
	1130	,,	1005·9	942.9	..	28.5	23.0	20.4	24.0	63	..	5·6	..	13·8	0	3	26	5	4	2	0	0	0	12	6	1	0
	1730	,,	1012·4	939·5	..	28·2	22·4	19.4	22·5	61	..	6·6	..	15·8	0	5	24	7	5	0	0	0	3	6	8	1	0
	2330	,,	1006·6	942·5	..	23·3	21·4	20·5	24·1	85	..	5·5	..	11·2	0	3	21	2	0	0	0	0	0	14	8	6	0
Ahmednagar	0830	657	1007·4	935·1	−0.8	23·3	21·4	20·4	24·0	84	+6	5·4	+1·0	2·7	0	0	23	7	1	0	1	0	1	5	8	7	0
	1730	,,	1002·5	931·4	..	27.5	22·2	19·5	22·7	64	..	5·9	..	3·4	0	0	21	2	6	0	0	0	2	5	6	9	0
Bhir*	0830	519																									
	1730	,,																									
Parbhani	0830	423	1007.6	960·4	..	24·6	22·5	21·4	25·5	83	..	6·4	..	11·1	0	1	29	0	1	0	1	1	0	18	9	0	0
	1730	,,	1002 5	956·3	..	28·9	23·3	20·2	23.7	62	..	6·7	..	12·5	0	2	28	6	5	2	1	0	0	5	11	0	0
Nanded	0830	358	1006·9	966·8	..	24·8	23·1	22·1	26·6	85	..	5·1	..	5·3	0	0	23	1	0	0	0	1	5	8	8	7	0
	1730	,,	1002·4	963·0	..	29·2	24·2	21·7	25·9	66	..	5·5	..	6.3	0	0	26	0	5	2	1	1	2	4	11	4	0
Poona	0530	559	1006·4	944·0	..	21·4	20.7	20·3	23·8	94	..	4·0	..	0.4	0	0	2	0	0	0	0	0	0	1	1	28	0
	0830	,,	1007·7	945·6	−1.1	23·3	21·8	21·0	24·9	87	+6	5·9	+0·5	0·9	0	0	6	0	0	0	1	1	0	2	2	24	0
	1130	,	1006·8	945·6	..	27·3	23·2	21·3	25·3	71	..	5·9	..	3·4	0	0	17	1	0	1	1	0	4	9	1	13	0
	1730	,,	1004·0	942·7	..	26·0	22·9	21·4	25·5	77	..	6·7	..	5·1	0	0	16	0	1	1	0	1	4	5	4	14	0
	2330	,,	1007·5	945·3	..	22·6	21·5	21·0	24·9	91	..	5·3	..	1·4	0	0	4	0	0	0	0	0	0	4	0	26	0
Poona (Lohagaon Aerodrome)	0230	593	1007·0	940·9	..	21·2	20·4	20·0	23·4	93	..	6·0	..	3·5	0	0	14	0	0	0	0	0	0	13	1	14	0
	0530	,,	1006·7	940·5	..	20·7	20·1	19·9	23·2	95	..	5·3	..	4·0	0	0	15	0	0	0	0	0	0	14	1	15	0
	0830	,,	1007·8	942·1	..	22·9	21·4	20·6	24·3	88	..	6·0	..	8·9	0	0	25	0	0	1	0	0	0	21	3	5	0
	1130	,,	1007·3	942·2	..	26·6	22·6	20·7	24.4	71	..	6·3	..	14·6	0	7	20	0	0	2	0	0	0	21	4	3	0
	1730	,,	1004·2	939·2	..	25·2	22·3	20·8	24·6	78	..	6·4	..	20·2	0	15	14	1	1	0	0	0	0	19	8	1	0
	2330	,,	1008·0	942·0	..	21·7	20·9	20·1	23·5	93	..	6·3	..	5·0	0	0	18	0	0	0	0	0	0	16	2	12	0
Baramati	0830	551	1007·6	946·5	..	23·6	21·6	20·7	24·4	83	..	5·4	..	6·2	0	0	30	7	0	0	0	0	3	11	9	0	0
	1730	,,	1003·2	943·1	..	27·7	22·5	20·0	23·4	64	..	6·1	..	14·0	0	4	26	5	3	1	2	0	4	7	8	0	0
Jeur	0830	521	1007·2	949·3	..	23.4	21·7	20·9	24·7	86	..	6·4	..	10·5	0	0	30	2	0	1	1	0	0	10	16	0	0
	1730	,,	1002·2	945·5	..	28·2	22·8	20·1	23·5	65	..	6·9	..	11·8	0	4	25	0	4	2	0	3	3	5	12	1	0
Sholapur	0530	479	1006·1	952·7	..	22·3	21·6	21·2	25·2	94	..	6·7	..	3·5	0	0	18	1	0	0	1	0	2	5	9	12	0
	0830	,,	1007·4	954·1	−1·1	23·5	22·3	21·7	25·9	90	+13	6·6	+1.6	5·7	0	0	25	3	3	0	0	0	5	4	10	5	0
	1130	,,	1006·6	954·1	..	27·7	24·1	22·5	27·3	74	..	6·2	..	9·8	0	1	27	6	1	0	2	0	2	4	13	2	0
	1730	,,	1002·8	950·4	..	27·6	23·8	22·1	26·6	75	..	6·6	..	7·6	0	1	24	5	3	0	4	0	2	3	8	5	0
	2330	,,	1006·7	953·5	..	24·0	22·4	21·6	25·8	87	..	6·1	..	4·0	0	0	21	4	2	0	0	2	3	7	3	9	0
Miraj	0830	554	1007·8	946·3	−1·4	22·9	21·2	20·3	23·8	86	+3	5·3	−1·0	..	..	..	..	0	0	1	0	0	0	7	1	21	0
	1730	,,	1003·4	943.0	..	27·1	22·5	20·3	23·8	68	..	5·3	..	..	..	..	..	0	0	1	0	0	2	9	5	13	0
Kolhapur	0530	570	1006·5	943·0	..	21·0	20·5	20·1	23·5	95	..	6·4	..	2·7	0	0	18	0	1	0	1	0	1	13	2	12	0
	0830	,,	1008·0	944·7	−0.8	22·5	21·4	20·8	24·6	90	+2	6·5	+1·1	6·7	0	0	26	1	0	3	0	1	4	14	3	4	0
	1130	,,	1007·0	944·6	..	26·3	22·8	21·3	25·3	75	..	6·9	..	9·3	0	1	28	1	3	2	2	0	4	9	8	1	0
	1730	,,	1004·1	941.7	..	25·4	22·5	21·1	25·0	78	..	6·6	..	14·8	0	4	26	0	2	1	1	0	1	21	4	0	0
	2330	,,	1007.7	944.3	..	21·9	21.1	20.7	24.4	93	..	5·9	..	8·6	0	0	26	1	0	0	0	0	2	19	4	4	0
Vidarbha																											
Buldhana	0830	650	1006.5	934·8	..	23.3	21.3	20.3	24·0	84	..	5·4	..	2·7	0	0	22	0	3	0	0	0	0	0	19	8	0
	1730	,,	1002·3	931·9	..	27·5	22·5	19·9	23·6	65	..	6·0	..	2·0	0	0	18	0	2	0	0	0	0	0	16	12	0
Akola	0830	282	1006·5	974·8	−0·8	25·9	23·1	21·8	26·0	79	+1	6·3	+1·5	3·5	0	0	25	0	0	0	0	0	1	16	8	5	0
	1130	,,	1005·7	974·6	..	29·7	24·4	21·9	26·4	64	..	5·1	..	5·3	0	0	25	1	0	1	1	0	1	17	4	5	0
	1730	,,	1001·8	970·9	..	30·5	24·6	21·1	26·2	58	..	6·3	..	3·3	0	0	26	5	2	1	2	0	1	14	1	4	0
Akola (Aerodrome)	0530	309	1004·4	969·6	..	23·5	22·1	21·5	26·1	89	..	4·6	..	2·9	0	0	22	0	0	0	0	0	0	22	0	8	0
	2330	,,	1004·8	970·3	..	25·1	22·9	21·7	26·1	82	..	4·3	..	2·5	0	0	16	0	1	1	0	0	4	9	1	14	0
Amravati	0830	370	1006·3	965·2	−0·4	26·3	23·5	22·1	26·7	79	−1	4·7	−0·2	11·3	0	5	22	2	5	2	0	1	6	10	1	3	0
	1730	,,	1001·6	961·0	..	29·2	23·9	21·4	25·3	65	..	5·7	..	11·5	0	0	30	1	9	3	3	4	2	2	6	0	0
Yeotmal	0830	451	1006·1	956·1	..	25·3	22.8	21·5	25·8	81	..	4·0	..	7·3	0	0	29	4	3	2	0	0	0	13	7	1	0
	1730	,,	1001·9	952·9	..	28.9	23·7	21·0	25·2	65	..	4·9	..	6·8	0	1	27	2	6	4	1	1	3	5	6	2	0

*Data not available

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—*Contd.*																											
Nagpur	0230	310	1003·7	969·0	..	24·5	23·3	22.7	27·8	90	..	5·4	..	3·5	0	0	20	2	1	0	0	0	3	3	11	10	0
	0530	,,	1004·3	969·5	..	23·9	22·7	22·5	26·7	92	..	5.2	..	3·8	0	1	17	5	0	0	0	0	0	2	11	12	0
	0830	,,	1005·8	971·3	−0·4	26·7	24·2	23·0	28·1	81	0	5·2	+0.5	7·2	0	0	28	4	5	2	0	0	3	6	8	2	0
	1130	,,	1005·1	971·0	..	30·4	25·3	23·0	28·2	65	..	6·4	..	7·4	0	0	25	6	-	5	1	0	1	2	5	5	0
	1730	,,	1001·8	967·6	..	28·6	24·5	22·6	27·4	71	..	6·4	..	5·6	0	0	23	6	3	1	2	2	1	5	3	7	0
	2330	,,	1004·9	970·2	..	25·2	23·7	23·0	28·1	88	..	5·7	..	3·8	0	0	21	1	1	2	0	0	4	6	7	9	0
Gondia	0830	313	1005·6	970·8	..	26·9	24·5	23·3	28·8	81	..	6·3	..	3·2	0	0	19	1	1	0	1	1	4	0	3	11	8
	1730	,,	1001·9	967·5	..	28·8	24·8	22·9	28·0	71	..	6·8	..	3·4	0	0	22	1	3	0	1	0	5	0	6	8	6
Brahmapuri	0830	229	1006·8	981·2	..	26·7	24·6	23·7	29·2	84	..	5·1	..	4·1	0	0	22	2	2	2	0	2	4	4	6	8	0
	1730	,,	1002·4	977·1	..	29·1	25·4	23·7	29·6	72	..	5·3	..	2·4	0	0	16	1	2	1	1	1	2	4	4	14	0
Chanda	0830	193	1006·1	984.4	−0·7	27·1	24·7	23·6	29·3	81	+1	5·8	+1.2	6·5	0	0	26	3	0	1	2	1	1	9	9	4	0
	1730	,,	1002·0	980·6	..	28·4	24·9	23.2	28·7	75	..	7·1	..	6·1	0	0	27	6	4	2	2	4	2	3	4	3	0
Sironcha	0830	123	1006·4	992·5	..	26·8	25·2	24·5	40·7	87	..	6·0	..	3·1	0	0	22	3	0	3	3	4	0	1	8	8	0
	1730	,,	1002·2	988·7	..	29·1	25·9	24·5	30.8	78	..	6·1	..	3·2	0	0	23	7	3	0	4	4	2	2	1	7	0
Coastal Andhra Pradesh																											
Nellore	0530	20	1004·2	1002·0	..	25·6	24·2	23·6	29·1	89	..	5·6	..	1·0	0	0	7	0	0	0	0	0	5	1	1	23	0
	0830	,,	1006·4	1004·2	−1·3	27·3	24·8	23·6	29·1	80	+10	6·6	+1·2	4·5	0	0	28	0	0	1	0	2	1	19	5	2	0
	1130	,,	1005·7	1003·5	..	30·2	25·5	23·4	28.8	69	..	5·6	..	5·8	0	0	29	0	0	0	1	0	10	13	5	1	0
	1730	,,	1002·6	1000·4	..	30·5	25·9	23·9	29·7	70	..	6·9	..	3·0	0	0	23	3	1	2	2	0	1	7	7	7	0
	2330	,,	1005·2	1003·0	..	27·2	25·5	24·7	31·1	87	..	4·8	..	0·5	0	0	4	1	0	0	0	0	2	1	0	26	0
Ongole	0830	12	1005·8	1004·5	..	27·9	25·2	23·8	29·5	79	..	6·8	..	1·9	0	0	13	4	0	0	0	0	1	3	5	17	0
	1730	,,	1002·1	1000·9	..	29·6	25·6	23·6	29·1	72	..	6·8	..	0·7	0	0	6	0	2	1	0	0	1	1	1	24	0
Rentachintala	0830	106	1006·4	994·4	..	27·1	24·9	23·9	29·7	83	+13	6·3	+0·5	2·3	0	0	12	0	0	0	0	0	0	11	1	18	0
	1730	,,	1002·2	990·4	..	30·0	25·9	24·3	30·4	73	..	7·1	..	2·0	0	0	16	1	0	3	0	1	1	9	1	14	0
Gannavaram	0230	24	1003·7	1001·0	..	26·0	25·3	24·9	31·5	93	..	5·9	..	3·2	0	0	13	1	1	4	1	0	1	3	2	17	0
	0530	,,	1004·1	1001·4	..	25·7	25·0	24·7	31·1	94	..	6·2	..	3·1	0	0	14	1	1	2	0	0	2	5	3	16	0
	0830	,,	1006·0	1003·3	..	27·5	25·6	24·8	31·3	85	..	6·0	..	9·0	0	3	27	3	4	0	0	0	4	11	8	0	0
	1130	,,	1005·5	1002·8	..	29·8	26·4	24·9	31·5	76	..	6·3	..	9·4	0	3	24	3	1	3	0	1	1	9	9	3	0
	1730	,,	1002·4	999·8	..	29·5	26·4	25·1	31·9	78	..	7·3	..	4·4	0	0	24	2	1	2	4	0	5	5	5	6	0
	2330	,,	1005·2	1002·5	..	26·4	25·5	25·1	31·9	92	..	5·2	..	2·7	0	0	12	0	2	1	1	1	2	3	2	18	0
Masulipatam	0830	3	1005·9	1005·5	−1·4	27·8	25·9	25·1	31·9	85	+4	6·1	+0·7	3·7	0	0	28	5	2	0	0	2	1	12	6	2	0
	1730	,,	1002·6	1002·3	..	29·4	26·4	25·1	31·9	78	..	6·1	..	4·5	0	0	29	1	1	1	2	11	3	4	6	1	0
Nidadavolu	0830	12	1005·8	1004·4	..	27·1	25·7	25·0	31·2	85	..	7·2	..	6·9	0	1	24	0	6	0	0	0	3	12	4	5	0
	1730	,,	1002·2	1000·8	..	28·7	26·3	25·3	32·2	83	..	6·7	..	8·0	0	1	25	1	2	4	2	3	5	6	3	4	0
Kakinada	0830	8	1005·8	1004·9	−0·9	28.7	26·0	24·8	31·3	80	0	5·9	+0·5	10·0	0	0	30	0	15	0	1	0	10	2	2	0	0
	1730	,,	1002·4	1001·5	..	29·8	26·8	25·5	32·6	78	..	5·6	..	9·9	0	0	29	0	6	0	8	0	12	0	3	1	0
Visakhapatam	0230	3	1003·6	1003·2	..	26·4	25·2	24·7	31·1	90	..	5·2	..	2·2	0	0	13	1	1	0	1	0	5	0	2	17	3
	0530	,,	1003·7	1003·3	..	26·1	25·0	24·5	30·7	91	..	6·0	..	1·5	0	0	10	2	1	0	0	0	2	2	3	20	0
	0830	,,	1005·5	1005·1	−0·8	28·4	25·4	24·1	30·0	78	−3	6·0	+0·2	4·2	0	0	19	4	2	1	0	0	6	2	4	11	0
	1130	,,	1004·7	1004·3	..	30·9	26·3	24·3	30·4	68	..	5·9	..	11·9	0	3	24	0	3	5	3	1	12	1	0	3	2
	1730	,,	1002·4	1002·0	..	29·1	25·9	24·4	30·5	76	..	6·2	..	10·6	0	1	26	0	1	8	3	4	10	1	0	3	0
	2330	,,	1004·9	1004·5	..	27·0	25·5	24·9	31·5	88	..	5·1	..	3·0	0	0	16	1	0	1	1	1	3	1	7	14	1
Calingapatam	0830	6	1005·1	1004·4	−0·9	28·1	26·7	26·2	34·0	90	+7	5·1	+0·6	5·8	0	0	28	1	5	0	0	3	8	5	5	2	1
	1730	,,	1002·6	1001·9	..	29·5	27·8	27·2	36·1	87	..	5·5	..	11·6	0	2	28	0	4	5	3	9	6	1	2	0	0
Telangana																											
Ramagundam	0830	156	1005.8	988·2	..	27·1	24·8	23·8	29·5	83	..	6·3	..	2·7	0	0	19	5	1	0	0	1	0	5	7	11	0
	1730	,,	1001·7	984·4	..	30·4	25·7	23·6	29·1	69	..	6·6	..	4·3	0	0	26	10	6	1	0	3	0	4	2	4	0
Nizamabad	0830	381	1006·7	964·5	−0·3	26·0	23·9	22·1	26·6	79	−1	5·9	+1·3	2·5	0	0	17	0	0	0	1	0	4	12	0	13	0
	1730	,,	1002·0	960·0	..	29·2	24·0	22·2	26·7	67	..	6·6	..	1·9	0	0	15	0	3	2	2	0	1	3	4	15	0
Mahbubnagar	0830	505	1006·8	950·8	..	24·4	22·4	21·5	25·6	85	..	6·6	..	9·1	0	0	27	4	2	1	0	1	2	3	14	3	0
	1730	,,	1002·5	947·3	..	27·2	23·5	21·8	26·1	74	..	7·3	..	4·7	0	0	25	3	2	2	1	1	2	8	6	5	0
Nagarjunakonda	0830	..	..	..	..	27·9	24·5	22.9	27·9	75	..	4·0	..	11·5	0	6	20	3	2	1	3	1	0	10	6	4	0
	1730	..	..	..	..	30·0	25·1	22·8	27·7	67	..	5·4	..	10·4	0	1	28	5	1	4	2	1	2	8	6	1	0
Hyderabad (Begumpet Aerodrome)	0230	545	1004·4	944·2	..	23·0	21·9	21·3	25·3	89	..	6·1	..	3·6	0	0	13	1	0	1	1	0	0	7	3	17	0
	0530	,,	1005·0	944·6	..	22·7	21·5	20.9	24·7	90	..	6·3	..	6·0	0	0	21	1	0	1	1	0	1	7	10	9	0
	0830	,,	1006·5	946·4	−0·8	24·4	22·2	21·1	25·0	83	+3	6·2	+0·9	10·2	0	1	26	3	0	2	1	0	0	7	14	3	0
	1130	,,	1005·5	946·0	..	27·3	23·2	21·3	25·3	71	..	6·5	..	11·6	0	3	25	4	1	3	2	0	0	5	13	2	0
	1730	,,	1002·3	943·0	..	27·3	23·1	21·1	25·0	71	..	6·9	..	9·5	0	0	24	4	2	2	1	0	3	8	4	6	0
	2330	,,	1005·7	945·5	..	23·9	22·4	21·7	25·9	88	..	6·7	..	3·3	0	0	14	2	0	0	2	0	1	4	5	16	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars. At station level	Mean pressure in millibars. Departure from normal	Mean temperature in °C. Dry bulb	Mean temperature in °C. Wet bulb	Mean temperature in °C. Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas) Mean amount	Cloud amount (Oktas) Departure from normal	Mean wind speed, in km. per hour	Wind speed (km p.h.) 62 or more	Wind speed (km p.h.) 20 to 61	Wind speed (km p.h.) 1 to 19	No. of observations Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Va-
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
Telangana—*acontd*																											
Hakimpet	0530	613	1005·3	937·5	..	22·3	21·3	20·8	24·6	92	..	6·5	..	9·2	0	1	26	5	0	1	1	0	2	9	9	3	
	0830	,,	1006·2	938·7	..	24·1	22·1	21·2	25·2	84	..	6·5	..	11·0	0	3	27	5	2	1	1	1	0	7	13	0	
	1130	,,	1005·2	938·5	..	27·1	23·1	21·3	25·3	71	..	6·7	..	11·7	0	2	26	4	3	1	1	1	0	2	16	2	
	1730	,,	1002·6	936·0	..	26·9	23·0	21·2	25·2	22	..	6·7	..	9·1	0	1	28	8	3	2	2	0	4	6	4	1	
Hanamkonda	0830	269	1006·2	976·2	−0·1	26·2	24·2	23·2	28·4	84	+7	5·7	+0·7	4·1	0	0	28	18	0	0	0	2	2	6	0	2	
	1730	,,	1002·1	972·9	..	29·4	25·0	23·0	28·1	69	..	5·8	..	4·1	0	0	29	12	6	1	0	1	0	5	4	1	
Bhadrachalam	0830	111	1005·9	993·4	..	26·7	25·4	24·8	31·3	89	..	6·9	..	3·4	0	0	19	4	7	2	1	0	1	2	2	11	
	1730	,,	1001·7	989·3	..	30·0	26·4	24·9	31·5	75	..	7·2	..	2·8	0	0	24	6	6	1	1	0	3	3	4	6	
Khammameth	0830	112	1005·9	993·3	..	26·7	25·0	24·2	30·2	86	..	6·1	..	2·6	0	0	14	4	1	1	0	0	2	4	2	16	
	1730	,,	1001·4	989·0	..	29·7	25·6	24·2	30·2	73	..	2·2	..	4·8	0	0	21	8	0	4	2	1	1	4	1	9	
Rayala Seema																											
Arogyavaram	0830	701	1007·4	930·5	..	23·3	20·4	18·9	21·8	77	..	6·7	..	6·8	0	0	21	0	0	0	0	0	0	5	16	9	
	1730	,,	1002·5	926·9	..	27·3	21·7	18·9	21·8	62	..	6·7	..	3·8	0	0	16	1	0	0	0	0	1	4	10	14	
Cuddapah	0830	130	1007·6	992·9	−1·2	26·6	24·4	23·4	28·8	83	+12	6·0	+0·6	2·3	0	0	11	0	0	0	0	0	0	10	1	19	
	1730	,,	1002 7	988·3	..	30·3	26·2	24·4	30·5	73	..	5·6	..	1·6	0	0	8	1	1	1	0	0	0	3	2	22	
Anantapur	0530	350	1005.8	966·5	..	23·6	21·6	20·5	24·1	83	..	6·8	..	10·0	0	2	23	1	0	0	0	0	3	20	1	5	
	0830	,,	1007·4	968·3	..	25·0	22·0	20·4	24·0	76	..	6·4	..	11·7	0	2	27	1	0	0	0	0	3	22	3	1	
	1130	,,	1006·3	967·7	..	28·3	22·9	19·9	23·2	62	..	6·5	..	13·8	0	4	26	1	0	0	0	0	1	16	12	0	
	1730	,,	1002·2	963·9	..	29·7	23·0	19·2	22·2	56	..	6·9	..	11·7	0	3	24	2	2	0	1	0	1	9	12	3	
	2330	,,	1006·3	967·3	..	25·6	22·3	20·5	24·1	75	..	6·8	..	13·5	0	3	25	1	1	0	0	1	2	21	2	2	
Karnool	0830	281	1007·4	975·8	−1·0	25·2	22·8	21·6	25·8	81	+6	6·6	+1·2	3·8	0	0	22	0	0	0	0	0	0	16	6	8	
	1730	,,	1002·3	971·5	..	29·6	24·1	21·2	25·2	64	..	6·4	..	6·9	0	1	27	10	0	0	0	0	0	12	6	2	
Madras State																											
Palayamcottai	0830	51	1008·0	1002·3	..	29·2	23·7	20·8	24·6	61	..	6·2	..	10·9	0	3	27	1	0	0	0	0	0	24	5	0	
	1730	,,	1004·9	999·2	..	30·5	23·9	20·6	24·3	56	..	6·7	..	12·4	0	1	29	2	0	0	1	0	1	25	1	0	
Tuticorin	0830	4	1003·4	1008·0	..	29·9	23·8	20·7	24·4	58	..	5·3	..	18·7	0	13	17	1	1	0	1	0	7	20	0	0	
	1730	,,	1004·8	1004·4	..	31·2	24·3	20·9	24·7	55	..	4·9	..	22·7	0	18	12	0	0	0	3	4	2	21	0	0	
Pamban	0830	11	1007·8	1006·5	−1·5	28·0	25·8	24·9	31·5	83	+6	4·3	+1·4	8·5	0	1	28	0	1	0	1	3	15	8	1	1	
	1730	,,	1004·7	1003·4	..	28·3	25·9	24·9	31·5	82	..	4·0	..	10·6	0	1	28	0	0	0	1	15	13	0	0	1	
Tondi	0830	5	1007·9	1007·3	..	28·2	25·2	23·9	29·7	77	..	5·7	..	0·4	0	0	1	0	0	0	0	0	1	0	0	29	
	1730	,,	1004·3	1003·7	..	29·7	27·8	27·1	35·9	87	..	6·1	..	23·6	0	22	6	0	0	0	16	9	3	0	0	2	
Mathurai	0830	133	1007·7	992·7	−0·9	27·7	23·2	20·8	24·6	67	+1	6·5	+1·7	4·3	0	0	30	0	0	0	0	0	0	0	30	0	
	1730	,,	1003·4	988·7	..	32·0	24·2	20·3	23·8	51	..	7·3	..	8·0	0	1	28	0	3	0	4	0	13	0	9	1	
Mathurai (Aerodrome).	0530	131	1006·0	991·1	..	25·1	22·0	20·4	24·0	75	..	5·1	..	6·9	0	1	23	7	1	0	0	0	4	9	3	6	
	0830	,,	1007·6	992·9	..	28·1	23·1	20·5	24·1	64	..	5·1	..	12·3	0	5	23	11	0	0	0	0	1	10	6	2	
	1130	,,	1006·8	992·3	..	31·9	23·9	19·8	23·1	49	..	5·2	..	16·9	0	9	19	6	1	0	0	0	3	16	2	2	
	1730	,,	1003·6	989·1	..	31·0	23·7	19·8	23·1	53	..	6·0	..	19·3	0	14	12	1	2	2	1	2	3	15	0	4	
Adhirampatnam†	0830	6	1007·5	1006·8	..	29·1	24·1	21·7	25·9	65	..	4·6	..	9·7	0	1	28	0	0	1	1	2	4	5	16	1	
	1730	,,	1004·0	1003·2	..	29·8	25·8	24·2	30·2	72	..	5·4	..	22·7	0	18	12	0	0	0	1	26	2	0	1	0	
Vedarynyam	0830	4	1007·2	1006·7	..	29·0	24·9	23·0	28·1	71	..	5·3	..	9·6	0	0	22	0	0	0	1	1	14	2	4	0	
	1730	,,	1004·2	1003·7	..	29·6	26·1	24·5	30·7	75	..	5·5	..	12·6	0	0	22	0	0	0	2	15	5	0	0	0	
Nagapattinam	0830	9	1007·9	1006·8	−1·2	28·0	24·1	22·3	26·9	71	−1	6 1	+1·9	8·2	0	0	28	0	0	0	0	0	9	17	2	2	
	1730	,,	1003·8	1002·0	..	30·3	25·9	23·9	29·7	69	..	6·0	..	15 0	0	1	29	1	1	2	6	10	6	3	1	0	
Tiruchirapalli	0230	88	1005·3	995·4	..	26·2	22·5	20·6	24·3	71	..	4·5	..	21·1	0	17	13	0	0	0	0	0	1	27	2	0	
	0530	,,	1005·8	995·9	..	25·5	22·5	20·9	24·7	76	..	4·6	..	21·6	0	13	17	0	0	0	0	0	0	30	0	0	
	0830	,,	1007·6	997·7	−1·6	27·4	23·4	21·4	25·5	70	−2	5·2	+1·0	24·0	0	18	12	0	0	0	0	0	0	27	3	0	
	1130	,,	1006·6	996·8	..	31·4	24·7	21·4	25·5	56	..	5·5	..	28·3	0	23	7	0	0	0	0	0	0	29	1	0	
	1730	,,	1003·2	993·5	..	31·7	24·4	20·7	24·4	53	..	6·6	..	21·0	0	13	16	0	0	0	0	3	6	16	4	1	
	2330	,,	1006·9	997·0	..	26·8	23·1	21·1	25·0	72	..	5·4	..	20·7	0	13	16	0	0	0	0	0	5	24	0	1	
Coimbatore	0830	409	1008·6	963·1	−0·9	24·4	21·5	19·9	23·2	76	−5	6·8	+2·9	21·9	0	18	12	0	0	0	0	15	15	0	0	0	
	1730	,,	1004·5	959·5	..	27·0	22·4	20·0	23·4	66	..	7·2	..	23·1	0	21	9	0	0	0	0	8	17	5	0	0	
Coimbatore (Peelamedu Aerodrome)	0530	399	1007·0	962·2	..	22·1	21·3	20·8	24·6	92	..	5·7	..	19·7	0	12	17	0	0	0	0	12	16	1	0	1	
	0830	,,	1008·5	964·1	..	24·2	22·1	21·0	24·9	82	..	5·7	..	23·4	0	21	9	0	0	0	0	12	18	0	0	0	
	1130	,,	1007·2	963·1	..	28·4	23·2	20·5	24·1	63	..	5·9	..	28·3	0	19	11	0	0	0	2	10	17	1	0	0	
	1730	,,	1004·4	960·4	..	26·8	22·6	20·4	24·0	68	..	6·5	..	34·1	0	29	1	0	0	0	0	5	21	3	1	0	
	2330	,,	1008·1	963·4	..	23·0	21·7	21·0	24·9	88	..	5·9	..	32·9	0	29	1	0	0	0	0	12	17	1	0	0	
Salem	0530	278	1006·5	975·3	..	23·6	21·9	21·0	24·9	86	..	6·6	..	1·6	0	0	14	0	0	0	0	6	7	1	0	16	
	0830	,,	1007·9	976·8	−1·5	25·6	22·6	21·0	24·9	77	−1	5·7	+1·0	6·5	0	0	28	0	0	1	0	2	14	7	4	2	
	1130	,,	1006·8	976·1	..	29·2	23·7	20·9	24·7	62	..	6·7	..	4·7	0	0	27	1	0	0	0	0	10	13	3	3	
	1730	,,	1002·9	972·3	..	30·2	23·8	20·5	24·1	58	..	7·2	..	2·0	0	0	13	0	0	0	0	0	7	6	0	17	
	2330	,,	1007·1	976·0	..	25·2	25·2	21·2	25·2	79	..	6·3	..	2·8	0	0	18	0	0	0	0	10	6	2	0	12	

†Barometer installed on 9-9-60

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.q.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Kallakurichi	0830	127	1007·0	992.8	..	27·4	24·4	23·0	28.1	77	..	4.6	..	4.0	0	0	19	1	0	0	4	5	7	1	1	11	0
	1730	,,	1002·6	988·6	..	31·3	25.2	22.3	26.9	60	..	6·0	..	7·6	0	2	25	1	2	4	4	1	12	0	3	3	0
Cuddalore	0530	12	1005·3	1004·2	..	25·4	23·9	23·2	28·4	88	..	5·5	..	0·6	0	0	4	0	0	0	0	1	3	0	0	26	0
	0830	,,	1007.1	1006·0	−1·4	27·5	24·5	23·2	28·4	77	+2	6·1	+1.5	2·6	0	0	19	0	0	0	0	1	9	6	3	11	0
	1130	,,	1006·6	1005·5	..	31·0	25.2	22·3	26·9	61	..	6·3	..	2·7	0	0	20	0	0	0	0	0	10	6	4	10	0
	1730	,,	1003·3	1002·2	..	29·8	25·8	24·0	29·8	82	..	7 3	..	3.6	0	0	15	0	0	2	10	3	0	0	0	15	0
	2330	,,	1006·4	1005·3	..	26·9	24·8	23·8	29·5	83	..	5·1	..	4·3	0	0	18	0	0	0	0	11	5	1	1	12	0
Tirupattur	0830	390	1007·9	964·5	..	24·9	22·4	21·1	25·0	80	..	6·2	..	2·8	0	0	14	6	0	0	0	2	0	6	0	16	0
	1730	,,	1002·7	960·1	..	29·5	23·4	20·2	23·7	60	..	7·3	..	7.2	0	1	19	5	1	3	0	3	1	5	2	10	0
Vellore	0530	214	1005·7	981·5	..	24·4	22·6	21·7	25·9	85	..	6·4	..	1.3	0	0	12	0	0	0	0	0	0	12	0	18	0
	0830	,,	1007·2	983·2	−1·1	26·3	23·0	21·3	25·3	75	+2	6·2	+2·2	2·4	0	0	22	0	0	0	0	0	6	16	0	8	0
	1130	,,	1006·2	982·4	..	29·8	24·4	21·7	25·8	63	..	6·8	..	4·4	0	0	28	0	0	0	0	0	1	23	4	2	0
	1730	,,	1002·5	978 8	.	29.6	24·3	21·7	25·9	64	..	6·5	..	2.7	0	0	17	3	0	0	1	3	0	8	2	13	0
	2330	,,	1006·4	982.4	..	26·3	23.9	22.7	27.6	82	..	5·9	..	1.5	0	0	11	0	0	0	0	0	1	10	0	19	0
Tambaram (Aerodrome)	0830	29	1006.4	1003.1	..	27.2	25·3	24.5	30·7	86	..	6.2	..	10.0	0	0	29	1	0	0	0	1	3	19	5	1	0
	1730	,,	1003.0	999·8	..	29·9	26.3	24.7	31.1	76	..	7.0	..	13.0	0	6	24	1	0	2	7	3	3	7	7	0	0
Madras	0230	16	1004.7	1003.0	..	25.8	24.6	24.0	29.8	90	..	6.6	..	7.9	0	1	23	0	0	0	1	5	12	5	1	6	0
	0530	,,	1005·1	1003.3	..	25·6	24.2	23·6	29.1	89	..	6·4	..	6.7	0	0	25	1	0	0	0	6	9	8	1	5	0
	0830	,,	1006.9	1005.2	−1·2	27.2	24.6	23·4	28.8	80	+8	6.4	+1·4	12.2	0	1	28	1	0	0	0	1	11	14	2	1	0
	1130	,,	1006·2	1004.5	..	30.0	25.1	22.9	27.9	67	..	6·5	..	15.7	0	2	28	1	0	0	0	0	6	17	6	0	0
	1730	,,	1003.3	1001·6	..	30·2	25.8	24.0	29.8	72	..	6·8	..	10·5	0	0	28	1	0	5	4	4	3	8	2	2	1
	2330	,,	1006.1	1004.4	..	27.0	25.3	24.5	30·7	87	..	6·4	..	9·8	0	1	26	1	0	0	4	9	8	5	0	3	0
Madras (Nungambakkam)	0830	6	1006·8	1006·1	..	27·1	24·5	23·3	28·6	80	..	6·1	..	3·9	0	0	24	0	0	0	0	0	14	10	0	6	0
Coastal Mysore																											
Karwar	0830	4	1008·7	1008 2	—1·2	25·6	24·4	23·9	29.7	90	..	5·6	..	3·0	0	1	10	0	2	0	3	0	0	2	4	19	0
	1730	,,	1006·4	1005.9	..	26·7	24·9	24·2	30·2	87	..	5·7	..	12·1	0	5	21	1	0	0	1	3	2	5	14	4	0
Honavar	0830	26	1008.9	1006.0	—1·4	24·5	23·8	23·5	28.9	94	+3	7·6	+1·4	2·2	0	0	21	1	1	15	0	2	0	1	1	9	0
	1730	,,	1006·3	1003·4	..	26·8	24·8	23·9	29.7	84	..	6·9	..	8·4	0	1	29	1	0	0	0	5	12	6	6	0	0
Mangalore	0830	22	1009·5	1006·9	−1·3	25·0	23·9	23·3	28·6	91	+3	7·0	+1·2	6·0	0	0	30	1	2	9	6	1	6	3	2	0	0
	1730	,,	1006.6	1004·0	..	26·2	24·3	23·4	28.8	85	..	6·8	..	6·4	0	0	30	5	1	1	0	1	7	9	6	0	0
(Mangalore Bajpe Aerodrome)	0230	102	1007·6	996·0	..	23·6	23·1	22·9	27.9	96	..	7·0	..	1·8	0	0	10	0	0	2	1	0	1	4	2	20	0
	0530	,,	1007·6	995·9	..	23·0	22·8	22·6	27·4	97	..	7·1	..	4.6	0	0	21	1	1	6	5	0	2	3	3	9	0
	0830	,,	1009·3	997·8	..	24·0	23·4	23·1	28·3	94	..	7·1	..	4.1	0	0	25	0	2	6	8	1	1	6	2	4	0
	1130	,,	1009·2	997·7	..	26 2	24·2	23·3	28.6	85	..	7·5	..	7·6	0	0	30	1	0	0	1	1	6	13	8	0	0
	1730	,,	1006·4	994·9	..	25 5	23·8	23·0	28·1	87	..	7·4	..	9·0	0	0	29	0	0	0	0	0	4	14	11	1	0
	2330	,,	1009.1	997 5	..	23·9	23·4	23·1	28.1	95	..	6·9	..	4·0	0	1	18	1	0	0	5	0	3	6	4	11	0
Interior Mysore (North)																											
Bidar	0830	664	1006·7	933·5	..	23.0	21·4	20·5	24·1	86	+3	7 0	+2·2	15·1	0	4	26	0	2	0	1	0	7	1	19	0	0
	1730	,,	1001·8	929·9	..	26·8	22·4	20·2	23.7	69	..	6·8	..	11.7	0	2	28	0	12	0	0	0	9	0	9	0	0
Gulbarga	0830	458	1007·3	956.5	−0·8	24·9	22·4	21·2	25.2		+3	6.9	+2·0	16.7	0	5	24	0	4	1	1	0	1	6	16	1	0
	1730	,,	1002·6	952·4	..	27·8	23.0	20·7	24·4	69	..	7·5	..	33·1	0	26	2	5	1	3	1	1	0	9	8	2	0
Bijapur	0830	594	1008.0	942.1	−0·9	22·9	21.5	21.0	24.9	89	+11	6.8	+2.0	6.0	0	0	28	3	1	0	0	1	0	14	9	2	0
	1730	,,	1002.7	938·2	..	27.4	22·7	20·3	23.8	67	..	6.8	..	4.4	0	0	29	4	3	0	1	0	2	11	8	1	0
Belgaum	0830	753	1008·3	925·3	−1·3	21·2	20·6	20·2	23·7	94	+7	6.1	+0.2	5.1	0	0	26	1	0	1	0	2	0	16	6	4	0
	1730	,,	1004·4	922·5	..	23·9	21·7	20·6	24·3	83	..	7.1	..	9·2	0	0	30	2	0	0	0	0	0	23	5	0	0
Belgaum (Sambre Aerodrome)	0530	747	1007.3	924·7	..	20·1	19·6	19·4	22·5	96	..	6·6	..	2·1	0	0	12	0	0	0	0	1	0	9	2	18	0
	0830	,,	1008·6	926·3	..	21·5	20·3	19·7	22·9	89	..	6·8	..	4.3	0	1	17	1	1	1	0	1	1	10	3	12	0
	1130	,,	1007·5	926.1	..	24·9	21·3	19·5	22·7	73	..	6·6	..	8.0	0	0	25	1	2	1	1	0	1	10	8	5	1
	1730	,,	1004.8	923.4	..	24·1	21·3	20·0	23·4	79	..	6·8	..	12·8	0	2	25	0	1	1	0	0	2	17	6	3	0
Gadag	0530	650	1006.9	934·8	..	20·8	20·5	20.3	23·8	97	..	6·4	..	10.3	0	0	29	0	0	0	0	0	6	23	0	1	0
	0830	,,	1008.2	936·4	—1·0	22·5	21·2	20·6	24·3	89	+7	6·6	+1·2	4.8	0	0	15	0	0	0	0	4	10	1	0	15	0
	1130	,,	1007·5	936·5	..	26·1	22·2	20·3	23·8	72	..	6·7	..	9·4	0	0	30	4	1	0	0	0	3	18	4	0	0
	1730	,,	1003·5	933·0	..	26·4	22·4	20·4	24·0	71	..	6.7	..	8·7	0	0	28	0	0	10	0	0	2	22	3	2	0
Gadag	2330	,,	1007.9	936·0	..	22·0	21·1	20·7	24·4	93	..	6·7	..	11·5	0	1	27	1	0	0	0	0	5	21	1	2	0
Raichur	0830	400	1007.5	962·9	−1·1	24·6	22·4	21·3	25·3	83	+	6·4	+2.3	8·9	0	1	28	0	2	0	0	3	11	5	8	1	0
	1730	,,	1002·7	959·1	..	29·6	23·7	20.7	24·4	61	..	6·9	..	7·6	0	1	27	1	5	0	1	0	7	1	13	2	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observation: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)																											
Bellary	0830	449	1007·4	957·2	−1.7	24·6	22·6	21·5	25·6	84	+14	6·9	+1.9	5·4	0	0	25	0	0	0	0	0	0	2	23	5	0
	1730	,,	1002.2	953.2	..	29·1	24·3	22.0	26·4	67	..	6·9	..	7·1	0	0	30	1	0	0	2	0	0	4	23	0	0
Chitaldrug	0830	773	1008·1	927·3	−1·3	21·5	20·0	19·2	22·2	87	+7	6·4	+0.2	8.8	0	0	30	0	0	0	0	0	3	25	2	0	0
	1730	,,	1003·1	923·9	..	26·1	21·5	19·1	22·1	67	..	5·8	..	6·8	0	0	30	0	0	0	0	0	4	24	2	0	0
Shimoga	0830	571	1008.4	948·1	..	22·8	21·3	20·6	24·3	88	..	7·5	..	3·2	0	0	20	0	0	0	0	2	13	5	0	10	0
	1730	,,	1004.4	941·9	..	25·5	22·4	20·9	24.7	77	..	7·5	..	9·0	0	0	29	0	0	0	0	2	11	15	1	1	0
Balehonnur	0830	..	..	..	..	19·5	19·0	18·5	21·3	95	+2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1488.7	904.1	..	20·2	19·2	18·7	21·6	91	+9	7·2	+1.4	6·9	0	0	29	0	0	0	1	0	14	14	0	1	0
	1730	,,	1466.6	901.1	..	23.1	20·4	19·8	22·0	78	..	7·0	..	9·4	0	0	30	0	0	0	0	0	15	15	0	0	0
Mysore	0830	767	1008.9	924.5	−1·2	21.9	20.0	19.0	22.0	84	+5	6.2	+0.4	7.2	0	0	29	0	0	0	0	1	7	20	1	1	0
	1730	,,	1004·7	921.7	..	26·1	20·7	17·9	20·5	61	..	6·3	..	9·4	0	2	24	0	0	0	0	0	9	16	1	4	0
Bangalore (Central Observatory)	0230	921	1469·4	906·1	..	20·1	19·4	19·0	22·0	94	..	6·9	..	12·5	0	2	28	0	0	0	0	0	2	23	5	0	0
	0830	,,	1487·0	907·9	−1.2	20·6	19·6	19·1	22·1	91	+7	7·5	+0.9	13·3	0	0	30	0	0	0	0	0	4	23	3	0	0
	1130	,,	1490.8	907.6	..	24.1	20·5	19·0	22·0	74	..	7·1	..	15·4	0	4	26	1	0	0	0	0	3	14	12	0	0
	1730	,,	1462·9	904.5	..	25.0	21·0	18·8	21·7	70	..	7·2	..	12·5	0	0	30	1	0	0	0	0	4	17	8	0	0
Bangalore (Aerodrome)	0530	897	1470·0	908·8	..	20·0	19·4	19·1	22·1	95	..	7·2	..	15.6	0	0	30	0	0	0	0	0	6	23	1	0	0
	0830	,,	1487·2	910·4	..	21.2	19·9	19·2	22·2	88	..	7·4	..	17·8	0	4	26	0	0	0	0	0	8	21	1	0	0
	1130	,,	1489·8	910.0	..	24·5	21·1	19·4	22·5	73	..	6·9	..	18·0	0	6	24	0	0	0	0	0	7	19	4	0	0
	1730	,,	1462.6	907·0	..	25·3	21·8	20·1	23.5	74	..	7.1	..	14·9	0	2	28	0	0	0	0	0	8	16	6	0	0
	2330	,,	1482·1	909.9	..	21·3	20·4	19·9	23·2	90	..	7·1	..	15·6	0	2	27	0	0	0	0	1	9	19	0	1	0
Kerala.																											
Kozhikode	0530	5	1008·2	1007.7	..	24·1	23·5	23·1	28·3	94	..	5·8	..	3.9	0	0	20	7	3	3	0	1	0	3	3	10	0
	0830	,,	1010·0	1009·4	−0·8	25·4	23·8	23·3	28·6	90	+2	6·2	+0·8	5·3	0	0	21	6	1	1	0	1	1	3	8	9	0
	1130	,,	1009·9	1009.3	..	27·3	24.9	23·8	29.5	82	..	6·1	..	9·2	0	2	27	0	0	0	0	5	4	13	7	1	0
	1730	,,	1007·3	1006.7	..	26.7	24.7	23.8	29.5	85	..	6.5	..	11.8	0	1	29	0	0	0	0	0	5	11	14	0	0
	2330	,,	1009.8	1009.2	..	25.0	24.1	23.6	29.1	92	..	6.7	..	7.1	0	0	26	5	3	3	0	1	0	5	9	4	0
Palghat	0830	97	1009.8	998·7	..	24.7	23.4	22.8	27.7	89	..	7.1	..	9.4	0	0	29	0	0	0	0	0	6	21	2	1	0
	1730	,,	1006.5	995·5	..	26·6	23.5	22·1	26·6	77	..	7·2	..	14.9	0	3	27	1	0	0	0	0	8	19	2	0	0
Fort Cochin	0830	3	1010·5	1010.2	−0·7	25·5	24·2	23·5	28·9	89	+5	7·5	+2·4	6.9	0	1	23	5	2	3	2	0	0	4	8	6	0
	1730	,,	1007·5	1007.2	..	26·0	24·0	23·4	28·8	86	..	7·3	..	7·3	0	0	29	1	0	0	1	0	2	13	12	1	0
Cochin (Naval Air Station)	0230	3	1008.7	1008·4	..	24·5	23.7	23.4	28·8	93	..	7·3	..	5·6	0	0	18	4	2	2	0	0	3	4	3	12	0
	0530	,,	1008.7	1008.4	..	24·4	23·4	23·1	28·3	95	..	7.4	..	4·7	0	0	20	6	1	2	0	1	2	3	5	10	0
	0830	,,	1010.4	1010·1	..	25·3	24·0	23·4	28·8	89	..	7.2	..	5.2	0	0	23	6	3	4	1	0	1	1	7	7	0
	1130	,,	1010·4	1010·1	..	27·5	24·7	23·4	28·8	79	..	6.8	..	12·7	0	3	27	4	0	0	0	0	3	4	19	0	0
	1730	,,	1007·8	1007·5	..	26·3	24·2	23·3	28·6	84	..	7.3	..	13·6	0	3	26	1	0	0	0	0	1	10	17	1	0
	2330	,,	1010·3	1010·0	..	25·0	24·5	23·6	29·1	92	..	7·2	..	3.6	0	0	14	0	1	1	1	1	4	2	4	16	0
Alleppey	0830	4	1010·1	1009·7	..	25·6	24·7	24·3	30·4	93	..	7·0	..	8·0	0	2	28	2	7	4	0	0	1	5	11	0	0
	1730	,,	1006·9	1006·5	..	26·6	23·8	22·5	28·8	78	..	7·0	..	15·3	0	3	27	2	0	0	0	0	0	7	21	0	0
Punalur	0830	34	1010·1	1006·2	..	24·3	23·7	23·4	28·8	95	..	6.4	..	0·2	0	0	2	0	0	0	0	0	0	0	2	28	0
	1730	,,	1006.8	1003.0	..	27·6	24.4	22·9	27·9	77	..	6·7	..	5.4	0	0	28	3	0	0	0	0	4	11	10	2	0
Trivandrum	0230	64	1008·5	1001.1	..	23·6	23·1	22·9	27·9	96	..	6·5	..	6·4	0	0	28	6	0	0	0	0	1	0	21	2	0
	0530	,,	1008·7	1001·3	..	23·3	22·9	22·7	27·6	96	..	6·3	..	6·1	0	1	26	3	1	1	0	0	1	2	19	3	0
	0830	,,	1010.4	1003·1	−0·5	24·9	23·7	23·2	28·4	91	+8	6·5	+1·1	6.4	0	0	29	6	1	0	0	0	0	1	21	1	0
	1130	,,	1009·9	1002·6	..	27·1	24·5	23·4	28·8	81	..	7·1	..	13·8	0	3	26	0	0	0	0	0	0	4	25	1	0
	1730	,,	1007·5	1000.2	..	26·6	24·1	23·0	28·1	81	..	6.7	..	10·3	0	1	29	1	0	0	1	0	0	5	24	0	0
	2330	,,	1010·2	1002·8	..	24.1	23·5	23·1	28·3	94	..	6·8	..	7·0	0	1	27	11	0	0	0	0	0	3	14	2	0
Trivandrum (Aerodrome)	0830	8	1010·4	1009.5	..	25·5	23·9	23·2	28·4	87	..	6·9	..	7·9	0	0	30	5	1	0	0	0	0	1	23	0	0
Arabian Sea Island																											
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Amini Divi*	0830	4																									
Hill Stations (excluding Kashmir)—																											
Kohima	0830	1406	1512.0	860.9	..	21.6	20.7	20.4	23.8	93	..	5.7	..	..	0	0	30	5	1	11	3	3	0	3	4	0	0
	1730	,,	1477.8	857.1	..	21·2	20·3	19.9	23·3	92	..	7.1 (b)	..	..	0	0	30	1	3	0	0	0	0	9	17	0	0
Aijal	0830	..	..	..	..	22·2	21·1	20·4	24·0	90	..	7·0 (b)	..	2·5 (b)	0	0	21	0	0	10	0	6	2	2	1	8	0
	1730	..	..	..	..	23·4	22·6	21·2	26·9	87	..	6·7	..	1·7 (b)	0	0	24	1	0	2	1	2	2	14	2	5	0

(b) Mean of 29 days.

*Data given as addenda in December, 1960 issue.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations (excluding Kashmir) — (Contd.)																											
Shilong	0830	1500	1484·5	848·7	−0·1	20·7	18·5	17·2	19·8	81	+2	6·5	+0·9	0·4	0	0	4	0	2	0	0	0	2	0	0	26	0
	1730	,,	1461·2	843·7	..	20·6	19·1	18·0	21·1	87	..	7·1	..	0·3	0	0	3	0	0	0	0	0	2	1	0	27	0
Cherrapunji (R)	0830	1313																									
(R)	1730	,,																									
Darjiling (Raj Bhavan)	0830	2128	1510.4	991.4	+2·6	16·7	15·7	15·0	17·2	90	+6	6·3	−0·1	1·0	0	0	8	3	2	1	2	0	0	0	0	22	0
	1730	,,	1480.9	988.7	..	16·6	15·9	15·3	17·6	93	..	6·4	..	1·4	0	0	8	1	0	1	2	0	4	0	0	22	0
Kalimpong	0830	1209	1466·0	875·7	−2·1	21·5	20·4	19·9	23·1	90	+1	2·4	−3·3	3.0	0	0	30	0	0	0	3	1	0	0	26	0	0
	1730	,,	1443·7	873.4	..	22·1	21·1	20·8	24·3	91	..	2·6	..	3.0	0	4	30	0	0	0	29	0	0	0	1	0	0
Mukteswar (Kumaon)	0830	2311	3131·5	772·0	+0·1	16·2	14·5	13·5	15·4	85	+4	4·2	−0·1	9·4	0	3	21	0	5	6	3	0	2	4	4	6	0
	1730	,,	3115·7	770·2	..	17·5	15·9	15·1	16·4	86	..	4·4	..	13·6	0	5	22	0	0	1	0	2	3	14	7	3	0
Nainital	0830	1953	1466·3	803·5	..	18·2	15·6	14·0	16·4	77	..	3.4	..	4·9	0	1	20	0	5	6	3	0	0	3	4	9	0
	1730	,,	1440·0	801·1	..	18·5	16·2	14·7	16·9	79	..	3.2	..	6·8	0	0	28	3	1	6	1	4	1	11	1	2	0
Joshimath	0830	..	..	..	..	18·5	15·6	13·7	15·9	76	..	4·2	..	3·9	0	0	27	3	7	12	1	0	2	2	0	3	0
	1730	..	..	..	..	20·6	16·6	14·2	16·5	68	..	5·4	..	2·9	0	0	23	2	3	2	3	2	4	4	3	7	0
Badrinath	0830	..	..	..	..	10·1	7·1	4·6	8·5	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpal	0830	..	..	..	..	3·1	2·2	0·8	6·5	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussoori	0830	2042	1458·8	794·7	−1·6	17·8	15·6	14·4	16·2	81	−7	4.0	−0·8	1·7	0	0	17	3	0	0	5	5	1	0	3	13	0
	1730	,,	1448·6	793·7	..	17·5	16·9	16·7	18·9	95	..	6.8	..	2·3	0	0	22	1	0	0	6	10	5	0	0	8	0
Simla	0830	2202	1466·6	780·9	−0·1	18·0	14·0	10·8	13·4	66	−5	2·3	−1·3	2·8	0	0	28	6	10	2	2	3	2	0	3	2	0
	1730	,,	1454·8	779·7	..	17·6	15·4	13·9	16·2	80	..	4·5	..	2·9	0	0	29	5	3	2	1	3	5	2	8	1	0
Dalhousie	0830	1959	1422·8	798·8	..	17·2	15·8	15·0	17·0	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1404·7	797·7	..	20·3	18·7	18·0	20·6	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharamshala	0830	..	..	..	..	23·4	19·1	16·7	19·0	66	..	2·9	..	1·5	0	0	15	3	1	3	3	3	0	0	2	15	0
	1730	..	..	..	..	24·6	20.7	18.5	21.3	70	..	4.4	..	2·5	0	0	21	0	1	1	0	0	10	7	2	9	0
Sikkim																											
Abu	0830	1195	1473.1	878.4	−0.3	20·5	18·8	17·3	19·7	83	+3	3.0	−1.4	3.0	0	0	12	0	0	0	0	1	7	3	1	18	0
	1730	,,	1465.6	876.9	..	23.7	19.3	16.4	18.6	65	..	3.4	..	2·9	0	0	17	1	1	0	0	4	7	2	1	13	1
Pachmarahi	0830	1075	1483·4	891·4	+0·4	22·8	20·7	19·6	22·8	83	0	5·2	0	3·9	0	0	29	2	11	0	0	0	0	5	11	1	0
	1730	,,	1458·4	888·2	..	25·0	21·8	20·3	23·7	77	..	5·4	..	3·7	0	0	28	4	10	0	0	0	0	7	7	2	0
Mahabaleshwar	0830	1382	1475·3	859·5	−1·9	17·8	17·8	17·8	20·4	100	+3	7·7	+0·7	11·7	0	0	30	3	5	1	0	0	8	0	13	0	0
	1730	,,	1462·7	858·2	..	19·1	19·0	18·9	21·8	98	..	7·5	..	11·3	0	0	30	4	3	0	1	0	8	0	14	0	0
Mercara	0830	1152	1489·6	884·4	−0·6	18·4	18·1	17·9	20·5	97	+5	5·8	−0.6	5·0	0	0	30	0	0	0	0	0	0	15	15	0	0
	1730	,,	1468·4	882·0	..	19·5	18·8	18·4	21·1	93	..	6·6	..	4·7	0	0	30	0	0	0	0	0	0	15	14	0	1
Kodaikanal	0830	2343	3137·2	769·6	−0·7	14·2	12·6	11·5	13·6	85	+9	5·8	+1.3	15·0	0	8	20	2	0	0	0	0	0	8	20	2	0
	1130	,,	3144·2	770·0	..	16·5	14·2	12·7	14·7	74	..	6·6	..	13·4	0	7	22	3	0	0	1	1	0	2	22	1	0
	1730	,,	3116·9	768·1	..	14·1	13·2	12·7	14·7	91	..	7·0	..	10·2	0	4	19	2	0	0	0	0	0	3	18	7	0
Ootacamund	0830	2249	1492·0	778·2	−0·6	13·7	12·6	12·1	14·1	89	+6	5·8	+0.1	6·8	0	0	19	0	0	0	0	0	2	16	1	11	0
Coonoor	1730	,,	1467.0	776.3	..	14·8	13.3	12.4	14.4	85	..	6·9	..	5 3	0	1	11	0	0	0	0	0	3	8	1	18	0
Nepal																											
Katmandu	0830	1747	1488·5	825·3	..	18·9	15·5	13·9	15·9	72	+6	5·9	+0.9	5·4	0	0	26	0	0	2	6	4	9	2	2	4	1
	0830	1324	1477·3	865·3	..	21.2	19·7	18·9	21·8	86	..	6·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1469·4	864·7	..	24·9	20·9	18·9	21·8	69	..	6·1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1447·3	862·3	..	22·7	20·3	19·0	22·0	80	..	6·0	..	0·1	0	0	0	1	0	0	0	0	0	1	0	29	0
Sikkim																											
Lachen	0830	..	..	..	..	15·1	13·1	11·7	13·9	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet																											
Yatung Chumbi (R)	0830																										
Ceylon																											
Colombo	0830	7	1010.6	1009·8	−0·6	26·4	24.0	22·9	27·9	82	−1	6·4	+0·6	10·1	0	0	28	0	0	0	0	1	14	12	1	2	0
	1730	,,	1008.0	1007·2	..	26·8	24·0	22·8	27·7	79	..	7·0	..	11·9	0	0	30	0	0	0	0	1	17	12	0	0	0
Tricomalee	0830	3	1007.8	1007.5	−0·8	27·9	23·	21·6	25·8	69	−9	6·3	+2·7	21·2	0	21	9	0	0	0	0	3	26	1	0	0	0
	1730	,,	1004.9	1004.5	..	30·0	23·8	20·8	24·6	57	..	6·4	..	18·5	0	12	18	2	1	0	1	3	22	1	0	0	0
Batticola	0830	3	1008.5	1008.2	..	28·1	24·0	22·2	26·7	70	..	5.4	..	6·8	0	0	22	0	0	0	3	1	6	8	4	8	0
	1730	,,	1005.6	1005.2	..	29.3	25·2	23·3	28·6	71	..	6.4	..	15.3	0	4	26	0	0	6	11	2	5	4	2	0	0
Hanmkonda	0830	15	1009·5	1007.8	−0·4	26·8	24·4	23·2	28·4	81	−4	5·8	+2·0	23·4	0	23	7	0	0	0	0	0	27	3	0	0	0
	1730	,,	1007·0	1005·2	..	27·2	24·0	22·1	26·8	75	..	6·6	..	26·6	0	26	4	0	0	0	0	0	22	8	0	0	0
Mannar	0830	4	1008.7	1008·3	..	27.6	25·3	24·3	30.4	82	..	6·2	..	13·0	0	4	26	0	0	0	0	6	24	0	0	0	0
	1730	,,	1005.6	1005.2	..	27·4	25·1	24.0	29·8	83	..	6·7	..	15.3	0	4	26	0	0	0	0	9	21	0	0	0	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or high in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind in kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*Contd.*																											
Damodar Catchment																											
Bokaro	0830	242	1004·9	978·0	..	27·8	25·5	24·5	39·9	82	..	5·3	..	..	0	0	23	0	4	1	6	1	2	7	2	7	0
	1730	"	1001·1	974·5	..	29·0	27·1	26·1	34·0	83	..	6.0	..	..	0	0	22	1	1	2	8	2	0	7	1	8	0
Hazaribagh	0830	615	1004·6	937·3	..	25·4	23·6	22·8	27·8	86	..	5·8	..	4·4	0	0	22	2	0	8	3	1	1	2	5	8	0
	1730	"	1000·9	934·0	..	26·0	23·9	23·0	28·7	84	..	5·6	..	4·3	0	0	17	3	0	6	1	0	1	2	4	13	0
Tilaiya	0830	..	..	..	..	27·1	24·7	23·6	29·1	81	..	4·7	..	9·4	0	1	28	1	1	8	3	2	0	9	4	1	1
	1730	..	..	..	..	28·3	24·9	23·4	29·0	76	..	5·0	..	8·9	0	2	27	6	1	10	2	0	1	4	4	1	1
Ramgarh	0830	..	..	..	..	27·9	25·3	24·2	30·7	80	..	6·0	..	2·1	0	0	18	1	4	2	0	3	3	4	1	12	0
	1730	..	..	..	..	28·0	25·4	24·4	30·7	81	..	6·7	..	1·6	0	0	16	3	7	1	2	0	2	1	0	14	0
Panchet Hills	0830	..	..	..	..	29·2	26·3	25·4	32·1	81	..	7·0	..	7·6	0	0	29	4	4	6	2	1	8	2	2	1	0
	1730	..	..	..	..	28·8	26·3	25·4	32·4	82	..	7·2	..	4 6	0	0	24	3	3	12	2	2	2	0	0	6	0
Durgapur	0830	..	..	..	..	28·7	26·4	25·4	32·6	80	..	5·9	..	9·3	0	0	30	3	1	4	5	11	2	0	4	0	0
	1730	..	..	..	..	28·7	26·2	25·1	31·8	82	..	6·2	..	8.9	0	4	23	1	6	4	6	7	1	1	1	3	0
Maithon	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	0	0	26	14	1	3	1	2	2	1	2	4	0
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	0	0	24	11	3	1	4	3	0	0	2	6	0
Kolar	0830	..	..	..	..	..	..	..	..	..	..	..	..	11·3	0	3	27	2	0	10	2	0	0	16	0	0	0
	1730	..	..	..	..	..	..	..	..	..	..	..	..	6·0	0	1	28	2	0	14	0	3	0	9	1	1	0
Mahanadi Catchment																											
Hirakud	0830	159	1005·2	989·4	..	28·3	25·9	24·7	31·4	81	..	5·4	..	6·5	0	0	27	2	3	4	2	3	3	4	6	3	0
	1730	"	1001·3	983·7	..	28·5	26·2	24·6	32·1	74	..	7·1	..	4·7	0	0	22	1	1	2	7	4	2	3	2	8	0
Khijrawan	0880	..	..	..	..	26.5	24·4	23·5	28·9	84	..	3·7	..	6·2	0	0	22	0	2	3	0	0	10	4	0	8	3
	1730	..	..	..	..	27·8	24·7	23·5	28·7	77	..	(g) 5·1	..	(f) 6·8	0	0	19	1	1	4	0	1	5	3	1	6	3
Sonepur	0830	..	..	..	..	29·1	26·2	25·0	31·7	84	..	..	..	5·9	0	0	28	0	2	8	1	1	7	8	1	2	0
Ginabahar	0830	..	..	..	..	26·8	24·5	23·4	28·9	83	..	..	..	..	..	..	..	..	..	...	..	..	..	..	..	..	..
Bhimkund	0830	..	..	..	..	26·9	24·9	24·0	29·8	85	..	6·7	..	1·2	0	0	11	1	2	0	1	1	1	0	5	9	0
	1730	..	..	..	..	26·2	24·6	23·0	29·5	86	..	7·1	..	0·9	0	0	7	1	0	0	1	2	2	0	1	23	0
Narbada Catchment																											
Punasa	0830	..	..	..	..	26·2	23·6	22·3	27·1	79	..	..	..	7·3	0	0	28	1	2	0	1	1	9	11	3	2	0
	1730	..	..	..	..	30·8	25·5	23·0	28·3	65	..	..	..	7·2	0	1	25	5	3	0	2	0	5	9	2	4	0
Bagra Tawa	0830	..	..	..	..	26·6	23·8	22·4	27·3	79	..	3·7	..	5·8	0	0	23	1	4	0	3	1	12	2	0	7	0
	1730	..	..	..	..	30·0	24·4	21·4	26·1	63	..	4·0	..	5·3	0	0	23	1	5	1	3	0	10	2	1	7	0
Thikri	0830	..	..	..	..	26·8	24·3	23·3	28·2	82	..	3.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Jhadol (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharoi	0830	..	..	..	..	27·7	24·4	22·8	27·7	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	32·3	25·0	21·5	25·6	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	..	..	..	18·8	16·5	15·1	17·1	79	..	3·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·9	16·3	14 5	16·5	78	..	4·6	..	..	..	..	..	..	..	...	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	23·6	21·3	20·0	23·4	81	..	2·9	..	1·1	0	0	10	6	2	1	0	0	0	1	0	20	0
	1130	..	..	..	..	28·6	22·5	19·1	22·1	58	..	3·0	..	2·3	0	0	16	2	1	3	2	4	3	1	0	14	0
	1730	..	..	..	..	29·1	22 3	18·8	21·7	55	..	4·1	..	6·4	0	0	25	1	1	1	9	5	5	1	0	5	2
Gandak Catchment																											
Gorkha (R)	0830																										
(R)	1730																										
Pokhara	0830	..	..	..	..	24·0	22·0	20·8	24.6	83	..	5.6	..	1·3	0	0	13	0	0	2	6	3	2	0	0	17	0
	1130	..	..	..	..	26·2	22·8	21·3	25·3	75	..	5·4	..	4·5	0	0	25	1	0	2	14	7	1	0	0	5	0
	1730	..	..	..	..	25·1	22·9	21·9	26·3	83	..	5·5	..	1·4	0	0	13	3	0	2	4	2	0	0	2	17	0
Nawakot	0830	..	..	..	..	23·1	22·0	21·4	25·6	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·9	22·3	21·1	25·1	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom	0830	..	..	..	..	15·9	12·8	10·9	13·0	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·4	12·9	10·7	12·9	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	24·0	21·9	20.5	24·8	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·1	23·0	22·3	26·6	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	17·9	16·7	16·1	18·3	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·3	18·3	17·3	19·7	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(f)—Mean of 25 days. (g)—Mean of 24 days. (R) Register not received

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—(contd.)																											
Gogra Catchment (Trans Himalayan Region)																											
Dailekh (R)	0830																										
(R)	1730																										
Gogra Catchment																											
Dandeldhura*	0830	..	..	..	..	18·9	17·3	16·4	18·8	86	..	4·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·9	17·7	17·0	19·5	89	..	4·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Munsiyari (R)	0830																										
(R)	1730																										
Butwal	0830	..	..	..	..	28·3	25·4	24·1	30·0	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	27·8	25·9	25·1	31·9	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu†	0830	..																									
	1130	..																									
	1730	..																									
Kosi Catchment																											
Chautara*	0830	..	..	..	..	20·1	19·5	19·2	22·2	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·0	20·2	19·6	22·5	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	18·3	16·9	16·4	18·5	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·1	16·8	16·3	18·5	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga	0830	..	..	..	..	19·1	18·0	17·5	20·0	91	..	5·4	0·3	0·3	0	0	2	0	0	0	0	0	1	1	0	28	0
	1130	..	..	..	..	20·9	18·5	17·3	19·7	80	..	4·4	1·0	1·0	0	0	8	1	1	2	1	2	0	0	1	22	0
	1730	..	..	..	..	19·0	17·8	17·2	19·6	89	..	5·9	0·8	0·8	0	0	6	0	0	3	0	0	0	3	0	24	0
Barahkshetra	0830	146	1006·3	989·9	..	26·1	24·4	23·6	29·1	87	..	6·2	..	5·8	0	0	28	0	2	0	0	0	14	7	5	2	0
	1130	,,	1005·1	988·8	..	28·5	25·4	24·1	30·8	78	..	6·2	..	7·5	0	0	29	0	1	0	1	0	17	9	1	1	0
	1730	,,	1002·5	986·5	..	27·1	25·4	24·6	30·9	87	..	6·1	..	3·1	0	0	19	0	5	1	0	0	9	1	3	11	0
Angbung	0830	..	..	..	..	21·9	20·7	20·1	23·5	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·1	20·5	19·2	22·2	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	19·2	17·9	17·2	19·6	89	..	6·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	21·5	19·4	18·4	21·1	83	..	6·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·6	18·0	17·4	19·9	86	..	6·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	20·8	19.1	18·1	20·8	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·3	19·7	18·9	21·8	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	12·3	11·3	10·3	12·6	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·1	10·5	10·1	12·3	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	19·2	18·7	18·5	21·3	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·4	18·7	18·3	21·0	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	21·2	20·0	19·4	22·5	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·9	21·0	20·1	23·5	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment																											
Gangtok	0830	1812	1484·5	818·5	..	17·7	17·1	16·6	19·2	93	..	7·2	..	0·8	0	0	5	2	2	0	0	0	1	0	0	25	0
	1130	,,	1474·0	817·7	..	19·7	18·3	17·7	20·1	89	..	6·8	..	2·2	0	0	14	1	1	0	0	6	5	1	0	16	0
	1730	,,	1453·8	815·7	..	18·5	17·2	17·1	19·6	92	..	7·2	..	1·2	0	0	9	1	0	0	1	6	1	0	0	21	0
Gezing	0830	..	..	..	..	21·8	19·1	17·7	20·2	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·1	18.7	18·0	20·6	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

†Data included under 'Nepal'. *Observations for 21 days. (R) Register not received.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations, were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons and the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the Table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9·0 km. a.m.s.l. are given under Table IV and data above 9·0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations,

V—represents the mean wind speed in metres per second* irrespective of direction,

v— represents the resultant mean velocity in metres per second*,

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0·15 km. a.g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a.m.s.l. Of these the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1, and 16·2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

*Values obtained by converting the original data in knots.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

	Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flights (IST)			
1	Agartala	23°53′	91°15′	17	28th November, 1951	0530	1730	2330	
2	Ahmedabad	23°04′	72°38′	61	19th May, 1928	0530	1730	2330	
3	Amausi	26°45′	80°53′	133	20th November, 1950	0530	1730	2330	
4	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1730	2330	
5	Anantapur	14°41′	77°37′	365	12th February, 1946	0530	1730	2330	
6	Asansol	23°41′	86°59′	135	29th May, 1942	0530	1730	2330	
7	Baghdogra	26°38′	88°19′	140	7th June, 1953	0530	1730	2330	
8	Bairagarh	23°17′	77°21′	532	26th February, 1943	0530	1730	2330	
9	Bajpe	12°55′	74°53′	104	25th May, 1959	0530	1730	2330	
10	Bamrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
11	Bangalore	12°58′	77°35′	936	19th May, 1915	0530	1730	2330	
12	Bareilly	28°22′	79°24′	181	12th January, 1943	0530	1730		
13	Begumpet	17°27′	78°28′	543	1st September, 1929	0530	1730	2330	
14	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1730		
15	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530	1730	2330	
16	Bhuj	23°15′	69°48′	90	14th September, 1937	0530	1730	2330	
17	Bikaner	28°00′	73°18′	229	18th October, 1946	0530	1730	2330	
18	Chikalthana	19°51′	75°24′	583	7th October, 1951	0530	1730	2330	
19	Cochin†	09°56′	76°14′	13	16th March, 1942	0530	1730	2330	
20	Darjeeling	27°03′	88°16′	2115	21st May, 1956	0530	1730		
21	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530	1730		
22	Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
23	Gadag	15°25′	75°38′	650	3rd May, 1943	0530	1730	2330	
24	Gannavaram	16°32′	80°48′	32	8th April, 1942	0530	1730	2330	
25	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
26	Gaya	24°45′	84°57′	119	19th March, 1937	0530	1730	2330	
27	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530	1730	2330	
28	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530	1730		
29	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1730	2330	
30	Imphal	24°51′	93°58′	805	8th March, 1952	0530	1730	2330	
31	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530	1730	2330	
32	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530	1730	2330	
33	Jaipur	26°49′	75°48′	403	6th June, 1953	0530	1730	2330	
34	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1730		
35	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530	1730	2330	
36	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
37	Madras	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38	Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1730	2330	
39	Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1730	2330	
40	Nagpur	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41	Nanpara	27°50′	81°30′	142	23rd April, 1957	0530	1730		
42	New Delhi	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
43	Poona	18°32′	73°51′	593	5th January, 1925	0530	1730	2330	
44	Port Blair	11°40′	92°43′	93	29th October, 1945	0530*	1130	1730*	2330
45	Raipur	21°14′	81°39′	308	15th July, 1944	0530	1730	2330	
46	Raxaul	26°59′	84°51′	83	28th October, 1957	0530	1730		
47	Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
48	Tiruchirapalli	10°46′	78°43′	96	22nd June, 1936	0530	1730	2330	
49	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50	Udaipur	24°35′	73°42′	587	24th June, 1947	0530	1730	2330	
51	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530	1730	2330	
52	Veraval	20°54′	70°22′	17	13th October, 1941	0530*	1130	1730*	2330
53	Visakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radiowind ascents.
†Naval Meteorological Office.

5—3 D. D. Obs. P/65

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Station	BAJPE												BAMRAULI											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.5	0.3	155	30	3·1	2·6	286	30	1·3	0·7	246	30	1·0	0·6	248	30	2·6	0·9	319	30	1·7	0·8	320
0·15 a.g.	24	3.6	1·1	241	27	5·3	4·8	279	26	4·2	2·7	279	30	5·5	2·1	280	29	4·3	1·7	304	30	4·6	2·3	312
0·3 a. m.s.l.	24	3·8	1·9	283	27	5·8	5·3	282	26	4.7	3·5	281	30	5·5	2·1	280	29	4·1	1·9	307	30	4·6	2·3	313
0·6 "	21	5·5	4·8	297	24	7·4	7·0	297	22	6·0	5.2	294	30	5·5	2·4	298	28	4·2	2·0	317	30	4·4	2·4	320
0·9 "	20	6·1	5·7	299	18	8.1	7.9	306	20	6·3	5·7	301	30	5·3	2·2	308	27	4·3	1·7	321	30	4·6	2·4	323
1·5 "	15	6·8	6·4	297	15	8.1	7·9	307	15	7·3	6.9	300	30	5·2	2·5	323	20	5·6	2·3	305	30	4·9	3·0	310
2·1 "	13	6·2	5·8	290	11	6·7	6·6	299	15	7·5	6·8	293	30	5·2	2·1	325	17	5 6	1·3	296	30	4·9	2·9	305
3·0 "	8	5·8	4.9	289	6	5·0	4·7	308	9	6·1	6·1	295	30	4·8	2·2	330	11	5·6	2·0	289	30	5·6	2·6	318
3·6 "	3	4·8	4·4	280	4	4.9	3·5	298	6	3·5	2·3	309	30	4·4	1·8	305	7	5·2	3·4	294	30	5·7	2·9	324
4·5 "					2	4·1	3·4	107	3	2·7	1·8	110	30	4·9	1·5	284	3	6.5	4.7	262	30	6.1	1·7	328
5·4 "					2	7·7	7·7	094	2	4·9	4·7	089	30	4·9	1·5	252	1	7.7	7·7	265	30	5.0	2·3	277
6·0 "					2	7·5	7·4	092	2	6·2	6·0	109	30	4·7	1·7	220					30	4.7	2·4	260
7·2 "					2	6·9	6·8	087					30	3·9	1·4	225					30	5.3	3·1	253
9·0 "					1	9·8	9·8	090					27	5·7	2·1	244					26	5.6	3.0	247

Station	BAMRAULI				BANGALORE												BAREILLY							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·9	0·1	021	30	3·9	3·7	271	30	4.3	3·8	273	31	3·4	0·7	058	30	1·3	0·6	059	30	1·4	0·5	330
0.15 a.g.	29	4·8	0·1	079	6	6·4	6·4	273	28	5.6	4·9	260	23	7·4	1·3	074	29	4·2	0·5	266	28	3·2	1·4	318
0.3 a.m.s.l.	29	4·8	0·1	026													29	2·8	0·3	345	28	3·1	1·3	317
0·6 "	29	5·2	0·4	289													29	5·2	2·4	276	28	4·2	1.9	304
0·9 "	29	5·5	1·2	295													29	5 7	3·1	287	28	4·5	2.7	299
1·5 "	28	5·2	1·9	299	6	9·6	9·5	289	28	7.1	6·5	269	23	8·1	2·2	021	29	6·5	3·9	314	28	6·1	4·1	299
2·1 "	24	5·0	1·6	316	6	7·3	7·3	289	22	7·1	6·6	281	23	5·6	2·8	003	27	6·0	3·3	328	28	6·6	4·2	307
3.0 "	9	5·0	3·5	002	5	4·1	3·7	282	14	6·5	5·7	294	20	5·0	2·6	339	22	4·8	1·5	019	26	7·1	4·0	322
3·6 "	4	4·1	1·6	073	4	4·4	2·2	255	9	5·6	4·4	286	18	5·5	2·1	314	19	4·2	0·6	116	25	7·3	3·7	326
4·5 "	2	4·4	2·6	061	2	3·3	3·1	291	5	4·1	2·3	228	14	5·3	0·9	212	18	5·5	0·6	224	24	6.7	3.0	321
5·4 "	1	5·1	5·1	265	2	2·1	2·0	290	5	4.3	1·5	152	12	5·0	4·0	088	15	5·9	2·9	236	22	6.5	3.7	277
6·0 "					1	2·6	2·6	310	5	5·1	2·7	087	9	5·3	2·7	100	15	5·9	3·9	248	21	7.0	4·8	276
7.2 "									4	5·8	5·6	091	6	5·7	4·3	105	13	6·7	5·1	249	18	8·9	6·4	269
9.0 "									1	12·9	12·9	090	2	4·1	3·8	133	7	8.2	3.5	282	13	11·8	10·4	246

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Station	BEGUMPET												BHAGALPUR								BHUBANESHWAR			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2.5	2.2	297	30	3.0	1.8	315	30	1.1	0.8	310	30	1.6	0.8	110	30	1.5	0.7	112	30	2.3	1.1	255
0.15 a.g.	25	5.9	4.5	293	28	4.6	2.4	305	25	4.3	1.6	310	25	3.9	1.7	132	28	3.9	1.5	094	30	4.6	2.1	264
0.3 a.m.s.l.													25	4.6	1.8	130	28	3.9	1.5	095	30	5.2	2.9	234
0.6 ,,	25	3.9	3.1	292	28	4.4	2.2	302	25	3.0	1.3	307	25	5.3	1.1	145	28	4.6	0.9	110	30	5.5	2.9	232
0.9 ,,	25	6.6	4.1	318	28	4.9	2.6	325	25	5.9	2.4	333	22	5.3	0.9	171	27	5.2	0.8	172	30	5.4	2.1	246
1.5 ,,	24	5.7	2.9	355	28	5.6	3.1	348	25	6.6	2.9	203	20	5.7	0.5	135	26	5.9	1.2	215	27	5.3	0.5	258
2.1 ,,	21	5.0	2.4	009	25	6.4	3.5	348	24	5.8	2.9	330	15	5.6	1.9	119	23	6.0	1.2	258	25	4.8	1.1	088
3.0 ,,	18	5.4	2.3	039	19	6.2	2.3	325	20	4.8	1.5	007	14	6.2	1.9	159	20	5.7	0.1	360	18	5.0	1.1	085
3.6 ,,	13	5.9	3.3	055	16	4.9	1.5	014	11	3.7	2.3	038	13	6.2	2.6	205	15	4.8	0.7	156	16	5.0	1.6	107
4.5 ,,	10	6.5	4.4	055	12	4.9	1.0	085	2	3.1	2.5	190	10	4.7	0.9	155	12	4.6	1.5	328	13	5.8	2.2	095
5.4 ,,	5	7.8	6.2	071	3	6.3	6.0	100	1	4.6	4.6	100	6	4.1	0.8	217	8	4.5	1.4	349	10	6.5	3.4	085
6.0 ,,	4	10.1	10.0	086	2	8.7	8.7	094					4	5.1	2.9	316	7	4.6	2.9	005	9	7.2	4.0	832
7.2 ,,	3	8.6	8.5	087	1	7.2	7.2	115					4	5.3	4.5	326	3	4.8	4.6	314	3	8.6	8.5	086
9.0 ,,																	2	12.4	12.1	254	1	6.2	6.2	100

Station	BHUBANESHWAR								BHUJ												BIKANER			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2.8	1.4	180	30	1.6	1.0	217	30	2.1	1.7	246	30	5.0	4.2	245	30	8.8	3.1	244	30	1.5	1.2	216
0.15 a.g.	28	4.8	2.3	165	27	4.7	3.2	185	30	6.2	5.5	257	30	6.7	5.8	241	30	6.9	6.3	257	30	7.6	5.7	228
0.3 a.m.s.l.	28	5.4	2.1	161	27	5.2	3.7	188	30	6.8	6.0	261	30	7.1	6.2	245	30	7.3	6.7	258	30	5.3	4.3	224
0.6 ,,	28	5.3	1.8	168	27	5.6	3.3	185	30	7.1	6.3	260	30	7.1	6.2	253	30	6.6	5.7	257	30	8.1	6.1	223
0.9 ,,	27	4.9	1.1	143	24	4.8	1.7	158	29	6.2	4.9	252	30	6.5	5.7	258	30	5.3	4.6	245	30	6.7	5.1	238
1.5 ,,	23	5.7	1.0	058	23	5.5	1.4	081	22	4.4	2.4	176	25	4.5	3.0	279	26	3.9	1.5	146	30	4.3	2.0	254
2.1 ,,	21	6.6	1.2	035	20	5.6	1.4	084	21	3.3	1.4	108	22	4.1	1.0	340	25	3.9	1.8	077	30	4.0	1.4	337
3.0 ,,	18	6.6	1.6	043	17	5.5	2.1	093	18	3.7	2.2	060	19	4.6	1.6	067	25	4.1	2.6	057	29	4.7	3.2	013
3.6 ,,	11	5.4	2.0	051	6	4.9	2.8	089	4	3.3	2.5	123	18	4.5	2.4	058	15	4.2	2.2	047	26	6.1	4.6	018
4.5 ,,	7	4.6	4.3	061	1	5.7	5.7	090					17	4.4	1.5	063	2	4.4	3.2	002	17	6.9	5.9	026
5.4 ,,	1	4.6	4.6	025									15	7.7	3.2	001					10	6.0	3.6	012
6.0 ,,													10	8.0	3.0	350					2	9.8	9.5	309
7.2 ,,													3	8.6	2.9	044					1	16.5	16.5	315
9.0 ,,																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Station	BIKANER								CHIKALTHANA												COCHIN			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·2	0·7	242	30	1·5	0·9	193	30	3·5	3·4	282	30	4·1	2·7	314	30	3·4	2·6	287	30	1·4	0·8	328
0·15 a. g.	30	4·4	1·4	256	30	6·5	3·0	200	30	6·5	5·2	297	30	6.5	4·2	324	27	6·5	4·4	305	23	3·3	2·4	326
0·3 a.m.s.l.	30	4·1	0·7	243	30	5·1	2·2	194													23	4·8	4·0	312
0·6 ,,	30	4·7	2·0	262	30	6·5	3·0	202													22	8·2	7·7	303
0·9 ,,	30	3·0	1·7	272	30	5·9	2·1	222	30	7·3	5·3	310	30	6·1	4·4	335	27	7·1	4·6	322	21	9·9	9·4	302
1·5 ,,	30	4·2	1·5	258	30	4·8	1·4	264	30	7·2	3·9	348	30	6·3	4·1	346	27	6·9	4·0	346	18	11·3	10·8	296
2·1 ,,	29	3·7	1·1	296	29	3·8	1·6	324	27	6·5	2·9	009	24	6·6	3·3	009	23	6·1	3·2	024	16	11·6	11·4	291
3·0 ,,	26	4·4	2·6	341	25	4·4	3·2	333	16	5·7	3·3	052	10	5·5	3·7	029	14	6·4	4·2	028	10	9·8	9·3	298
3·6 ,,	26	5·0	3·2	340	16	5·2	4·3	353	6	6·3	3·4	063	4	5·8	5·1	023	8	4·9	3·2	036	5	8·3	7·5	307
4·5 ,,	22	5·8	3·4	331									3	4·8	3·9	024	3	7·6	7·2	043	1	8·2	8·2	320
5·4 ,,	21	7·7	5·9	313									2	8·7	8·5	027								
6·0 ,,	17	6·3	4·5	311									2	11·1	9·4	022								
7·2 ,,	8	7·7	7·3	285																				
9·0 ,,	1	9.8	9.8	285																				

Station	COCHIN								DARJEELING								DEHRA DUN							
Time in I. S. T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·0	2·7	294	30	1·4	0·4	283	30	0·1	0·1	084					30	1·0	0·8	048	30	1·4	0·8	280
0·15 a.g.	25	4·9	4.5	298	20	3·8	2·6	291	6	2·5	1·7	098	5	2·4	1·2	113	26	1·7	0·9	128	28	3·1	1·8	268
0·3 a.m.s.l.	25	6.9	6.5	296	20	5·2	4·4	291																
0·6 ,,	25	9.0	8.7	297	20	8·3	7·9	293																
0·9 ,,	24	10·0	9·8	298	19	10·2	9·6	295									26	1·6	0·9	152	28	3·1	1·9	265
1·5 ,,	20	10·4	10·1	301	17	12·1	11·9	292									26	1·7	0·5	241	27	2·8	2·2	280
2·1 ,,	17	9·5	9·0	302	11	11·0	10·6	296									21	3·1	1·5	302	24	3·3	1·8	278
3·0 ,,	11	9·4	8·4	304	6	9·4	8·9	291	6	2·5	1·9	096	5	1·9	1·2	095	16	3·5	1·2	353	15	4·3	0·9	321
3·6 ,,	7	9·2	7·6	298	2	4·1	4·0	303	6	3·0	1·9	112	5	2·4	0·7	338	15	4·1	1·7	351	12	4·7	1·3	353
4·5 ,,	3	8·1	7·6	284	1	7·2	7·2	315	4	3·6	0.8	132	3	2·2	1·2	143	2	6·4	6·2	112	10	4·9	2·4	349
5·4 ,,									3	3.4	2.4	189	2	2·6	2·3	171	1	0·5	0·5	110	6	7·2	5·3	303
6·0 ,,									3	4·3	2.7	223	1	6·7	6·7	165					4	7·2	5·5	273
7·2 ,,									1	6·2	6·2	275									3	9·9	7·6	270
9·0 ,,									1	10·8	10·8	270									1	25·7	25·7	285

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Station	DUM DUM																GADAG							
Time in I. S. T.	0530*				1130				173 *				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·4	0·8	166	30	1·7	0·8	146	30	1·2	0·7	165	30	1·4	1·0	168	30	3·4	3·0	266	30	4·2	3·5	268
0·15 a.g.	30	4·7	2·7	176	28	3·8	1·8	159	29	4·4	2·8	166	29	5·6	4·2	170	23	6·7	5·9	263	30	6·8	5·8	259
0·3 a.m.s.l.	30	4.9	2.9	183	28	4.6	2.2	169	29	4·7	2.6	168	29	5.3	4·9	176								
0·6 ,,	29	5.2	3.1	200	28	5.5	2.2	178	29	5.2	2.8	170	29	6·1	4·7	175								
0·9 ,,	27	4·9	1·6	197	26	5·9	2·0	205	28	4.8	2·1	168	28	5·9	3·7	174	23	8·2	7·3	285	30	7·4	6·3	267
1·5 ,,	26	5·0	1·4	176	20	5·1	0·8	237	27	5·6	1·8	175	22	4·5	1·5	148	17	8·1	5·6	302	29	7·4	5·9	277
2·1 ,,	25	5·9	1·6	183	11	4.0	0.5	328	25	5·8	2·0	156	19	4·6	1·1	126	13	6·5	3·8	304	25	6·1	3·5	301
3·0 ,,	25	5·5	2·3	160	3	4.1	4.1	075	23	5·6	1·2	140	11	4·6	2·2	115	11	4·1	2·2	305	17	5·2	1·5	341
3·6 ,,	24	5·7	2·6	174	2	4·9	4.7	084	23	6·3	1·7	144	4	4·5	2·5	119	10	4·0	2·6	299	11	4·4	1·5	037
4·5 ,,	23	6·0	2·6	170	1	8·2	8·2	060	23	6·6	1·7	144	1	2·6	2·6	300	9	4·6	1·2	004	5	5·3	3·0	093
5·4 ,,	22	6·3	2.4	146					23	6·8	2·4	115	1	3·1	3.1	050	8	5.1	2·1	074	4	6·2	3·6	079
6·0 ,,	22	5.8	2.2	141					22	5·9	1·6	140	1	2·6	2·6	055	7	5·8	2·5	075	2	7·7	7·7	065
7·2 ,,	22	5.0	2.4	140					22	5·8	2·5	170	1	2.1	2·1	250	7	7·3	3.3	032	2	9·8	9·7	075
9·0 ,,	16	4.0	2.5	102					17	5·1	1·9	150					2	7.5	7.5	090	2	7·7	7·7	072

Station	GADAG				GANNAVARAM												GAUHATI							
Time in I. S. T.	2330				0530				1730				2330				053. *				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·7	4·5	267	30	1·9	1.2	283	30	1·7	0·7	243	30	1·6	0·4	283	30	0·4	0·4	060	31	2·3	1·7	015
0·15 a.g.	23	8·7	8 4	259	30	4·6	2·3	280	30	3·3	1·6	264	29	3·9	0·3	192	30	2·3	1·1	083	30	3·5	3·1	034
0·3 a.m.s.l.					30	5·3	2·4	271	30	3.9	1.9	274	29	4·2	0·4	288	30	2·4	1·0	081	30	3·9	3·3	045
0·6 ,,					30	6·0	2·7	266	30	4.5	2.1	290	29	4·7	1·2	318	30	3·2	0·9	082	30	3·7	2.8	065
0·9 ,,	23	9·3	8·9	273	30	5.7	2.6	284	29	5.1	2.7	309	29	5·0	1·8	320	30	4·1	0·6	125	29	3·9	2·7	098
1·5 ,,	23	8·1	7·2	296	28	5.5	2.6	313	27	5.8	2.8	330	28	5·4	1·8	302	30	4·6	1·4	199	29	4·8	3.5	120
2·1 ,,	20	5·8	3·7	318	26	5.1	2·1	330	25	5.6	2.7	310	26	5·1	1·8	350	30	5·1	2·3	200	28	6·0	4·1	120
3·0 ,,	17	4·6	3·0	303	22	5·7	2·3	014	23	4·8	2·7	288	24	4·5	1·7	018	30	4·7	2·0	205	23	6·3	4·5	106
3.6 ,,	12	4·5	2·9	293	20	6·1	1·7	036	19	4·9	2·7	298	17	4·5	1·4	040	30	4·9	2·0	206	19	6.0	4.9	104
4·5 ,,	5	3.7	1·1	117	10	7·5	4·6	081	15	5·4	2·7	258	10	4·9	1·5	087	30	4.8	3·0	218	13	3·9	1·8	137
5·4 ,,	2	5·9	3·3	114	9	7·4	4·6	080	12	5.7	1.9	253	7	4·9	3·7	104	29	4·9	3·3	218	7	3.0	2·2	120
6·0 ,,	2	4·6	3·0	102	8	8·1	5·1	100	9	5·5	0·9	185	6	5·1	4·4	102	29	4·8	3·3	223	4	3·7	3·3	115
7·2 ,,					5	7·7	4.9	104	7	9·0	4·8	082	1	6·2	6·2	125	29	4·9	3·0	226	3	4·8	4·7	085
9·0 ,,					1	11.8	11·8	100	3	12.4	12.1	092					23	5.2	2·9	235				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Station	GAUHATI								GAYA												GOPALPUR			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·0	0·5	113	30	1.3	0.5	123	30	1.7	0.5	199	30	2.0	0.7	030	30	1.7	1.0	177	30	1.5	0.9	289
0.15 a. g. .	30	2.8	1.3	105	28	2.4	0.7	155	27	4.3	1.0	190	27	3.9	2.0	012	29	4.1	0.7	136	30	5.0	2.1	270
0.3 am-.s.l. .	30	3.1	1.0	107	28	2.7	0.5	125	27	4.8	0.9	206	27	4.0	1.7	012	29	4.2	0.6	237	30	5.2	2.2	242
0.6 ,, .	30	3.8	1.0	115	27	3.5	0.5	107	27	6.1	1.2	281	27	4.3	1.5	015	29	4.5	0.6	200	30	4.7	1.9	236
0.9 ,, .	30	2.4	1.0	160	26	3.7	0.7	212	27	6.0	1.2	309	27	4.7	1.2	001	29	4.6	0.9	235	30	4.7	0.9	252
1.5 ,, .	30	4.8	2.4	216	25	4.5	2.1	221	23	5.1	0.9	330	26	6.5	1.7	305	25	4.9	0.9	291	27	5.6	1.4	160
2.1 ,, .	29	4.9	2.9	220	22	4.1	1.8	199	18	5.1	0.5	287	22	4.9	2.0	290	20	4.4	0.3	328	19	4.7	0.7	063
3·0 ,, .	29	5.3	2.3	214	18	4.4	1.7	191	13	4.2	1.8	177	13	3.9	1.5	287	10	4.6	1.2	148	18	4.7	0.1	071
3.6 ,, .	29	4.8	2.1	224	14	4.8	2.3	188	5	4.1	0.6	074	9	4.9	2.3	245	2	1.8	0.8	353	12	4.6	1.7	105
4.5 ,, .	29	4.8	2.9	240	11	4.4	2.6	193	4	2.3	1.6	085	7	5·7	1·3	276	1	1.0	1.0	160	6	3.9	2.6	088
5.4 ,, .	29	4.8	2.6	244	7	5.6	4.6	211	2	1.3	0.8	257	6	4·1	1·4	247					5	4.4	3.5	088
6.0 ,, .	29	5.1	3.1	230	7	6.4	5.0	221	2	0·5	0.4	331	5	4·2	2·8	291					5	5·9	4·6	080
7.2 ,, .	29	4.8	2.5	226	4	2.8	1.8	228	1	3.1	3.1	070	4	6·8	6·2	262					1	3.1	3.0	045
9.0 ,, .	24	6.1	3.6	238	2	2.8	2·7	284																

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3.9	2.0	167	30	2.6	1.7	219	30	2.1	1.2	110	30	1.5	0.2	332	30	1.4	1.2	245	30	1.9	0.9	314
0.15 a.. g. .	30	4.8	2.7	171	30	4.5	3.0	212	27	4.3	1.4	091	30	3.9	0.5	358	30	5.5	3.4	265	30	4.4	1.9	334
0.3 a. m.s.l .	30	4.8	2.3	170	30	4.6	3.0	207	27	4.9	1.1	109	30	4.5	0.5	069	30	4.4	2.9	250	30	3.9	1.8	327
0.6 ,, .	30	4.7	1.5	160	30	4.4	2.3	199	24	5.7	0.6	078	28	4.8	0.4	081	30	6.2	3.9	279	30	4.9	2.3	331
0.9 ,, .	28	4.4	0.8	080	28	4.2	1.2	188	21	5.1	1.0	008	28	4.9	0.4	355	30	5.9	3.4	298	30	5.0	2.8	326
1.5 ,, .	27	4.4	1.1	057	28	4.5	0.9	083	19	5.7	2.0	006	27	5.2	0.4	299	28	5.4	3.4	333	30	5.0	3.8	328
2.1 ,, .	25	5.2	2.2	054	19	4.6	1.2	087	18	5.5	1.8	019	26	5.5	0.6	318	28	5.9	4.4	343	29	5.3	3.8	328
3.0 ,, .	19	5.2	1.7	039	17	5.3	1.2	100	15	4.8	0.4	151	21	6.0	0.9	347	25	5.6	3.9	357	27	6.0	4.3	326
3.6 ,, .	11	4.9	2.3	089	8	6.7	1.3	119	15	4.7	1.1	235	18	5.0	1.5	290	24	5.4	3.2	357	26	6.2	4.8	318
4.5 ,, .	9	5.9	3.9	085	3	5·0	4.3	119	12	3.5	1.3	209	14	4.1	1.4	270	24	5.9	2.2	268	25	7.7	5.9	296
5.4 ,, .	7	7.2	6.1	083					12	3.2	1.8	202	13	3.5	2.2	263	21	7.1	4.5	252	22	8.4	6.0	288
6.0 ,, .	4	8.1	7·5	075					11	3.8	2.1	222	12	5.0	2.9	267	21	6.4	4.8	248	22	7.6	5.5	280
7.2 ,, .	1	7·2	7·2	080					8	6.2	4.8	249	9	7.1	5.6	270	19	7.2	5.6	248	15	6.8	4.9	272
9.0 ,, .									5	8.1	3.5	235	7	8.0	5.6	273	18	8.5	6.6	248	11	8.7	6.9	253

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Station	GWALIOR				IMPHAL												JABALPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.3	0.9	224	30	0.5	0.4	200	30	1.4	0.8	233	30	0.7	0.3	254	30	1.0	0.7	253	30	2.0	0.7	316
0.15 a.g.	30	4.8	1.9	219	23	1.5	0.3	117	29	2.5	1.3	232	25	1.7	0.1	272	30	4.4	1.9	269	29	4.6	1.9	334
0.3 a.m.s.l.	30	4.3	2.0	218																				
0.6 ,,	30	4.7	1.6	277													30	5.1	2.1	282	29	4.8	2.1	338
0.9 ,,	30	4.5	2.5	302	23	1.4	0.4	154	29	2.4	1.2	240	24	1.8	0.1	271	28	6.3	3.1	335	29	5.3	3.0	338
1.5 ,,	30	5.3	3.8	320	23	2.9	0.2	110	29	3.7	1.4	204	25	2.8	0.7	217	27	5.8	3.4	348	29	6.0	4.1	344
2.1 ,,	29	5.3	3.7	332	15	5.0	2.0	200	24	5.3	2.0	197	17	4.4	1.7	167	25	6.4	3.5	004	26	6.2	4.3	352
3.0 ,,	25	5.4	3.0	349	10	5.3	3.2	144	18	5.0	2.2	158	10	5.1	4.2	129	21	5.0	2.5	026	21	5.6	4.3	015
3.6 ,,	15	5.3	2.8	317	8	4.9	3.4	136	13	6.2	3.4	153	7	5.7	5.6	134	17	5.5	3.8	042	20	4.7	3.1	028
4.5 ,,	2	4.1	4.1	241	5	2.6	2.1	096	7	2.3	1.2	170	5	3.3	2.7	131	15	4.4	2.7	065	17	4.4	1.8	049
5.4 ,,					3	4.5	2.1	206	5	3.0	1.1	185	3	3.4	3.2	159	14	4.2	2.3	093	13	3.9	0.5	349
6.0 ,,					2	1.3	0.9	172	4	3.4	0.6	116	3	3.2	2.7	156	12	4.5	2.0	104	11	4.1	0.1	347
7.2 ,,					2	1.3	0.5	315	3	4.3	4.3	227					7	3.9	3.1	093	10	3.6	0.8	260
9.0 ,,					2	5.4	5.3	279	2	8.2	8.2	283					4	2.7	1.1	109	5	3.0	1.3	257

Station	JABALPUR				JAGDALPUR												JAIPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0.9	0.1	207	30	0.4	0.1	206	30	1.0	0.1	058	30	0.5	0.2	208	30	1.2	0.7	325	30	2.3	0.6	307
0.15 a.g.	30	4.7	0.8	022	29	3.2	0.8	262	28	4.6	0.5	339	25	3.4	1.5	131	29	5.3	3.0	276	29	4.5	1.9	295
0.3 a.m.s.l.																								
0.6 ,,	30	5.0	1.2	012	29	2.1	0.5	242	28	3.1	0.2	307	25	2.3	1.3	230	29	6.3	4.2	271	29	4.5	1.2	304
0.9 ,,	30	5.6	2.2	010	27	4.3	1.3	303	28	5.3	1.1	351	25	4.1	1.4	252	29	7.6	5.1	281	29	4.7	2.6	309
1.5 ,,	30	5.3	2.8	355	24	5.5	1.5	325	25	5.3	2.1	021	22	4.3	0.7	351	29	5.4	2.7	305	29	5.1	3.5	317
2.1 ,,	30	5.3	2.7	002	23	5.8	1.4	337	19	5.5	1.4	022	19	4.9	0.8	337	27	5.8	3.4	350	27	5.7	4.6	331
3.0 ,,	26	4.4	2.4	017	15	5.1	1.3	034	14	5.9	2.5	071	18	4.5	0.5	250	23	6.9	5.7	005	26	6.1	4.8	341
3.6 ,,	17	4.7	2.4	044	9	5.9	2.1	081	12	5.2	2.2	087	12	4.4	2.2	237	21	7.2	5.1	016	24	6.6	4.7	337
4.5 ,,	4	4.8	0.3	325	7	4.4	3.3	081	9	6.3	3.1	116	3	2.9	2.8	084	8	6.6	6.8	022	22	7.9	5.4	311
5.4 ,,					4	7.9	7.5	081	7	6.0	2.4	119	2	6.2	5.8	060	1	7.2	7.2	335	18	9.2	6.7	288
6.0 ,,					4	7.9	7.9	087	7	7.1	2.4	108	1	6.7	6.7	020					15	9.6	6.7	299
7.2 ,,					4	9.5	9.3	093	4	7.4	4.7	049									5	7.9	5.9	305
9.0 ,,					2	10.6	10.6	091	2	7.2	7.1	081									3	9.1	6.9	277

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Station	JAIPUR				JAMSHEDPUR								JHARSUGUDA											
Time in I.S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1.4	0.1	082	30	1.1	0.3	052	30	1.9	1.0	088	30	1.4	0.4	125	30	2.1	0.6	191	30	1.5	0.6	146
0.15 a.g. .	30	5.9	1.6	220	28	2.9	0.9	239	24	3.8	1.6	104	27	3.7	0.5	239	29	4.7	1.8	192	28	4.2	1.9	178
0.3 a.m.s.l. .					28	2.9	1.2	235	24	3.8	1.5	113	27	3·1	0.3	196	29	4·2	1·4	196	28	3·5	1·5	169
0.6 „ .	30	6.6	1.5	222	28	4.6	2.2	238	24	4.3	1.6	121	27	4.2	1.3	279	29	4.2	0.7	220	28	4·4	1·5	187
0.9 „ .	30	5.9	1.4	257	27	4.6	2.0	270	24	4.7	1.2	130	26	5.1	1.4	296	29	4.3	3.2	319	26	4.5	1.1	198
1.5 „ .	30	4.7	2.2	325	20	4.8	1.4	341	23	4.9	0.5	286	24	5.3	1.2	339	27	5.8	1.0	008	25	4.8	0.2	073
2.1 „ .	28	5.1	3.1	339	20	4.8	1.2	359	13	5.3	1.7	056	19	5.4	1.5	054	24	6.3	1.6	014	23	5.3	1.2	072
3.0 „ .	23	6.7	5.7	345	19	4.1	0.3	043	8	4.0	2.2	046	12	4.3	1.2	065	16	6.1	1.7	011	17	6.0	1.2	056
3.6 „	21	6.8	5.5	359	15	4.6	0.7	155	8	5.4	2.9	044	8	4.1	2.1	072	11	6.1	0.4	108	9	4.7	0.6	016
4.5 „ .	7	6.4	3.4	001	11	4.8	1.7	107	7	6.6	3.1	050	1	6·7	6.7	085	4	5.5	3.2	103				
5.4 „ .	4	8.9	1.8	221	6	5.7	5.1	082	2	7·7	7·7	086												
6.0 „ .	3	10.3	7.2	269	4	6.0	5.8	062	1	3.1	3.1	040												
7.2 „ .	1	12·9	12.9	230	3	5.8	5.7	062																
9.0 „ .					1	2·1	2·1	100																

Station	JODHPUR																MADRAS							
Time in I.S.T.	0530*				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	2.0	1.8	238	30	3.0	2.2	245	30	3.1	1.5	256	30	3.0	2.2	226	29	2.6	2.2	257	30	4.2	3.7	285
0.15 a.g. .	29	6.3	4.7	265	30	4.7	3.4	245	30	5.3	2.2	312	30	8.2	5.8	221	29	6.4	5.6	272	28	5.1	4.7	282
0.3 a.m.s.l. .	29	3.9	2.9	248	30	4·4	3·2	248	30	4·5	2·1	295	30	6·6	4·6	224	29	6.7	5.9	273	28	5.8	5.2	284
0.6 „ .	29	7.0	5.4	255	30	5.0	3.5	242	30	4.8	2.0	252	30	8.5	6.0	228	29	7.2	6.4	277	28	6.7	6.2	287
0.9 „ .	29	6.8	4.8	245	30	5.3	2.4	218	29	4.3	1.9	251	30	7.6	4.8	239	29	7.6	6.7	283	27	7.1	6.4	296
1.5 „ .	29	4.6	2.0	230	26	5.0	1.7	240	30	3.9	2.1	260	30	6.2	2.1	276	29	6.7	6.1	297	25	6.5	5.8	293
2.1 „ .	27	4.3	0.7	082	23	5.3	1.1	071	30	3.5	1.4	313	27	5.5	2.6	024	29	5.8	4.8	293	25	6.8	5.9	282
3·0 „ .	27	5.0	2.0	025	20	5.4	2.5	051	30	3.5	3.0	002	22	5.3	2.9	037	29	5.8	4.0	293	22	5.4	4.3	279
3.6 „	27	5.7	3.1	020	19	5·7	1·3	025	30	4.6	3·5	005	12	4.7	3·5	028	29	5.0	2.8	296	18	6·4	3·8	282
4.5 „ .	26	6.0	3·7	015	17	5.5	1.1	056	30	4.8	3.7	340	6	7.1	6·1	013	29	6.5	0.9	293	11	4·7	2·9	264
5.4 „ .	24	5.3	2.6	350	14	6.3	3.3	279	29	5.5	3.4	330	2	8.0	3.2	006	29	5.9	0.9	110	7	4.6	2.7	201
6.0 „ .	24	6.4	2.1	326	14	7.1	4.1	292	26	6.3	2.9	309	2	10·6	5·4	009	29	6.0	2.1	102	6	5.3	3.7	179
7.2 „ .	22	6.1	3.4	286	6	6.5	2.9	308	25	6.0	3.4	290					29	6.6	3.5	093	3	7.9	6.7	125
9.0 „ .	17	6.3	4.1	274	2	8.0	4.7	286	19	5·5	3.2	239					29	9·2	8.0	106	3	6.7	6.5	107

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Station	MADRAS								MINICOY												MOHANBARI			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	5.0	0.5	279	30	2.8	1.9	192	30	5.4	5.0	294	30	6.3	6.0	290	30	6.4	6.0	287	30	0.5	0.5	041
0.15 a.g. . .	29	5.6	1.2	302	29	6.3	4.0	204	29	8.2	7.9	293	27	9.6	9.4	291	29	8.1	7.9	285	20	2.7	2.1	053
0.3 a.m.s.l. .	29	4.9	0.8	265	29	6.5	3.9	213	29	8.9	8.5	293	27	10.0	9.9	291	29	8.4	8.2	287	20	2.7	2.1	052
0.6 ,, .	29	4.0	2.0	278	29	6.2	3.9	241	29	10.5	10.1	293	27	11.7	11.5	292	29	10.4	10.1	289	20	2.6	2.1	040
0.9 ,, .	29	4.8	3.4	292	29	5.8	4.4	258	29	11.4	11.3	294	27	13.1	12.9	294	29	11.1	10.9	292	20	2.7	1.7	039
1.5 ,, .	29	6.0	5.0	295	28	6.2	5.5	282	26	11.2	11.0	293	25	12.2	12.0	292	24	10.5	10.2	291	20	2.6	1.1	050
2.1 ,, .	29	6.3	5.6	292	23	7.6	6.9	291	23	10.8	10.5	289	24	12.3	12.0	291	23	10.6	10.5	288	19	2.4	1.1	127
3.0 ,, .	29	6.0	4.8	293	15	5.8	5.2	301	21	9.5	9.3	286	18	12.1	11.8	285	17	8.6	5.6	292	15	2.7	2.1	179
3.6 ,, .	29	5.5	3.6	293	4	2.4	2.2	011	19	8.7	8.0	286	11	10.0	9.8	290	11	7.7	6.8	282	10	2.5	2.2	196
4.5 ,, .	29	4.9	2.0	289	1	5.1	5.1	090	11	8.7	7.9	279	7	6.2	5.5	288	4	5.1	5.1	290	8	2.5	2.1	222
5.4 ,, .	28	5.2	1.0	291					3	3.6	2.3	285	5	4.3	3.2	284					6	3.4	2.8	240
6.0 ,, .	26	5.4	0.3	250					3	3.2	2.4	279	4	4.6	3.4	312					4	3.3	2.3	242
7.2 ,, .	27	6.8	0.5	183									4	2.9	2.6	011					4	3.1	1.0	200
9.0 ,, .	19	8.6	5.9	116									4	6.9	6.2	062					2	5.9	3.1	309

Station	MOHANBARI								NAGPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0.9	0.4	049	30	0.8	0.6	058	30	1.3	1.1	324	30	1.9	0.8	329	30	2.6	0.9	309	30	1.1	0.4	287
0.15 a.g. . .	27	2.7	0.8	058	24	3.1	1.5	056	30	5.0	3.4	338	30	3.5	1.7	345	30	4.7	1.9	340	30	4.8	1.4	336
0.3 a.m.s.l. .	27	2.8	0.7	080	24	3.0	1.2	062																
0.6 ,, .	27	2.9	0.7	105	24	3.1	1.4	082	30	5.1	3.3	340	29	3.5	2.1	360	30	4.7	2.3	352	30	5.0	1.9	356
0.9 ,, .	26	3.3	0.8	115	24	2.7	0.9	104	30	5.4	3.1	010	29	4.2	2.6	016	30	4.7	2.8	356	30	5.0	2.3	011
1.5 ,, .	26	3.3	1.5	184	24	2.9	1.6	206	30	5.4	2.7	015	22	5.0	3.9	030	30	5.8	3.7	360	29	5.0	3.1	024
2.1 ,, .	25	3.4	2.1	194	21	3.0	2.2	214	30	6.0	2.6	004	20	5.7	4.2	029	30	6.6	4.7	005	24	4.9	3.0	028
3.0 ,, .	22	2.7	2.0	206	21	4.0	2.8	194	30	5.3	2.8	025	14	5.6	3.4	049	30	5.8	3.4	011	16	4.5	2.9	043
3.6 ,, .	20	3.4	2.8	210	12	3.4	2.2	198	30	4.8	2.0	045	11	4.8	3.2	070	30	4.8	1.5	022	8	3.6	1.5	058
4.5 ,, .	14	3.3	3.1	231	5	6.7	1.8	248	30	4.4	2.3	071	8	5.2	3.8	107	30	5.3	1.3	038	3	2.9	0.8	032
5.4 ,, .	13	4.5	4.0	235	3	5.0	2.7	223	30	4.3	2.1	101	7	4.1	2.4	118	30	4.4	1.1	071	1	2.6	2.6	280
6.0 ,, .	10	5.4	4.0	235	2	4.4	2.7	240	30	4.4	2.2	096	6	4.0	1.9	128	30	4.7	1.9	106				
7.2 ,, .	6	5.9	5.5	218	1	7.2	7.2	275	29	5.1	3.6	092	3	5.7	4.3	053	30	4.9	2.7	094				
9.0 ,, .	1	15.4	15.4	225					28	6.2	4.8	099	2	7.5	7.5	107	27	6.2	4.7	097				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Station	NANPARA								NEW DELHI															
Time in I.S.T.	0530				1730				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0.8	0.5	106	30	1.2	0.1	303	30	2.2	1.7	270	30	3.4	2.3	294	30	2.4	0.8	315	30	1.5	0.5	196
0.15 a.g. . .	26	4.4	1.9	111	28	4.1	1.4	286	30	6.0	3.5	252	29	4.0	1.9	286	30	4.7	2.0	330	30	4.6	0.3	210
0.3 a.m.s.l. .	25	4.5	1·6	117	28	4·2	1·2	281	30	4.5	2.6	257	29	4.2	1.9	299	30	3.9	1.5	323	30	4.2	1.4	191
0.6 ,, .	25	5.6	1.1	131	28	4.2	1.1	290	30	5.9	3.4	264	29	4.2	2.4	282	30	4.2	1.9	324	30	4.6	0.9	257
0.9 ,, .	23	4.7	1.3	290	27	4.3	1.3	293	30	6.0	3.4	290	29	4 6	2.8	299	30	4.3	2.4	320	30	4.8	2.1	304
1.5 ,, .	23	5.0	1.9	304	26	5.5	1.7	288	30	5.8	3.5	331	28	4 9	3.0	319	30	4.8	3.4	307	29	6.0	4.6	318
2.1 ,, .	20	5.5	1.1	340	23	5.7	1.6	292	30	6.3	4.1	333	27	5.5	4.0	332	30	5.5	3.8	314	26	6.8	5.6	328
3.0 ,, .	19	4.8	1.7	106	19	6.2	1.1	017	29	6.0	4.8	342	26	5.9	4.0	338	30	6.6	5.4	326	23	6.2	4.7	339
3.6 ,, .	15	4.5	3.3	108	18	4.7	1.4	001	29	5.7	4.3	343	25	6.0	4.3	334	29	7.2	5.6	331	2	4.4	2.4	337
4.5 ,, .	14	4.6	1.1	186	16	4.2	1.8	291	29	5.5	2.7	322	22	6.7	3.5	354	29	7.1	4.5	320				
5.4 ,, .	11	3.9	2.7	253	16	5.7	3.9	259	27	6.7	2.9	289	20	7·7	2.5	303	29	6.9	3.8	306				
6.0 ,, .	10	5.0	4.3	238	16	6·4	5.3	252	27	6.4	3.4	266	18	8.4	3.2	287	29	6.6	4.1	293				
7.2 ,, .	9	8.2	7·4	237	11	6.7	5.6	265	27	7.9	5.3	262	12	8.1	5.3	249	29	8.8	6.4	272				
9.0 ,, .	6	11.2	8.2	252	8	8.0	4.7	278	25	10.4	8.7	254	8	9.6	9.5	245	27	10.5	8·4	258				

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0.9	0.8	248	30	2.9	1.9	280	30	1.2	1.0	259	30	2.7	2.5	241	30	4.9	4.4	230	30	3.8	3.6	244
0.15 a.g. . .	30	4.8	4.0	271	30	6.9	5.1	287	27	5.0	4.5	274	29	7.1	6.1	238	29	6.9	6.1	232	30	7.5	6.9	237
0.3 a.m.s.l. .													29	7.4	6.2	237	29	7.8	6.9	235	30	7.8	7.4	238
0.6 ,, .	30	2.3	1.8	250	30	4.1	2.8	287	27	2.8	2.6	255	28	8.2	7.3	240	29	8.7	8.0	242	30	9.2	8.7	243
0.9 ,, .	30	5.8	4.2	285	30	7.6	5.5	294	27	6.0	5.0	289	28	8.3	7.4	244	28	8.4	7.6	243	30	9.6	8.9	245
1.5 ,, .	25	7.9	3.0	329	24	6.3	4.2	290	20	8.3	4.0	321	28	8.0	6.7	244	20	8.6	7.5	246	30	9.2	8.0	247
2.1 ,, .	21	5.6	2.2	052	18	6.2	1.9	340	17	6.4	2.2	053	28	7.7	5.8	242	11	7.7	6.1	243	30	7·9	6.9	245
3.0 ,, .	16	4.5	2.3	070	12	4.5	3.3	057	11	4.3	1.9	059	28	6.8	4.9	255	7	8.0	5.1	230	26	6.5	5.0	246
3.6 ,, .	10	3.9	0.9	025	8	4.9	2.8	045	6	3.2	0.3	306	25	6.3	3.3	243	4	9.5	6.8	247	23	7.4	4.7	240
4.5 ,, .	3	5.0	4.8	057	4	5.4	2.6	024	3	2.4	1.3	095	24	5.1	1.5	210					22	5.7	2.7	218
5.4 ,, .					1	3.6	3.6	045	3	5.1	4.1	104	21	5.3	2.4	188					18	5.3	2.1	173
6.0 ,, .					1	3.6	3.6	070	1	2.6	2.6	065	21	5.3	2.2	147					17	5.5	1.7	111
7.2 ,, .					1	8.2	8.2	100					19	5.4	2.7	108					17	6.1	2.6	088
9·0 ,, .					1	11.3	11.3	095					15	9.2	7.0	084					13	7.9	6.5	068

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·0	2·8	233	30	2·2	0·9	250	30	2·2	0·4	310	30	2·6	0·4	205	30	0·6	0·5	072	30	0·6	0·6	087
0·15 a. g.	30	6·2	5·6	233	30	4·5	1·6	290	28	4·5	1·4	037	29	4·9	0·5	307	25	3·9	3·4	092	29	3·2	1·1	096
0·3 m.a.s.l.	30	7·0	6·3	232													25	3·7	3·2	105	29	3·3	1·4	101
0·6 ,,	30	8·1	7·4	240	30	5·1	2·1	331	28	4·9	1·3	342	29	5·3	1·1	002	24	4·6	3·3	116	29	4·3	1·5	116
0·9 ,,	30	8·1	7·3	245	30	5·0	2·1	352	28	4·7	1·4	354	29	5·2	1·4	016	22	4·3	2·6	115	29	4·9	2·3	115
1·5 ,,	24	8·2	6·9	240	29	5·3	1·7	350	27	5·9	2·1	006	29	5·2	2·4	028	19	4·3	2·3	090	29	6·0	2·9	115
2·1 ,,	17	6·3	4·6	236	27	5·3	1·6	028	25	6·4	3·1	018	28	5·1	2·0	040	16	5·0	2·5	104	27	5·1	1·4	129
3·0 ,,	11	5·3	3·7	237	19	4·3	1·3	018	17	5·8	2·1	021	24	4·1	1·5	079	13	3·4	2·0	111	21	4·4	0·6	063
3·6 ,,	4	5·9	4·3	185	10	4·5	1·5	062	9	6·6	1·2	059	14	5·2	1·7	150	11	3·4	1·5	150	18	3·0	0·3	231
4·5 ,,	1	2·6	2·6	165	6	6·0	2·4	131	3	6·3	2·3	199	1	1·0	1·0	220	10	3·1	1·4	176	15	3·5	2·1	256
5·4 ,,					2	9·0	9·0	085									6	2·9	2·5	287	14	3·8	2·6	275
6·0 ,,					1	8·2	8·2	095									2	4·9	4·9	265	10	3·5	2·6	277
7·2 ,,					1	5·7	5·7	095									1	5·7	5·7	235	5	5·1	3·5	265
9·0 ,,																					1	6·2	6·2	285

Station	SANTA CRUZ																TIRUCHIRAPALLI							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·1	0·8	268	30	2·9	2·1	284	30	4·4	4·0	296	30	2·1	0·9	287	30	6·2	6·2	272	30	6·2	5·5	272
0·15 a. g.	30	5·1	2·0	294	29	4·3	2·9	278	30	7·1	6·2	295	28	4·4	2·5	295	30	10·1	10·1	274	30	7·3	6·4	272
0·3 m.a.s.l.	30	4·8	2·5	294	29	4·3	2·9	282	30	6·5	5·7	306	28	4·7	2·9	294	30	11·6	11·5	275	30	7·6	6·6	272
0·6 ,,	30	4·8	2·5	294	26	5·0	3·0	293	30	5·6	4·4	306	28	5·1	3·0	305	30	14·4	14·2	277	30	8·3	7·9	274
0·9 ,,	30	5·1	2·4	296	19	4·9	2·1	314	30	5·6	4·0	310	24	5·5	3·0	324	30	13·7	13·3	280	30	8·4	8·2	272
1·5 ,,	30	5·7	1·0	356	8	5·7	1·4	353	30	5·1	1·7	337	17	5·3	2·5	003	30	10·7	10·4	279	30	8·7	8·4	270
2·1 ,,	30	6·6	1·5	065	3	7·4	4·9	095	30	5·8	1·4	021	13	6·4	3·0	040	30	8·3	7·9	279	26	8·6	7·6	275
3·0 ,,	30	7·2	2·0	087	3	6·0	5·2	098	30	5·8	2·3	025	7	6·5	3·9	053	27	6·7	6·0	277	22	7·5	6·9	285
3·6 ,,	30	7·2	2·8	047	2	5·1	4·7	101	30	5·9	3·2	039	4	5·4	3·3	019	19	6·0	4·8	277	18	6·8	6·3	291
4·5 ,,	30	6·5	4·4	047	1	3·6	3·6	060	30	5·2	2·9	035	1	1·5	1·5	335	16	5·3	3·7	274	14	5·9	4·1	284
5·4 ,,	30	6·0	4·2	056					30	5·6	3·2	078					8	3·1	1·7	267	13	5·8	1·3	291
6·0 ,,	30	6·1	4·1	056					30	5·4	3·3	094					6	4·5	2·8	154	8	5·9	1.5	276
7·2 ,,	30	5·7	4·4	071					29	6·1	4·6	085					3	8·1	7·6	095	3	5·7	5.1	091
9·0 ,,	26	7·5	6·7	086					23	7·1	5·9	087					2	12·1	11·8	091				

Table IV.—Monthly Mean Directions and Velocities of Upper Winds

inds upto 9 km. above mean sea level

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Station	TIRUCHIRAPALLI				TRIVANDRUM																UDAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	6.1	5.8	264	30	2.9	2.7	320	30	4.1	3.8	314	30	5.6	5.3	307	30	2.5	2.3	319	30	0.7	0.4	233
0.15 a.g.	28	8.9	8.5	268	30	7.8	7.5	317	27	6.8	6.5	307	30	8.9	8.7	308	24	6.7	6.2	312	30	3.2	1.3	273
0.3 m.a.s.l.	28	10.0	9.5	270	30	8.0	7.7	317	27	7.8	7.4	305	30	9.1	9.1	307	24	8.1	7.7	310				
0.6 ,,	28	12.9	12.5	268	30	11.0	10.6	304	23	9.6	9.3	305	30	10.7	10.7	306	23	10.7	10.4	303				
0.9 ,,	28	12.7	12.3	269	30	12.2	11.7	303	17	11.1	10.7	303	30	12.0	11.8	305	21	11.5	11.1	300	30	4.4	1.4	290
1.5 ,,	28	9.5	9.1	276	30	13.0	13.0	293	11	11.7	11.3	296	30	13.1	12.9	300	17	11.4	11.2	296	22	5.3	0.4	230
2.1 ,,	28	7.9	6.7	285	30	12.7	12.3	289	6	10.8	9.9	292	30	13.6	13.2	293	13	11.2	10.9	291	14	4.7	2.3	084
3.0 ,,	25	7.4	6.5	285	30	11.2	10.5	289	2	7.5	4.5	286	30	12.5	11.7	292	10	8.7	8.4	280	10	3.5	1.6	076
3.6 ,,	12	5.6	4.8	288	30	9.1	8.3	287	2	6.7	4.6	275	30	10.4	9.8	289	7	8.2	8.1	273	8	3.3	1.4	085
4.5 ,,	4	5.3	4.7	290	30	7.1	5.2	292	1	2.6	2.6	075	30	7.7	6.3	295	3	5.3	4.3	265	4	5.1	5.0	061
5.4 ,,					30	5.8	2.8	316	1	5.1	5.1	095	30	5.3	3.5	300					1	2.1	2.1	080
6.0 ,,					30	5.2	1.9	337	1	2.6	2.6	075	30	4.6	2.1	322								
7.2 ,,					30	6.3	3.1	080	1	2.6	2.6	080	30	6.1	1.7	072								
9.0 ,,					27	9.5	8.1	096	1	9.3	9.3	105	26	8.5	7.2	110								

Station	UDAIPUR								VENGULA												VERAVAL			
Time in I.S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.4	0.8	254	30	0.8	0.5	244	30	0.6	0.2	303	30	2.5	1.9	265	30	0.6	0.1	360	30	4.3	3.0	272
0.15 a.g.	29	4.0	2.3	248	29	3.4	1.7	246	28	4.0	2.0	330	29	5.7	4.2	280	29	3.9	2.0	313	30	6.5	4.8	279
0.3 a.m.s.l.									27	5.3	3.2	315	29	6.2	5.0	287	29	4.7	3.2	307	30	6.1	4.4	293
0.6 ,,									26	6.6	5.2	310	29	7.2	6.2	290	29	6.2	4.5	305	30	5.3	3.6	289
0.9 ,,	29	4.7	2.2	253	29	4.5	2.1	261	22	7.0	5.3	310	19	6.5	5.4	282	20	5.9	4.2	307	30	4.9	2.7	261
1.5 ,,	26	6.0	2.2	261	26	6.6	1.0	275	16	6.2	3.4	320	11	5.3	3.3	286	14	5.5	3.8	325	27	4.4	0.7	237
2.1 ,,	21	5.8	1.3	294	22	5.7	1.5	049	10	7.4	2.8	356	9	5.3	2.3	298	9	5.2	2.9	308	25	5.5	1.5	089
3.0 ,,	13	6.0	2.3	016	17	5.3	2.1	063	6	5.3	4.2	050	5	5.3	1.3	327	7	5.7	2.9	359	25	5.8	3.3	065
3.6 ,,	10	5.5	2.2	033	14	4.4	3.1	055	5	5.3	4.4	046	2	5.4	4.7	263	2	3.9	3.8	250	24	6.2	3.7	056
4.5 ,,	7	6.4	2.2	327	9	6.7	5.4	070	1	4.1	4.1	155	1	4.6	4.6	285	1	5.7	5.7	175	23	6.9	4.4	042
5.4 ,,	6	6.9	6.8	330	4	6.2	5.4	048													23	7.1	4.4	050
6.0 ,,	2	6.9	6.9	331	4	5.1	4.1	045													22	7.2	5.6	059
7.2 ,,	1	7.7	7.7	335	1	2.1	2.1	075													21	6.8	4.5	063
9.0 ,,																					4	6.4	5.7	053

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

September 1960 (Bhadra 10 — Asvina 8, 1882 Saka)

Station	VERAVAL												VISAKHAPATNAM											
Time in I. S. T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	5·5	4·1	288	30	5·8	5·3	279	30	4·4	3.4	272	30	1·4	0·8	317	30	3·3	0·8	233	30	1·7	0·8	345
0·15 a. g. .	30	6·1	4·7	277	30	6·8	5·9	281	30	7·3	5·7	281	30	6·8	5·1	347	30	3·8	0·6	203	30	5·9	3·5	010
0·3 a.m.s.l. .	30	6·7	4·8	281	30	6·1	4·9	280	30	8·1	6·1	287	30	6·3	3·5	342	30	3·8	1·0	202	30	5·7	2·0	350
0·6 ,, .	30	6·4	4·0	287	30	5·3	3·8	284	30	7·2	5·6	288	30	4·8	0·3	224	30	3·8	1·1	241	30	5·2	1·3	148
0·9 ,, .	26	4·9	2·8	293	30	5·0	2·6	287	30	5·9	3·8	289	30	4·7	0·5	232	28	4·4	1·6	288	30	5·2	0·8	058
1·5 ,, .	23	4·6	0·8	149	28	4·1	1·7	343	29	4·8	1·6	022	30	4·5	0·3	009	25	5·1	2·1	315	30	4·7	1·5	062
2·1 ,, .	22	5·2	2·9	103	27	5·1	1·5	325	25	5·2	3·5	068	30	4·6	1·0	037	20	5·3	2·3	326	30	5·1	1·0	042
3·0 ,, .	17	5·6	3·5	076	27	5·1	2·6	050	22	5·9	4·9	073	29	4·8	2·1	078	18	5·7	1·0	338	30	5·4	1·0	286
3.6 ,, .	14	5·6	3·5	072	27	4·4	2·0	054	13	6·1	4·2	070	28	5·1	1·9	088	13	6·3	1·6	249	29	5·5	1·2	113
4.5 ,, .	13	5·6	3·1	083	24	4·8	2·1	032	9	4·7	3·2	081	29	5·1	2·7	087	9	5·0	1·2	220	29	6·1	1·9	122
5·4 ,, .	13	6·4	3·5	083	22	6·0	3·4	053	3	2·9	1·6	089	29	5·8	3·3	096	3	3·2	1·1	094	27	6·2	3·4	096
6·0 ,, .	13	6·3	4·1	076	22	6·1	4·0	063	3	4·5	2·9	069	29	6·6	4·6	098	2	2.6	2.3	045	27	6·5	4 3	091
7·2 ,, .	12	5·8	3·4	063	21	6·2	4·7	066					28	7·9	6·3	101					27	7·0	4·4	091
9·0 ,, .	10	5·6	2·6	086	8	7·0	4·6	093					21	9·6	8·5	100					26	9·7	8·3	089

Station	VISAKHAPATNAM			
Time in I. S. T.	2330			
Ht. in Km.	n	V	v	D
Surface . .	30	1·4	0·1	213
0·15 a. g. .	29	2·9	0·7	222
0·3 a.m.s.l. .	29	3·4	1·1	233
0·6 ,, .	29	4·1	0·7	233
0·9 ,, .	29	4.4	0·3	276
1·5 ,, .	29	4·7	1·1	032
2·1 ,, .	25	4·4	1·8	121
3·0 ,, .	23	4·6	1·3	072
3·6 ,, .	17	4·5	1·8	079
4·5 ,, .	12	6·1	3·4	100
5·4 ,, .	9	6·7	4·6	115
6·0 ,, .	4	7·3	5·6	107
6·2 ,, .				
9·0 ,,				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 km. above mean sea level

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

AGARTALA

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	1	3·6	3·6	240

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	2	8·5	8·4	300
12·0	2	4·9	4·2	221

AMAUSI

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	3	10·0	9·8	233

AMBALA

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	2	22·1	21·6	256
12·0	1	21.1	21·1	245

ANANTAPUR

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	2	15·2	14·9	102
12·0	1	17.0	17·0	100

1730 hrs.

Ht. in Km.	n	V	v	D
0·5	3	10·1	7·3	081

ASANSOL

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	1	4·1	4·1	275
12·0	1	5·7	5·7	265
14·1	1	1·0	1·0	190

BAGHDOGRA

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	4	9·1	5·1	243
12·0	4	7·5	3·4	240
14·1	2	7·2	6·1	105

BAIRAGARH

053 hrs.

Ht. in Km.	n	V	v	D
10·5	7	6·2	5·7	240
12·0	2	4·4	2·8	169

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	4	6·9	2·7	230
12·0	3	7·2	4·1	259
14·1	2	7·7	4·7	196
16·2	1	11·8	11·8	085
18·0	1	14.9	14·9	075

BAMRAULI

0530 hrs.*

Ht. in Km.	n	V	v	D
10·5	20	6·4	2·5	210
12·0	12	7·1	3·2	212
14·1	5	6·9	2·1	138
16·2	4	6·3	4·5	084
18·0	1	10·3	10·3	105

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	18	5·8	2·5	221
12·0	8	8·5	4·3	199
14·1	1	8·7	8·7	120

BAREILLY

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	3	6·3	4·1	072
12·0	2	8·2	4·2	071
14·1	1	7·2	7·2	035

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	11	10·6	8·5	262
12·0	9	12·4	9·0	261
14·1	8	13·4	6·0	227
16·2	4	5·7	3·2	235
18·0	3	3·7	3·0	115
21·0	1	21·1	21·1	250

BHUBANESHWAR

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	1	7·2	7·2	130
12·0	1	8·7	8·7	090

DARJEELING

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	1	11·8	11·8	280

DUM DUM

0530 hrs.*

Ht. in Km.	n	V	v	D
10·5	13	5·3	2·8	137
12·0	9	7·8	6·5	108
14·1	3	12·4	9·3	069
16·2	1	17·0	17·0	140

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	13	4·8	2·2	160
12·0	11	4·5	1·5	075
14·1	7	5·5	4·1	095
16·2	2	11·8	11·7	105
18·0	2	17·5	17·2	099

GANNAVARAM

1730 hrs.

Ht. in Km.	n	V	v	D
10.5	3	13.9	13.9	093
12·0	2	24.5	24.4	095

GAUHATI

0530 hrs.*

Ht. in Km.	n	V	v	D
10·5	19	6·5	3·9	243
12·0	13	7·5	4·7	245
14·1	8	10·8	6.3	289
16·2	4	10·8	7·9	105
18·0	2	6·7	6·6	113

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	17	8·0	5·7	247
12·0	14	6·8	4·1	283
14·1	10	8·8	3·6	267
16·2	6	8·0	1·1	082
18·0	1	9·8	9·8	150

2330 hrs.

Ht. in Km.	n	V	v	D
10·5	1	9·3	9·3	250
12·0	1	7·7	7·7	270

GORAKHPUR

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	4	10·0	2·1	175
12·0	2	9·3	7·6	115

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	7	9 9	4·9	268
12·0	5	9·3	4·8	235
14·1	3	7·9	5·3	206
16·2	2	14·7	14·6	150
18·0	2	15·2	13·8	170
21·0	1	45·8	45·8	230

GWALIOR

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	12	10·1	8·0	231
12·0	6	10·8	6·7	213
14·1	4	8·1	4·3	135
16·2	4	9·9	8·5	169
18·0	3	10·3	10·1	079

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	5	14·6	13·6	239
12·0	2	14·4	11·3	232
14·1	1	12·9	12·9	305

IMPHAL

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	2	9·3	9·1	267
12·0	1	9·3	9·3	265
14·1	1	9·3	9·3	080

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	2	11·6	11·2	259
12·0	1	10·3	10.3	245
14·1	1	6·7	6·7	250
16·2	1	11·3	11·3	065

JABALPUR

0530 hrs.

Ht. in Km.	n	V	v	D
10·5	2	7·2	1·6	074
12·0	1	10·3	10·3	100
14·1	1	17·0	17·0	100

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	3	5·3	4·3	193
12·0	2	5·1	4·9	187
14·1	1	6·7	6·7	170

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

JAMSHEDPUR

0530 hrs.

Ht. in Km	n	V	v	D
10.5	1	1.5	1.5	340

JODHPUR

0530 hrs.*

Ht. in Km	n	V	v	D
10.5	12	6.7	3.2	182
12.0	9	7.8	5.0	234
14.1	2	10.8	1.1	146

1730 hrs.*

Ht. in Km	n	V	v	D
10.5	11	5.5	3.6	210
12.0	8	6.8	3.9	180
14.1	3	10.1	7.4	127

MADRAS

0530 hrs.*

Ht. in Km	n	V	v	D
10.5	19	12.2	11.6	094
12.0	11	20.3	19.2	087
14.1	9	26.8	26.3	096
16.2	3	23.7	23.3	096
18.0	2	9.5	9.4	083
21.0	1	27.2	27.2	090

1130 hrs.

Ht. in Km	n	V	v	D
10.5	3	15.4	15.1	111
12.0	2	25.7	25.6	089

1730 hrs.*

Ht. in Km	n	V	v	D
10.5	12	12.0	10.1	107
12.0	9	14.5	13.1	091
14.1	6	28.8	28.5	100
16.2	3	20.6	20.4	104

MINICOY

1730 hrs.

Ht. in Km	n	V	v	D
10.5	3	15.1	14.7	098
12.0	2	22.1	21.8	097
14.1	1	33.9	33.9	105

MOHANBARI

0530 hrs.

Ht. in Km	n	V	v	D
10.5	1	7.2	7.2	264

1730 h .

Ht. in Km	n	V	v	D
10.5	1	20.1	20.1	245
12.0	1	26.7	26.7	255

NAGPUR

0530 hrs.*

Ht. in Km.	n	V	v	D
10.5	26	7.6	6.4	105
12.0	24	11.4	10.8	101
14.1	20	17.7	16.9	103
16.2	18	19.9	19.0	100
18.0	14	22·0	20.5	088
21.0	7	19.8	19.5	087
24.0	1	21.6	21.6	085

1130 hrs.

Ht. in Km.	n	V	v	D
10.5	2	10.6	10.5	084
12.0	2	12.4	12.1	095
14.1	2	15·2	14.9	085
16.2	1	12.4	12.4	085

1730 hrs.*

Ht. in Km.	n	V	v	D
10.5	26	8.7	8.2	099
12.0	23	13.6	12.8	098
14.1	21	17.1	15.7	095
16.2	18	19.5	19.3	097
18.0	13	20.5	20.2	099
21.0	5	25.9	25.7	095
24.0	2	26.2	26.1	103

NANPARA

0530 hrs.

Ht. in Km.	n	V	v	D
10.5	5	9.6	6.9	252
12.0	4	12.0	6.7	256
14.1	1	5.7	5.7	050

1730 hrs.

Ht. in Km.	n	V	v	D
10.5	6	9.7	4.9	273
12.0	5	8.7	1.5	270
14.1	4	9.2	4.2	094
16.2	3	9.4	5.8	095
18.0	2	12.9	11.3	088

NEW DELHI

0530 hrs.*

Ht. in Km.	n	V	v	D
10.5	24	12.7	10.7	249
12.0	24	14.1	11.2	248
14.1	19	13.1	9.5	236
16.2	14	9.4	6.3	215
18.0	10	8.5	4.4	084
21.0	3	10.7	10·7	095
24.0	1	15.4	15·4	080

1130 hrs.

Ht. in Km.	n	V	v	D
10.5	2	7.5	5.6	240
12.0	2	6.4	6.6	243
14.1	2	7.7	6.9	225
16.2	2	8.0	6.0	280
18.0	1	11.3	11.3	125

1730 hrs.*

Ht. in Km.	n	V	v	D
10.5	23	11.1	9.9	244
12.0	23	11.8	11.1	243
14.1	22	12.4	8.1	208
16.2	16	7·8	3·0	204
18.0	9	7.1	5.8	065
21.0	5	9.5	9.2	117

PORT BLAIR

0530 hrs.*

Ht. in Km.	n	V	v	D
10.5	13	15.2	14.2	075
12.0	10	16.7	16.0	087
14.1	4	18.5	17.3	088
16.2	2	40.9	40.9	082

1730 hrs.*

Ht. in Km.	n	V	v	D
10.5	7	11.2	10.7	073
12.0	5	14.8	14.6	068
14·1	3	24.3	23.1	080

SANTA CRUZ

0530 hrs.*

Ht. in Km.	n	V	v	D
10.5	18	10.5	9·3	090
12.0	12	12.9	10.9	102
14.1	3	20.7	20.3	105
16.2	1	23.7	23.7	090

1730 hrs.*

Ht. in Km.	n	V	v	D
10.5	21	10.1	9·4	091
12.0	19	13.9	13.2	093
14·1	9	17.9	16.7	296
16.2	5	18.5	18.0	102
18·0	2	15.4	15.4	110

TRIVANDRUM

0530 hrs.*

Ht. in Km.	n	V	v	D
10.5	21	14.2	13.5	098
12.0	18	21.8	20.8	086
14.1	12	30.6	30.0	092
16.2	2	28.5	27.2	093

1730 hrs.*

Ht. in Km.	n	V	v	D
10.5	22	15.0	13.4	099
12·0	18	23.3	21.5	092
14·1	9	28.8	28.5	087
16.2	6	14.2	13.7	105
18.0	1	13.9	13.9	070

VERAVAL

1130 hrs.

Ht. in Km.	n	V	v	D
10.5	10	5.9	2.7	126
12.0	6	6.5	4.9	107
14.1	3	15.1	15.1	097
16.2	1	17·5	17.5	100

1730 hrs.*

Ht. in Km.	n	V	v	D
10.5	7	7.7	4.8	097
12.0	3	14.4	13.7	098
14.1	1	19.6	19.6	125

VISAKHAPATNAM

0530 hrs.*

Ht. in Km.	n	V	v	D
10.5	19	11.9	11·4	099
12.0	18	13·5	13.1	092
14.1	11	18·6	18.4	090
16.2	6	25.3	24.6	092
18.0	3	25.6	25.2	088
21.0	1	37.5	37.5	080
24.0	1	59.6	59.6	070

1730 hrs*

Ht. in Km.	n	V	v	D
10.5	22	10.8	9.9	093
12.0	20	15.7	14.3	097
14.1	19	19.0	17.1	085
16.2	12	19.0	16.7	095
18.0	6	16·0	15.7	090

RADIOSONDE DATA

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 11 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type	1st October, 1944	00 and 12	
2	Bombay	Clock type	7th September, 1954	00 and 12	
3	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
4	Gauhati	Clock type	22nd July, 1955	00 and 12	
5	Gwalior	Clock type	28th June, 1960	00 and 12	
6	Jodhpur	Clock type	17th April, 1946	00 and 12	
7	Madras	Fan type	29th June, 1946	00 and 12	
8	Nagpur	Fan type	1st October, 1946	00 and 12	
9	New Delhi	Clock type	3rd December, 1943	00 and 12	
10	Port Blair	Fan type	4th December, 1949	00 and 12	
11	Trivandrum	Fan type	1st July, 1947	00 and 12	
12	Veraval	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 0000 Hours G. M. T.

September 1960 (Bhadra 10— Asvina 8, 1882 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (992 mb.)						BOMBAY (1005 mb.)						CALCUTTA (1003 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	98	299.4	304	296	297·8	30	13	297.9	299	296	296.5	29	06	300·3	303	298	298.9
1000	30	29					30	53	..	..	..	..	29	36	..	..	..	..
900	30	960	296.6	299	293	292.1	30	976	294.1	299	291	291.2	29	961	295.3	298	293	292.9
850	30	1458	293.4	296	291	288.5	30	1470	291.3	296	287	288.3	29	1457	292.4	295	290	289.9
800	30	1981	290.5	293	288	285.0	30	1989	288.7	292	284	285.4	29	1978	289.4	292	286	286.4
700	30	3110	284.2	286	283	276.4	30	3112	283.2	287	278	277.1	29	3105	284.1	287	281	279.9
600	30	4384	278.0	280	274	267.7	30	4381	277.3	281	272	269.9	28	4377	277.3	282	273	272.7
500	30	5854	270.8	274	267	..	30	5844	269.3	274	266	..	28	5840	269.3	274	263	..
400	30	7594	261.4	264	257	..	30	7577	259.6	265	254	..	28	7571	259.4	264	252	..
300	30	9741	247.7	251	241	..	27	9719	246.2	250	240	..	19	9704	245.7	252	240	..
250	29	11037	238.6	243	231	..	23	11006	237.2	245	231	..	19	10994	236.7	242	232	..
200	28	12562	227.6	233	221	..	18	12499	224.8	233	218	..	14	12536	227.7	231	222	..
175	22	13431	220.7	225	216	..	15	13358	217.7	228	210	..	12	13393	220·4	225	214	..
150	19	14412	213.6	220	209	..	12	14334	210.2	222	203	..	12	14383	213.6	219	207	..
125	16	15525	206.0	211	201	..	8	15429	201.5	206	194	..	9	15476	206.7	212	202	..
100	10	16875	201.5	205	191	..	5	16733	200.6	205	196	..	5	16796	197·6	200	195	..
80	..	..	..	..	..	..	..	..	..	..	..	..						

Standard Pressure Surface mbs.	GAUHATI (1000 mb.)						GWALIOR (980 mb.)						JODHPUR (979 mb.)					
Surface	30	49	299.9	303	297	298.7	28	203	299.1	303	295	295.4	30	218	300.1	303	295	292.3
1000	30	49	..	..	..	..	28	24	..	..	..	..	30	32				
900	30	974	295.5	300	293	293.1	28	951	296.8	301	294	290.6	30	965	299.0	305	294	288.5
850	30	1470	292.8	297	289	290.3	28	1450	293.9	298	291	286.0	30	1467	296.2	302	291	284.8
800	30	1990	290.0	293	287	287.4	28	1974	290.3	294	286	282.0	30	1994	293.2	297	289	281.5
700	30	3118	283.7	287	282	281·3	28	3125	283.5	287	277	273.1	30	3131	285.3	290	281	272.7
600	30	4388	277.3	280	275	273.3	27	4373	276.3	281	271	265.2	30	4404	277.0	281	273	263.8
500	30	5851	269.6	273	264	..	27	5838	269.5	273	265	..	29	5867	269.9	274	265	255·0
400	30	7585	259.9	263	255	..	26	7569	260.0	265	255	..	26	7606	260.8	266	258	..
300	23	9722	246.9	253	241	..	25	9710	246.3	252	241	..	21	9762	247.6	253	245	..
250	20	11017	238 0	245	232	..	25	11003	236.9	243	229	..	16	11069	239.1	244	236	..
200	16	12543	227.7	235	224	..	23	12528	225.6	232	217	..	12	12601	227.7	232	224	..
175	13	13437	222.2	230	218	..	21	13379	219.5	226	212	..	12	13477	221.1	228	214	..
150	10	14435	216.0	225	210	..	18	14379	212.2	221	203	..	12	14465	214.1	222	206	..
125	5	15544	208.4	217	199	..	12	15523	206.7	216	197	..	10	15600	206.7	213	199	..
100	5	16902	204.4	213	195	..	8	16847	203.0	219	193	..	8	16952	201.4	206	194	..
80	..	..	..	..	..	..	..	..	..	..	..	..	6	18291	204.5	210	198	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 0000 Hours G. M. T.

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1003 mb.)						NAGPUR (969 mb.)						NEW DELHI (980 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	15	299·1	301	297	296.4	30	311	297.0	299	295	295.5	29	210	298.9	301	296	296.0
1000	30	43	..	..	..	..	30	38	..	..	..	..	29	30	..	..	..	..
900	30	966	294.6	300	290	290.3	30	964	296.0	298	293	290.9	29	960	297.9	302	294	290.3
850	30	1459	291.2	294	288	288.3	30	1461	292.9	297	290	287.9	29	1460	294.9	299	291	287.0
800	30	1977	288.3	291	284	285.6	30	1982	289.6	293	287	284.5	29	1984	291.2	295	89	283.8
700	30	3098	281.9	286	278	278.6	30	3109	283.1	287	279	276.2	29	3114	283.8	288	281	273.0
600	30	4357	274.8	279	269	272.1	30	4379	276.5	281	271	267.6	28	4382	276.0	280	271	261.1
500	30	5804	266.3	270	259	..	30	5836	267.8	272	261	..	27	5838	268.8	275	263	..
400	30	7510	255.0	260	247	..	29	7556	257.3	264	252	..	27	7567	259.4	264	253	..
300	26	9604	240.4	249	232	..	27	9663	242.5	252	236	..	24	9699	245.8	251	241	..
250	19	10858	229.2	237	219	..	25	10932	232.6	242	226	..	24	10988	236.5	242	232	..
200	14	12323	218.2	229	211	..	24	12409	219.4	229	209	..	24	12497	224.7	232	218	..
175	11	13159	211.5	219	205	..	22	13256	213.2	224	200	..	21	13363	218·3	225	212	..
150	11	14108	204.1	213	197	..	21	14226	206.7	219	196	..	20	14332	211.3	217	205	..
125	7	15279	203.9	208	199	..	19	15317	201.6	215	194	..	17	15448	203.6	210	196	..
100							18	16632	199.1	211	195	..	14	16691	198.8	203	196	..
80							17	17950	201.2	210	193	..	11	18045	201.4	203	196	..

	PORT BLAIR (998 mb.)						TRIVANDRUM (1001 mb.)						VERAVAL (1005 mb.)					
Surface	30	79	297.8	300	296	296.9	30	64	297.0	298	296	295.4	30	8	298.2	300	296	296.8
1000	30	61	..	..	..	..	30	72	..	..	..	..	30	50	..	..	..	..
900	30	982	293.8	296	290	290.4	30	991	292.2	295	290	289.3	30	971	293.9	299	290	288.9
850	30	1475	291.1	294	285	287.6	30	1482	289.6	293	287	286.2	30	1465	291.3	297	287	286.4
800	30	1992	288.4	292	283	284.4	30	1997	287.0	289	285	282.9	30	1983	288.4	297	285	283.0
700	30	3115	283.2	288	279	277.7	30	3118	281.9	285	280	276.9	30	3106	282.5	287	275	276.1
600	30	4383	276.3	281	271	271.7	30	4380	274.7	278	271	270.0	27	4373	276.6	291	272	269.4
500	30	5836	267.6	274	259	..	30	5827	266.4	270	259	..	27	5830	267.9	279	259	..
400	29	7556	257.7	267	248	..	30	7545	255.0	259	243	..	26	7552	258.1	267	251	..
300	22	9696	245.3	255	234	..	29	9629	239.8	245	233	..	9	9732	248.9	257	243	..
250	21	10974	234.3	250	219	..	27	10889	230.3	236	223	..						
200	16	12402	218.4	235	205	..	27	12359	218.5	228	209	..						
175	16	13307	212·0	230	201	..	26	13182	212.6	220	203	..						
150	13	14338	205.6	223	197	..	26	14162	206.8	217	197	..						
125	10	15409	201.9	214	195		25	15249	202.6	213	193	..						
100	7	16693	199·1	205	195		20	16565	201.3	211	192	..						
80							17	17893	204.1	218	195	..						

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 0000 Hours G. M. T.

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (998 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	29	48	300.2	301	298	297.3
1000	29	33	..	..	..	..
900	29	962	295.7	298	292	291.0
850	29	1459	292.6	295	289	288.7
800	29	1981	289.8	292	285	286.1
700	29	3109	283.4	287	277	279.3
600	29	4378	276.1	281	271	271.3
500	29	5837	267.8	271	262	..
400	29	7554	256.5	263	247	..
300	23	9656	241.0	250	230	..
250	19	10937	230.7	240	225	..
200	19	12410	218.8	228	212	..
175	16	13273	213.1	222	206	..
150	13	14224	205.2	216	198	..
125	12	15294	201.0	210	195	..
100	11	16630	201.9	209	197	..
80	7	17983	205.3	217	199	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 1200 Hours G. M. T.

September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (990 mb.)						BOMBAY (1003 mb.)						CALCUTTA (1001 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	98	304.3	307	300	298.0	30	13	301.5	304	298	297.3	29	6	301.7	305	299	298.9
1000	30	11	..	..	..	..	30	44	..	..	..	..	29	17	..	..	..	..
900	30	951	298.3	301	294	292.7	30	971	295.2	299	292	290.9	29	948	296.6	300	294	292.7
850	30	1451	294.8	297	290	288.7	30	1467	292.3	296	288	288.3	29	1446	293.7	296	290	289.5
800	30	1975	291.6	295	287	284.6	30	1987	289.1	293	281	285.3	29	1968	291.2	293	289	287.1
700	30	3109	285.5	288	283	276.3	30	3114	284.2	287	280	276.7	29	3101	285.0	288	282	278.7
600	30	4389	279.3	282	276	267.3	30	4387	277.8	281	273	269.2	29	4378	278.4	282	275	272.5
500	30	5865	271.5	274	268	263.4	30	5854	270.1	273	265	..	29	5849	270.1	275	263	..
400	30	7609	261.6	266	258	..	30	7591	260.3	264	255	..	29	7584	260.4	266	255	..
300	27	9765	248.1	254	245	.	26	9732	246.8	253	242	..	22	9728	247.0	252	241	..
250	26	11066	239.0	245	235	..	22	11023	237.4	240	234	..	19	11022	237.9	243	231	..
200	26	12593	227.9	235	223	..	20	12542	226.7	237	220	..	18	12549	226.1	233	219	..
175	23	13467	221.2	229	216	..	18	13406	219.3	225	214	..	14	13409	218.8	228	213	..
150	18	14427	213.2	220	207	..	16	14379	212.3	216	207	..	12	14409	212.3	222	205	..
125	16	15545	205.7	213	200	..	11	15502	205.0	211	198	..	10	15503	203.2	219	195	..
100	13	16883	200.8	207	193	..	9	16820	204.9	217	196	..	6	16906	200.3	215	195	..
80	9	18171	202.8	209	196	..	..	..	..	..	..	..	..	..	..	..	..	..

	GAUHATI (997 mb.)						GWALIOR (979 mb.)						JODHPUR (978 mb.)					
Surface	30	49	302.0	307	298	299.9	27	203	304.2	308	298	296.3	30	218	309.1	313	304	290.0
1000	30	24	..	..	..	..	27	7	..	..	..	..	30	11	..	..	..	..
900	30	954	297.2	300	294	294.0	27	948	299.3	303	296	291.7	30	964	302.4	308	297	286.9
850	30	1452	294.0	297	290	291.0	27	1451	295.7	299	293	288.9	30	1471	297.9	304	292	284.5
800	30	1975	291.2	295	288	288.1	27	1977	292.3	296	289	285.4	30	1999	293.4	299	287	281.9
700	30	3106	285.3	289	281	281.7	27	3112	284.9	287	280	275.9	30	3138	285.7	292	280	274.1
600	30	4384	278.9	281	275	275.0	27	4389	278.4	283	272	267.6	30	4413	277.5	283	273	266.1
500	30	5855	270.5	274	265	265.9	27	5862	271.4	277	267	256·4	29	5876	270.4	273	262	..
400	30	7598	261.5	267	255	..	27	7610	261.7	267	250	..	27	7617	261.3	265	252	..
300	22	9746	247.7	252	244	..	26	9765	248.2	254	243	..	19	9772	247.5	252	243	..
250	19	11052	239.1	243	235	..	26	1169	239.4	246	233	..	17	11075	239.2	245	235	..
200	18	12579	228.2	234	223	..	23	12596	228.0	234	221	..	16	12601	227.5	231	221	..
175	14	13454	221.6	227	219	..	22	13471	221.6	229	213	..	14	13483	221.5	225	218	..
150	12	14450	215.1	220	208	..	21	14459	215.5	226	205	..	12	14485	214.7	220	211	..
125	11	15565	207.9	214	201	..	19	15595	208.0	219	198	..	11	15607	206.9	212	201	..
100	10	16905	202.7	209	197	..	15	16931	203·6	213	196	..	10	16959	202.3	206	198	..
80	..	..	..	..	..	..	13	18296	207.0	222	197	..	5	18273	207.0	212	200	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 1200 Hours G. M. T.

September 1960 (Bhadra 10 —Asvina 8, 1882 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1002 mb.)						NAGPUR (967 mb.)						NEW DELHI (978 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	15	302.9	306	299	297.3	30	311	302.9	305	298	296.1	29	210	306.0	308	301	295.8
1000	30	29	..	..	..	..	30	12	..	..	..	..	29	11	..	..	..	..
900	30	961	296.0	300	293	291.3	30	950	298.0	301	294	291.0	29	956	300.4	304	295	290.6
850	30	1456	292.6	297	289	288.1	30	1450	293.9	298	291	288·7	29	1458	296.4	301	293	287.3
800	30	1976	289.0	294	286	285.8	30	1973	289.9	293	286	284.9	29	1980	292.2	296	289	282.4
700	30	3099	282.4	288	277	278.6	30	3102	283.4	285	280	277.5	29	3116	284.6	288	282	272.1
600	30	4364	275.7	280	272	270.9	30	4374	276.8	281	274	269.1	29	4387	276.8	282	272	261.7
500	30	5818	267.6	274	263	..	30	5835	268.5	273	265	..	29	5850	269.7	275	265	..
400	28	7533	256.2	263	248	..	30	7556	257.7	263	250	..	29	7585	259.8	266	255	..
300	20	9635	241.0	248	236	..	27	9674	243.1	250	230	..	26	9727	246.5	252	242	..
250	16	10883	231.9	242	227	..	25	10943	233.1	241	220	..	23	11022	237.3	242	231	..
200	11	12371	220.6	229	211	..	23	12431	220.3	230	206	..	22	12531	225.9	230	222	..
175	9	13184	210.7	217	205	..	22	13273	213.4	225	202	..	22	13402	219.5	225	214	..
150	9	14152	205.6	212	199	..	22	14233	206.4	220	195	..	22	14378	212.4	219	205	..
125	6	15293	202·2	205	197	..	18	15345	203.7	215	193	..	20	15509	204.5	211	199	..
100							18	16678	202.5	210	194	..	14	16825	200.1	205	196	..
80							14	18031	205·0	213	194	..	9	18136	203.4	211	194	..

Standard Pressure Surface mbs.	PORT BLAIR (997 mb.)						TRIVANDRUM (1000 mb.)						VERAVAL (1004 mb.)					
Surface	30	79	299.0	301	297	297.2	30	64	300.0	302	297	296.0	30	8	301.0	303	299	298.1
1000	30	49	..	..	..	..	30	62	..	..	..	..	30	44	..	..	..	..
900	29	974	294.1	296	292	290.5	30	986	292.8	296	291	289.1	30	970	295.2	301	291	289.1
850	29	1467	291.2	293	289	287.5	30	1478	289.9	293	281	286.4	30	1465	292.0	297	286	286.7
800	29	1985	288.8	291	286	285.0	30	1995	287.6	290	285	283.1	30	1985	288.4	293	283	283.5
700	29	3109	283.1	286	278	279.0	30	3115	282.2	286	277	276.4	30	3111	283.7	290	279	275.1
600	29	4377	276.4	281	272	273.0	30	4379	275.2	282	271	271.3	27	4378	276.6	282	271	266.3
500	29	5835	268.4	273	265	..	30	5833	267.1	273	261	..	25	5839	268.0	273	262	..
400	29	7559	258.4	267	252	..	30	7544	255.8	259	251	..	23	7563	258.6	265	253	..
300	18	9656	241.1	249	232	..	27	9649	239.1	245	231	..	11	9698	246.2	254	242	..
250	17	10934	231.1	241	219	..	27	10885	229.1	238	218	..	6	10943	235.5	242	233	..
200	14	12419	219.6	231	204	..	27	12348	217.0	227	212	..	..	..	..	..	..	..
175	13	13273	214.4	239	198	..	26	13170	211.0	222	199	..	..	..	..	..	..	..
150	11	14240	206.2	217	197	..	24	14126	204.5	217	197	..	..	..	..	..	..	..
125	6	15355	204.8	217	198	..	24	15216	200.1	212	191	..	..	..	..	..	..	..
100							21	16520	201.5	211	193	..	..	..	..	..	..	..
80							14	17847	201.8	213	191	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACE

(B) From Ascents at 12 00 Hours G.M.T.

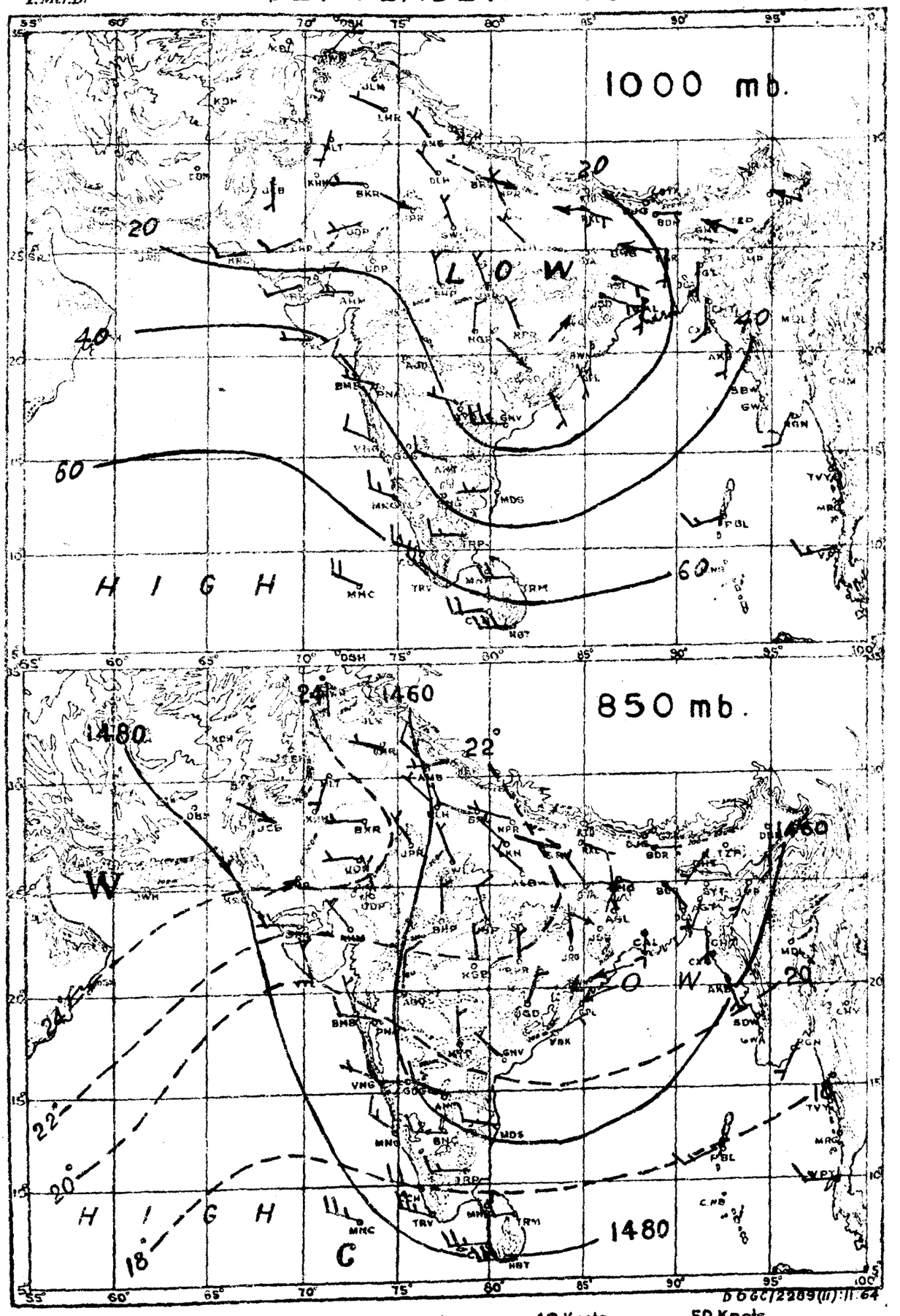
September 1960 (Bhadra 10—Asvina 8, 1882 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM (Surf. Pr. (997 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	48	302.5	303	299	298.1
1000	30	20	..	..	..	..
900	30	952	295.8	298	293	291.8
850	30	1449	292.8	295	289	289.5
800	30	1971	289.9	293	287	286.9
700	30	3101	283.9	287	280	279.6
600	30	4372	277.2	280	274	272.1
500	30	5835	268.1	271	265	..
400	30	7556	257.2	260	253	..
300	28	9667	242.4	247	236	..
250	24	10929	232.0	243	222	..
200	24	12410	219.3	225	213	..
175	22	13244	212.9	219	206	..
150	21	14196	205.1	216	197	..
125	19	15249	199.3	211	191	..
100	18	16562	200.6	206	191	..
80	11	17893	205.5	218	196	..

NOTE.—Number of observations refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S4—3 D D G Obs P/65—6-7-65—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS
SEPTEMBER 1960



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

--------- Isotherms in degrees centigrade ——— Contours in geopotential metres.

D.G.C./2289(II):11.64
G.P.Z. P. POONA. 1965

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INDIA WEATHER REVIEW, 1960

Monthly Weather Report

OCTOBER

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Chief features—

(i) Spell of heavy rains in Uttar Pradesh during the first week ;

(ii) Development of two severe cyclonic storms in the Bay of Bengal;

(iii) Withdrawal of monsoon by the middle of the month; and

(iv) Abundant rainfall in the south Peninsula during the second half of the month.

A well marked wind discontinuity extending from Vidarbha to Himachal Pradesh existed in the lower and middle troposphere during the first week of October. In association with it, fairly widespread rain with a few heavy to very heavy falls occurred in Uttar Pradesh and adjoining north Madhya Pradesh from 3rd to 8th October. Mainpuri reported 24 cm of rain on 4th and 15 cm on 6th; Hardoi 24 cm and Bahraich 16 cm. of rain on 6th. The presistent heavy rains led to floods in the Gomati, the Ganga and other rivers of Uttar Pradesh. According to press reports, the flood waters inundated large areas of Lucknow city and a number of villages in Uttar Pradesh.

A low pressure area from Burma entered the north Andaman Sea and adjoining east central Bay of Bengal on 7th October and concentrated into a depression by the night of 8th-9th. Moving in a northerly direction, the depression intensified into a cyclonic storm of small extent centred about 200 kms westsouthwest of Akyab by the evening of 9th. It intensified further into a severe cyclonic storm by 10th morning and struck the East Pakistan coast near Noakhali the same night. Thereafter, it weekened rapidly and lay as depression centred about 100 kms east of Comilla on 11th morning. Weakening further the depression broke up over the Assam hills by 13th. This disturbance caused fairly widespread rain or thundershowers in the north Bay Islands on 7th October and in lower Assam on 11th and 12th. According to press reports, heavy rains accompanied by gales and a tidal bore associated with the storm caused devastation in Naokhali district and neighbouring areas of East Pakistan.

After the dissipation of this storm, the monsoon withdrew from northeast India and was confined to the south Peninsula by 17th October.

A low pressure area formed over the southwest Bay of Bengal on 22nd. It lay over the Ceylon-Comorin areas on 23rd and over the southeast Arabian Sea off the Malabar coast on 24th; thereafter, it moved away westwards. In association with it, fairly widespread thundershowers occurred in the Madras State on 24th, in Kerala on 24th and 25th and in coastal Mysore on 25th. There were also local thundershowers in Rayalaseema and south Interior Mysore on 25th. Adiramapattinam reported 8 cms of rain on 24th.

In association with the accentuation of the seasonal trough over the southwest Bay of Bengal and the southeast Arabian Sea, the northeast monsoon was active over the south Peninsula towards the close of the month. Punalur reported 16 cm of rain on 26th and Minicoy 10 cm. on 29th.

Following the movement of a trough in easterlies, a low pressure area developed in the southeast Bay of Bengal on 28th October. Moving in a northwesterly direction, it concentrated into a depression on 29th morning centred near Lat. 12½° N and Long. 86½° E. Moving initially northwards and then northeastwards, the depression intensified into a severe cyclonic storm centred about 170 kms southeast of Sandheads on 31st morning. It continued to move northeastwards and struck the East Pakistan coast near Chittagong, the same night. Thereafter, it weakened rapidly and broke up over the Assam hills by 2nd November. In association with it, widespread thundershowers occurred in

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1—4 D.D.G. Obs. Poona/65

the Bay Islands from 27th to 29th October and fairly widespread rain in coastal West Bengal on 31st October and in Assam on 1st November. Nan Cowrie reported 16 cm. of rain on 27th, Port Blair 11 cm. on 29th October and Haflong 10 cm. on 1st November. The gales and tidal surge associated with this storm were reported to have caused considerable loss of life and property in Chittagong, Naokhali and Barisal districts of East Pakistan.

The rainfall for the month was in large excess in Uttar Pradesh, the Punjab (I) and west Madhya Pradesh, in moderate excess in the Bay Islands, east Madhya Pradesh, the Konkan and Vidarbha, in slight excess in coastal Mysore and normal in Orissa, Bihar State, Telangana, south Interior Mysore and the Arabian Sea Islands. It was in slight defect in Gangetic West Bengal, the Madras State and Kerala, in moderate defect in Sub-Himalayan West Bengal, Deccan (including Marathwada) coastal Andhra Pradesh and north Interior Mysore, in large defect in Assam, Jammu and Kashmir, east Rajasthan, east Gujarat State and Rayalaseema. There was no rain over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Assam and West Rajasthan, below normal in west Uttar Pradesh and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in east Uttar Pradesh and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in Uttar Pradesh and the Punjab (I), below normal in Jammu and Kashmir, west Rajasthan and east Gujarat state and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in Orissa Uttar Pradesh, the Punjab (I), east Rajasthan, Madhya Pradesh, Vidarbha and north Interior Mysore, below normal in Jammu and Kashmir, Gujarat State and Telangana and normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column. Similarly the heaviest fall in 24 hours for any station denotes the amount recorded during 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,
The 22nd December 1960.

R. ANANTHAKRISHNAN,
for *Director General of Observatories*

Errata to M.W.R. for October 1960 (Asvina 9 - Kartika 9, 1882 Saka)

Page No.	Station	Hour	Column	For	Read
Table II					
514	Majbat		1	Marbat	Majbat
514	Gauhati		16	1.2	-1.2
514	Dhubri		16	4.0	-4.0
514	Midnapure		25	1	0
515	Nautanwa		17	(Not clear)	3.5
516	Dras		12	19.1	-19.1
517	Ajmer		19	+0.7	+1.7
517	Kotah		19	+1.7	-0.7
517	Rajgarh		17	5.7	8.7
517	Betul		13	28.8	20.8
517	Surat		7	+0	0
518	Sholapur		19	+0.9	-0.9
518	Amravati		11	48.2	42.7
518	Yeotmal		11	42.7	48.2
518	Nagpur		11	48.2	51.3
518	Calingapatam		13	24.3	24.2
518	Ramagundam		11	(Not clear)	106.2
518	Hyderabad (Begumpet Aerodrome)		12	48.3	-48.3
519	(Heading)		-	May,1960 etc.	Oct.1960 etc.
519	Mangalore (Bajpe Aerodrome)		17	8.8	8.8(a)
519	Bidar		17	13.0(a)	13.0
519	Belgaum (Sambre Aerodrome)		17	..(a)	..
520	Ootacamund		18	(Not clear)	2.7
520	Coonoor		18	(Not clear)	5.5
520	Tilaiya		8	5.7	15.7
Table III					
522	Dibrugarh	0830	3	1012.2	1012.3
522	Dibrugarh (Mohanbari Aerodrome)	0530	10	29.0	24.0
522	Dibrugarh (Mohanbari Aerodrome)	0830	7	6.3	26.3
522	Dibrugarh (Mohanbari Aerodrome)	1130	7	9.1	29.1
522	Golaghat	1730	13	4.1(b)	4.1(d)
522	Tezpur	1730	25	1	0
522	Majbat	0830	25	0	1
522	Gauhati (Bhorjor Aerodrome)	0530	10	(Not clear)	27.0
522	Gauhati (Bhorjor Aerodrome)	1730	13	4.2	4.1
522	(Foot note)	-	-	(b) Mean of 27 days.	(d) Mean of 27 days
522	(Foot note)	-	-	(Not given)	*Data not reliable
523	Bagdogra	0530	28	1	0
523	Malda	1730	26	1	10
524	Barrackpore (Aerodrome)	1130	3	8	,,
524	Titilagarh	0830	20	7	17
525	Bolangir	1730	11	68	64
526	Ballia	0830	2	0380	0850
526	Varanasi (Banaras) (Babatpur aerodrome)	0530	27	2	20
526	Varanasi (Banaras) (Babatpur Aerodrome)	1130	27	(Blank)	0
526	Varanasi (Banaras) (Babatpur Aerodrome)	1730	27	(Blank)	5

(contd.2)

Page No.	Station	Hour	Column	For	Read
527	Lucknow (Amausi Aerodrome)	0230	2	2330	0230
527	Lucknow (Amausi Aerodrome)	1730	8	23.0	23.8
527	Bahraich	0830	2	0830(R)	0830
527	Najibabad	0830	22	4	5
527	Roorkee	0830	13	2.0	2.6
529	Jammu (Aerodrome)	0830	20	(Not clear)	19
529	Bikaner	1730	26	(Blank)	6
529	Bikaner (P.B.O)	2330	21	(Blank)	2
529	Jaisalmer	0830	21	(Blank)	1
529	Jaipur (Sanganer Aerodrome)	0230	21	(Balnk)	6
529	Ajmer	0830	23	(Blank)	2
530	Chhindwara	1730	11	(Blank)	50
531	Kanker	1730	28	4	0
533	Harnai	0830	28	1	0
533	Vengurla	0530	9	23.4	22.4
533	Vengurla	1130	23	(Blank)	2
533	Vengurla	2330	9	23.3	23.5
533	Parbhani	0830	15	3.5	8.5
534	Yeotmal	0830	16	(Blank)	0
535	Bhadrachallam	0830	25	(Blank)	5
535	Kurnool	0830	28	(Blank)	0
537	Gadag	1730	10	19.6	19.0
537	Shimoga	0830	13	4.9	5.9
539	Bhimkund	0830	13	5.7	5.2
540	Okhaldhunga	0830	2	(R)0830	0830
540	Okhaldhunga	1730	2	(R)1730	1730
540	(Foot Note)	-	-	*Data not available.	*Data not reliable
541	Chainpur	1730	9	15.8	15.7

Page No.	Station	Time in I.S.T	Height in Km.	Entry under Column	Existing entry	Correct entry
543	Santa Cruz	-	-	Approximate times of flights (IST)	2330	2330*
Table IV						
550	Gauhati	2330	-	-	2330*	2330
550	Gorakhpur	1730	3.6	v	11.5	1.5
553	Minicoy	0530	-	-	0530*	0530
554	Nanpara	0530	3.0	n	35	25
556	Udaipur	0530	Surface	D	355	335
Table V						
558 & 559	Dum Dum, Madras, New Delhi & Santa Cruz	1130 & 2330	-	-	1130	1130*
558	Gauhati	1730	10.5,12.0 and 14.1		'Ht.in Km' levels printed slightly up.	
559	Santa Cruz	2330*	12.0	v	1.2	12.2
560	Visakhapatnam	1130 & 1730			'Ht.in Km', levels printed slightly down.	
RADIOSONDE DATA						
Table VI						
563	New Delhi	00 GMT	150 mb	Mean	209.1	209.5

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, and Tripura).	38·5	31	31·4	22·6	81	79	3·5	2·5
	−83·9		+1·6	+0·9	−3		−0·6	
2. West Bengal	94·7	76	31·7	23·3	75	71	2·6	2·6
	−29·6		+0·4	+0·6	−3		−0·2	
3. Orissa	140·4	94	31·5	23·2	78	70	4·1	4·5
	−9·4		0	−0·1	+1		+1·0	
4. Bihar	63·7	95	31·3	21·2	74	69	2·4	2·4
	−3.1		+0·4	+0·2	+1		+0·1	
5. Uttar Pradesh	166·4	489	31·7	19·6	73	62	1·7	1·8
	+132.4		−0·9	+0·8	+7		+0·7	
6. Punjab (India) (Including Delhi).*	36·1	291	33·0	17·8	67	46	1·0	0·9
	+23·7		−0·7	+0·4	+9		+0·3	
7. Jammu and Kashmir	0·1	0	18·7	1·6	51	37	0·7	1·9
	−28·9		−0·2	−0·4	−15		−1·4	
Sub-division								
1. Bay Islands	423·2	133	29·5	23·4	84	90	5·9	5·3
	+105·5		+0·7	+0·2	+3		+0·7	
2. Assam (Including Manipur, Tripura).	38·5	31	31·4	22·6	81	79	3·5	2·5
	−83·9		+1·6	+0·9	−3		−0·6	
3 Sub-Himalayan West Bengal.	85·0	58	30·7	22·3	75	67	1.9	1·8
	−60·8		−0·1	+0·5	−5		−0·1	
4. Gangetic West Bengal.	98·8	86	32·0	23·7	75	72	2·8	2·9
	−16·2		+0·5	+0·6	−2		−0·3	
5. Orissa	140·4	94	31·5	23·2	78	70	4·1	4·5
	−9·4		0	−0·1	+1		+1·0	
6. Bihar Plateau	72·9	98	30·9	20·3	75	67	3·1	3·2
	−1·4		+0·4	−0·1	+3		+0·5	
7. Bihar Plains	56·8	93	31·7	22·1	73	70	1·7	1·7
	−4·3		+0·4	+0·5	0		−0·3	
8. Uttar Pradesh (East).	157·7	347	32·2	20·8	75	63	1·7	1·8
	+112·3		−0·5	+1·1	+6		+0·4	
9. Uttar Pradesh (West).	175·1	775	31·2	18·5	71	61	1·7	1·8
	+152·5		−1·2	+0·6	+9		+0·9	
10. Punjab (India) (Including Delhi)	36·1	291	33·0	17·8	67	46	1·0	0·9
	+23·7		−0·7	+0·4	+9		+0·3	
11. Himachal Pradesh	5·2	..	30·5	12·7	75	43	0·9	1·1
	..		..	..	..		..	
12. Jammu and Kashmir	0·1	0	18·7	1·6	51	37	0·7	1·9
	−28·9		−0·2	−0·4	−15		−1·4	
13. Rajasthan (West)	0	0	36·7	19·6	44	23	0·5	0·9
	−4·0		+1·1	+1·0	−7		−0·1	
14. Rajasthan (East)	4·2	31	33·6	18·4	55	33	1·3	1·9
	−9·5		0	−0·3	+2		+0·3	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity 0830 hrs. I.S.T.	Relative humidity 1730 h. I.S.T.	Cloud 0830 hrs I.ST	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	1·9	23	35·2	19·0	50	28	0·9	1·4
	−6·5		+0·5	+0·3	−3		+0·1	
9. Madhya Pradesh	87·6	132	31·1	18·6	69	54	2·7	3·1
	+39·4		−0·3	+0·2	+4		+0·8	
10. Maharashtra	54·8	93	33·0	21·0	71	53	2·8	3·1
	−4·4		+0·3	−0·1	−1		+0·1	
11. Andhra Pradesh	75·7	57	32·1	22·8	72	61	3·3	4·3
	−57·8		0	+0·1	−3		−0·6	
12. Madras State	180·2	85	32·3	23·7	77	69	5·2	5·5
	−32·9		+0.6	+0·2	−2		+0·8	
13. Mysore	88·4	88	30·1	20·6	76	57	4·6	5·3
	−12·5		+0·1	+0·2	−1		+0·5	
14. Kerala	222·7	77	29·6	23·5	86	81	5·4	5·7
	−68·3		−0·1	−0·3	+2		+0·2	
Sub-division—*contd.*								
15. Madhya Pradesh (West).	78·9	258	31·6	18·1	65	48	2·4	2·7
	+48·3		−0·4	+0·1	+4		+0·9	
16. Madhya Pradesh, (East).	100·1	136	30·3	19·2	76	64	3·1	3·6
	+26·7		−0·1	+0·4	+4		+0·6	
17. Gujarat	10·9	34	35·9	20·5	62	35	1·2	1·3
	−21·0		+1·0	+0·1	−7		−0·5	
18. Saurashtra and Kutch.	0	0	34·6	21·7	78	59	1·5	1·5
	−13·5		+0·6	−0·1	+4		−0·8	
19. Konkan	115·4	144	31·6	23·7	75	72	3·9	3·7
	+35·4		+0·4	+0·1	−4		+0·5	
20. Maharashtra (Including Marathwada)	51·6	63	31·9	19·3	69	45	3·5	4·3
	−30·3		+0·2	−0·2	0		+0·4	
21. Vidarbha	69·1	137	32·2	19·5	70	52	3·0	3·6
	+18·7		−0·4	−0·4	+5		+0·7	
22. Coastal Andhra Pradesh.	105·2	53	32·1	24·2	76	69	3·8	4·9
	−91·7		+0·1	0	+1		−0·5	
23. Telangana	51·0	90	31·4	20·6	67	53	2·4	3·6
	−5·8		0	+0·3	+4		−0·7	
24. Rayalaseema	48·3	48	32·9	22·8	69	56	3·3	3·9
	−53·3		−0·1	−0·1	−3		−0·7	
25. Madras State	180·2	85	32·3	23·7	77	69	5·2	5·5
	−32·9		+0·6	+0·2	−2		+0·8	
26. Coastal Mysore	180·1	115	30·7	22·9	83	77	5·3	5·1
	+23·3		+0·1	−0·5	−1		+0·5	
27. Interior Mysore (North).	43·3	53	31·1	20·8	68	48	4·0	5·3
	−38·6		0	+0·3	−3		+0·8	
28. Interior Mysore (South).	102·9	102	29·0	19·7	81	59	5·1	5·6
	+1·6		+0·3	+0·3	+1		+0·3	
29. Kerala	222·7	77	29·6	23·5	86	81	5·4	5·7
	−68·3		−0·1	−0·3	+2		+0·2	
30. Arabian Sea Islands.	168·4	102	30·5	24·2	80	76	4·5	5·2
	+3·1		+0·7	−0·5	+2		−0·1	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.
*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rain days (2.5mm or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	29·9	..	31·8	18	24·2	..	22·4	6	62·5	391·3	..	72·2	29	11	..	9·1	7·7	..	0	15	0	0	1	0	0	0	0	0	0
Long Island	30·1	..	31·7	14,15, 17	23·8	..	21·7	7	137·0	446·8	..	110·0	5	14	..	2·0	1·0	..	0	14	0	0	0	0	0	0	0	0	0
Port Blair	29·5	+0·7	31·1	25	23·4	+0·2	22·3	26	204·3	424·5	+106·8	112·4	29	19	+2·3	10·9	8·5	−3·7	1	20	0	0	3	5	0	0	0	0	0
Car Nicobar	29·7	..	31·3	11	23·0	..	20·6	14	84·4	253·6	..	82·6	28	8	..	5.9	3·5	..	0	12	0	0	0	0	0	0	0	0	0
Nancowry	30·2	..	33·6	24,26	25·0	..	22·9	1	134·1	386·6	..	157·8	27	9	..	..	..	..	0	9	0	0	0	0	0	0	0	0	0
Kondul	28·6	..	29·8	15	24·1	..	22·6	2	147·2	346·4	..	86·2	1	14	..	..	..	..	1	19	0	0	5	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	30·7	..	33·7	4	21·5	..	18·7	29,30	5·0	13·0	..	4·0	12	2	..	4·9	9·9	..	0	6	0	0	0	0	0	0	0	0	0
Digboi*																													
Dibrugarh	31·8	+2·7	35·0	3,5	21·8	+1·0	16·6	29	3·6	7·4	−144·7	4·5	12	1	-7·6	2·5	1·6	+0·5	4	3	0	0	0	0	0	0	0	0	0
Dibrugarh (Mohanbari Aerodrome)	30·9	..	34·3	4	20·7	..	14·2	29	3·7	14·3	..	6·1	12	3	.	4·4	2·5	..	1	7	0	0	0	2	0	0	0	0	0
North Lakhimpur	31·2	..	34·3	3,4	20.8	..	15.4	29	20·1	35·6	..	13·4	12	4	.	..	..	..	2	8	0	0	2	0	0	0	0	0	0
Sibsagar	31·4	+2·3	34·1	3	22·6	+1·2	17·6	29	5·1	17·1	−114·2	6·1	11	2	−5 9	1·4	2·1	−0·2	0	7	0	0	0	0	0	0	0	0	0
Jorhat	31·0	..	34·4	9	22·0	..	16·7	29	8·5	26·1	..	9·2	12	4	..	..	..	..	0	7	0	0	1	7	0	0	0	0	0
Golaghat	31·1	..	33·9	4 days	22·2	.	17·5	29	4·0	34·4	..	28·4	13	2	..	..	.	..	0	3	0	0	0	0	0	0	0	0	0
Gohpur	31·5	..	33 8	5 days	21·6	..	16 6	29	0	0	..	0	..	0	..	4·6	3·4	..	0	0	0	0	0	0	0	0	0	0	0
Tezpur	32·9	+2·7	35·6	6,8	22·4	+0·6	20·6	*26,31	6·6	16·2	−87 9	8·8	10	2	4·3	4·6	4·2	+1·8	0	6	0	0	0	0	0	0	0	0	0
Marbat	..	..	..	..	..	..	..	..	0·6	8·7	..	5·8	1	1	..	6·0	3·4	..	0	5	0	0	0	0	0	0	0	0	0
Chaparmukh†																													
Tangla	33·0	..	35·0	4	21·9	..	17·2	29	0	19·0	..	19·0	1	1	..	2·1	0·7	..	0	1	0	0	0	0	0	0	0	0	0
Gauhati	31·4	+0·8	33·6	3 days	23·3	+1·6	19·8	28	0	46·7	−23·9	22·0	13	3	1·2	1·6	1·6	−0·3	0	4	0	0	0	2	0	0	0	0	0
Gauhati (Bhorjor Aerodrome)	31·1	..	33·2	4,9	22·7	..	18·8	28	5·0	67·7	..	35·9	1	5	..	6·7	4·1	..	0	5	0	0	8	3	0	0	0	0	0
Rangiya	32·3	..	34·2	30	21·8	..	18·0	28	0	125·0	..	54·0	1	3	..	6·6	4·5	..	0	3	0	0	0	0	0	0	0	0	0
Goalpara	32·9	..	35·2	9	22·3	..	16·2	27	26·4	95·0	..	42·0	1	4	..	(a) 3·4	2·5	..	0	4	0	0	0	0	0	0	0	0	0
Dhubri	29·9	+0·8	31·7	8	23·7	+1·0	19·6	2,7	1·1	8·2	−116·3	6·0	1	1	4·0	2·4	1·5	−3·6	0	3	0	0	0	0	0	0	0	0	0
Dhubri (Rupsi Aerodrome)	31·3	..	33·5	4	21·5	..	16·9	27	12·4	79·6	..	50·6	1	3	..	4·5	2·8	..	1	5	0	0	2	1	0	0	0	0	0
Tura	29·9	..	32·4	9	17·6	..	14·4	27,28	73·5	95·7	..	29·2	6	7	..	4·8	5·0	..	0	5	0	0	0	0	0	0	0	0	0
Agartala	31·2	..	33·4	5,6	22·0	..	16·9	27,28	73·7	149·8	..	41·0	12	7	..	6·5	4·2	..	0	7	0	0	4	4	0	0	0	0	0
Kailashar	31·7	..	34·2	3,7	22·0	..	17·7	28	52·2	231·3	..	60·8	12	9	..	3·7	2·4	..	1	10	0	0	8	9	0	0	0	0	0
Silchar	31·0	−0·3	35·1	9	23·1	+0·8	20.2	28	29·0	136·9	−47·2	47·4	12	5	−2·9	2·1	1·1	−0·5	0	9	0	0	5	0	0	0	0	0	0
Silchar (Kumbhigram Aerodrome)	32·8	..	36·1	8	22·7	..	19·1	28	39·9	106·1	..	50·8	13	5	..	6·1	6·5	..	0	7	0	0	3	0	0	0	0	0	0
Imphal	28·1	..	31·1	3	17·3	..	11·9	27	53·6	111·2	..	45·2	12	13	..	5·0	3·6	..	1	10	0	0	3	9	0	0	0	0	0
Haflong	27·8	..	32·7	9	19·7	..	16·1	28	111·2	161·2	..	77·3	12	9	..	..	..	..	0	12	0	0	0	6	0	0	0	0	0
Lumding	31·3	+1·9	34·3	7,8	21·2	+0·1	16·1	28	17·4	36·8	−53·1	19·8	1	3	−2·9	2·4	1·1	..	0	5	0	0	0	3	0	0	0	0	0
Sub-Himalayan West Bengal																													
Cooch Behar	31·5	..	33·4	4	21·2	..	17·6	27	4·0	94·5	−91·2	54·4	1	4	−2·2	5·5	2·8	..	0	5	0	0	5	2	0	0	0	0	0
Jalpaiguri	29·5	−0·9	32·2	7	21·5	+0·2	18·4	27	8·2	111·6	−29·6	63·2	1	4	−1·5	6·5	4·5	+2·6	0	4	0	0	3	0	0	0	0	0	0
Bagdogra	30·2	..	33·5	8	19·3	..	14·9	27	38·0	117·2	..	60·4	12	4	..	7·4	6·5	..	0	6	0	0	3	0	0	0	0	0	0
Malda	31·9	+0·7	33·9	9,12	23·2	+0·8	18·1	29	16·0	49·0	−61·5	28·4	1	3	−1·3	7·3	4·4	−0·1	0	4	0	0	1	0	0	0	0	0	0
Gangetic West Bengal																													
Dum Dum	31·9	..	34·3	12	23·1	..	19·4	26,27	33·0	50·2	..	16·8	1	7	..	8·0	4·6	..	0	8	0	0	7	3	0	0	0	0	0
Calcutta	32·3	+0·5	34·1	7	23·8	+0·6	19·9	26	52·7	107·4	−6·4	47·3	1	8	+1·8	7·0	3·8	+0·4	0	11	0	0	10	0	0	0	0	3	0
Barrackpor (Aerodrome)	31·7	..	34·2	8	23·1	..	19·5	27	74·0	99·4	..	31·0	14	7	..	..	..	..	0	8	0	0	6	1	0	0	0	0	0
Saugor Island	30·4	0	31·8	20,25	25·0	+0·4	21·4	31	100·1	172·0	−33·0	28·0	4	9	+1·5	14·8	11·2	+1·9	0	13	0	0	5	0	0	0	0	0	0
Sandheads	32·0	..	36·2	21	27·1	..	22·4	31	43·0	92·7	−24·9	29·1	1	9	+3·3	..	..	..	0	11	0	0	3	0	0	0	0	0	0
Contai	30·8	..	33·1	10	24·0	..	20·8	31	52·3	165·0	..	70·2	1	8	..	7·2	5·0	..	0	9	0	0	0	0	0	0	0	0	0
Midnapore	31·5	−0·2	35·0	13	23·0	0	19·6	30	71·4	146·2	+49·7	52·2	1	6	+0·4	4·3	2·3	0	1	6	0	0	1	0	1	0	0	0	0
Purulia	30·6	..	32·8	12,13	22·2	..	18·5	28	22·6	62·2	..	43·8	2	3	..	5·5	3·7	..	0	5	0	0	0	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	102·0	+22·7	52.0	13	4	−0·5	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Burdwan	29·7	−2·0	..	..	23·9	+0·5	20·2	30	18·0	67·0	−16·8	49.0	1	3	−1·4	4·5	3·0	+0·9	0	5	0	0	0	0	0	0	0	0	0
Krishnagar	33·2	+1·3	36·7	13	23·5	+0·7	19·4	28	62·3	92·0	−15·7	58·0	11	3	−2·0	2·0	1·8	−1·1	1	3	0	0	1	0	0	0	0	0	0
Asansol	31·7	0	34·8	10	22·5	+0·9	18·2	28	7·4	38.5	−71·7	18·9	2	3	−2·5	7·2	4·8	0	0	7	0	0	2	0	0	0	0	0	0
Suri	31·9	..	33·9	9	22·8	..	18·3	28	18·0	61·0	..	42·2	1	4	..	6·6	4·6	..	0	5	0	0	1	0	0	0	0	0	0
Berhampore	32·8	+1·5	35·7	7	24·3	+1·0	19·4	28	24·1	34·0	−58·5	20·6	2	3	−1·5	0·5	0·2	−2·1	0	4	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	31·9	..	35·1	13	22·1	..	18·3	20	87·8	222·0	..	70·8	2	10	..	3·1	1·5	..	0	11	0	0	7	1	0	0	0	0	0

*Data not reliable (a) Mean of 30 days. † Temporarily closed.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Orissa—(contd.)																													
Balasore	31·8	+0·5	33·9	12	23·2	+0·3	19·5	24	115·6	307·1	+143·8	79·1	2	7	+0·6	5·5	2·9	0	0	9	0	0	7	0	0	0	0	0	0
Chandbali	31·1	0	33·3	11	23·3	−0·4	20·0	26, 27	40·6	148·1	−45·7	41·7	2	10	+1·7	7·3	6·4	+0·4	0	12	0	0	0	0	0	0	0	0	0
Cuttack	32·9	+0·8	36·3	13	23·6	0	20·2	27	58·8	95·2	−40·4	20·6	3	8	+1·7	6·5	4·9	+2·8	0	9	0	0	0	0	0	0	0	0	0
Bhubaneswar	31·3	..	33·9	12	23·0	..	19·4	25	70·7	152·0	..	63·1	3	7	..	(a) 9·8	(b) 6·9	..	0	10	0	0	6	0	0	0	0	0	0
Puri	31·4	0	34·2	10	24·9	−0·1	22·3	25	22·6	85·4	−97·7	17·8	1	7	−0·3	12·8	12·1	+1·8	0	10	0	0	1	0	0	0	0	0	0
Gopalpur	31·3	+0·1	33·9	11	23·5	−0·2	20·4	20	18·7	132·0	−86·4	61·2	3	8	+1·1	11·0	9·6	+0·4	0	10	0	0	3	2	0	0	0	0	0
Koraput	26·8	..	28·3	16,21,30	17·9	..	13·9	18	18·1	122·9	..	43·2	1	6	..	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Titilagarh	32·8	..	33·7	25	22·1	..	16·8	28, 29	59·7	105·0	..	45·0	14	4	..	3·5	2·6	..	0	5	0	0	0	0	0	0	0	0	0
Bolangir	31·1	..	34·1	13	21·3	..	16·0	26	27·2	68·6	..	26·4	6	6	..	5·1	4·5	..	0	8	0	0	0	0	0	0	0	0	0
Phulbani	29·7	..	32·3	12,13	19·3	..	12·8	27	57·4	101·5	..	27·1	6	7	..	2·9	2·1	..	0	9	0	0	1	0	0	0	0	0	0
Angul	30·6	−0·8	33·3	12	22·4	+0·4	16·8	27	107·8	174·8	+74·7	39·6	6	7	+1·3	8·1	5·9	+0·9	0	8	0	0	3	0	0	0	0	0	0
Keonjhar	28·5	..	31·9	13	20·2	..	16·1	27	26·2	79·5	..	18·6	6	7	..	5·8	4·0	..	0	8	0	0	0	0	0	0	0	0	0
Sambalpur	31·1	−0·5	33·9	12	21·5	−0·4	14·9	27	28·4	40·4	−14·0	15·1	2	4	+0·5	5·7	3·5	−0·2	0	8	0	0	0	0	0	0	0	0	0
Jharsuguda	31·0	..	33·8	12	21·2	..	15·7	26	79·8	125·4	..	36·8	14	7	..	7·3	5·2	..	0	10	0	0	4	1	0	0	0	0	0
Bihar Plateau																													
Jamshedpur	31·6	−0·5	33·8	10,12,13	22·2	+0·5	17·2	22	56·3	111·1	+43·5	54·0	2	6	+1·8	6·8	4·3	+0·9	0	8	0	0	1	0	0	0	0	0	0
Jamshedpur (P.B.O.)	30·9	..	33·2	12	21·7	..	17·2	22	63·0	100·1	..	65·2	2	4	..	..	..	..	0	8	0	0	5	0	0	0	0	0	0
Chaibasa	30·8	−0·4	33·9	12	21·6	+0·4	17·1	27	32·2	72·2	−2·2	19·6	1	7	+2·6	2·7	1·5	−0·4	0	8	0	0	0	0	0	0	0	0	0
Ranchi	29·4	+1·0	31·2	10,12,14	17·2	−1·8	9·8	31	36·2	59·2	−20·3	35·5	2	3	−1·8	1·6	1·0	−3·7	0	3	0	0	0	0	0	0	0	0	0
Ranchi (C.W.O.)	27·7	..	30·2	19	19·5	..	16·4	27	(i) 25·8	38·0	..	19·6	2	2	..	(i) 10·2	7·5	..	0	4	0	0	0	0	0	0	0	0	0
Daltonganj	32·4	+0·7	35·1	11	20·2	+1·0	14·2	27	12·2	38·0	−11·0	12·6	2	4	+0·8	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Hazaribagh	29·1	+0·4	31·7	12	19·0	−0·2	14·6	26	29·1	74·9	−3·8	43·9	2	5	+0·4	8.8	6·2	−0·7	0	7	0	0	2	1	0	0	0	0	0
Dhanbad (R)																													
Dumka	32·2	+1·0	34·4	9,10	21·3	−0·2	16·0	27, 28, 29	37·4	82·0	−14·8	40·0	1	4	−0·6	5·6	3·9	+2·0	0	6	0	0	2	0	0	0	0	0	0
Bihar Plains																													
Purnea	32·2	+1.1	34·3	9	20·9	−0·7	14·4	29	40·8	84·6	+2·8	46·0	16	4	+0·6	2·0	0·9	−1·2	0	6	0	0	2	2	0	0	0	0	0
Forbesganj	33·5	..	35·8	10	20·7	..	15·5	29	10·2	17·0	..	12·6	2	2	..	5·3	3·0	..	0	3	0	0	0	5	0	0	0	0	0
Darbhanga	32.2	+1·0	34·3	11	23·2	+1·2	17·8	30	0	59·9	+1·5	48·4	1	2	−0·5	4.6	2·6	+0·5	0	3	0	0	2	0	0	0	0	0	0
Motihari	29·6	−1·6	33·0	11	21·3	+0·6	15·8	28, 30	0	24·2	−34·5	24·2	2	1	−1·5	0·8	0·7	−2·0	0	1	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	58·4	−2·8	40·8	2	2	−0·5	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Chapra	32·7	..	34·8	4 days	23·6	..	16·4	30	3·6	40·6	−13·0	31·0	2	2	−0·5	0·9	0·8	..	0	3	0	0	0	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	54·2	−7·3	15·2	1	4	+1·0	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Patna	32·5	+1·1	34·8	9	23·4	+0·7	18·4	28	1·6	51·6	−6·8	40·0	2	3	+0·1	4·6	4·5	+1·3	0	3	0	0	0	0	0	0	0	0	0
Patna (Aerodrome)	32·0	..	34·4	14	21·5	..	15·4	28	2·8	62·6	..	45·6	2	3	..	6·5	3·4	..	0	3	0	0	1	1	0	0	0	0	0
Dehri	31·8	..	34·4	14	21·5	..	16·7	27	26·2	56·4	+6·9	26·4	1	3	+0·4	5·6	4·1	..	0	5	0	0	4	0	0	0	0	0	0
Gaya	31·7	+0·3	33·6	10,14	21·7	+0·6	15·7	26, 27	8·6	35·2	−13·6	16·8	2	3	+0·1	9·6	7·0	+2·2	0	3	0	0	1	0	0	0	0	0	0
Jamui	31·2	..	32·9	9	21·0	..	15·0	29	41·2	66·2	..	38·2	2	3	..	5·8	3·4	..	0	3	0	0	3	0	0	0	0	0	0
Bhagalpur	32·3	..	34·6	15	22·3	..	17·6	7, 28	58·3	111·4	..	60·3	2	3	..	5·6	3·9	..	0	5	0	0	1	0	0	0	0	0	0
Sabour	31·7	+0·5	34·0	9	22·3	+0·6	16.1	29	66·2	101·8	+22·0	71·0	2	4	+1·1	3·5	2·2	−1·8	0	4	0	0	1	0	0	0	0	0	0
Uttar Pradesh (East).																													
Gonda	31·2	−1·5	34·1	10	20·8	+1·1	15·0	27	25·2	116·2	+70·7	76·4	6	4	+2·3	4·0	2·3	−0·9	0	5	0	0	0	0	0	0	0	0	0
Nautanwa	28·3	..	31·7	1	20·7	..	14·4	30	25·8	59·0	..	31·4	2	2	..	3·	2·0	..	0	2	0	0	0	0	0	0	0	0	0
Gorakhpur	33·2	+1·5	36·1	14	21·8	+1·0	16·7	27, 29	25·0	39·0	−36·4	19·0	3	3	+0·7	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Azamgarh	33·3	..	35·5	14	18·1	..	35·5	14	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ballia	33·0	..	35·2	10	21·4	..	15·5	25	14·0	25·4	..	13·8	2	2	..	3·6	2·0	..	0	2	0	0	0	0	0	0	0	0	0
Varanasi (Banaras)	33·1	+0·6	36·1	9	20·9	+0·9	14·6	28	8·2	9·6	−45·8	96·4	2	1	−1·2	3·3	2·5	−0·7	0	1	0	0	0	0	0	0	0	0	0
Varanasi (Banaras) (Babatpur Aerodrome).	32·6	..	35·2	10	20·2	..	13·8	28	1·8	3·2	..	1·4	2	0	..	8·9	5·7	..	0	3	0	0	1	0	0	0	0	0	0
Allahabad (Bamrauli).	33·0	+0·6	36·0	20	20·5	+1·0	14·1	27	25·8	48·9	−10·5	20·1	6	4	+1·5	5·7	3·6	−0·1	0	4	0	0	2	0	0	0	0	0	0
Sultanpur	..	..	..	..	21·1	..	15·1	28	9·0	15·4	..	10·6	2	2	..	3·8	3·5	..	0	2	0	0	0	0	0	0	0	0	0
Faizabad	31·7	..	33·7	9,10,15	19·0	..	12·9	27	24·1	36·5	..	20·7	3	4	..	4·0	2·6	..	0	4	0	0	0	0	0	0	0	0	0
Banda	32·2	..	35·1	18	19·3	..	14·3	28, 30	26·8	272·6	..	109·6	3	5	..	2·7	1·8	..	0	5	0	0	0	0	0	0	0	0	0
Fatehpur	32·0	−1·6	35·0	18	20·4	+1·2	15·1	27	26·5	215·5	+192·9	111·0	7	4	+2·6	4·2	2·5	−0·1	0	4	0	0	2	0	0	0	0	0	0
Kanpur	31·8	−1·1	35·1	18	20·9	+2·0	14·4	28	49·6	284·4	+251·4	99·8	6	5	+3·5	9·2	6·2	+0·6	0	5	0	0	1	0	0	0	0	0	0
Kanpur (Aerodrome)	31·8	..	34·7	16,18	20·2	..	14·7	27	57·4	279·9	..	97·9	6	5	..	..	..	..	0	5	0	0	4	0	0	0	0	0	0
Lucknow (R)																													
Lucknow (Amausi Aerodrome).	31·6	−1·4	35·5	1	19·9	..	..	..	87·2	287·5	+255·0	97·9	6	4	+2·3	8·6	6·3	..	1	5	0	0	3	0	0	0	0	0	0
Hardoi	31·2	..	34·6	15	20·2	..	15·0	27	75·4	489·4	..	241·6	6	5	..	5·9	3·7	..	0	5	0	0	0	0	0	0	0	0	0
Lakhimpur Kheri	30·6	..	33·3	1,2,11	20·4	..	15·8	26	116·6	290·8	..	167·6	6	4	..	3·7	2·2		0	5	0	0	0	0	0	0	0	0	0
Bahraich	31·4	−0·9	34·0	13	20·6	+0.4	15·6	27	73·0	260·8	+220·7	159·2	6	5	+3·3	6·2	4·5	+2·2	0	7	0	0	0	0	0	0	0	0	0

a) Mean of 30 days (b) Mean of 29 days. (R) Register not received. (i) Total or Mean for 22 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2 mm.)	Precipitation (0.3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)																													
Orai	30·7	..	35·0	15	20·3	..	15·0	28	82·4	416.4	..	220·4	3	6	..	9·4	6·7	..	0	6	0	0	0	0	0	0	0	0	0
Jhansi	32·3	—1·6	35·9	1,18	18·8	—0·5	12·8	29	69·7	102·7	+77·6	48·0	5	6	+4·9	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Agra.	32·2	—1·6	36·6	16	18·9	+0·5	13·4	24	63·3	87·8	+69·8	46·3	6	4	+3·2	5·2	3·6	—0·3	0	5	0	0	0	0	0	0	0	0	0
Agra(Aerodrome)	32·4	..	37·2	16	18·5	..	12·9	27	20·0	34·3	..	18·2	4	3	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Mainpuri	31·9	—2·1	35·4	15	20·3	+2·0	15·4	28	153·0	471·3	+447·2	237·2	4	5	+4·0	3·2	2·3	+0·5	0	5	0	0	0	0	0	0	0	0	0
Aligarh	31·7	—2·2	35·4	10,15	18·5	—0·3	13·5	27, 28	74·6	115·8	+107·9	53·6	6	4	+3·7	2·7·3	6·3	+1·3	0	5	0	0	0	0	0	0	0	0	0
Bareilly	31·1	—1·0	34·5	2	19·5	+0·7	15·0	26	128·8	428·0	+395·7	193·1	5	5	+4·1	3·3	2·2	+0·6	1	5	0	0	1	0	0	0	0	0	0
Meerut	31·9	—0 6	35·4	16	17·8	+0·8	11·5	26	..	136·0	+115·4	62·0	7	4	+3·1		3·6	..	0	4	0	0	0	0	0	0	0	0	0
Najibabad	31·2	..	33·9	2	..	..	..	..	6·8	28·8	..	20·0	6	3	..	4·7	4·0	..	0	3	0	0	0	0	0	0	0	0	0
Roorkee	30·3	—0·9	33·6	1	17 8	+1·5	12·7	31	7·3	27.4	+6·1	14·2	6	2	+1·1	5·0	3·2	+1·3	0	3	0	0	0	0	0	0	0	0	0
Dehra Dun	28·5	+0·2	31·5	2	16·1	+0·4	11·8	31	15·3	32·1	+0·1	15·5	6	4	+2·4	3·9	3·8	+0·7	0	4	0	0	1	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
New Delhi	32·0	—1·3	36·3	2	18·8	+0·3	13·7	28	23·4	93·4	+83·2	42·2	5	4	+3·4	9·9	6·8	+1·0	0	4	0	0	0	0	0	0	0	0	0
New Delhi (Palam Aerodrome)	32·1	..	36·9	2	17 3	..	12·2	23	25·4	81·3	..	25·3	6	4	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Hissar	32·8	—2·0	33·5	2	17·5	+0·2	13·2	27	12·4	47·0	+31·5	45·4	5	1	+0·4	6·0	6·1	+1·0	0	2	0	0	0	0	0	0	0	0	0
Karnal	31·7	..	35·6	21	10·5	..	15·0	26, 27	3·3	9·5	..	4·4	6	2	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Patiala	33·2	..	36·7	15	17·4	..	12·2	28	2·0	3·8	+2·0	3·8	5	1	+0·7	5·5	5·4	..	0	1	0	0	0	0	0	0	0	0	0
Ambala	33·3	+0·1	36·8	2	17·5	+0·8	12·1	26	0	0	—22·1	0	..	0	—0·9	6·7	4·9	+1·8	0	0	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	32·1	..	35·0	1	15·3	..	9·2	26	0·6	3·1	..	2·5	5	1	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Chandigarh	32 3	..	37·0	2	16·7	..	11·6	25	0	1·5	..	1·5	5	0	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Ludhiana	33·8	+0·3	37·1	1	17·5	+0·2	12·8	31	0	0	..	0	..	0	..	4·4	2·7	+1·1	0	0	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	33·7	..	37·2	2	15·3	..	10·0	24	0	0	..	0	.	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhatinda	34·6	..	38·4	2	16·3	..	11·2	25	0	0	..	0	..	0	..	(a) 7·7	(a) 5·0	..	0	0	0	0	0	0	0	0	0	0	0
Ferozepur	34·3	..	37·1	13	16·0	..	10·8	27	0	0	..	0	..	0	..	2·3	1·3	..	0	0	0	0	0	0	0	0	0	0	0
Amritsar	33·5	..	36·6	2	15·0	..	9·3	26	0	0	..	0	..	0	..	8·1	5·8	..	0	0	0	0	0	0	0	0	0	0	0
Pathankot (Aerodrome)	32·2	..	35·0	1,2	16·7	..	11·4	25	0	0·5	..	0·5	3	0	..	6·5	5·0	..	0	1	0	0	1	0	0	0	0	0	0
Adampur (Aerodrome) (R)																													
Himachal Pradesh																													
Bilaspur	31·2	..	34·3	2	13·2	..	8·6	26	0	0	..	0	..	0	.	4·3	2·6	..	0	0	0	0	0	1	0	0	0	0	0
Mandi	29·9	..	32·3	2,10	12·2	..	7·9	27	3·4	10·4	..	9·6	4	1	..	2·5	1·8	..	0	3	0	0	4	1	0	0	0	0	0
Jammu and Kashmir																													
Srinagar	23·4	+0·2	28·3	2	4·3	—0·5	0·2	31	0	0	—29·7	0	..	0	—2·8	4·2	3·6	+0·4	0	0	0	0	0	0	0	0	0	0	0
Srinagar (Aerodrome)	23·2	..	27·2	2	6·3	..	1·9	31	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Gulmarg(R)																													
Sonemarg (R)																													
Dras	..	..	..	..	..	..	..	..	..	0·5	19·1	0.5	3	0	—1·9	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Leh	14·0	—0·6	18·4	8	—1·1	—0·3	—4·8	31	0	0	—2·5	0	..	0	—0·3	7·0	6·0	+2·9	0	0	0	0	0	0	0	0	0	0	0
Skardu (R)																													
Gilgit (R)																													
Misgar (R)																													
Jammu†																													
Jammu (Aerodrome)	32·1	..	35·6	2	18·2	..	13·3	26	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Rajasthan (West)																													
Sri Ganganagar	35·8	+0·7	39·6	2	17·7	+2·3	12·8	25	0	0	—2·5	0	..	0	—0·3	3·7	2·5	—4·6	0	0	0	0	0	0	0	0	0	0	0
Churu	33·9	..	38·7	15	16·7	..	11·1	26	0	0	..	0	..	0	..	9·6	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Bikaner	36·3	+0·3	40·4	1	17·7	—1·4	11·0	25	0	0	—5·3	0	..	0	—0·4	6·5	4·6	—1·5	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	37·1	..	40·6	2,3	20·0	..	13·8	24	0	0	..	0	..	0	..	9·9	6·5	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	36·2	..	39·3	3	20·7	..	15·4	31	0	0	—1·8	0	..	0	—0·1	12·3	9·4	..	0	0	0	0	0	0	0	0	0	0	0
Nagaur	35·9	..	39·9	1	19·0	..	14·2	31	0	0	..	0	..	0	..	8·0	6·4	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	37·0	+1·7	40·4	2	20·8	+2·2	15·0	29	0	0	—8·1	0	..	0	—0·5	8·5	7·1	—0·6	0	0	0	0	0	0	0	0	0	0	0
Barmer	37·7	+1·5	40·4	3	22·3	+1·0	17·0	26	0	0	—2·5	0	..	0	—0·5	7·6	6·5	—1·1	0	0	0	0	0	0	0	0	0	0	0
Rajasthan (East)																													
Pilani	33·3	..	37·8	1, 14	17·1	..	11·9	31	2·8	11·2	..	9·2	5	1	..	11·4	7·9	..	0	2	0	0	0	0	0	0	0	0	0
Alwar	32·7	..	37·1	14	17·1	..	12·0	26	13·7	45·7	..	21·2	5	4	.	4·0	2·8	..	0	4	0	0	0	0	0	0	0	0	0
Sikar	33·2	..	37 5	1,2	16·4	..	11·3	27	0	1·0	..	1·0	5	0	..	7·5	6·2	..	0	1	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer Aerodrome)	33·5	—0·8	37·0	1	18·3	+0·4	13·0	28	0	0	—12·2	0	..	0	—0·7	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dholpur	33·0	..	38·0	16	18·3	..	12·6	27,29	35·2	118·5	..	48·4	4	6	..	4·0	2·7	..	0	6	0	0	1	0	0	0	0	0	0

(R) Register not received. (a) Mean of 30 day. † Temporarily closed.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East) —*Contd.*																													
Tonk	34·5	..	38·5	17	18·0	..	11·1	24	0	3·8	..	3·0	5	1	..	7·2	5·3	..	0	2	0	0	0	0	0	0	0	0	0
Ajmer	33·8	+0·7	38·0	1	18·2	+0·1	13·1	26, 27	0	0·2	−9·5	0.2	5	0	−0·7	8·0	5·1	+0·7	1	0	0	0	0	0	0	0	0	0	0
Kotah	33·4	−1·4	37·2	13,15	20.4	−0·9	15·9	31	1·2	13·8	−2·7	12·6	8	1	..	2·3	1·7	+1.7	0	2	0	0	0	0	0	0	0	0	0
Chambal	34·3	..	37·2	1,18	17·7	..	11.6	27	1.0	6·4	..	5·4	8	1	..	7·5	4·5	..	0	2	0	0	0	0	0	0	0	0	0
Jhalawar	33.7	+0·4	37·2	18	18.6	+0·8	12.7	27	0	2·8	−11·2	2·8	8	1	−0·5	5·7	3·5	+0·9	0	1	0	0	0	0	0	0	0	0	0
Udaipur	33·6	+0·4	36·2	1	16·3	−1·3	10·9	28	0	0	−14·5	0	..	0	−1·1	4·1	2·3	..	0	0	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam)	35.7	..	39·9	26	20·5	..	13.7	31	0	0	..	0	..	0	..	4·8	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	32·1	−1·4	36.0	16	18·0	+0·1	12·2	26, 27	13·5	130·6	+122·2	63·4	5	6	+5·4	6·2	3·5	..	0	7	0	0	2	0	0	0	0	0	0
Sheopur Kalan	33·3	..	37·2	16	17·6	..	12·4	27	18·4	43·4	..	43·0	8	1	..	6·9	6·3	..	0	2	0	0	0	0	0	0	0	0	0
Guna	31·6	−0·4	34·9	18	16·8	0	9·5	27	2·4	5·8	−20·9	3.0	9	1	−0·6	8·8	5·4	..	0	3	0	0	2	1	0	0	0	0	0
Rajgarh	33·3	..	37·1	15,17,18	17·7	..	10·9	27	0	0	..	0	..	0	..	5·7	5·9	..	0	0	0	0	0	0	0	0	0	0	0
Neemuch	33·1	+0·3	35·7	1,14	18·7	+0.6	13·8	28	0	0	−15·7	0	..	0	−0·9	7·9	5·9	−0·4	0	0	0	0	0	0	0	0	0	0	0
Ratlam	33·4	..	36·1	16,18	18·4	..	13·1	28	3.5	3·5	..	2·1	9	0	..	5·0	2·8	..	0	2	0	0	0	0	0	0	0	0	0
Alirajpur	33·8	..	36·0	19	17·9	..	12·0	29	0	3·0	..	3·0	9	1	..	6.2	4·3	..	0	1	0	0	0	0	0	0	0	0	0
Indore	31·8	+0·3	34·3	17,18	17·5	+0·7	11·8	28, 31	5·0	23·6	−7·1	23·1	10	1	−1·0	12·3	8·9	..	0	2	0	0	3	0	0	0	0	0	0
Ujjain	33·2	..	36·2	18	16·3	..	10.2	28	..	4·6	..	4·0	11	1	..	..	5·6	..	0	2	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	31·3	+0·2	34.0	15,19	17·6	−0·2	12·1	30	14·5	51·9	+9·7	33·5	4	3	+0·6	11·1	7·0	+1.7	0	4	0	0	2	0	0	0	0	0	0
Khandwa	33·4	−0·2	36·7	2	18.2	−0.7	10·4	30	33·0	70 0	+34·7	30·8	4	4	+2·0	7·4	5·3	+1·1	0	4	0	0	1	0	0	0	0	0	0
Hoshangabad	31·9	−0·2	35·6	17,19	19·1	−0.2	12·9	28	25.2	45.0	+12·5	20·0	3	4	+2·0	4·7	3·4	+1·3	0	4	0	0	1	0	0	0	0	0	0
Betul	29·5	..	32·3	19	16·2	..	8·5	31	30.8	73·4	..	23·8	11	6	..	7·2	3·9	..	0	7	0	0	1	0	0	0	0	0	0
Chhindwara	29·5	..	32·7	19,20	16·7	..	9·7	28	43·1	50·1	..	32·1	5	4	..	4·4	2·0	..	0	7	0	0	0	0	0	0	0	0	0
Seoni	29·4	−0·8	32·4	18	18·2	+0·4	13·1	19	61·4	132·6	+74·9	42·4	9	8	+4·9	3 9	2·2	−1·7	0	9	0	0	3	0	0	0	0	0	0
Sagar	29·4	−1·8	32 7	18	19·3	+0·5	15·2	31	45·0	153·0	+125·3	79·0	3	9	+7·1	6·3	4·9	..	0	10	0	0	4	0	0	0	0	0	0
Nowgong	32·3	−0·3	36·7	16	17·9	−0·3	11·5	28	31·4	176.6	+147·9	63 0	7	7	+5·5	5·3	3·2	+1·3	0	8	0	0	3	0	0	0	0	0	0
Madhya Pradesh (East)																													
Sutna	31·1	−0·2	34·0	17	19·1	+0·3	13·1	27	82·3	144.5	+95·5	76·8	3	7	+4·8	6·8	4·0	+0·6	0	8	0	0	2	0	0	0	0	0	0
Sidhi	32·2	..	34·9	10	18·6	..	12·2	29	4·0	13.2	..	6·0	7	3	..	6·3	3·4	..	0	3	0	0	0	0	0	0	0	0	0
Umaria	30·8	+0·4	33·8	17	17·5	+0·2	11·1	25, 28	15 0	50.2	−12·5	15·2	3	6	+3·3	5·7	3·2	+0·3	0	7	0	0	1	0	0	0	0	0	0
Jabalpur	31·6	+0·6	34·7	17	18·8	+1·3	12·4	30	50 9	97.2	+49·5	20·1	7	7	+4·7	4·9	3·2	+0·9	1	7	0	0	3	2	0	0	0	0	0
Mandla	29·8	..	33·0	18	17·6	..	10·4	29	69·8	111.8	..	37·2	12	9	..	1·3	0·8	..	0	10	0	0	6	5	0	0	0	0	0
Pendra	28·3	−0.1	30·9	18	18·1	+0·3	12·6	26	33·5	90·5	+14·6	28·6	2	7	+2·9	6·8	4·7	..	0	8	0	0	3	1	0	0	0	0	0
Ambikapur	29·3	..	31·4	9	17·5	..	11·4	27	36·9	71.5	..	56·2	2	4	..	9.9	6·6	..	3	5	0	0	1	3	0	0	0	0	0
Champa	30.8	..	33·5	19	21·0	..	15·4	26	59·6	98.2	..	49·8	7	7	..	5·1	4·2	..	1	9	0	0	6	0	0	0	0	0	0
Raigarh	31·4	..	33·6	12,19	20·9	..	14·6	29	32·6	55.2	..	11·2	7	5	.	4·5	3·5	..	0	7	0	0	0	0	0	0	0	0	0
Raipur	30.7	−0·7	32·8	1	25·8	−0.1	14·4	26	53.1	107.1	+52·0	27·7	6	7	+3·7	5·7	4·5	−1·0	0	9	0	0	4	0	0	0	0	0	0
Kanker	30·1	−0·2	32·6	19	20·5	+0.9	15·3	28	22.3	72.2	−46·6	20·2	2	6	+0 7	3·3	2·0	−1·7	0	8	0	0	1	0	0	0	0	0	0
Jagdalpur	29·5	−0.2	31·1	19	19·5	+0·1	14·9	26	70·2	136 9	+29·2	42·6	1	9	+3·3	5·6	3·4	..	0	12	0	0	4	0	0	0	0	0	0
Gujarat																													
Deesa	37·5	..	39·5	1	19·1	..	13·4	26	0	0	..	0	.	0	..	7·8	5·7	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	37·8	..	39·8	5,11	20·6	..	13.8	26	0	0	..	0	..	0	..	6.5	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Idar	36·5	..	38·9	1	19·7	..	15·0	25	0	0	..	0	.	0	..	6·1	4·1	..	0	0	0	0	0	1	0	0	0	0	0
Ahmedabad	37·2	+1·0	39·9	1	19·9	−0·9	14·4	28	7.0	7.0	−1·9	7 0	10	1	+0·3	5·5	3·9	−0·9	0	1	0	0	0	1	0	0	0	1	0
Dohad	34·4	+0.6	36·5	1	19·7	+0·3	13·9	30	4.4	11.8	−23 8	11·8	9	1	−1·0	12·3	10·3	..	0	1	0	0	1	0	0	0	0	0	0
Baroda	36·0	+0·8	38·4	2	20·0	+1·1	13·4	27	24.8	24.8	−19·9	24 8	10	1	−0·3	4·4	3·0	−0·1	0	1	0	0	1	0	0	0	0	0	0
Baroda (Aerodrome)	36·2	..	38·7	2	19·7	..	12·8	27	18.4	19.0	..	19·0	10	1	..	8.4	6·4	..	0	1	0	0	1	0	0	0	0	0	0
Broach	36·6	..	39.0	18	21·5	..	15·4	27, 31	0	0·8	..	0·4	9,10	0	..	6·9	5·4	..	0	2	0	0	0	2	0	0	0	0	0
Surat	36·0	+1·5	39.8	1	22·3	+0	17·0	31	0	0	−38·3	0	..	0	−2·0	8·0	7·6	+3·4	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Naliya	35·1	..	38·5	10	19·0	..	14·2	27	0	0	..	0	..	0	..	14.3	10·3	..	0	0	0	0	0	20	0	0	0	0	0
Bhuj (Aerodrome)	37 6	+2·0	41·1	5	20·7	−0·7	17·4	31	0	0	−8·4	0	..	0	−0·5	10·5	8·5	−1·2	0	0	0	0	0	0	0	0	0	0	0
Bhutakia Bhimasar	37·9	..	41.4	5	23·0	..	18.2	30	0	0	..	0	..	0	..	15.4	14·3	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	34·9	..	39·7	1	23·8	..	21·7	28	0	0	..	0	..	0	..	13·6	14·0	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi	32·1	..	38·4	1	22·2	..	18.9	26	0	0	..	0	..	0	..	23·1	19·2	..	0	0	0	0	0	0	0	0	0	0	0
Dwarka	29·7	−1·0	32·2	25	23·0	−1·2	20·7	29	0	0	−6.3	0	..	0	−0·3	13·5	11.3	+0·2	0	0	0	0	0	1	0	0	0	0	0
Porbander	31·7	..	36·0	26,29	22·5	.	19·6	25	0	0	..	0	..	0	.	16·1	13·2	..	0	0	0	0	0	3	0	0	0	0	0
Porbander (Aerodrome)	34·1	..	38·7	1·	21.5	..	16·6	27	..	..	..	..	..	..	..	17.9	12·7	..	..	..	0	0	0	3	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	X-ray squall	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29	
Saurashtra and Kutch—*Contd.*																															
Jamnagar	35·2	+0.6	37.8	10	21·6	+0.6	16·4	31	0	0	−7·9	0	..	0	−0.5	..	..	..	0	0	0	0	0	2	0	0	0	0	0	
Rajkot (Aerodrome)	36·7	+1·3	38.6	5	20·5	+0·1	15·6	28	0	0	−14·5	0	..	0	−1·1	16·2	13·6	..	0	0	0	0	0	7	0	0	0	0	0	
Surendranagar	37·2	..	39·2	5	23·3	..	18·2	28,31	0	0	..	0	..	0	..	9.9	8.5	..	0	0	0	0	0	0	0	0	0	0	0	
Bhavnagar	36·9	+1.5	39·7	1,18	21·7	+0·2	16·8	30	0	0	−22·9	0	..	0	−0·9	8·6	7·4	+1·9	0	0	0	0	0	0	0	0	0	0	0	
Bhavnagar (Aerodrome.)	36·2	..	40·0	1,2	22·3	..	17·6	29,30	0	0	..	0	..	0	..	15·9	13·9	..	0	0	0	0	0	0	0	0	0	0	0	
Mahuva	35·0	..	38·8	1,4	21·9	..	18·1	29,31	0	0	..	0	..	0	..	11·1	8·4	..	0	0	0	0	1	0	0	0	0	0	0	
Keshod	36·0	..	38.5	1	19.9	..	14.7	31	0	0	..	0	..	0	..	16·8	12·9	..	0	0	0	0	0	9	0	0	0	0	0	
Veraval	32·6	..	38·6	1	21·4	..	18·0	26	0	0	−15·7	0	..	0	−0 8	17·5	13·4	..	0	0	0	0	0	3	0	0	0	0	0	
Konkan																															
Dahanu	32·0	+0·5	36·1	21	23·0	−0·2	18.4	29	28·9	135·1	+113.3	99·0	9	2	+0·2	15·7	11·1	+0·8	0	3	0	0	0	0	0	0	0	0	0	
Bombay (Colaba)	32·4	+0·8	36·2	24	24·4	+0·2	21·5	7	38·9	244·7	+180.2	78.6	8	6	+2.9	7.7	5·9	−3·9	0	6	0	0	1	0	0	0	0	1	0	
Bombay (Santacruz Aerodrome).	32·4	+0·6	35·8	22	22·8	+0·7	19·4	30	69·5	193·9	+95·1	116·3	8	4	0	6·6	4·9	..	0	5	0	0	1	1	0	0	0	0	0	
Alibag	31·2	−0.2	35·4	24	23·2	−0·4	20·2	30	..	62.7	−65·1	19·9	10	4	−1·1	..	9·1	+0·7	0	8	0	0	1	0	0	0	0	0	0	
Harnai	30·2	−0·2	34·6	24	24·6	+0·8	20·7	8	22·9	71·6	+6·8	41·0	7	4	+1·6	10·4	8·2	−1·8	0	5	0	0	0	0	0	0	0	0	0	
Ratnagiri	31·1	..	35·6	24	23·1	..	18·0	31	13·8	78·3	−31·7	31·6	7	3	−2·4	..	..	..	1	6	0	0	1	0	0	0	0	0	0	
Devgad	31·4	+0·7	35·9	23	23·9	−0·5	20·5	31	5·0	21·6	−50·8	9·0	9	2	−2·8	12·0	9·1	−0·6	0	4	0	0	4	0	0	0	0	0	0	
Vengurla	31·4	..	35·8	24	22·9	..	17·6	31	11·0	41·9	..	9·4	1	6	..	9·2	4.9	..	2	8	0	0	4	1	0	0	0	0	0	
Maharashtra (Including Marathwada)																															
Nandurbar	34.6	..	37·0	2	21·4	..	18·2	23,28	25·5	28·5	..	18·5	10	2	..	8·7	5·5	..	0	2	0	0	0	0	0	0	0	0	0	
Jalgaon	34·4	..	36·9	2	18.3	..	12·2	31	5·0	56·8	+20·2	26.0	10	4	+2·2	12·2	9·4	..	0	5	0	0	3	0	0	0	0	0	0	
Malegaon	33·9	+0·7	36·0	19	18·2	−0·6	11·2	30	27·9	29·3	−14·1	19·0	11	2	−0·7	9·8	6·4	+0·1	0	4	0	0	0	0	0	0	0	0	0	
Deolali	31·6	..	34·2	21	17·9	..	11·0	30	3·8	54·6	..	54.6	13	1	..	12·5	7·9	..	0	1	0	0	1	0	0	0	0	0	0	
Aurangabad	31·9	−0·2	34·4	19	19·1	−0·3	..	..	22·8	65·2	+19.7	32·4	11	5	+2.2	10·3	8·2	+0·3	0	7	0	0	3	0	0	0	0	0	0	
Aurangabad (Chikalthana Aerodrome)	31·2	..	33·9	1	17·2	..	9·4	30	7·7	72·9	..	31·4	12	4	..	13·3	9·2	..	0	7	0	0	0	0	0	0	0	0	0	
Khandala	..	..	..	..	..	..	..	..	..	93·0	−97·1	24·6	7	6	−0·3	..	..	..	0	9	..	..	..	..	..	..	..	..	..	
Ahmednagar	31·8	+0·4	37·6	21	18·6	−0·1	13·4	30	38·0	93·1	+38·0	37·9	13	5	+1·6	10·1	6·4	−1·3	0	6	0	0	0	0	0	0	0	0	0	
Bhir	32·2	..	34·9	1	18·4	..	10·5	31	6·8	166·8	..	126·4	12	4	..	(a) 10·0	(a) 5·6	..	0	6	0	0	0	0	0	0	0	0	0	
Parbhani	31·8	..	34·5	20	18·9	..	14·0	30	62·6	96·6	+43·5	49·6	4	4	+1·0	10·4	7·2	..	0	6	0	0	3	0	0	0	0	0	0	
Nanded	32·3	..	35.0	18	..	..	..	..	5·6	28.8	..	19·6	4	3	..	6·7	4·6	..	0	3	0	0	1	0	0	0	0	0	0	
Poona	31 5	−0·4	34·2	19	18·8	−0·3	11·2	31	5·0	18·8	−71·1	13·8	13	2	−3·1	5·9	3·3	−3·1	1	3	0	0	0	2	0	0	0	0	0	
Poona (Lohagaon Aerodrome)	31·1	..	33·7	2	18·8	..	12.6	30	13·7	30·5	..	18·3	13	2	..	..	..	..	0	4	0	0	0	1	0	0	0	0	0	
Baramati	30·9	..	33·5	16,20	19·6	..	14·7	30	4·0	29·9	..	14·5	13	3	..	10·7	9·6	..	0	5	0	0	0	0	0	0	0	0	0	
Jeur	32·1	..	34·0	17,20	18·6	..	14·0	31	4·6	56·2	..	38·4	12	4	..	12·2	8·2	..	0	4	0	0	0	0	0	0	0	0	0	
Sholapur	32·7	+0·1	34·9	17	20·7	+0·3	16·8	30	5·7	15·7	−61·5	5·1	3	3	−1·3	11·2	8·6	+0·9	0	5	0	0	1	0	0	0	0	0	0	
Miraj	31·1	+0·6	34·0	21	20·0	−0·2	14·3	31	11·6	43·0	−61.7	29·4	3	3	−3·4	..	..	..	0	3	0	0	2	0	0	0	0	0	0	
Kolhapur	30·7	+0·2	33·7	20	20·0	+0·1	15·3	30	9·4	14·2	−118·4	7·7	8	1	−6·9	14·6	9·6	+0·7	2	7	0	0	0	2	0	0	0	0	0	
Vidarbha																															
Buldhana	29·9	..	32·5	21	19·4	..	15·6	30	11·6	96·8	..	70·0	3	4	..	7·1	5·3	..	0	4	0	0	0	0	0	0	0	0	0	
Akola	32·7	−1 0	35·8	19	18·5	−0·9	10.5	31	108·2	130·4	+84·2	74·0	12	4	+1·5	7·2	4·9	+0·6	0	5	0	0	0	0	0	0	0	0	0	
Amravati	32·5	−0·2	35·5	19,20	19·9	−0·5	15·3	28	17·6	48·2	−5·8	20·5	3	3	+0.4	9·5	6·7	+1·6	0	5	0	0	2	0	0	0	0	0	0	
Yeotmal	31·0	..	34·0	20	19·8	..	15·1	30	28·8	42·7	..	18·8	4	5	..	9·9	7·0	..	0	6	0	0	0	0	0	0	0	0	0	
Nagpur	32·1	0	34·6	18	19·0	−0·7	11·6	25	27·1	48·2	−3·8	22·4	12	6	+2·9	8·8	6·8	..	1	7	0	0	6	1	0	0	0	1	0	
Gondia	31·1	..	33·5	18	20·3	..	15·4	26,28	42·0	101·2	..	25·8	3	8	..	4·2	2·3	..	0	9	0	0	0	0	0	0	0	0	0	
Brahmapuri	31·8	..	34·1	18	21·3	..	16·2	26,28	17·2	132·5	..	65·2	5	6	..	3·0	2·2	..	0	8	0	0	0	0	0	0	0	0	0	
Chanda	31·6	−0·5	34·2	19	20.5	+0·4	14·6	25,26	43·4	51·8	0	28·0	13	5	+2·1	6·2	3·3	+0·6	0	5	0	0	6	0	0	0	0	0	0	
Sironcha	32·7	..	35·2	18	22·1	..	17·0	27	29·2	93·2	..	39·4	12	7	..	5·1	3·2	..	0	8	0	0	1	0	0	0	0	0	0	
Coastal Andhra Pradesh																															
Nellore	32·6	0	35·6	15	24.7	+0·3	23·1	25	30·5	101·1	−141 7	46·6	24	7	−1·9	8·4	6·0	+1·3	0	10	0	0	2	0	0	0	0	0	0	
Ongole	33·2	..	36·3	13	25·5	..	21·9	27	0	85·3	..	30·4	25	5	..	7 1	5·0	..	0	6	0	0	0	0	0	0	0	0	0	
Rentachintala	33·6	+0·5	36·2	14	23·7	+0·5	21·5	17	15·0	88·8	−87·9	15·0	27	4	−3·6	5·3	2·5	−4·3	0	4	0	0	0	0	0	0	0	0	0	
Gannavaram	32·2	..	34·4	11	24·2	..	22·5	17	26·4	94·0	.	23·0	28	6	..	13·0	8·4	..	0	10	0	0	3	0	0	0	0	0	0	
Masulipatam	31·1	−0·3	33·6	15	25·1	+0·7	23·5	3,17	4·5	90.2	−128·2	32 0	30	7	−1·5	8·4	6·7	+0·9	1	9	0	0	0	0	0	0	0	0	0	
Nidadavolu	31·8	..	33·7	19,20	23·3	..	20·8	16	7·0	80·2	..	54·0	2	3	..	7·7	5·1	..	0	4	0	0	1	0	0	0	0	0	0	
Kakinada	31·4	+0·3	34·4	10	24.7	+0·3	22·5	27	10·1	172·9	—43·5	81·6	2	6	−2.6	9·8	7·1	—0·8	1	7	0	0	0	0	0	0	0	0	0	
Visakhapatnam	31·8	−0·5	33·5	13,20	23·9	−0·5	21·5	31	79·9	145·3	−53·6	39.3	5	11	+2·7	11·3	7·0	+0·2	1	16	0	0	6	0	0	0	0	0	0	
Calingapatam	31·2	0	34.4	20	23·9	−0·4	21·3	27	36·6	68·0	−131·9	24·3	6	7	−0.3	9·0	6·6	−1·0	0	8	0	0	0	0	0	0	0	0	0	
Telangana																															
Ramagundam	33·1	..	35·8	14,20, 21	..	..	..	..	44.8	10·2	..	61·2	3	3	..	6·6	3·4	..	0	4	0	0	0	0	0	0	0	0	0	
Nizamabad	31·6	−0·2	38·9	20	20·3	+0·3	16·0	23,30	42·0	94·0	+43·2	42·0	4,5	4	+1·0	8·6	6·1	+2·4	0	5	0	0	0	0	0	0	0	0	0	
Mahbubnagar	31·2	..	33·0	18	20·8	..	18·9	28	41·4	80·0	..	41·6	3	3	..	10·2	7·6	..	0	4	0	0	2	0	0	0	0	0	0	
Nagarjunakonda	33 3	..	36·1	14	23·8	..	19·5	17	22·8	49·8	..	24·5	27	4	..	11·5	8·0	..	2	6	0	0	5	0	0	0	0	0	0	
Hyderabad (Begumpet Aerodrome).	30·5	−0·1	32·3	20	19·4	+0·1	15·6	29	1·8	13·9	48·3	8·0	2	3	−1·3	11·7	7·4	−0·8	0	3	0	0	3	0	0	0	0	0	0	

(a) Mean of 30 days

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean Minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Telangana—*Contd.*																													
Hakimpet	29·8	..	31.9	20	20·4	..	17·4	29	2·3	37·6	..	24·9	2	2	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Hanamkonda	32·1	+0·2	35·2	20	22·0	+0·4	17·9	26	19·8	54·0	—12·3	33·8	2	4	—0·1	9·0	5·2	+0.4	0	5	0	0	0	0	0	0	0	0	0
Bhadrachallam	33·0	..	35·4	14	22·7	..	19·2	28	6·6	53·6	..	25·0	11	6	..	5·9	3·9	..	0	6	0	0	0	0	0	0	0	0	0
Khammameth	33·1	..	36·1	14	22·9	..	20·0	17,28	32·8	58·4	..	27·2	2	5	..	5·4	3·4	..	0	5	0	0	0	0	0	0	0	0	0
Rayalaseema																													
Arogyavaram	29·0	..	31·6	15	20·0	..	17·1	30	4·2	64·8	..	46·6	1	4	..	7·4	4·5	..	0	4	0	0	1	0	0	0	0	0	0
Cuddapah	32·6	—0·7	35·5	15	23·1	—0·5	20·6	17,20	35·0	58·4	—65·0	22·4	27	5	—1·8	2·4	1·5	—4·5	0	5	0	0	0	0	0	0	0	0	0
Anantapur	32·2	..	34·5	16	22.9	..	19·8	20	14·3	59·5	—40·6	44·2	1	2	—3·5	12·7 (a)	10·7 (a)	..	0	4	0	0	1	0	0	0	0	0	0
Kurnool	33·1	+0·5	35·8	15	22·5	+0·4	19·9	18	13·8	27·1	—54·2	8·3	25	5	+0.1	7·6	6·9	+1·9	0	5	0	0	3	0	0	0	0	0	0
Madras State																													
Palayamkottai	34·4	..	38·8	12	24·6	..	21·9	24	64·6	196·0	+16·9	65·8	22	8	—0·6	11·4	8·9	..	0	12	0	0	3	0	0	0	0	0	0
Tuticorin	31·7	..	36·1	6	24·4	..	21·8	31	19·0	153·7	..	36·0	22	10	..	17.9	13·3	..	0	11	0	0	0	0	0	0	0	0	0
Pamban	30·6	—0·5	31·9	4days	24·9	—0·5	22·4	21	170·2	307·2	+90·5	85·6	26	10	+0·6	11·3	11·1	—0·5	0	10	0	0	0	0	0	0	0	0	0
Tondi	31·7	..	37·0	1	24·8	..	23·1	6	57·6	103·4	..	38·4	31	5	..	16·1	13·4	..	0	8	0	0	2	0	0	0	0	0	0
Mathurai	33·6	+1·3	37·1	11	24·0	+0·3	21·6	24	15·1	72·6	—115·9	25·0	20	5	—5·2	5·9	4·8	+0·5	0	9	0	0	0	0	0	0	0	0	0
Mathurai (Aerodrome)	33·5	..	36·2	8,12	23·7	..	21.0	24	51·0	129·4	..	30·6	25	9	..	10·6	9·2	..	2	9	0	0	10	0	0	0	0	0	0
Adirampattinam	31·9	..	34·5	8,9,20	24·4	..	22·0	1	175·0	193·5	..	79 2	24	7	..	11·9	9·9	..	1	9	0	0	0	0	0	0	0	0	0
Vedaranyam	31·8	..	34·1	1	24·8	..	21·6	2	43·0	190·0	..	65·0	31	8	..	9·5	7·5	..	1	10	0	0	0	0	0	0	0	0	0
Nagapattinam	31·8	+0·3	34·8	17	24·9	+0·2	23·2	2,24	76·0	334·0	+65·3	76·0	23	9	—1·2	11 8	9·8	+2·9	0	10	0	0	4	0	0	0	0	0	0
Tiruchirapalli	33·5	+1·1	36·4	15	24·3	+1·0	22·8	20	18·0	45·6	—137·5	15·0	20	5	—4·5	15·3	12·1	+2·9	1	7	0	0	6	0	0	0	0	0	0
Coimbatore	31·7	+0·8	35·6	16	21·7	+0·2	19·5	8	7·3	151·2	—9.1	51·2	29	11	+1·3	11·7	9·0	+4·7	1	13	0	0	8	0	0	0	0	0	0
Coimbatore (Peelamedu Aerodrome)	31·6	..	34·5	16	21·6	..	19·4	8	14·1	184·8	..	65·2	29	13	..	19·6	18·0	..	0	14	0	0	9	0	0	0	0	1	0
Salem	..	..	..	..	23·0	+0·8	21·4	6	34·0	160·2	—3·4	46.8	1	7	—2·7	7·0	6·5	+2·6	0	9	0	0	3	0	0	0	0	0	0
Kallakurichi	33·0	..	36·1	16	23·6	..	22·0	10	49·2	147·6	..	40·0	31	5	..	8·1	5·9	..	1	8	0	0	2	0	0	0	0	0	0
Cuddalore	31·8	+0·4	35·4	11	23·4	—0·6	20·6	21	41·8	174·7	—118·2	70·6	24	12	+1·2	8·8	6·5	+1·5	1	11	0	0	1	0	0	0	0	0	0
Tirupattur	31·7	..	35·4	16	21·7	..	18·5	20	41·7	137·7	..	46·7	2	6	..	4·5	2·7	..	0	6	0	0	1	0	0	0	0	0	0
Vellore	32·7	+1·1	35·3	10,11	22·4	—0·3	20·1	20	44·4	151·6	—21·1	47·0	1	8	—1·2	7·6	5 8	+2·6	0	9	0	0	4	0	0	0	0	0	0
Tambaram (Aerodrome)	33·1	..	36·5	16	24·2	..	22·3	1	12·2	111·2	..	47·5	26	7	..	..	..	..	0	10	0	0	7	0	0	0	0	0	0
Madras	32·4	+0·1	35·0	10,11	24·5	+0·6	22·5	2	33·4	209·0	—96·8	65·8	26	6	—4·7	12·6	8·5	—2·3	1	12	0	0	6	0	0	0	0	2	0
Madras (Nungambakkam)	32·2	..	35·0	10	24·2	..	22·4	2	..	233.5	..	75.0	26	7	..	..	4·7	..	0	11	0	0	7	0	0	0	0	0	0
Coastal Mysore																													
Karwar	31.0	..	35·9	24	23·3	..	20·0	31	20·7	40·7	—102·3	16.8	28	3	—4·1	11·4	7·3	..	1	7	0	0	0	0	0	0	0	0	0
Honavar	31·1	0	35·0	24	22·6	—0·5	20·4	6	26·0	117·1	+10·7	60·2	3	6	—0·2	9·2	7·8	+4·3	0	10	0	0	7	0	0	0	0	0	0
Mangalore	30·2	+0·3	33·8	24	23·3	—0·4	21·6	3	6·5	243 0	+36·0	78.4	28	8	—2·4	8·3	6·5	—0·1	0	12	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe Aerodrome)	30·3	..	34·0	23	22·7	..	20·9	10	36·1	178.4	..	59·4	28	8	..	8·8 (a)	6·2	..	0	13	0	0	12	5	0	0	0	0	0
Interior Mysore (North)																													
Bidar	29·9	+0·1	32·3	21	20·4	—0·5	17·8	29	5·8	32·5	—23·6	24·5	4	2	—1·7	13·0	10·2	+1·3	0	3	0	0	0	0	0	0	0	0	0
Gulbarga	32·3	—0·2	35·0	15,17	21·0	+0·4	18·0	29	0	7·0	—61·3	7.0	3	1	—3·0	12·9	11·7	+2·7	0	1	0	0	0	0	0	0	0	0	0
Bijapur	31·5	0	34·0	17	20·9	+0·5	18·0	30	13·2	41·8	—31·6	26.0	13	2	—2·1	8·5	6·7	+1·4	0	6	0	0	0	0	0	0	0	0	0
Belgaum	29·5	—0·8	33·6	18	19·4	+1·1	15·7	31	15.8	21·2	—97·9	10·4	27	3	—4·5	8·8 (a)	6·9	—0·9	1	4	0	0	0	0	0	0	0	0	0
Belgaum (Sambre Aerodrome)	28·9	..	32·0	21	19·3	..	16·5	30	36·1	37·3	..	23·8	27	2	..	..	..	..	0	3	0	0	2	2	0	0	0	0	0
Gadag	31·1	+0·7	34·0	18	20·5	—0·1	18·2	11	31·0	35·8	—61·0	30·6	27	2	—5·3	11·7	9·7	+1·5	0	4	0	0	0	0	0	0	0	0	0
Raichur	32·5	+0·3	35·0	15	22·5	+0·2	20·4	30	95·1	121.5	+44.0	96·6	27	3	—1·3	12·7	11·0	+1·8	0	5	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	32·0	—0·1	34·8	15	22·9	+1·1	21·7	25	36.5	49·5	—56·2	30·0	27	4	—1·9	11·0	8·2	+3·2	0	5	0	0	0	0	0	0	0	0	0
Chitaldrug	29·5	—0·1	32·1	16,18	20·7	+0·6	18·0	10	1·8	69·6	—51·3	27·6	1	5	—1·4	10·4	7·8	+1·8	0	7	0	0	0	0	0	0	0	0	0
Shimoga	29·8	..	32·4	16	19·2	..	16·0	26	26.8	269·4	..	105·6	28	8	..	7·5	4·4	..	0	9	0	0	1	0	0	0	0	0	0
Balehonnur	26.1	0	28·6	21,23	17·3	—0·7	14·2	9	..	291·1	+92·2	111·8	28	9	—2·4	..	..	..	0	12	0	0	0	0	0	0	0	0	0
Hassan	28·2	+0·3	31·5	15	18·7	+0·5	16·4	18	13·4	188·4	+34·2	51·6	29	8	—1·1	8·7	6·6	+1·3	0	10	0	0	4	0	0	0	0	0	0
Mysore	29·7	+0·7	31·5	16	19·3	—0·1	16·3	10	19·5	125·5	—23·8	64·8	31	6	—2·6	12·5	20.0	+12·6	0	6	0	0	2	0	0	0	0	0	0
Bangalore (Central Observatory)	28·3	+0·7	31·1	15,16	18·9	+0·6	16·8	20	25·8	163·6	+14·5	80·2	2	7	—1·5	11·9	9·5	+2·9	2	9	0	0	1	2	0	0	0	0	0
Bangalore (Aerodrome)	28·9	..	31·5	16	19·4	..	17·3	10	25·5	126·5	..	57·9	2	6	..	..	..	..	2	8	0	0	5	0	0	0	0	0	0
Kerala																													
Kozhikode	30·0	—0·2	32·4	24	23·0	—0·8	21·2	6,13	47·0	228·2	—32·7	79·8	29	6	—5·2	10·7	8·1	+1·0	0	12	0	0	6	0	0	0	0	0	0
Palghat	31·1	..	34·2	24	23·0	..	21·6	6	48·9	345·4	..	78·6	27	14	..	11·4	9·1	..	0	16	0	0	10	0	0	0	0	0	0
Fort Cochin	29·0	—0·1	31·0	26,29	24·4	+0·3	23·2	2	11·4	261.9	—77·7	84·1	30	13	—1·2	12·2	8·7	+2·7	0	16	0	0	10	0	0	0	0	0	0
Cochin (Naval Air Station)	30·1	..	31·7	31	23·8	..	22·3	2,9	8·0	217·5	..	65·5	30	13	..	11·4	8·1	..	0	16	0	0	13	0	0	0	0	2	0
Alleppey	30·0	..	32·0	29	23·7	..	22·1	11	11·6	197·4	..	66·0	31	10	..	14·5	9·5	..	0	11	0	0	5	0	0	0	0	0	0
Punalur	32·0	..	34·2	16,18	21·9	..	18 3	26	103·0	378·4	..	164·6	26	10	..	5·4	3·2	..	0	13	0	0	0	0	0	0	0	0	0
Trivandrum	29·9	—0·1	31·3	17,18, 20	23·0	—0·4	21.6	9,24	158·8	178·1	—94·4	66·3	26	8	—4·2	11·9	7·7	+1.7	0	14	0	0	13	1	0	0	0	0	0
Trivandrum (Aerodrome)	29·5	..	31·0	18	23·3	..	21·8	24	..	169.2	..	68·8	29	7	..	..	6·1	..	0	11	0	0	8	0	0	0	0	0	0

(a) Mean of 30 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm or more)		Wind speed kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (1.0 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Arabian Sea Islands																													
Minicoy*																													
Amini Divi*																													
Hill Stations excluding Kashmir																													
Walong (R)																													
Kohima	23·3	..	29·8	1	16·7	..	12·1	27	58·0	85·2	..	21·5	12	7	..	..	..	..	0	12	0	0	0	13	0	0	0	0	0
Aijal	25·4	..	28·6	3	18·7	..	15·7	28	31·4	181·0	..	136·0	11	3	..	0·9	0·8	..	0	5	0	0	0	0	0	0	0	0	0
Shillong	22·5	+0·8	25·8	3	12·3	−0·4	8·9	27	112·9	136·9	−33·8	42·2	10	10	0	2·6	1·6	−0·3	1	10	0	0	1	0	0	0	0	0	0
Cherrapunji (R)																													
Darjiling (Raj Bhawan).	18·3	+0·5	22·2	7	11·3	+0·2	8·1	29	59·6	114·4	−22·8	77·6	2	3	−1·8	0·5	0·3	−1·6	0	4	0	0	0	7	0	0	0	0	0
Kalimpong	26·6	+4·4	31·1	16,20	18·3	+2·6	13·4	31	0	15·2	−112·1	15·2	12	1	−3·8	5·0	4·0	−6·3	0	1	0	0	0	0	0	0	0	0	0
Mukteswar (Kumaon).	18·4	+0·1	23·1	2	9·5	−0·3	6·5	31	70·4	141·0	+93·3	70·0	6	5	+2·7	12.8	12·3	+4·7	0	6	0	0	2	2	0	0	0	0	0
Nainital	18·6	..	22·6	10	9·9	..	5·6	30,31	107·0	252·0	..	129·0	6	5	..	9·5	7·7	..	0	5	0	0	0	0	0	0	0	0	0
Joshimath	20.9	..	25·6	2	9·9	..	6·0	30	31·7	155·4	..	32·6	6	3	..	5·5	6·0	..	0	5	0	0	0	0	0	0	0	0	0
Badrinath	11·8	..	15·8	1	6·2	..	4·7	28	..	49·0	..	25·0	6	5	..	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Lokpal	3·8	..	8·4	10	−3·0	..	−6·0	30,31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooree	19·6	+1·8	23·9	17	10·8	+0·1	7·0	27	12·0	48·0	+19·0	27·8	6	2	−0·3	8·6	5·8	−1·1	0	5	0	0	0	5	0	0	0	0	0
Simla	18·8	+0·9	21·8	2	10·9	+0·1	7·3	30,31	5·2	14·0	−16·0	7·6	4	2	+0·1	4·6	3·1	+1·2	0	4	0	0	0	0	0	0	0	0	0
Dharampore	..	..	..	..	..	..	..	..	..	18·6	−7·8	6·2	4	3	−1·7	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Dalhousie	23·8	..	27·0	2	9·4	..	3·3	31	0	0	−34·0	0	..	0	−2·1	2·4	2·3	..	0	0	0	0	0	0	0	0	0	0	0
Dharamashala	25·2	..	28·0	2	16·9	..	13·1	26	1·4	16·2	..	14·8	4	1	..	6·2	4·9	..	0	2	0	0	0	0	0	0	0	0	0
Abu	28·3	+2·1	30·6	4days	17·5	−0·5	11·6	29	0	0	−19·3	0	..	0	−0·9	7·6	3·6	−1·9	0	0	0	0	0	0	0	0	0	0	0
Pachmarhi	26·3	0	29·0	19,20	14·1	−0·8	7·4	29	114·6	240·2	+181·8	98·0	4	6	+3·0	5·7	3·6	−0·1	1	7	0	0	3	2	0	0	0	0	0
Mahabaleshwar	23·7	+0·3	26·6	7,19, 20	15·6	−0·7	13·5	12,31	30·5	116·6	−44·7	60·9	7	9	+1·1	11·3	11·3	−0·9	1	11	0	0	1	13	0	0	0	0	0
Mercara	24·5	+0·4	27·5	16	16·7	−0·2	13·0	14	26·6	162·2	−48.4	56·0	2	13	+0·1	13·9	9·4	+3·9	0	14	0	0	0	0	0	0	0	0	0
Kodaikanal	17·5	+0·8	19·9	12	10·6	−0·1	7·3	21	117·5	263·9	+3·8	59·2	24	12	−3·3	10·8	11·0	+0·1	2	16	0	0	5	3	0	0	0	0	0
Ootacamund	19 2	+1·1	21·8	14	9·1	−1·2	5·6	9	25·2	166·8	−35·9	32·6	24	11	−2·8	5.4	·7	−1·8	0	15	0	0	1	0	0	0	0	0	0
Coonoor	21·2	+0·3	23·6	18	13·4	0	10·2	8	..	430·2	+172·9	87·4	29	14	−0·1	..	·5	+1·0	0	15	0	0	5	0	0	0	0	0	0
Nepal																													
Kathmandu	25·6	..	28·4	7	12·8	..	7·3	31	22·4	45·6	..	17.7	2	3	..	1·6	1·0	..	0	3	0	0	1	4	0	0	0	0	0
Sikkim																													
Lachen	14·0	..	16.1	12	5·9	..	1·1	29	..	118·5	..	21·0	1	10	..	..	..	..	1	18	0	0	0	0	0	0	0	0	0
Tibet																													
Yatung (R) (Chumbi)																													
Ceylon																													
Colombo	29·6	−0·2	31.3	19	23·0	−0·9	20.6	10	49·3	248·5	−118·5	87·1	31	9	−7·1	..	..	..	0	12	0	0	3	0	0	0	0	0	0
Trincomalee	32·3	+0·5	36.5	8	24·7	+0·5	23.6	10	11·2	70·0	−141·1	22·6	17	7	−3·9	..	..	..	0	9	0	0	3	0	0	0	0	0	0
Batticoloa	30·8	..	33.7	5	24·2	..	22.1	8	0	83·8	..	31·0	24	4	..	..	..	..	0	5	0	0	6	0	0	0	0	0	0
Hambantota	30·3	+0·2	33.2	4	24·1	+0·2	21.3	10	3·8	78·6	−30·1	30·2	24	4	−3·9	..	..	..	0	8	0	0	1	0	0	0	0	0	0
Mannar	30·4	..	32.1	20	25·1	..	22.7	21	50.2	123·8	..	32·3	21	7	..	..	..	..	0	10	0	0	7	0	0	0	0	0	0
Hydrometeorological Observatories—																													
Damodar Catchment																													
Bokaro	31·1	..	33·8	12	19·7	..	14·6	21	25·6	48·4	..	36·4	2	3	..	..	..	..	1	3	0	0	2	0	0	0	0	0	0
Hazaribagh	27·8	..	30·1	10,12	18·6	..	13·4	26	24·3	77·2	..	43·8	2	5	..	7·2	4·3	..	1	6	0	0	0	1	0	0	0	0	0
Tilaiya	30·1	..	33·6	10	21·1	..	5·7	26	41·6	74·9	..	40·0	2	4	..	8·0	5·7	..	0	4	0	0	0	0	0	0	0	0	0
Ramgarh	30·9	..	33·5	12	20·5	..	16·3	28	60·9	92·3	..	54·5	2	3	..	3·3	1·7	..	1	4	0	0	0	0	0	0	0	0	0
Panchet Hills	32·1	..	34·4	9	22·4	..	16·2	29	13·3	52·8	..	22·5	8	6	..	8·0	5·1	..	2	6	0	0	3	0	0	0	0	0	0
Durgapur	31·9	..	34·3	13	22·6	..	18·9	28	20·2	45·2	..	18·0	2	3	..	10·7	7·3	..	0	3	0	0	0	0	0	0	0	0	0
Maithon	32·9	..	34·5	3	22·4	..	18·3	21	40·1	63·8	..	22.0	15	6	..	..	..	..	0	6	0	0	1	0	0	0	0	0	0
Konar	..	..	..	..	..	.	..	..	33.0	64·8	..	35·6	2	4	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Hirakud	31·4	..	33·6	13	22·4	..	16·8	27	35·7	51·1	..	14·3	14	6	..	6.3 (h)	4·3	..	0	10	0	0	3	0	0	0	0	0	0
Khijrawan	29·6	..	31·7	2,19	19·9	..	14.3	28	152·3	221·2	..	114·2	6	7	..	5·3	2·5	..	0	8	0	0	0	0	0	0	0	0	0
Sonepur	31·5	..	33·8	20	..	..	..	..	..	162·2	..	109·0	1	4	..	..	4·0	..	0	4	..	..	..	..	..	..	..	..	..
Ginabahar	30·5	..	33·3	17	18·7	..	12·2	26	..	71·4	..	35·9	10	3	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Bhimkund	30.2	..	33.3	18	20·4	..	15·9	27	117·0	152·7	..	51·0	16	8	..	1·8	0·5	..	0	10	0	0	0	0	0	0	0	0	0
Narbada Catchment																													
Punasa	33·1	..	35·8	19	19·7	..	11·4	28	51·5	59·7	..	32·5	12	5	..	4·7	2·5	..	0	6	0	0	0	0	0	0	0	0	0
Bagra Tawa	31·7	..	34·9	17	18·2	..	10·4	31	87·3	112·2	..	49·1	3	5	..	4·5	2·8	..	0	7	0	0	1	0	0	0	0	0	0
Thikri	34·2	.	35·9	19	18·0	..	11·2	28,31	..	43·0	..	27·0	11	3	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0

*Data given as addenda in December, 1960 issue. (h) Mean of 23 days. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed (km. p. h.)			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Galt	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories— *(Contd.)*																													
Sabarmati Catchment																													
Jhadol	32·9	..	35·7	7	..	..	..	..	..	0	.	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Dharoi	35·2	..	39·0	1	13·4	..	7·2	28, 31	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ganga Catchment																													
Mukthin	21·1	..	24·5	1	11·7	..	7·7	30	13·3	42·4	..	20·7	6	3	..	..	..	..	1	6	0	1	3	1	0	0	0	0	0
Tehri	30·4	..	34·8	2	14·7	..	8·6	31	25·7	51·5	..	25·6	6	5	..	4·2	2·3	..	0	5	0	1	1	1	0	0	0	0	0
Gandak Catchment																													
Gorkha (R)																													
Pokhara	26·7	..	29·6	11	16·3	..	11.6	31	34·1	231·7	..	108·5	13	8	..	5·4	4·3	..	1	9	0	0	10	1	0	0	0	0	0
Nawakot	27·8	..	30·1	9	16·3	..	12·0	30	12·0	19·0	..	12·0	3	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Jomosom	17·5	..	21·7	11	5·2	..	0·6	31	13·7	68·1	..	38·5	3	5	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	32·8	76·2	..	26·6	2	5	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Timure	24·0	..	27·3	7	11·6	..	5·3	30	7·1	31.4	..	15·2	2	3	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Gogra Catchment																													
Dandeldhura	20·5	..	25 8	2	11·9	..	8·3	27	55·2	203·2	..	80·4	3	5	..	..	..	..	0	6	0	0	0	9	0	0	0	0	0
Munsiywari (R)																													
Butwal	31.6	..	33.9	3days	21·8	..	17·4	30	9·0	50·6	..	41·6	2	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Bagmati Catchment																													
Katmandu†																													
Kosi Catchment																													
Chautara	25·2 (k)	..	27·2	1	15·1 (k)	..	11·1	30	20·8	47·0	..	30·0	3	3	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	23·0	107·2	..	21·4	2	10	..	..	..	..	0	13	..	..	..	..	..	..	..	..	..
Okhaldunga	22·3	..	25·8	7	12·7	..	4·7	30	13·6	95·4	..	35·0	2	4	..	3·6	2·5	..	0	8	0	0	1	2	0	0	0	0	0
Barahkshetra	30·6 (e)	..	35·9 (e)	11	19·5	..	15·6	26	11·6	83·9	..	35·4	2,12	3	..	5·8	4·2	..	2	4	0	0	2	0	0	0	0	0	0
Angbung	26·2 (a)	..	28·4	7	..	..	..	..	0	10·0	..	10·0	1	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Taplejung	21·7	..	24·5	7	12·5	..	8·7	30	7·2	46·3	..	26·2	2	4	..	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Taplethok	25·5	..	28·5	8	14·9	..	10·1	31	10·4	135·0	..	64·8	12	8	..	..	..	..	0	10									
Wallungchung Gola	13·7	..	17·1	7	3·8	..	−0·4	29	12·9	66·7	..	30·8	2	5	..	..	..	..	0	9									
Bhojpur	22·6	..	26·0	7	..	..	..	..	84·1	128·3	..	113·0	2	4	..	..	..	..	0	4									
Chainpur	25·7	..	28·5	10	16·3	..	13.2	30	9·0	76·0	..	41·8	2	2	..	..	..	..	0	5									
Tista Catchment																													
Gangtok	21·4	..	24·5	4,6	12·4	..	8·5	30	34·6	126.5	..	32·6	11	7	..	3·1	2·8	..	3	9	0	0	1	5	0	0	0	0	0
Geyzing	25·4	..	28·4	4	13·4	..	9·2	30	28·5	87·4	..	41·0	2	6	..	..	..	..	0	9									

(R) Register not received. †Data included under "Nepal". (k) Mean of 20 days. (a) Mean of 30 days. (e) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of standard nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1011·3	1008.1	..	28·0	25·7	24·6	31·2	83	..	4·5	..	4·1	0	1	23	0	3	2	5	0	9	4	1	7	0
	1730	„	1008·7	1005·6	..	27·0	24·7	23·8	29·4	82	..	4·2	..	3·5	0	1	20	0	3	1	2	0	8	5	2	10	0
Long Island	0830	25	1011·3	1008·5	..	27·4	25·6	24·8	31·4	86	..	5·2	..	0·8	0	0	5	0	0	0	0	0	1	0	0	26	4
	1730	„	1008·4	1005·6	..	26·5	24·9	24·1	30·1	87	..	5·9	..	1·2	0	0	9	0	0	0	0	0	0	1	1	22	7
Port Blair	0530	79	1009·8	1000·8	..	24·2	23·8	23·7	29·3	97	..	5·2	..	5·8	0	1	21	2	0	2	3	1	6	8	0	9	0
	0830	„	1011·7	1002·9	+0·8	27·4	25·3	24·3	30·8	84	+3	5·9	+0·7	6·5	0	0	28	1	2	4	2	2	8	8	1	3	0
	1130	„	1010·0	1001·1	..	28·3	25·7	24·5	30·8	80	..	6·1	..	9·5	0	1	30	0	2	6	4	3	8	7	1	0	0
	1730	„	1009·2	1000·2	..	25·7	24·5	24·0	29·7	90	..	5·3	..	5·9	0	0	27	1	1	6	0	3	5	9	2	4	0
	2330	„	1010·5	1001·5	..	24·7	24·2	23.9	29·7	94	..	3·9	..	6·3	0	0	20	0	1	3	3	0	5	8	0	11	0
Carnicobar	0830	10	1011·8	1010·6	..	28·0	25·5	24·2	30·6	81	..	6·3	..	4·3	0	0	28	0	1	2	4	2	15	3	0	3	1
	1730	„	1009·2	1008·0	..	26·3	24·7	24·0	29·7	88	..	6·3	..	1·5	0	0	12	0	1	1	2	0	7	1	0	19	0
Nancowry	0830	26	1012·2	1009·3	..	27·9	25·6	24·6	31·0	83	..	6·2	..	2·9	0	0	9	0	0	0	2	0	7	0	0	22	0
	1730	„	1009·2	1006·4	..	26·6	25·0	24·2	30·4	87	..	5·5	..	2·0	0	0	8	0	0	0	2	0	6	0	0	23	0
Kondul	0830	8	1012·1	1011·2	..	27·3	25·1	24·2	30·0	83	..	5·5	..	4·8	0	0	20	0	0	3	17	0	0	0	0	11	0
	1730	„	1009·2	1008·3	..	26·4	24·7	24·1	29·8	89	..	6·1	..	3·1	0	2	7	0	2	0	5	2	0	0	0	22	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1012·7	994·9	..	25·3	21·1	18·8	21·7	67	..	5.1	..	13·5	0	3	25	3	1	0	0	1	0	1	22	3	0
	1730	„	1008·8	991·0	..	25·4	22·7	21·4	25·3	81	..	4·0	..	4·5	0	1	16	1	0	0	0	0	0	1	15	14	0
Digboi*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dibrugarh	0830	106	1012·2	1000·3	−0·6	26·3	23·1	21·5	25·7	70	−12	4·2	0	1·6	0	0	16	4	6	6	0	0	0	0	0	15	0
	1730	„	1008·0	996·0	..	27·4	23·9	22·5	26·7	75	..	2.5	..	0·4	0	0	3	0	0	1	0	1	0	1	0	28	0
Dibrugarh (Mohanbari Aerodrome).	0230	111	1010·2	997·4	..	21.7	21·1	20·6	24·6	94	..	3·9	..	0·4	0	0	4	0	2	1	0	1	0	0	0	27	0
	0530	„	1011·2	998·4	..	21·3	20·7	20·3	29·0	94	..	5·0	..	0·9	0	0	5	0	3	2	0	0	0	0	0	26	0
	0830	„	1012·8	1000·2	..	6·3	22·3	21·1	24·8	74	..	4·8	..	5·0	0	0	26	2	15	8	0	0	0	1	0	5	0
	1130	„	1010·7	998·2	..	9·1	23·4	20·6	24·2	61	..	4·6	..	5·0	0	0	28	0	14	10	2	1	1	0	0	3	0
	1730	„	1008·7	996·1	..	26·0	23·6	22·1	27·2	79	..	4·0	..	0·2	0	0	1	0	1	0	0	0	0	0	0	30	0
	2330	„	1010·5	997·8	..	22.3	21·4	21·0	24·9	92	..	4·0	..	0·7	0	0	4	1	3	0	0	0	0	0	0	27	0
North Lakhimpur	0830	102	1012·7	1001·1	..	26·3	23·1	21·7	25·7	76	..	3·5	..	2·8	0	0	22	5	4	2	5	0	0	1	5	9	0
	1130	„	1011·0	999·2	..	29·3	24·3	21·6	26·3	64	..	2·8	..	4·9	0	0	31	1	9	13	5	1	1	0	1	0	0
	1730	„	1008·6	997·0	..	26·6	24·4	23·3	28·9	83	..	2·9	..	1·1	0	0	9	3	2	2	1	0	0	1	0	22	0
Sibsagar	0830	97	1012·5	1001·4	−0·3	26·8	24·0	22·7	27 3	79	−9	5·3	−0·6	2·2	0	0	18	4	7	4	1	0	1	0	1	13	0
	1730	„	1008·8	997.8	..	27·6	24·7	23·3	28·9	77	..	3·3	..	0·6	0	0	5	0	2	0	0	1	2	0	0	26	0
Jorhat	0530	90	1010·6	1000·3	..	22·3	22·2	22·1	26·8	96	..	5·2	..	0·7	0	0	4	2	1	0	0	0	1	0	0	27	0
	0830	„	1012·2	1002·0	..	26·3	24·1	23·1	28·2	83	..	4·5	..	6·4	0	1	23	2	15	1	2	1	1	0	2	7	0
	1130	„	1010·0	1000·3	..	29·2	25·2	23·5	28·9	71	..	4·6	..	9·2	0	2	26	8	16	1	0	0	2	0	1	3	0
	1730	„	1008·0	997·8	..	26·2	24·7	23·8	29·9	87	..	3·0	..	2·4	0	1	7	4	4	0	0	0	0	0	0	23	0
	2330	„	1010.4	999·5	..	23·2	23·5	22·9	27·4	99	..	3·1	..	2·1	0	0	7	1	4	0	0	1	0	0	1	24	0
Golaghat	0830	..	..	..	..	26·7	23·8	22·5	27·3	78	..	4·5 (b)	..	..	0	0	0	0	0	0	0	0	0	0	0	31	0
	‡1730	..	.	..	..	27·9	24·7	23·1	28·4	77	..	4·1	..	..	..	..	..	0	0	0	0	0	0	0	0	27	0
Gohpur	0830	..	..	..	..	26·2	24·1	23·1	28·3	83	..	..	..	3·0	0	0	31	0	1	29	0	1	0	0	0	0	0
	1730	..	..	..	..	28·1	25·3	24·5	31·1	80	..	..	..	1·9	0	0	20	0	0	19	0	0	0	0	1	11	0
Tezpur	0830	79	1002·3	1003·4	−0·8	25·6	24·1	23·6	28·9	87	+5	3·2	−0·5	2.8	0	0	31	0	19	9	2	0	1	0	0	0	0
	1730	„	1008·0	999·1	..	27·9	26·9	26·4	34·6	89	..	2·8	..	1·9	0	0	31	0	14	9	1	3	3	1	1	0	0
Majbat	0830	..	..	..	..	..	..	..	..	..	..	3·2	..	5.8	0	0	27	3	9	14	0	0	0	0	0	4	0
	1730	..	..	..	..	..	..	..	..	..	..	2·9	..	1·7	0	0	11	3	4	2	0	0	1	0	1	20	0
Chaparmukh†	0830	66																									
	1730	„																									
Tangla	0830	78	1012·2	1003·3	..	26·4	23·1	21·5	25·5	75	..	2·0	..	0·7	0	0	5	0	2	0	3	0	0	0	0	26	0
	1730	„	1008·1	999·3	..	27·9	24·6	23·5	29·0	81	..	1·7	..	0·3	0	0	2	0	0	0	2	0	0	0	0	29	0
Gauhati	0830	55	1011·9	1005·6	−0·5	26·1	24·0	23·6	28·1	83	0	3·2	−1·0	0·8	0	0	8	0	4	3	0	0	0	0	1	23	0
	1730	„	1008·2	1002·0	..	27·9	24·3	22·6	27·3	73	..	2·9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Gauhati (Bhorjor Aerodrome).	0230	54	1009·8	1003·2	..	23·4	22·8	22·6	27·4	95	..	3·0	..	1·1	0	0	8	0	1	1	0	2	3	0	1	23	0
	0530	„	1010·3	1004·3	..	22·9	22·5	22·3	27·3	96	..	4·3	..	1·9	0	0	13	0	6	1	2	2	1	0	1	18	0
	0830	„	1012·1	1005·9	..	26·9	24·4	23·3	28·6	82	..	3·8	..	4·4	0	0	18	4	9	5	0	0	0	0	0	13	0
	1130	„	1009·9	1004·1	..	29·4	25·7	24·0	30.0	73	..	4·0	..	6·8	0	0	26	6	15	2	0	0	0	0	3	5	0
	1730	„	1008·1	1001·9	..	26·7	24·7	23·8	29·6	81	..	4·2	..	2·5	0	0	14	5	2	2	1	2	0	2	0	17	0
	2330	„	1010·3	1004·1	..	24·0	23·4	23·1	28.4	95	..	3·2	..	2·7	0	1	9	0	1	2	1	1	3	0	2	21	0

(b) Mean of 27 days. †Temporarily closed. ‡Observations for 30 days.

Division and station	Hour of observation I.S.T.	Stations elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in (km. p. h.)	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, and Tripura)—(*Contd.*)																											
Rangiya	0830	..	..	..	..	27·6	24·1	22·7	27·1	74	..	1·6	..	5·3	0	0	27	0	12	12	1	1	0	0	1	4	0
	1730	..	..	..	..	29·2	25·6	24·0	29·8	74	..	1·3	..	1·7	0	0	11	0	5	5	1	0	0	0	0	20	0
Goalpara	0830	38	1011·3	1007·0	..	27·4	24·2	22·4	27·5	75	..	1·5	..	3·0	0	0	27	2	17	1	4	1	1	0	1	4	0
	1730	,,	1006·9	1003·0	..	29·6	25·9	24·0	30·4	72	..	1·5	..	2·1	0	0	17	0	13	0	1	0	0	0	3	14	0
Dhubri	0830	35	1012·1	1008·1	−0·2	26·2	24·1	23·5	28·2	84	+2	1·3	−1·7	1·5	0	0	12	0	11	1	0	0	0	0	0	19	0
	1730	,,	1008·6	1004·6	..	27·0	24·6	23·2	29·0	77	..	1·4	..	1·0	0	0	2	0	1	0	1	0	0	0	0	29	0
Dhubri (Rupsi Aerodrome)	0530	36	1009·3	1005·2	..	21·7	21·1	20·7	24·6	95	..	2·0	..	1·0	0	0	9	0	4	5	0	0	0	0	0	22	0
	0830	,,	1011·0	1006·9	..	26·8	24·0	22.6	27·6	78	..	1·9	..	4·5	0	0	29	1	5	17	5	0	0	1	0	2	0
	1130	,,	1009·9	1005·9	..	29·2	24·6	22·3	27·2	67	..	2.8	..	6·1	0	0	29	0	0	13	12	1	2	0	1	2	0
	1730	,,	1007·5	1003·4	..	26·6	24·5	23·5	29·1	83	..	1·5	..	1·1	0	1	4	0	3	1	1	0	0	0	0	26	0
Tura	0830	370	1014·2	972·5	..	23·7	21·5	20·4	24·0	82	..	2·5	..	2·4	0	0	23	2	2	11	7	1	0	0	0	8	0
	1730	,,	1010·5	969·2	..	27·1	24·0	22·5	27·6	76	..	4·5	..	2·6	0	0	24	1	3	6	3	3	5	1	2	7	0
Agartala	0230	16	1008·1	1006·3	..	23·2	22·7	22·3	27·1	95	..	2·7	..	4·2	1	0	11	0	2	2	5	3	0	0	0	19	0
	0530	,,	1008·9	1007·1	..	22·6	22·2	22·2	26·1	95	..	3·8	..	4·1	0	1	13	3	1	2	3	4	0	0	1	17	0
	0830	,,	1010·7	1008·9	..	27·5	24·8	23·7	29·2	80	..	4·1	..	4 9	0	0	25	4	4	6	2	4	1	3	1	6	0
	1130	,,	1009·4	1007·6	..	29·5	25·1	22·9	28·2	69	..	4·4	..	7·3	0	0	30	7	3	4	0	2	4	3	7	1	0
	1730	,,	1007·1	1005·3	..	27·5	24·7	23·5	28·9	80	..	2·9	..	3·8	0	2	15	7	2	1	2	0	1	0	4	14	0
	2330	,,	1008·8	1007·0	..	23·9	23·2	22·9	27·1	90	..	2·5	..	5·4	0	1	10	0	3	2	3	1	0	0	2	20	0
Kailashar	0530	29	1010·2	1006·9	..	22·9	22·2	21·8	26·3	95	..	4·4	..	1·7	0	1	6	0	2	0	1	3	0	1	0	24	0
	0830	,,	1012·0	1008·7	..	26·6	24·5	23·5	29·0	84	..	4·2	..	2·6	0	0	16	3	5	0	0	4	2	2	0	15	0
	1130	,,	1010·3	1007.0	..	29·7	25·9	24·6	30·3	73	..	5·0	..	3·4	0	0	23	17	4	0	0	2	0	0	0	8	0
	1730	,,	1008·4	1005·1	..	27·6	25·4	24·5	30·6	83	..	3 4	..	1·2	0	0	3	1	2	0	0	0	0	0	0	28	0
Silchar	0830	,,	1011·6	1008·3	−0·8	27·3	24·4	23·2	28·4	79	−3	4·1	+0·1	1·9	0	0	19	0	9	6	3	1	0	0	0	12	0
	1730	,,	1007·9	1004·6	..	28·4	25·5	24·2	30·3	79	..	1·8	..	0·5	0	0	5	2	2	0	0	0	1	0	0	26	0
Silchar (Kumbhigram Aerodrome)	0530	97	1008·8	997·8	..	22·6	21·6	21·1	25·0	92	..	4·3	..	6·7	0	0	29	0	9	16	2	1	0	0	1	2	0
	0830	,,	1010·1	999·3	..	26·8	23·6	22·1	26·6	76	..	4·0	..	8·3	0	0	31	0	2	17	11	1	0	0	0	0	0
	1130	,,	1008·3	997·5	..	30.1	24·8	22·3	27·0	65	..	3·9	..	7·1	0	0	29	0	1	8	4	1	4	7	4	2	0
	1730	,,	1006·2	995·3	..	28·2	24·9	23·5	28·8	76	..	3·0	..	4·6	0	0	23	0	3	3	0	0	2	13	2	8	0
Imphal	0530	801	1013·5	924·1	..	17·9	17·4	17·0	19 5	95	..	4·6	..	0·6	0	0	4	1	0	0	0	0	2	0	1	27	0
	0830	,,	1013·7	925·6	..	22·2	20·1	18·8	21·9	71	..	4·8	..	2·3	0	0	17	1	1	4	7	1	0	1	2	14	0
	1130	,,	1010·4	923·6	..	26·1	21·3	18·8	21·9	65	..	4·6	..	5·1	0	0	27	0	3	2	2	7	10	0	3	4	0
	1730	,,	1009·1	921·5	..	23·0	20·3	18·9	21·9	71	..	3·9	..	2·7	0	0	14	0	1	1	1	0	6	2	3	17	0
	2330	,,	1012·4	923·5	..	19·2	18·5	18·2	20·8	95	..	3·3	..	0·7	0	0	5	0	0	1	0	0	3	0	1	26	0
Haflong	0830	682	1011·8	936·5	..	23·1	20·8	20·1	23·0	83	..	4·0	..	3·4	0	0	31	7	10	0	0	6	7	0	1	0	0
	2330	,,	1007·6	932·7	..	23·7	21·3	20·1	23·6	81	..	3·3	..	3·8	0	0	31	3	1	0	0	6	19	0	2	0	0
Lumding	0830	149	1012·2	995·4	..	25·6	23·6	22·6	27·6	84	−3	4·5	..	1·3	0	0	10	0	1	2	7	0	0	0	0	21	0
	1730	,,	1008·1	991·3	..	27·7	25·6	24·6	31·0	83	..	4·0	..	0·4	0	0	3	0	0	2	1	0	0	0	0	28	0
Sub-Himalayan West Bengal																											
Cooch-Behar	0830	43	1011·9	1007·0	..	26·3	23·1	21·4	25·6	73	..	1·9	..	8·1	0	1	29	1	14	15	0	0	0	0	0	1	0
	1130	,,	1010·5	1005·7	..	29·6	24·3	21·7	25·8	63	..	2·8	..	8·9	0	1	30	1	8	13	1	0	0	1	0	0	7
	1730	,,	1008·0	1003·2	..	26·8	24·1	22·8	27·7	79	..	1·7	..	1·1	0	0	3	0	1	2	0	0	0	0	0	28	0
Jalpaiguri	0830	83	1012·1	1002·6	0	24·3	21·9	20·8	24·6	81	−2	1·5	−0·8	5·6	0	0	26	11	7	2	0	0	0	0	6	5	0
	1730	,,	1007·9	998·6	..	28·7	24·1	21·8	26·3	67	..	1·3	..	3·9	0	0	23	1	2	7	2	2	2	4	3	8	0
Bagdogra	0230	131	1009·4	994·3	..	21·5	19·9	19·1	22·0	86	..	2·1	..	3·5	0	0	25	18	1	3	0	0	0	0	3	6	0
	0530	131	1010·3	995·1	..	19·9	19·3	18·9	22·0	94	..	2·3	..	2·5	0	0	20	11	2	1	0	1	1	1	3	11	1
	0830	,,	1011·9	997·1	..	27·0	22·8	20·3	24·6	67	..	2·6	..	4·2	0	0	24	1	6	11	3	0	2	1	0	7	0
	1130	,,	1010·4	995·8	..	29·8	24·1	21·1	25·1	61	..	3·0	..	5·8	0	0	29	0	1	9	8	7	2	2	0	2	0
	1730	,,	1008·0	993·2	..	22·4	23·9	22·7	27·6	80	..	2·8	..	2·9	0	0	21	3	1	3	1	2	3	6	2	10	0
	2330	,,	1010·3	995·3	..	22·6	20·8	19·8	23·6	84	..	2·1	..	4·8	0	0	27	19	6	0	0	0	0	0	2	4	0
Malda	0830	31	1011·6	1008·1	0	28·5	24·1	21·8	26·3	68	−7	2·4	+0·6	8·2	0	0	31	6	7	3	2	1	1	6	5	0	0
	1730	,,	1008·0	1004·5	..	28·8	24·1	21·8	27·7	66	..	2·3	..	3.6	0	0	25	4	5	1	2	2	1	0	1	6	0
Gangetic West Bengal																											
Dum Dum	0230	6	1008·6	1007·9	..	24·1	23·3	22·9	27.9	92	..	2·8	..	1·8	0	0	14	3	4	2	2	0	0	2	1	17	0
	0530	,,	1009·4	1008·6	..	23·5	22·9	22·2	27·6	94	..	3·7	..	1·6	0	0	14	3	4	4	0	1	1	0	0	17	1
	0830	,,	1011·1	1010·4	..	28·0	24·3	22·5	27·5	73	..	3·5	..	3·6	0	0	31	11	5	5	2	1	1	0	6	0	0
	1130	,,	1009·8	1009·1	..	30·1	24·1	21·1	25·2	60	..	3·9	..	6·7	0	1	29	10	8	2	4	1	1	1	3	1	0
	1730	,,	1007 7	1007·0	..	27·7	24·4	22·9	27·8	76	..	3·8	..	2·6	0	0	14	1	3	2	6	0	0	0	2	17	0
	2330	,,	1009·5	1008·8	..	24·6	23·6	23·1	26·5	91	..	2·5	..	1·1	0	0	9	1	0	3	3	0	1	0	1	22	0
Calcutta	0830	6	1010 8	1010·1	−0 6	28·4	24·3	22·2	27·0	70	−12	3·4	+0·4	4·7	0	0	24	5	6	6	1	0	1	3	2	7	0
	1130	,,	1009.4	1008·7	..	30.5	24·4	21·3	25·6	69	..	4·7	..	6·0	0	1	25	1	9	6	2	0	1	1	6	5	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amoun	Cloud amount (Oktas): Departure from normal	Mean wind speed in km per hour	Wind speed (km p. h.): 62 or more	Wind speed (km p. h.): 20 to 61	Wind speed (km p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal—(*Contd.*)																											
Calcutta—(*Contd.*)	1730	"	1007·6	1006·9	..	28·0	23·8	21·8	26·1	69	..	3·5	..	3·0	0	0	18	1	0	3	4	0	3	2	5	13	0
Barrackpore (Aerodrome)	0530	7	1009·8	1009·0	..	24·2	23·3	22·8	28·0	93	..	3·2	..	3·7	0	0	12	1	1	6	1	0	1	0	2	19	0
	0830	"	1011·5	1010·7	..	28·0	25·0	23·7	29·2	78	..	3·5	..	7·0	0	0	27	3	6	5	3	0	1	3	6	4	0
	1130	8	1010·3	1009·6	..	30·5	25·4	23·0	28·5	65	..	4·1	..	10·2	0	0	29	3	3	10	2	2	1	5	3	2	0
	1730	"	1008·1	1007·3	..	27·5	24·5	22·9	28·3	77	..	3·0	..	4·4	0	1	15	2	0	1	5	1	1	0	6	15	0
	2330	"	1010·1	1009·3	..	25·5	23·9	22·9	28·4	86	..	1·6	..	0·9	0	0	4	1	0	0	1	0	0	1	1	27	0
Saugor Island	0830	3	1010·4	1010·1	−0·7	27·8	25·0	23·7	29·4	79	+1	4·3	+0·2	13·2	0	3	28	9	7	4	4	1	1	1	4	0	0
	1730	"	1007·6	1007·3	..	27·6	24·5	22·9	27·3	77	..	4·4	..	12·0	0	2	27	7	4	3	5	3	1	0	6	2	0
Sandheads	0530	10	1008·5	1007·4	..	27·8	24·4	22·8	27·9	76	..	3·9	..	11·4	0	5	21	6	4	2	5	0	1	1	7	5	0
	0830	"	1010·5	1009·4	−1·0	28·9	24·9	23·1	28·4	71	−1	3·7	+0·2	10·5	0	4	20	6	7	2	4	1	0	1	3	7	0
	1130	"	1009·7	1008·6	..	29·5	25·3	23·2	28·8	69	..	3·8	..	11·1	0	4	23	7	6	4	4	0	0	2	4	4	0
	1730	"	1007·5	1006·4	..	28·9	24·3	22·2	28.1	68	..	3·2	..	9·9	0	4	21	7	2	4	3	1	1	1	6	6	0
	2330	"	1009·2	1008·1	..	28·3	24·5	22·7	27·6	72	..	1·4	..	9·0	0	4	18	4	4	2	5	1	0	2	4	9	0
Contai	0830	11	1010·6	1009·4	..	27·5	24·5	23·0	28·3	77	..	2·7	..	4·5	0	1	23	13	4	1	4	1	0	0	1	7	0
	1730	"	1007·7	1006·5	..	27·9	24·9	23·4	29·2	77	..	2·2	..	2·6	0	0	15	2	0	3	6	3	0	1	0	16	0
Midnapore	0830	45	1010·9	1005·8	−0·4	26·9	23·8	22·4	27·1	76	+1	2·5	−0·1	2·0	0	0	13	3	2	3	3	1	1	0	0	18	0
	1730	"	1007·7	1002·5	..	28·5	24·4	22·3	27·2	71	..	2·8	..	1·3	0	0	9	1	2	1	0	3	2	0	0	22	0
Purulia	0830	255	1011·7	983·1	..	25·5	22·1	20·3	24·1	73	..	3·3	..	3·2	0	0	27	2	0	0	7	0	1	0	17	4	0
	1730	"	1008·0	979·5	..	28·0	22·4	19·2	22·7	60	..	3·7	..	1·8	0	0	17	0	0	0	11	0	0	1	5	14	0
Burdwan	0830	32	1011·1	1007·3	−0·6	27·5	24·9	23·5	28·9	79	+2	2·4	−0·6	4·6	0	1	15	0	4	5	2	0	1	2	2	15	0
	1730	"	1007·9	1004·3	..	28·4	26·2	25·3	32·2	83	..	2·3	..	2·0	0	0	9	0	1	5	0	0	2	0	1	22	0
Krishnagar	0830	15	1011·4	1009·8	−0·1	28·6	24·9	23·3	28·6	73	0	2·2	−0·7	1·2	0	0	12	1	3	2	1	2	1	1	1	19	0
	1730	"	1007·9	1006·3	..	28·0	24.2	22·7	27·0	72	..	1·9	..	0·1	0	0	1	0	0	0	0	1	0	0	0	30	0
Asansol	0230	126	1009·2	994·8	..	23·3	22·2	21·7	25·9	91	..	2·7	..	1·3	0	0	6	0	1	1	1	0	0	2	1	25	0
	0530	"	1009·7	995·2	..	22·9	21·8	21·2	25·2	91	..	3·5	..	1·9	0	0	10	2	0	1	1	0	0	3	3	21	0
	0830	"	1011·3	997·1	−0·2	27·2	23·8	22·0	26·8	73	−3	2·5	−0·4	6·4	0	1	22	4	1	5	3	0	0	3	7	8	0
	1130	"	1010·2	996·1	..	30·1	24·4	21·3	26·1	61	..	3·1	..	7·8	0	1	21	5	2	4	4	2	0	3	2	9	0
	1730	"	1007·8	993·6	..	27·9	23·9	21·7	26·4	70	..	3·4	..	3·5	0	0	13	1	2	3	5	0	0	1	1	18	0
	2330	"	1010·1	995·7	..	23·8	22·3	21·4	25·8	87	..	2·4	..	1·7	0	0	7	0	0	2	1	0	0	3	1	24	0
Suri	0830	77	1011·7	1003·0	..	27·3	23·7	21·6	26·3	71	..	2·8	..	5·0	0	0	29	4	5	4	3	3	0	5	5	2	0
	1730	"	1008·6	999·8	..	28·3	23·6	20·7	25·3	66	..	3·6	..	2·8	0	0	20	1	5	5	4	2	1	0	2	11	0
Berhampore	0830	19	1010·9	1008·8	−0·7	27·2	24·1	22·8	27·5	77	−1	2·0	−0·9	0·1	0	0	1	0	0	1	0	0	0	0	0	30	0
	1730	"	1007·6	1005·6	..	28·3	24·6	22·7	27·8	72	..	1·4	..	0·3	0	0	2	0	1	1	0	0	0	0	0	29	0
Orissa																											
Baripada	0830	54	1011·9	1005·8	..	26·4	23·1	21·4	25·5	75	..	3·7	..	1·6	0	0	13	3	1	3	2	0	1	0	3	18	0
	1730	"	1008·3	1002·2	..	27·5	23·9	22·0	26·7	73	..	2·9	..	1·1	0	0	9	0	0	1	6	0	1	0	1	22	0
Balasore	0830	20	1010·7	1008·5	−0·5	26·6	23·9	22·5	27·4	79	+1	4·5	+1·4	4·1	0	1	21	11	1	0	3	0	3	0	4	9	0
	1730	"	1007·7	1005·5	..	28·0	24·8	23·4	28·8	76	..	4·4	..	2·2	0	0	7	2	0	2	3	0	0	0	0	24	0
Chandbali	0830	6	1010·1	1009·4	−1·1	26·7	24·8	23·8	29·7	83	+2	3·1	−0·3	6·0	0	0	30	5	3	1	4	0	3	4	10	1	0
	1730	"	1007·6	1006·9	..	28·9	24·9	23·1	28·4	72	..	3·7	..	4·4	0	0	27	3	12	1	8	0	1	0	2	4	0
Cuttack	0830	27	1010·8	1007·8	−0·6	26·9	24·1	22·6	27·8	77	−1	3·3	+0·1	1·3	0	0	4	0	2	1	0	0	0	0	1	27	0
	1730	"	1007·3	1004·4	..	29·4	24·8	22·5	27·5	68	..	3·6	..	0·5	0	0	2	0	1	0	0	0	0	0	1	29	0
Bhubaneswar	0230	46	1008·3	1003·0	..	24·2	22·9	22·2	26·9	89	..	3·4	..	4·8	0	1	19	8	2	1	2	0	0	2	5	11	0
	0530	"	1009·0	1003·7	..	23·5	22·4	21·7	27·6	91	.	4·1	..	6·8	0	2	29	7	4	4	0	0	3	4	9	0	0
	0830	"	1010·8	1005·6	..	27·0	24·0	22·5	27·4	77	..	4·3	..	8·0	0	2	24	7	4	3	1	0	1	2	8	5	0
	1130	"	1009·8	1004·6	..	29·9	24·3	21·4	25·9	62	..	4·5	..	9·7	0	2	25	3	7	5	2	0	1	0	7	4	2
	1730	"	1007·8	1002·5	..	27·8	23.9	22·0	26·5	72	..	4·9	..	7·9	0	0	30	3	6	8	5	2	1	0	5	1	0
	2330	"	1009·6	1004·3	..	25·1	23·5	22·4	27·7	86	..	3·0	..	5·3	0	1	20	4	4	4	4	0	3	1	1	10	0
Puri	0830	6	1010·7	1010·0	−0·3	27·9	24·8	23·3	28·9	76	−1	4·5	+1·5	10·1	0	2	29	7	8	2	7	2	4	1	0	0	0
	1730	"	1007·4	1006·6	..	28·7	24·9	23·5	28·4	75	..	7·0	..	9·7	0	4	26	4	6	1	7	5	6	0	1	1	0
Gopalpur	0530	17	1008·9	1006·9	..	23·9	22·7	22·0	26·7	90	..	4·8	..	6·6	0	0	29	14	2	0	0	0	0	0	13	2	0
	0830	"	1010·8	1008·8	−0·3	26·6	23·9	22·6	27·4	79	+1	4·7	+1·9	8·4	0	0	31	14	1	1	0	0	0	1	14	0	0
	1130	"	1010·0	1008·0	..	30·0	25·1	22·7	27·7	67	..	4·3	..	9·6	0	2	29	10	3	6	5	1	0	0	6	0	0
	1730	"	1007·7	1005·7	..	28·6	24·3	22·1	26·9	69	..	4·3	..	9·9	0	1	29	2	5	8	7	3	3	1	1	1	0
	2330	"	1009·5	1007·5	..	25·6	23·9	23·0	28·3	86	..	3·7	..	6·4	0	2	24	8	0	1	0	1	2	3	11	5	0
Koraput	0830	913	1531·3	912·8	..	23·1	19·7	17·8	20·5	74	..	2·6	..	3·9	0	0	31	2	7	2	8	2	4	1	5	0	0
	1730	"	1499·8	909·3	..	23·2	18·9	16·3	18·9	67	..	3·3	.	4·8	0	0	31	16	3	4	1	0	2	3	2	0	0
Titilagarh	0830	211	1009·3	985·8	..	27·2	25·1	24·0	30·0	83	..	1·3	..	3·0	0	0	31	1	7	0	10	1	1	0	1	0	0
	1730	"	1007·5	984·0	..	28·5	25·2	23·5	29·3	76	..	1·9	..	3·0	0	0	30	0	21	0	4	1	2	0	2	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed, (km.p.h.): 62 or more	Wind speed, (km.p.h.): 20 to 61	Wind speed, (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Bolangir	0830	190	1009·9	988·4	..	25·9	22·4	20·4	24·2	71	..	3·7	..	5·7	0	0	31	9	4	2	1	6	4	0	4	0	1
	1730	,,	1007·2	986·0	..	27·9	22·8	19·3	23·6	68	..	3·8	..	6·2	0	0	31	13	8	0	1	3	2	0	4	0	0
Phulbani	0830	464	1008·7	957·0	..	23·3	21·2	20·0	23·5	83	..	3·4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1005·2	954·1	..	25·7	21·8	19·5	23·3	66	..	3·7	..	0·3	0	0	3	0	0	2	0	0	0	1	0	28	0
Angul	0830	139	1011·2	995·5	0	24·7	22·6	21·4	25·8	83	+6	4·9	+1·4	4·6	0	0	29	0	1	3	4	2	0	6	9	2	0
	1730	,,	1007·5	992·0	..	28·3	23·1	19·9	23·9	63	..	5·1	..	4·3	0	0	27	1	1	5	4	7	0	2	7	4	0
Keonjhar	0830	463	1011·5	957·1	..	24·5	20·8	18·8	21·9	72	..	3·3	..	3·3	0	0	22	6	3	7	0	1	0	1	4	9	0
	1730	,,	1008·1	954·1	..	25·9	21·3	18·6	21·0	66	..	4·7	..	3·2	0	0	30	2	3	9	6	1	3	3	3	1	0
Sambalpur	0830	148	1011·1	994·4	−0·5	27·0	23·3	21·4	25·7	72	−4	3·5	+0·8	1·6	0	0	11	2	3	1	4	1	0	0	0	20	0
	1730	,,	1007·4	990·8	..	28·0	23·3	20·5	24·9	66	..	3·5	..	1·0	0	0	9	1	1	0	5	3	0	0	2	22	0
Jharsuguda	0230	230	1008·8	982·6	..	22·1	21·4	20·8	25·3	92	..	4·2	..	3·2	0	0	19	9	6	1	2	0	0	0	1	12	0
	0530	,,	1009·5	983·3	..	21·5	20·8	20·4	24·3	94	..	5·1	..	4·2	0	0	25	15	6	2	2	0	0	0	0	6	0
	0830	,,	1011·2	985·2	..	24·7	22·1	20·5	24·4	78	..	5·1	..	4·3	0	0	22	10	8	3	1	0	0	0	0	9	0
	1130	,,	1009·9	984·3	..	28·5	23·0	20·0	23·9	61	..	5·0	..	5·3	0	0	26	6	6	7	1	1	2	1	2	5	0
	1730	,,	1007·6	981·9	..	26·9	22·9	20·8	24·9	70	..	5·5	..	4·0	0	0	24	4	4	4	3	0	6	1	2	7	0
	2330	,,	1009·9	983·8	..	22·9	21·6	20·9	24·6	88	..	4·2	..	4·1	0	0	23	8	3	2	4	1	2	1	2	8	0
Bihar Plateau																											
Jamshedpur	0830	129	1011·5	996·9	−0·1	25·5	22·8	21·4	25·5	78	+3	3·3	+0·2	5·0	0	0	25	1	2	7	1	0	1	10	3	6	0
	1730	,,	1007·8	993·3	..	27·9	23·6	21·4	25·6	68	..	3·7	..	3·3	0	0	19	2	2	6	5	1	0	1	2	12	0
Jamshedpur (P.B.O.)	0530	142	1009·8	993·5	..	22·3	21·4	21·0	24·8	92	..	4·5	..	4·0	0	0	23	3	5	2	0	0	2	5	6	8	0
	0830	,,	1011·5	995·4	..	25·3	22·6	21·1	25·1	78	..	4·3	..	6·6	0	0	29	2	4	6	0	2	3	7	5	2	0
	1130	,,	1010·1	994·2	..	28·9	23·5	20·5	24·6	62	..	4·5	..	9·0	0	0	31	4	7	6	1	0	0	4	9	0	0
	1730	,,	1007·8	991·9	..	27·9	23·0	20·3	24·1	65	..	4·6	..	5·7	0	0	26	3	9	5	1	0	0	4	4	5	0
	2330	,,	1010·0	993·8	..	23·2	22·0	21·3	25·5	89	..	3·2	..	5·6	0	0	25	2	3	3	1	0	0	6	10	6	0
Chaibasa	0830	226	1011·2	985·7	−0·1	25·5	22·7	20·9	25·4	77	+1	3·9	+1·1	1·4	0	0	13	0	7	1	1	0	3	1	0	18	0
	1730	,,	1007·6	982·6	..	27·2	22·9	20·7	24·2	68	..	4·2	..	0·4	0	0	4	0	4	0	0	0	0	0	0	27	0
Ranchi	0830	655	1007·8	935·8	−2·9	25·3	22·1	20·6	24·3	75	+9	3·7	+0·9	0·7	0	0	7	0	1	4	1	0	0	0	1	24	0
	1730	,,	1006·9	935·1	..	25·2	21·1	19·0	22·0	69	..	3·0	..	0·1	0	0	1	0	0	1	0	0	0	0	0	30	0
Ranchi (C.W.O.)	0530	652	1010·4	937·5	..	19·8	18·2	17·3	19·7	86	..	5·4	..	2·8	0	0	12	2	1	4	3	0	0	0	2	19	0
	0830	,,	1011·1	939·1	..	23·9	19·8	17·4	19·9	69	..	4·9	..	5·2	0	0	23	6	3	6	4	0	1	0	3	8	0
	1130	,,	1009·7	938·4	..	26·1	19·5	15·7	17·8	54	..	5·5	..	7·7	0	1	29	9	6	6	3	1	0	0	4	1	1
	1730	,,	1007·0	935·7	..	25·3	20·1	17·2	19·6	62	..	(i) 5·0	..	(i) 6·7	0	0	19	6	3	4	4	0	0	0	2	3	0
Daltonganj	0830	221	1011·5	986·6	−0·2	25·9	22·2	20·0	23·8	71	−5	2·7	+0·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1007·4	982·7	..	28·2	22·7	19·6	23·2	59	..	3·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	1011·3	943·8	−0·2	24·6	20·4	18·1	21·0	69	+4	3·1	+0·6	5·7	0	0	22	6	0	2	7	3	1	0	3	9	0
	1730	,,	1008·2	940·9	..	24·8	20·6	18·2	21·2	68	..	3·4	..	6·4	0	0	26	8	2	3	4	1	0	0	8	5	0
Dhanbad	(R)0830	257																									
	(R)1730	,,																									
Dumka	0830	149	1010·4	993·6	−1·3	26·6	23·3	21·9	26·0	78	+6	1·7	−0·4	1·5	0	0	8	0	1	2	1	1	0	3	0	23	0
	1730	,,	1007·1	990·4	..	27·8	23·2	20·6	24·8	69	..	1·9	..	0·6	0	0	5	2	0	0	0	2	0	1	0	26	0
Bihar Plains—																											
Purnea	0830	38	1011·8	1007·6	+0·1	27·4	24·1	22·5	27·2	75	−5	1·3	−0·9	0·8	0	0	7	0	1	5	0	0	0	1	0	24	0
	1730	,,	1008·0	1003·7	..	27·7	24·8	23·4	29·1	78	..	1·0	..	0·2	0	0	1	1	0	0	0	0	0	0	0	30	0
Forbesganj	0830	61	1011·5	1004·6	..	26·2	23·6	22·0	25·7	75	..	1·6	..	2·9	0	0	25	1	3	12	1	0	0	1	5	8	0
	1730	,,	1007·5	1000·8	..	29·7	24·8	22·6	27·2	66	..	1·6	..	1·4	0	0	13	1	0	5	0	0	0	5	2	18	0
Darbhanga	0830	49	1010·1	1004·5	−1·5	28·2	24·0	22·0	26·4	69	−2	1·7	−0·2	3·4	0	0	27	1	8	9	1	1	2	5	0	4	0
	1730	,,	1008·3	1002·8	..	28·9	24·4	22·1	27·0	69	..	1·8	..	1·8	0	0	10	0	2	4	0	0	1	1	2	21	0
Motihari	0830	66	1007·3	999·8	−4·1	27·3	24·0	22·2	27·0	74	−3	0·8	−0·7	0·7	0	0	3	0	3	0	0	0	0	0	0	28	0
	1730	,,	1006·8	999·3	..	28·3	25·6	24·4	30·5	79	..	0·9	..	0·6	0	0	1	0	1	0	0	0	0	0	0	30	0
Chapra	0830	..	..	..	..	27·4	23·8	21·9	26·5	73	..	1·3	..	0·7	0	0	4	0	1	1	2	0	0	0	0	27	0
	1730	..	..	..	..	29·6	24·4	21·8	26·5	64	..	1·5	..	0·4	0	0	0	0	1	1	0	0	0	0	0	29	0
Patna	0830	53	1011·3	1005·3	−0·3	27·2	23·0	21·1	24·7	70	+1	1·6	−0·3	4·3	0	0	25	1	4	4	2	0	9	3	2	6	0
	1730	,,	1007·9	1002·0	..	28·8	23·3	20·3	24·0	60	..	1·7	..	3·8	0	0	26	1	4	3	2	6	7	3	0	5	0
Patna (Aerodrome)	0530	60	1009·3	1002·4	..	22·3	21·8	21·4	25·7	94	..	2·0	..	1·0	0	0	3	1	1	1	0	0	0	0	0	28	0
	0830	,,	1011·1	1004·2	..	27·0	23·6	21·9	26·4	74	..	1·8	..	4·9	0	0	16	0	1	4	4	1	4	2	0	15	0
	1130	,,	1010·3	1003·6	..	30·5	23·7	20·4	23·7	57	..	2·4	..	9·1	0	0	25	0	2	2	7	2	2	4	5	6	1
	1730	,,	1007·6	1000·8	..	29·1	24·7	22·5	27·4	69	..	1·8	..	2·0	0	0	6	0	0	2	2	1	0	0	1	25	0
	2330	52	1010·0	1004·0	..	25·7	24·1	23·7	28·6	87	..	1·5	..	0·6	0	0	1	0	0	0	1	0	0	0	0	30	0
Dehri	0830	107	1011·4	999·2	..	26·9	23·0	21·0	25·0	71	..	1·7	..	3·2	0	0	31	2	0	6	7	7	8	1	0	0	0
	1730	,,	1008·3	996·5	..	28·6	23·5	20·5	24·9	63	..	1·5	..	2·4	0	0	24	6	4	5	3	0	3	1	2	7	0

(R) Register not received. (i) Mean of 22 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed Km. p. h.: 62 or more	Wind speed Km. p. h.: 20 to 61	Wind speed Km. p. h.: 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(Contd.)																											
Gaya	0230	116	1009·7	996·3	..	23·0	22·0	21·5	25·7	91	..	1·9	..	4·6	0	0	21	0	0	5	1	12	3	0	0	10	0
	0530	"	1010·1	996·7	..	22·1	21·3	20·8	24·7	92	..	2·4	..	5·5	0	3	14	0	0	5	2	7	3	0	0	14	0
	0830	"	1012·0	998·7	+0·5	25·8	22·9	21·1	25·6	76	+8	2·6	+0·7	6·5	0	1	20	0	0	4	3	1	7	5	1	10	0
	1130	"	1011.0	998·0	..	30·3	23·4	19·8	24·6	54	..	2·7	..	9·5	0	5	24	4	2	6	4	1	3	7	2	2	0
	1730	"	1008·3	995·2	..	28.9	23·2	20·1	23·7	60	..	2·4	..	5·3	0	3	18	2	7	5	2	0	0	2	3	10	0
	2330	"	1010·5	997·2	..	24·2	22·5	21·6	27·3	86	..	1·7	..	4·7	0	1	17	0	0	6	2	4	6	0	0	13	0
Jamui	0830	82	1010·5	1001.1	..	25·6	23·6	22·4	27·6	82	..	1·7	..	3·0	0	0	18	2	0	7	0	0	0	4	5	13	0
	1730	"	1007·4	998·1	..	28·7	24·4	22·4	26·7	71	..	1·3	..	0·9	0	0	8	0	0	5	0	0	0	2	1	23	0
Bhagalpur	0530	49	1010·3	1004·7	..	23·6	22·5	21·8	26·4	90	..	2·6	..	3·0	0	0	15	1	0	5	2	3	3	1	0	16	0
	0830	"	1012·2	1006·6	..	27·7	24·0	22·0	26·9	72	..	2·3	..	4·4	0	0	23	1	1	7	2	0	4	5	3	8	0
	1130	"	1011·1	1005·6	..	29·9	24·2	21·1	26·0	61	..	2·8	..	6·3	0	0	27	4	1	7	4	0	0	4	7	4	0
	1730	"	1008·5	1003·0	..	28·2	24·5	22·5	27·8	71	..	2·3	..	3·1	0	0	18	2	0	5	0	0	3	4	4	13	0
	2330	"	1010·5	1005·0	..	25·2	23·4	22·6	27·5	85	..	1.5	..	2·9	0	0	19	1	0	5	6	0	6	0	1	12	0
Sabour	0830	37	1011·7	1007·4	—0·1	27·4	24·3	22·7	27·0	76	0	2·1	—0·5	2·6	0	0	18	0	0	9	0	1	6	1	1	13	0
	1730	"	1007·9	1003·7	..	28·1	25·1	23·4	29·4	75	..	2·3	..	0·6	0	0	4	0	0	4	0	0	0	0	0	27	0
Uttar Pradesh (East)																											
Gonda	0830	110	1011·5	999·0	..	25·0	22·5	21·3	25.3	79	+3	1·6	+0·2	2·6	0	0	20	2	1	10	1	0	0	1	5	11	0
	1730	"	1008·3	995·8	..	26·9	22·7	21·1	25·0	68	..	1·8	..	1·8	0	0	11	1	1	5	0	0	0	1	3	20	0
Nautanwa	0830	99	1011·4	1000.1	..	24·9	22·5	21 3	25·3	79	..	1·3	..	1·5	0	0	11	0	1	4	6	0	0	0	0	20	0
	1730	"	1007·9	996·7	..	28·1	23·5	21·0	24·9	66	..	1·1	..	1·7	0	0	13	1	0	3	3	0	1	3	2	18	0
Gorakhpur	0830	77	1011·3	1002·2	—0·4	27·6	23·2	20·0	23·4	66	—9	1·7	+0·5	3·1	0	0	31	2	1	8	4	3	2	9	2	0	0
	1730	"	1008·1	999·3	..	29·7	23·1	18·9	21·8	54	..	1·7	..	3·0	0	0	30	1	3	3	1	2	3	9	8	0	0
Gorakhpur (P.B.O.)	0230	78	1009·2	1000·2	..	23·8	22·1	21·1	25·0	85	..	1·6	..	2·6	0	0	12	2	5	3	0	0	0	2	0	19	0
	0530	"	1009·4	1000·5	..	23·0	28·7	21·2	25·2	89	..	1·6	..	1·9	0	0	12	3	5	2	0	0	1	0	1	19	0
	1130	"	1010·9	1002·0	..	29·9	22 5	18 5	21·3	51	..	2·7	..	5·5	0	0	30	0	2	6	4	8	2	4	4	1	0
	2330	"	1010·0	1001·0	..	24·8	22·2	20·8	24·6	79	..	1.9	..	2·3	0	0	10	1	7	1	0	0	0	1	0	21	0
Azamgarh	0830	78	1010.9	1002·0	..	25·8	22·1	20·1	23·5	71	..	1·3	..	2·3	0	0	22	0	0	15	0	0	0	7	0	9	0
	1730	"	1007·5	998·9	..	28·1	23·0	20·2	23·7	64	..	1·0	..	0·5	0	0	5	0	0	4	0	0	0	1	0	26	0
Ballia	0380	64	1011·0	1004·0	..	27·0	23·0	21·0	24 9	70	..	1·2	..	1·8	0	0	12	0	1	2	5	0	1	1	2	19	0
	1730	"	1008·2	1001·0	..	29·0	24·8	22·9	27·9	70	..	0·8	..	0·8	0	0	5	0	0	3	2	0	0	0	0	26	0
Varanasi (Banaras)	0830	76	1011·0	1002·3	—0·5	25·8	22·7	20·6	24·3	74	+5	1·5	—0·2	3·8	0	0	20	2	2	7	0	3	4	1	0	11	1
	1730	"	1007·9	999·4	..	29·1	22·8	18·8	21·7	56	..	1·8	..	2·8	0	0	18	2	4	3	1	0	2	0	6	13	0
Varanasi (Banaras) (Babatpur Aerodrome)	0530	85	1010·9	1001·0	..	20·6	19·9	19·4	22·5	93	..	1·4	..	3·0	0	0	11	0	1	5	0	2	3	0	0	2	0
	0830	"	1012·5	1002·7	..	26·2	22·6	20·6	24·3	72	..	1·4	..	7·2	0	1	24	1	1	5	3	6	6	3	0	6	0
	1130	"	1011·5	1002·0	..	31·0	23·1	18·5	21·3	49	..	1·8	..	9·4	0	4	27	0	2	3	7	2	6	4	6		1
	1730	"	1008·9	999·3	..	29·3	22·7	18·9	21 8	55	..	1·3	..	5.1	0	0	26	1	3	5	2	0	1	4	10		0
	2330	"	1011·3	1001·4	..	22·8	21·0	19·9	23.2	84	..	1·4	..	4·7	0	1	16	1	2	6	1	0	2	2	3	14	0
Allahabad (Bamrauli)	0230	98	1009·0	997·8	..	22·0	20·4	19·4	22·5	85	..	1·8	..	1·9	0	0	8	0	1	6	0	0	0	1	0	23	0
	0530	"	1009·4	998·1	..	21·0	19·9	19·2	22·2	89	..	1·8	..	2·5	0	1	8	0	3	4	0	0	1	1	0	22	0
	0830	"	1011·1	1000·0	—0·3	26·1	22·0	19·6	22·8	68	+1	1·7	0	4·3	0	0	21	0	3	4	3	4	2	2	3	10	0
	1130	"	1010·6	999·6	..	31·2	22·7	17·3	19·7	47	..	2·4	..	5·7	0	0	25	4	1	7	1	3	1	5	3	6	0
	1730	"	1007·9	996·9	..	28·8	23·0	19·8	23·1	60	..	1·7	..	2·0	0	0	8	1	1	5	0	0	0	0	1	23	0
	2330	"	1009·9	998·7	..	23·0	20·7	19·2	22·2	79	..	1·8	..	2·1	0	0	7	0	0	5	1	0	1	0	0	24	0
Sultanpur	0830	97	1010·4	999·5	..	28·8	23·4	20·2	23·7	62	..	1·6	..	1·5	0	0	13	0	2	5	1	0	2	2	1	18	0
	1730	"	1006·9	996·4	..	29.1	23.7	20·7	24·4	62	..	2·5	..	1·2	0	0	11	0	1	9	0	0	1	0	0	20	0
Faizabad	0830	102	1011·1	999·6	..	25·6	22·3	20·4	23·9	74	..	1·6	..	2·5	0	0	20	1	0	2	6	0	4	3	4	11	0
	1730	"	1007·8	996 4	..	27·2	23·7	21·9	26·3	73	..	2·1	..	1·4	0	0	5	0	0	3	2	0	0	0	0	26	0
Banda	0830	121	1011·3	997·5	..	25·6	22·3	20·7	24·4	75	..	1·6	..	1·2	0	0	7	0	2	1	3	0	0	1	0	24	0
	1730	"	1008·0	994·4	..	28·5	24·1	21·9	26·3	68	..	1·6	..	1·3	0	0	10	0	4	0	2	0	1	0	3	21	0
Fatehpur	0830	114	1011·1	998·0	..	24·7	22·2	20·7	24·4	80	+12	1·5	+0·2	2·6	0	0	17	0	1	6	2	1	2	3	2	14	0
	1730	"	1007·8	995·1	..	27·7	23·4	21·1	25·0	68	..	1·8	..	1·1	0	0	7	1	2	3	0	0	0	0	1	24	0
Kanpur	0830	126	1011·6	997·2	+0·2	24·0	21·7	20·3	23·8	80	+12	1·8	+1·1	5·6	0	0	31	1	3	6	1	1	1	10	8	0	0
	1730	"	1008·5	994·3	..	28·1	22·9	19·9	23·2	63	..	1·7	..	5·4	0	0	31	7	3	4	0	0	0	5	12	0	0
Kanpur (Aerodrome)	0530	126	1009·5	995·4	..	21·0	19·9	19 2	22·2	90	..	1·8	..	4·0	0	2	9	0	1	3	3	1	1	1	1	20	0
	0830	"	1011·0	996·7	..	24·9	22·0	20·2	23·7	76	..	1·9	..	7·0	0	4	17	1	1	6	3	0	2	7	1	10	0
	1130	"	1010·7	996·6	..	29·8	22·5	17·9	20·5	53	..	2·0		9·5	0	3	26	2	3	6	3	0	3	9	3	2	0
	1730	"	1007·9	993·7	..	28·9	22·4	18·4	21·1	56	..	1·9	..	5·5	0	1	16	4	3	4	1	0	0	2	3	14	0
	2330	"	1010·0	995·5	..	23·1	21·3	20·2	23·7	84	..	1·6	..	4·7	0	0	15	1	3	3	2	1	2	2	1	16	0
Lucknow (R)	0830	11																									
	1730	"																									

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Wind speed (Km. p.h.): Mean wind speed, in km. per hour	62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—(Contd.)																											
Lucknow (Amausi Aerodrome)	2330	128	1009·0	994·3	..	21·3	20·7	20·4	23·9	94	..	1·9	..	4.1	0	2	8	1	3	4	1	0	0	1	0	21	0
	0530	,,	1009·3	994·6	..	20·4	19·9	19·6	23·2	96	..	1·8	..	3·9	0	3	3	0	1	4	1	0	0	0	0	25	0
	0830	,,	1011·0	996·5	−0·3	24·9	22·2	20·8	24·6	79	+22	1·7	+0·7	4·2	0	0	14	2	1	3	2	0	2	3	1	17	0
	1130	,,	1010·7	996·3	..	29·2	23·1	19·4	22·5	59	..	2·1	..	8·1	0	2	23	3	2	4	3	0	2	4	7	6	0
	1730		1007·8	993·8	..	27·9	23·6	21·8	26·1	71	..	2·0	..	6·0	0	3	9	3	3	2	1	0	0	1	2	19	0
	2330	,,	1009·9	995·2	..	22·1	21·3	20·9	24·7	93	..	2·0	..	3·9	0	1	8	3	6	0	0	0	0	0	0	22	0
Hardoi	0830	142	1011·1	994·9	..	23·6	21·6	20·4	24·0	82	..	1·7	..	3·7	0	0	19	3	1	5	1	1	0	7	1	12	0
	1730	,,	1007·9	991·9	..	28·2	24·2	22·2	26·7	71	..	1·6	..	1·5	0	0	10	6	1	2	0	0	0	1	0	21	0
Lakhimpur Kheri (R)	0830	147																									
	1730	,,																									
Bahraich (R)	0830	124	1011·6	997·4	+0·4	25·3	22·2	20·4	24·0	74	+1	1·8	+0·8	4·4	0	0	25	2	0	11	2	1	0	6	3	6	0
	1730	,,	1008·8	994·8	..	27·1	22·5	19·8	23·1	66	..	2·1	..	4·0	0	1	24	2	1	4	0	0	1	16	1	6	0
Uttar Pradesh (West)																											
Orai	0830	141	1012·8	997·1	..	25·8	22·1	19·8	23·1	73	..	1·9	..	3·1	0	0	30	1	0	0	1	0	2	0	26	1	0
	1730	,,	1008·0	992·2	..	29·4	23·0	19·5	22·7	59	.	1·9	..	3·1	0	0	30	8	4	3	2	2	2	1	8	1	0
Jhansi	0830	251	1010·7	982·2	−1·3	24·6	20·1	17·1	19·5	65	+10	2·2	+1·2	1·1	0	0	11	1	2	5	0	0	0	2	1	20	0
	1730	,,	1007·6	979·6	..	28·7	21·8	17·3	19·7	54	..	(a) 2·3	..	(a) 1·1	0	0	11	2	0	4	1	0	0	2	2	19	0
Agra	0830	169	1011·2	992 0	−0·2	24·3	20·0	17·3	19·7	67	+15	1 5	+0·7	1·3	0	0	9	0	0	1	2	2	3	1	0	22	0
	1730	,,	1008·3	989·4	..	28·2	22·8	19·4	22·5	62	..	1·5	..	1·9	0	0	7	0	3	2	1	0	1	0	0	24	0
Agra (Aerodrome)	0530	169	1009·9	990·4	..	18·9	17·7	16·8	19·1	88	..	2·0	..	2·9	0	1	8	0	4	2	0	1	2	0	0	22	0
	0830	,,	1011·6	991·8	..	23·2	19·8	17·5	20·0	72	..	2·0	..	4·3	0	0	16	1	4	2	2	2	4	1	0	15	0
	1130	,,	1010·9	991·6	..	29·5	20·9	15·4	17·5	48	..	2 0	..	7·0	0	1	22	1	5	4	1	0	5	3	4	8	0
	1730	,,	1008·0	988·8	..	28·1	21·5	17·3	19·7	55	..	1·7	..	4·9	0	2	14	2	10	3	0	0	0	0	1	15	0
	2330	,,	1010·4	990·7	..	20·9	18·8	17·1	19·5	83	..	1·6	..	2·5	0	1	8	0	4	3	0	0	1	1	0	22	0
Mainpuri	0830	157	1009·7	991·7	−1·5	23·8	21·3	19·7	22·9	78	+16	1·5	+0·5	2·1	0	0	20	0	0	1	3	1	1	9	5	11	0
	1730	,,	1007·8	990·2	..	28·8	24·0	21·3	25·2	66	..	1·5	..	1·3	0	0	12	0	2	0	2	0	1	5	2	19	0
Aligarh	0830	187	1011·3	989·8	..	23·1	20·1	18 2	20·9	74	+23	1·9	+1·4	2·6	0	0	20	0	0	9	0	1	0	10	0	11	0
	1730	,,	1007·8	987·1	..	28·5	22·9	19·7	22·9	61	..	1·6	..	2·3	0	0	15	5	0	8	0	1	0	1	0	16	0
Bareilly	0830	173	1011·4	991·6	+0·1	23·9	21·2	20·2	23·7	77	+4	1·5	+0·6	2·3	0	0	14	1	1	9	3	0	0	0	0	17	0
	1730	,,	1008·1	988·6	..	26·4	22·0	19·4	22·5	67	..	1 5	..	1·3	0	0	4	0	2	2	0	0	0	0	0	27	0
Bareilly (P.B.O.)	0230	172	1009·2	989·5	..	22·1	20·5	19·6	22·8	86	..	1·6	..	4·3	0	2	13	0	4	7	2	1	0	1	0	16	0
	0530	,,	1009·6	989·7	..	21·2	19·8	19·0	22·0	87	.	1·9	..	4·7	0	1	16	1	6	7	0	0	1	2	0	14	0
	1130	,,	1011·0	991·5	..	27·0	21·3	18·3	21·0	59	..	1·7	..	6·3	0	2	22	1	3	8	1	0	1	6	4	7	0
	2330	,,	1009·9	990·3	..	23·0	20·7	19·5	22·7	81	..	1·6	..	4·1	0	1	13	0	5	6	1	0	1	1	0	17	0
Meerut	0830	222	1011·7	986·4	+0·5	23·2	19·7	17·6	20·1	71	+4	1·2	+0·7	2·2	0	0	15	0	2	7	1	0	0	4	1	16	0
Najibabad	0830	270	1012·0	981·2	..	20·9	18·5	16·4	18·6	77	..	1·3	..	3·6	0	0	23	5	1	7	4	0	0	0	5	8	0
	1730	,,	1008·8	978·9	..	28·6	22·4	18·8	21·7	57	.	1·1	..	1·9	0	0	14	0	2	0	4	0	0	3	5	17	0
Roorkee	0830	274	1011·6	980·4	0	22·2	19·2	17·3	19·7	74	+2	2· (	+2·0	0 8	0	0	8	0	1	0	4	0	0	0	3	23	0
	1730	,,	1008·2	977·6	..	27·6	21·2	17·3	19·7	55	..	2·8	..	0·5	0	0	6	0	0	0	4	0	0	0	2	25	0
Dehra Dun	0530	682	1011·4	934·3	..	17.0	14·4	12·5	14·5	75	..	1·3	..	3·9	0	0	26	9	15	0	0	0	0	0	2	5	0
	0830	,,	1011·9	935·9	+0·3	21 7	17·0	13·5	15·5	62	−6	1·1	+0·1	1·0	0	0	10	4	4	0	1	0	0	0	1	21	0
	1130	,,	1011·2	936·2	..	25·9	18·6	13·8	15·8	49	.	1·2	..	3·5	0	0	29	1	1	1	0	7	12	6	1	2	0
	1730	,,	1008·3	933·6	..	25.5	20·3	17·5	19·9	62	..	1·1	..	0·6	0	0	6	0	0	0	1	1	1	2	1	25	0
	2330	,,	1011·5	935·1	..	19·3	15·9	13·5	15·5	70	..	1·1	..	3·3	0	0	25	13	9	0	0	0	1	1	1	6	0
Punjab (India) (Including Delhi)																											
New Delhi	0230	216	1010·0	985·0	..	20·4	18·2	16·7	19·0	80	..	1·5	..	3·6	0	0	13	0	2	6	1	0	1	2	1	18	0
	0530	,,	1010·1	985·1	..	19·4	17·1	15·1	17·1	77	..	1·5	..	5·0	0	0	18	0	3	6	0	0	2	6	1	13	0
	0830	,,	1011·5	986·8	+0·1	23·1	18·7	15·6	17·7	64	+6	1·7	+0·8	0·8	0	0	27	2	2	5	2	0	2	12	2	4	0
	1130	,,	1011·1	986·9	..	29·2	20·8	15·0	17·0	46	..	1·5	..	8·2	0	2	28	2	3	7	3	0	1	5	9	1	0
	1730	,,	1008·2	984·1	..	29·0	21·0	15·8	17·9	48	..	1·4	..	5·0	0	0	22	7	3	3	1	0	0	0	8	9	0
	2330	,,	1010·5	985·7	..	21·5	18·3	16·3	18 5	73	..	1·4	..	2·8	0	0	11	0	3	1	2	2	1	0	2	20	0
New Delhi (Palam Aerodrome)	0230	233	1009·7	983·0	..	20·9	18·2	16·2	18·4	75	..	1·4	..	7·4	0	1	22	0	4	6	3	5	3	1	1	8	0
	0530	,,	1010·1	983·2	..	19·0	17·2	16·7	17·8	82	..	1·5	..	7·4	0	1	21	1	3	6	2	4	4	1	1	9	0
	0830	,,	1011·6	985·0	..	22·6	19·2	16·6	18·9	71	..	1·6	..	10·2	0	3	26	2	2	6	2	3	12	2	0	2	0
	1130	,,	1011·1	985·0	..	29·4	21·6	16·5	18·8	50	.	1·5	..	13·1	0	6	25	3	5	5	3	0	3	7	5	0	0
	1430	,,	1008·4	982·6	..	31·0	21·6	15·4	17·5	43	..	1·9	..	16·7	0	9	22	1	6	5	1	0	0	6	12	0	0
	1730	,,	1008·3	982·2	..	28·8	21·0	16·0	18·1	49	..	1·4	..	10.9	0	4	26	11	8	3	1	0	0	0	7	1	0
	2030	,,	1009·8	983·6	..	24·3	19·8	16·7	19·0	65	..	1·1	..	5·2	0	2	16	4	4	4	1	2	0	1	2	13	0
	2330	,,	1010·4	983·8	.	22·1	18·5	15·8	17·9	69	..	1·3	..	5.3	0	0	19	0	5	6	2	4	0	1	1	12	0
Hissar	0530	221	1010·7	985·0	..	18·3	16·7	15·4	17·5	84	..	1·5	..	5·6	0	0	30	2	2	4	6	1	11	2	2	1	0
	0830	,,	1011·8	986·5	+0·2	22·2	18·9	16·8	19·1	73	+19	1·1	+0·5	4·0	0	0	26	4	0	2	2	7	7	3	1	5	0

(R) Register not received.

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi) (*Contd.*)																											
Hissar	1130	221	1011·5	986·8	..	29·8	22·0	17·4	19·9	50	..	1·4	..	4·7	0	0	27	0	3	3	7	3	8	1	2	4	0
	1730	"	1008·6	983·9	..	39·2	22·2	18·2	20·9	53	..	1·1	..	4·0	0	0	25	3	7	4	1	4	0	0	6	6	0
	2330	"	1010·8	985·4	..	21·4	18·2	15·8	17·9	72	..	0·9	..	5·3	0	0	31	0	3	7	7	2	6	2	4	0	0
Karnal	0830	249	1011·5	983·0	..	23·7	19·5	16·9	19·3	64	..	1·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	1007·9	980·2	..	27·3	20·3	15·8	17·3	48	..	0·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Patiala	0830	251	1011·7	983·1	..	23·2	18·7	15·1	17·1	61	..	1·1	..	2·4	0	0	14	0	0	2	9	0	0	0	3	17	0
	1730	"	1008·7	980·7	..	27·3	19·9	15·5	17·6	49	..	1·3	..	0·8	0	0	4	0	0	0	1	0	0	0	3	27	0
Ambala	0830	272	1011·6	980·5	+0·2	22·0	18·3	15·6	17·8	68	+8	0·7	0	1·3	0	0	8	0	1	0	5	0	1	0	1	23	0
	1730	"	1007·8	977·7	..	29·2	20·6	14·7	16·7	43	..	0·6	..	1·7	0	0	16	0	7	0	8	0	0	0	1	15	0
Ambala (P.B.O.)	0230	278	1009·7	978·0	..	21·0	17·7	15·7	17·8	72	..	0·8	..	2·7	0	0	17	3	2	4	7	0	0	0	1	14	0
	0530	"	1009·9	978·0	..	19·4	16·8	15·2	17·3	77	..	0·9	..	2·6	0	0	14	1	2	4	6	0	0	1	0	17	0
	1130	"	1011·0	980·0	..	28·2	20·9	17·1	19·5	52	..	1·3	..	5·4	0	0	25	3	1	2	8	1	2	4	4	6	0
	2330	"	1009·7	978·5	..	22·9	18·2	15·3	17·4	64	..	0·8	..	4·6	0	0	24	6	0	6	2	2	0	2	6	7	0
Ambala (Aerodrome)	0530	274	1010·3	978.4	..	16·5	15·5	14·7	16·7	89	..	1·1	..	3·2	0	1	8	0	1	6	1	0	0	0	1	22	0
	0830	"	1011·5	980·1	..	21·1	17.9	16·0	18·2	71	..	1·3	..	5·7	0	2	12	1	0	8	3	1	0	0	1	17	0
	1130	"	1011·0	980.3	..	28·7	21·1	16·4	18·6	49	..	1·5	..	10·1	0	3	21	0	0	4	9	1	1	1	8	7	0
	1730	"	1007·8	977·3	..	28·3	20·0	14 6	16·1	47	..	1·2	..	7·5	0	1	22	0	0	1	1	0	0	6	15	8	0
	2330	"	1010·5	979·1	..	19·5	17·0	15·1	17·1	76	..	0 9	..	3·3	0	2	6	0	0	6	1	0	0	0	1	23	0
Chandigarh	0830	347	1011·3	972·4	..	25·7	18·2	12·6	14·6	46	..	0·5	..	1·6	0	0	12	0	0	0	1	0	0	0	11	19	0
	1730	"	1007·7	969·3	..	28·5	19·1	12·1	14·0	37	..	0·8	..	0·8	0	0	6	0	1	1	0	0	0	0	4	25	0
Ludhiana	0830	247	1011·0	983·0	−0·2	22·4	17·9	14·7	16·7	62	+1	0·4	0·2	4·0	0	0	17	2	3	1	9	0	0	0	2	14	0
	1730	"	1007·9	980·2	..	29·9	20·6	14·4	16·4	40	..	0·6	..	1·9	0	0	14	1	4	1	2	3	0	2	1	17	0
Halwara (Aerodrome).	0830	242	1012·0	984·4	..	22·5	18·4	15·5	17·6	65	..	0·5	..	6·6	0	0	18	4	0	0	10	1	0	0	3	13	0
	1730	"	1008·9	982·1	..	30·4	20·3	13·3	15·3	36	..	0·6	..	7·7	0	0	30	4	2	1	6	0	1	1	15	1	0
Bhatinda	0830	211	1011·6	987·6	..	25·5	20·0	16·3	18·5	58	..	0·3	..	(a) 4·2	0	0	23	2	0	2	6	1	6	1	5	7	0
	1730	"	1007·9	984·6	..	32·3	21·2	13·5	15·5	32	..	0·5	..	(a) 5·0	0	0	28	4	3	1	4	1	2	0	13	2	0
Ferozepur	0830	200	1011·3	988·2	..	21·3	17·4	14·5	16·5	66	..	0·1	..	0·6	0	0	6	0	3	1	2	0	0	0	0	25	0
	1730	"	1007·7	985·6	..	31·6	21·4	14·7	16·7	37	..	0·1	..	0·9	0	0	9	0	1	0	0	0	0	0	8	22	0
Amritsar	0530	234	1010·7	983·4	..	15·9	14·8	13·9	15·9	88	..	0·1	..	4·6	0	1	15	1	5	8	0	2	0	0	0	15	0
	0830	"	1011·9	985·1	..	21·4	17·8	15·3	17·4	69	..	0·1	..	4·5	0	1	19	2	2	9	3	2	1	0	1	11	0
	1130	"	1011·4	985·3	..	30 1	20·3	13·5	15·5	37	..	0·2	..	8·8	0	2	27	5	0	6	4	3	3	2	6	2	0
	1730	"	1008·5	982·3	..	30·1	20·5	14·1	16·1	38	..	0·1	..	5·5	0	0	25	7	0	1	1	0	1	1	14	6	0
Pathankot (Aerodrome).	0830	312	1011·9	976·5	..	22·9	16·9	12·1	14·1	52	..	0·5	..	1·2	0	0	11	1	6	0	2	0	0	1	1	20	0
	1130	"	1011·3	976·7	..	28·9	19·4	12·5	14·5	37	..	0·8	..	1·9	0	0	19	0	1	2	6	6	3	0	1	12	0
	1730	"	1008·1	973·7	..	29·7	19·2	11·2	13·3	33	..	0·8	..	1·6	0	0	16	0	2	0	0	0	2	7	5	15	0
Adampur (Aerodrome).	0530	238																									
	0830	"																									
(R)	1130	"																									
(R)	1730	"																									
(R)	2330	"																									
Himachal Pradesh																											
Bilaspur	0830	493	1013·7	957·4	..	19·0	15.8	13·6	15·6	71	..	1·0	..	0	0	0	1	0	0	0	0	1	0	0	0	30	0
	1730	"	1008·3	953·9	..	27·9	18·8	12·9	14·9	40	..	1·0	..	2·6	0	0	25	0	0	0	0	3	3	10	8	6	1
Mandi	0830	761	1013·9	927·9	..	16·0	13·9	12·4	14·4	78	..	0·7	..	0·4	0	0	4	0	1	0	1	0	1	0	1	27	0
Jammu and Kashmir	1730	"	1007·3	924·5	..	25·3	17·7	13·1	15·1	47	..	1·2	..	0·6	0	0	6	0	0	0	0	2	1	0	3	25	0
Srinagar	0830	1587	1534·5	845·0	+0·4	9·0	6·6	4·3	8·3	73	−13	0·5	−1·4	0 6	0	0	6	1	0	0	3	0	1	1	0	25	0
	1130	"	1524·9	844·2	..	18·8	11·0	3·8	8·0	38	..	0·9	..	0·5	0	0	5	0	0	0	2	0	0	2	0	26	1
	1730	"	1493·8	841·0	..	18·4	11·2	4·9	8·7	41	..	2·2	..	1·4	0	0	8	0	0	1	1	0	1	3	2	23	0
Srinagar (Aerodrome)	0530	1666	1515·6	835·3	..	7·4	4·5	1·0	6·4	64	..	0·5	..	1·4	0	0	6	0	0	1	4	0	0	1	0	25	0
	0830	"	1527·5	836·7	..	11·5	7·0	2·2	7·2	53	..	0·1	..	2·4	0	0	12	2	0	1	0	1	0	1	7	19	0
	1130	"	1521·3	836·4	..	18·3	10·2	2·3	7·3	35	..	1·1	..	4·9	0	0	25	10	6	4	0	0	0	1	4	6	0
	1730	"	1490·1	833·1	..	19·9	10·5	1·2	6·7	30	..	2·5	..	5·9	0	1	18	2	0	0	0	2	0	5	10	12	0
	2330	"	1510·3	834·9	..	12·0	6·9	1·5	6·8	49	..	0·8	..	3·4	0	0	11	0	0	0	0	0	4	5	2	20	0
Gulmarg (R)	0830	2655																									
(R)	1730	"																									
Leh	0530	3514	3121·4	667·3	..	0	−5·7	−9·3	2·8	47	..	(a) 0·6	..	(a) 8·9	0	0	26	8	17	1	0	0	0	0	0	4	0
	0830	"	3133·6	668·8	−0 3	7·0	0·5	−9·8	2·6	28	−18	0·8	−1·4	3·2	0	0	19	0	0	0	0	8	11	0	0	12	0
	1730	"	3074·7	664·7	..	11·9	4·8	−3·9	4·4	34	..	1·5	..	10·3	0	0	31	0	0	0	0	10	12	6	3	0	0

(a) Mean of 30 days.

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—(*Contd.*)																											
Skardu . (R)	0830																										
(R)	1730																										
Gilgit . (R)	0830																										
(R)	1730																										
Misgar . (R)	0830																										
(R)	1730																										
Jammu .	0830				Temporarily closed																						
Jammu(Aerodrome)	0530	292	1010·8	977·0	..	19·3	15·7	12·7	14·7	67	..	0·4	..	7·3	0	0	19	0	13	3	3	0	0	0	0	12	0
	0830	,,	1011·8	978·4	..	22·4	16·7	12·6	14·6	53	..	0·4	..	6·8	0	0	22	0	5	1	1	0	0	1	0	9	0
	1130	,,	1011·4	978·7	..	29·1	20·0	13·7	15·7	40	..	0·6	..	3·9	0	0	16	1	3	0	3	1	3	3	2	15	0
	1730	,,	1007·9	975·4	..	30·2	20·7	14·3	16·3	39	..	0·6	..	3·8	0	0	17	0	1	1	1	2	3	7	2	14	0
Rajasthan (West)																											
Sri Ganganagar .	0530	177	1010·3	989·8	..	18·9	14·9	11·1	13·2	62	..	0·2	.	0·9	0	0	8	0	0	4	1	0	1	1	1	23	0
	0830	,,	1011·4	990·9	..	20·6	15·8	11·5	13·6	58	+8	0·3	+0·1	1·3	0	0	11	0	0	3	3	2	2	0	1	20	0
	1130	,,	1011·0	991·3	..	31·9	19·7	10·1	12·3	27	..	0·4	..	2·9	0	0	25	1	1	2	5	4	9	0	3	6	0
	1730	,,	1007·7	988·2	..	32·5	20·8	12·4	14·4	30	..	0·4	..	1·5	0	0	9	1	1	1	3	0	2	0	1	22	0
	2330	,,	10,0·2	989·9	..	21·9	16·5	12·1	14·1	54	..	0·1	..	0·8	0	0	6	1	1	2	1	0	1	0	0	25	0
Churu .	0830	291	1011·6	978·8	..	22·0	17·3	13·5	15·5	60	..	1·5	..	4·3	0	0	23	0	2	3	2	9	4	3	0	8	0
	1730	,,	1007·7	975·7	..	31·7	21·7	15·0	17·0	40	..	1·7	..	8·5	0	0	30	19	3	1	0	0	1	0	6	1	0
Bikaner .	0830	224	1011·4	985·8	0	23·2	15·1	6·5	9·7	37	−10	0·2	−0·4	4·0	0	0	23	0	2	1	9	2	3	4	2	8	0
	1730	,,	1007·3	982·7	..	34·9	19·5	7·5	10·4	22	..	0·1	..	5·0	0	0	29	7	7	0	2	1	4	2		2	0
Bikaner (P.B.O.) .	0530	224	1009·9	984·1	..	19·4	16·2	13·8	15·8	71	..	0·4	..	1·6	0	0	8	0	3	0	1	1	2	1	0	23	0
	1130	,,	1010·6	985·9	..	33·4	25·8	22·2	26·8	53	..	0·7	..	5·3	0	0	26	4	3	1	3	3	6	5	1	5	0
	2330	,,	1010·2	984·6	..	23·0	18·4	15·2	17·3	63	..	0·5	..	1·8	0	0	10	0	3		0	0	2	2	1	21	0
Jaisalmer	0830	242	1010·6	983·5	..	26·0	18·0	11·3	13·4	42	..	0·1	..	6·3	0	0	23	5	3		1	7	6	0	0	8	0
	1730	,,	1006·7	980·4	..	35·1	20·9	11·0	13·1	24	..	0·3	..	11·5	0	0	28	7	3	1	0	6	7	2	2	3	0
Phalodi	0830	234	1011·5	984·9	..	24·7	18·8	14·6	16·6	56	..	0·9	..	8·4	0	1	26	2	3	2	7	4	3	5	1	4	0
	1730	,,	1008·2	982·5	..	34·6	24·0	17·3	19·7	41	..	1·1	..	11·8	0	3	27	8	4	1	1	0	3	9	4	1	0
Nagaur .	0830	298	1010·9	977·3	..	25·9	16·8	7·1	10·1	36	..	1·3	..	5·1	0	0	27	4	3	5	4	4	4	2	1	4	0
	1730	,,	1006·5	973·8	..	32·9	19·0	6·9	9·9	24	..	1·4	..	8·9	0	0	31	8	5	1	1	1	2	6	7	0	0
Jodhpur .	0230	224	1009·3	983·9	..	24·7	16·0	7·6	10·4	36	..	0·5	..	6·3	0	0	25	4	12	0	3	0	1	5	0	6	0
	0530	,,	1009·8	984·1	..	22·2	15·0	8·1	10·8	43	..	0·8	..	5·9	0	0	22	4	14	1	0	0	2	1	0	9	0
	0830	,,	1011·4	985·9	+1·0	24·9	16·2	7·8	10·6	37	−14	1·2	+0·2	5·2	0	1	16	0	10	2	0	0	3	0	1	14	1
	1130	,,	1010·9	986·1	..	32·5	19·2	7·8	10·6	25	..	1·1	..	6·6	0	0	26	4	4	3	3	1	4	4	3	5	0
	1730	,,	1007·2	982·6	..	34·4	19·6	6·9	9·9	20	..	1·3	..	7·3	0	1	22	4	5	1	0	0	3	4	6	8	0
	2330	,,	1009·9	984·7	..	26·6	16·8	7·5	10·4	32	..	0·6	..	6·7	0	0	24	5	9	1	0	0	1	7	1	7	0
Barmer .	0530	194	1008·7	986·6	..	24·3	16·8	10·0	12·3	44	..	0·4	..	6·3	0	0	30	1	1	3	5	0	2	3	15	1	0
	0830	,,	1010·5	988·5	−0·7	25·1	17·6	11·1	13·2	45	−11	0·3	−0·4	6·0	0	0	28	1	3	0	9	1	2	2	10	3	0
	1130	,,	1010·1	988·7	..	34·1	20·3	9·2	11·6	24	..	0·7	..	7·7	0	0	31	3	8	2	7	6	1	1	3	0	0
	1730	,,	1006·5	985·3	..	35·1	19·7	6·9	9·9	19	..	1·6	..	6·8	0	0	30	3	6	2	3	1	7	4	4	1	0
	2330	,,	1009·0	987·2	..	28·3	17·6	8·3	10·9	30	..	0·6	..	5·1	0	0	31	2	0	0	1	3	8	5	12	0	0
Rajasthan (East)																											
Pilani .	0830	301	1011·8	977·7	..	23·9	17·5	12·2	14·2	51	..	1·3	..	9·8	0	0	31	1	4	4	5	6	8	3	0	0	0
	1730	,,	1008·3	975·1	..	30·3	19·5	10·7	12·9	35	..	1·2	..	9·1	0	1	29	15	5	5	0	0	1	1	3	1	0
Alwar .	0830	271	1010·6	979·6	..	21·9	18·2	16·1	18·3	74	..	2·2	..	0·7	0	0	6	1	4	0	0	0	0	1	0	25	0
	1730	,,	1008·0	977·9	..	29·1	20·6	14·6	16·6	45	..	2·2	..	2·2	0	0	16	4	3	3	0	1	0	2	3	15	0
Sikar .	0830	433	1011·1	962·8	..	25·0	18·1	13·1	15·2	52	..	1·9	..	2·4	0	0	25	0	2	7	5	4	2	5	0	6	0
	1730	,,	1007·0	959·8	..	31·1	20·4	13·0	14·9	36	..	2·1	..	2·5	0	0	26	1	7	0	1	0	1	12	4	5	0
Jaipur (Sangarur Aerodrome)	0230	390	1009·6	965·3	..	20·6	16·3	12·4	14·4	62	..	1·7	..	4·2	0	0	24	7	7	6	1	1	0	0	2	7	0
	0530	,,	1010·0	965·5	..	19·5	15·7	12·2	14·2	65	..	2·0	..	4·4	0	0	28	7	6	7	1	0	0	2	5	3	0
	0830	,,	1010·9	967·1	−1·2	24·8	18·2	13·4	15·4	53	+6	1·7	+0·7	4·5	0	0	21	3	5	5	2	0	0	2	4	10	0
	1130	,,	10 0·0	967·1	..	30·6	20·3	12·6	14·6	38	..	2·0	..	7·6	0	0	29	1	5	4	3	1	3	5	7	2	0
	1730	,,	1007·1	964·2	..	30·3	19·8	12·7	14·7	37	..	2·0	..	5·1	0	0	28	6	6	3	1	0	1	0	11	3	0
	2330	,,	1010·1	966·0	..	22·2	17·0	12·4	14·4	55	..	1·6	..	6·2	0	0	27	3	10	9	0	0	0	2	3	4	0
Dholpur .	0830	176	1010·8	990·6	..	23·3	20·1	18·0	20·6	73	..	2·1	..	1·5	0	0	16	2	4	1	3	3	1	2	0	15	0
	1730	,,	1007·3	987·6	..	27·9	22·0	18·4	21·1	59	..	1·9	..	1·3	0	0	7	1	5	0	0	0	0	0	1	24	0
Tonk .	0830	272	1010.5	979·5	..	24·3	18·6	14·5	16·5	59	..	1·9	..	5·1	0	0	29	5	2	4	4	1	2	2	9	2	0
	1730	,,	1006·3	976·3	..	31·0	20·9	14·5	16·5	39	..	2·0	..	4·8	0	0	29	14	6	1	0	0	3	2	3	2	0
Ajmer .	0830	486	1011·7	957·2	−0·7	23·0	16·7	12·2	14·2	52	+5	1.8	+0·9	3·7	0	0	19	2	5	1	2		3	3	1	12	0
	1730	,,	1006·8	954·0	..	31·1	18·0	7·5	10·4	26	..	2·1	..	5·5	0	0	25	4	6	1	0	0	4	8	2	6	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—(Contd.)																											
Kotah	0530	257	1010·0	980·6	..	21·4	17·1	13·6	15·6	63	..	0·9	..	0·5	0	0	5	0	0	0	1	0	0	0	4	26	0
	0830	"	1011·4	982·3	−0·5	25·2	18·8	13·8	15·8	52	+3	1·4	+0·1	0·8	0	0	5	0	1	0	1	0	1	1	1	26	0
	1130	"	1010·7	982·2	..	30·9	20·9	13·7	15·7	39	..	1·7	..	0·8	0	0	7	0	1	2	0	0	1	0	3	24	0
	1730	"	1007·6	979·3	..	31·2	20·8	13·0	15·0	36	..	1·8	..	0·4	0	0	4	0	1	0	0	0	1	0	2	27	0
	2330	"	1009·9	980·9	..	24·9	18·5	13·5	15·5	52	..	1·0	..	0·2	0	0	2	0	0	0	1	0	1	0	0	29	0
Chambal	0830	351	1011·8	972·1	..	22·6	18·2	14·9	16·9	63	..	2·5	..	1·6	0	0	9	2	3	1	0	0	1	1	1	22	0
	1730	"	1007·3	968·9	..	31·1	20·4	12·4	14·4	34	..	2·9	..	7·5	0	0	29	2	13	2	0	0	2	4	5	2	0
Jhalawar	0830	321	1011·4	975·1	−0·6	22·9	18·4	14 9	16·9	62	+1	1·5	+0·1	1·3	0	0	12	3	2	0	2	0	1	1	3	19	0
	1730	"	1006·9	971·8	..	32·1	20·7	11·5	13 6	35	..	1·8	..	3·6	0	0	27	5	10	2	0	0	1	3	6	4	0
Udaipur	0230	582	1010·8	945·1	..	18·6	15·1	12·6	14·6	67	..	0·5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0530	"	1011·4	945·3	..	17·1	14·4	12·3	14·3	74	..	0·7	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	"	1011·7	947·0	−0·6	23·1	17·2	13·3	15·3	55	−2	0·7	−0·1	0·7	0	0	5	3	0	0	0	0	0	1	1	26	0
	1130	"	1009·9	946·8	..	31·1	18·3	9·3	11·7	28	..	1·5	..	2·7	0	0	20	4	4	0	2	2	1	2	5	11	0
	1730	"	1006·9	944·0	..	30·2	18·8	10·5	12·7	33	..	2·0	..	2·4	0	0	15	1	2	0	2	0	4	3	3	16	0
	2330	"	1011·4	946·1	..	20·5	15·7	12·2	14·2	59	..	1·0	..	0·3	0	0	2	2	0	0	0	0	0	0	0	29	0
Erinpura (Jawai Dam)	0830	295	1011·2	977·8	..	24·6	19·1	15·7	17·8	61	..	0·7	..	6·4	0	0	22	1	0	1	1	17	1	0	1	9	0
	1730	"	1007·3	974·9	..	31·9	22·8	17·6	20·1	44	..	1·3	..	3·1	0	0	20	6	3	0	0	3	0	4	4	11	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1009·3	985·5	..	19·8	18·1	16·9	19·4	84	..	1·8	..	2·2	0	0	15	3	1	0	4	5	2	0	0	16	0
	0530	"	1009·7	985·8	..	18·6	17·4	16·6	20·1	88	..	2·3	..	3·0	0	1	11	2	1	1	2	1	2	2	1	19	0
	0830	"	1011·0	987·8	−0·5	24·2	20·0	17 1	20·0	67	+8	2·2	+1·4	3·1	0	0	17	3	1	2	0	2	4	2	3	14	0
	1130	"	1010·5	987·4	..	29·7	21·0	15·0	17·9	46	..	2·2	..	5·6	0	0	30	3	1	2	2	0	5	9	8	1	0
	1730	"	1007·8	984·7	..	28·6	22·1	18 0	21·3	56	..	1·9	..	2·7	0	0	13	0	7	2	2	1	0	0	1	18	0
	2330	"	1010·2	986·4	..	20·6	18·6	17·3	19·9	82	..	1·7	..	2·2	0	0	12	1	2	0	3	4	2	0	0	19	0
Sheopur Kalan	0830	235	1011·5	984·8	..	22·5	20·1	17·8	21·5	73	..	2·2	..	4·9	0	0	26	5	4	1	9	7	0	0	0	5	0
	1730	"	1007·7	981·2	..	29·4	22·6	18·6	21·7	55	..	2·1	..	5·7	0	0	28	7	8	5	4	1	0	0	3	3	0
Guna	0530	478	1010·4	955·8	..	17·8	15·5	13·5	15·5	77	..	2·3	..	1·3	0	0	13	2	1	1	4	2	0	1	2	18	0
	0830	"	1011·2	957·7	−0·8	24·4	18·5	14·1	17·0	57	−5	2·5	+1·3	2·3	0	0	18	3	0	1	0	8	0	6	0	13	0
	1130	"	1010·2	957·7	..	29·2	19·3	11 9	15·2	41	..	2·3	..	4·3	0	0	26	7	2	1	1	0	3	5	7	5	0
	1730	"	1007.4	954·9	..	28·4	18·9	12·0	15·6	41	..	2·5	..	4·8	0	1	24	13	6	1	0	0	0	0	5	6	0
	2330	"	1010·7	956·7	..	20·2	16·5	13 6	16·1	67	..	1·8	..	1·3	0	0	12	2	3	2	5	0	0	0	0	19	0
Rajgarh	0830	382	1011·0	968·0	..	23·4	18·1	14·1	17·0	58	..	1·5	..	2·4	0	0	12	7	0	0	1	0	0	1	3	19	0
	1730	"	1006·9	965·1	..	30·8	19·7	10·9	13·9	33	..	2·3	..	4·5	0	0	26	18	3	0	0	0	0	1	4	5	0
Neemuch	0830	496	1011·8	956·4	−0·5	23·9	17·1	11·7	14 6	50	−5	2·0	+0·8	5·1	0	0	25	5	9	3	1	0	3	4	0	6	0
	1730	"	1007·8	953·8	..	30·7	18·2	8·3	11·9	28	..	2·2	..	8·0	0	0	28	7	13	0	0	0	4	4	0	3	0
Ratlam	0830	486	1011·8	957·4	..	23·9	18·2	14·1	16·1	58	..	2·2	..	2·2	0	0	13	2	3	0	0	1	4	3	0	18	0
	1730	"	1006·8	953·9	..	30·6	19·5	12·1	14·6	34	..	2·0	..	4·7	0	0	20	3	4	5	0	0	2	3	3	11	0
Alirajpur	0830	293	1012·1	979·0	..	23·8	19·4	16·1	20·0	64	..	2·0	..	3·2	0	0	16	0	1	5	0	0	2	7	1	15	0
	1730	"	1007·5	975·3	..	32·2	21·1	13·4	16·0	36	..	1·5	..	5·8	0	0	25	2	0	0	1	0	3	14	5	6	0
Indore	0530	567	1010·6	946·5	..	18·7	15·8	13·7	15·4	74	..	1·8	..	5·0	0	0	19	1	1	0	0	4	7	2	4	12	0
	0830	"	1011·4	948·4	−0·2	24·1	19·1	15·9	18·4	62	+7	1·8	+0 2	7·8	0	1	22	2	2	1	0	4	5	4	5	8	0
	1130	"	1009·9	948·1	..	29·3	20·5	15·1	17·8	45	..	1·9	..	10·9	0	2	26	4	6	4	0	0	2	4	4	3	4
	1730	"	1007·0	945·2	..	29·0	20·0	14 5	16·9	43	..	2·4	..	12·3	0	5	23	4	12	3	0	1	2	2	3	3	1
	2330	"	1010·8	947·3	..	21·4	17·1	14·0	16·2	64	..	1·8	..	5·5	0	1	20	1	3	0	0	4	6	4	3	10	0
Ujjain	0830	..	..	..	..	23·4	18·3	14·8	17·4	60	..	1·2	..	4·8	0	0	18	3	1	2	2	0	1	2	7	13	0
Bhopal (Bairagarh)	0230	523	1009·7	950·7	..	19·7	16·7	13·8	16·7	68	..	2·1	..	4·5	0	0	23	3	3	2	1	7	3	1	3	8	0
	0530	"	1010·3	951·0	..	19·1	16·0	13·6	16·0	72	..	2·5	..	4·8	0	0	28	4	4	2	2	7	4	1	4	3	0
	0830	"	1011·4	953·0	−0·7	24·1	18·4	14·3	17·1	57	−5	2·3	+0·5	6·4	0	0	27	6	2	2	4	3	1	0	9	4	0
	1130	"	1009·9	952·6	..	29·2	19·4	12·3	15·5	39	..	2·3	..	11·4	0	1	30	6	4	5	3	4	1	3	5	0	0
	1730	"	1007·3	950·0	..	27·9	19·1	12·7	15·5	44	..	3·0	..	9·2	0	1	29	11	10	1	3	3	0	0	2	1	0
	2330	"	1010·6	951·8	..	21·5	17·2	13·9	16·6	65	..	2·5	..	5·1	0	0	23	4	8	0	3	4	2	1	1	8	0
Khandwa	0830	318	1011·6	975·6	−0·4	23·8	19·3	16·2	18·8	64	+2	2·4	+0·6	2·4	0	0	22	1	1	2	3	4	3	4	4	9	0
	1730	"	1007·2	972·1	..	30·0	20·7	13·8	16·9	41	..	2·9	..	4·2	0	0	25	8	6	4	1	1	3	1	1	6	0
Hoshangabad	0830	302	1011·2	977·0	−1·4	23·1	19·5	18·3	19·8	70	+2	2·8	+1·0	1·6	0	0	14	1	4	5	1	2	0	1	0	17	0
	1730	"	1007·2	973·7	..	29·0	22·2	17·1	21·4	52	..	3·1	..	1·2	0	0	8	1	4	2	0	0	0	1	0	23	0
Betul	0830	653	1011·6	939·1	..	23·0	18·9	15·9	18·8	68	..	3·1	..	2·0	0	0	16	2	0	3	4	1	2	3	1	15	0
	1730	"	1007·8	936·1	..	25·9	19·7	15·6	18·4	56	..	3·5	..	4·9	0	0	31	7	14	1	1	0	0	4	4	0	0
Chhindwara	0830	685	1011.3	935·5	..	22·7	18·7	16·0	16·6	67	..	3·2	..	0·9	0	0	6	0	4	1	1	0	0	0	0	25	0
	1730	"	1007·4	992·5	..	25·8	18·6	13·1	16·1		..	4·0	..	3·4	0	0	23	5	9	2	0	1	0	2	4	8	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.)																											
Seoni	0830	619	1010·6	942·0	−1·0	23·3	19·6	17·2	20·1	71	+10	3·6	+1·7	1·2	0	0	10	1	7	0	0	0	2	0	0	21	0
	1730	,,	1007·4	939·5	..	25·8	19·7	15·5	18·5	58	..	3·7	..	2·2	0	0	19	0	12	0	2	0	1	0	0	12	0
Sagar	0830	551	1010·8	949·4	−0·9	23·5	19·0	16·0	18·7	67	+12	2·6	+0·8	2·8	0	0	22	0	5	5	3	0	4	3	2	9	0
	1730	,,	1007·3	946·8	..	26·8	19·8	15·1	18·0	54	..	2·9	..	3·3	0	0	24	0	8	8	0	0	0	4	4	7	0
Nowgong	0830	229	1011·5	985·4	−0·4	22·5	20·4	19·0	22·3	81	+12	2·0	+0·3	4·3	0	0	25	0	4	3	0	7	11	0	0	6	0
	1730	,,	1008·0	982·5	..	28·2	22·7	19·5	23·2	62	..	2·3	..	1·4	0	0	10	0	7	0	0	0	1	0	2	21	0
Madhya Pradesh (East)																											
Satna	0530	317	1009·5	973·3	..	29·8	19·1	18·6	21·5	92	..	2·7	..	2·3	0	0	13	0	0	6	0	0	5	2	0	18	0
	0830	,,	1010·7	975·1	−0·6	23·4	20·7	19·1	22·1	77	+10	2·0	+0·2	2·8	0	0	24	0	0	10	3	0	2	8	1	7	0
	1130	,,	1009·9	974·7	..	29·0	21·7	16·9	19·9	57	..	2·7	..	5·4	0	0	29	0	2	12	2	0	9	0	4	2	0
	1730	,,	1007·6	972·3	..	27·1	21·5	17·9	21·1	59	..	2·3	..	2·0	0	0	22	6	8	4	0	0	1	1	2	9	0
	2330	,,	1010·0	973·7	..	21·9	20·1	18·9	22·1	83	..	2·2	..	1·2	0	0	6	0	0	4	0	0	0	0	2	25	0
Sidhi	0830	..	..	..	..	24·8	20·9	18·6	21·5	69	..	1·7	..	1·5	0	0	16	0	1	5	3	0	1	5	1	15	0
	1730	..	..	..	..	28·8	21·2	16·3	19·2	50	..	1·7	..	1·7	0	0	16	3	3	5	1	3	0	1	0	15	0
Umaria	0830	459	1011·2	959·6	..	23·8	20·3	18·5	21·4	72	+5	2·7	+0·8	2·9	0	0	25	0	0	14	4	2	1	1	2	6	1
	1730	,,	1007·5	956·8	..	27·8	21·7	18·8	21·4	62	..	2·7	..	1·7	0	0	19	1	3	4	3	0	3	3	2	12	0
Jabalpur	0530	393	1010·0	965·3	..	19 2	18·5	18·1	20·8	93	..	2·8	..	2·0	0	0	15	0	1	0	11	2	1	0	0	16	0
	0830	,,	1011·3	967·0	−0·5	23·3	20·4	18·6	21·5	75	+4	2·9	+1·2	3·0	0	0	22	0	2	2	10	6	2	0	0	9	0
	1130	,,	1009·6	966·3	..	29·0	21·9	17·0	20·6	52	..	2.4	..	4·0	0	0	26	3	2	1	7	5	1	5	2	5	0
	1730	,,	1007·4	963·9	..	27·8	21·3	16·9	19·9	55	..	3·0	..	2·7	0	0	22	5	9	2	4	0	1	0	1	9	0
	2330	,,	1010·2	965·8	..	21·4	19·7	18·3	21·6	84	..	2·7	..	1·8	0	0	14	0	1	3	7	3	0	0	0	17	0
Mandla	0830	443	1011·5	961·8	..	21·8	19·7	18·4	22·0	82	..	3·2	..	0·1	0	0	1	0	0	0	0	1	0	0	0	30	0
	1730	,,	1007·4	958·4	..	26·4	21·1	17·6	20·7	62	..	3·2	..	0·6	0	0	5	1	1	0	0	1	0	0	2	26	0
Pendra	0530	625	1010·3	940·0	..	18·8	17·1	15·7	18·3	83	..	3·2	..	3·3	0	0	27	8	0	3	3	1	3	6	3	4	0
	0830	,,	1011·0	941·9	−0·8	22·8	19·5	17·4	20·3	73	+6	3·1	+0·7	3·7	0	0	27	9	2	2	4	2	3	2	3	4	0
	1130	,,	1009·8	941·4	..	26·5	20·1	16·0	18·9	56	..	3·4	..	6·1	0	0	31	9	6	4	3	4	1	2	2	0	0
	1730	,,	1007·7	939·0	..	24·8	20·2	17·4	20·2	66	..	3·9	..	3·9	0	0	26	8	0	2	3	4	3	1	5	5	0
	2330	,,	1010·7	940·8	..	20·0	17·9	16·5	18·9	81	..	2·6	..	3·4	0	0	27	4	0	1	0	5	8	4	5	4	0
Ambikapur	0830	611	1011·5	943·5	..	22·6	19·7	18·1	20·8	76	..	2·5	..	5·5	0	0	26	2	4	3	5	4	6	2	0	5	0
	1730	,,	1007·9	940·8	..	25·8	21·0	18·5	21·9	66	..	3·1	..	7·3	0	0	29	12	4	3	4	2	2	1	1	2	0
Champa	0830	245	1011·4	983·6	..	23·9	21·5	20·2	25·1	80	..	3·5	..	2·9	0	0	24	12	2	5	1	1	1	0	2	7	0
	1730	,,	1007·8	980·4	..	27·7	22·6	19·7	23·3	64	..	3·7	..	3·3	0	0	22	5	3	7	0	3	0	2	2	9	0
Raigarh	0830	220	1010·9	986·0	..	24·9	21·8	20·0	23·6	75	..	4·0	..	2·7	0	1	17	0	10	4	1	1	1	0	0	14	0
	1730	,,	1007·3	982·7	..	27·8	22·3	19·1	22·6	62	..	3·7	..	0·9	0	0	8	0	3	1	2	0	0	0	2	23	0
Raipur	0530	298	1009·9	975·8	..	21·9	20·8	20·2	23·7	90	..	4·1	..	1·8	0	0	9	3	3	1	1	0	1	0	0	22	0
	0830	,,	1011·2	977·6	−0·3	25·2	22·2	20·5	24·3	76	+5	3·9	+1·6	4·5	0	0	24	6	6	2	2	5	3	0	0	7	0
	1130	,,	1010·0	976·9	..	28·7	22·8	19·4	23·0	59	..	3·6	..	5·0	0	0	26	5	5	1	5	3	0	5	2	5	0
	1730	,,	1007·7	974·5	..	27·3	22·6	19·5	24·4	64	..	4·3	..	3·2	0	0	13	3	3	2	1	1	1	1	1	18	0
	2330	,,	1009·9	976·3	..	23·5	20·9	19·8	22·5	81	..	3·5	..	2·3	0	0	13	2	3	1	2	0	4	0	1	18	0
Kanker	0830	402	1011·0	966·0	−0.3	23 6	21.3	20·0	23·4	80	+1	3 3	0	0·2	0	0	2	0	1	0	0	0	1	0	0	29	2
	1730	,,	1007·2	962·8	..	27·3	23·3	21·0	25·5	70	..	3·9	..	0.9	0	0	9	0	5	0	1	0	1	0	2	22	4
Jagdalpur	0530	553	1009·5	947·6	..	20·0	19·3	18·8	21·9	93	..	4·3	..	0·9	0	0	9	1	3	0	3	0	0	1	1	22	0
	0830	,,	1010·7	949·4	−0·1	23·8	20·9	19·4	22·6	77	−2	3·5	+0·3	2·3	0	0	14	2	6	0	1	2	1	1	1	17	0
	1130	,,	1008·9	948·5	..	27·4	21·4	18·1	21 1	58	..	4·3	..	5·8	0	0	27	4	13	2	0	0	2	2	4	4	0
	1730	,,	1007·2	946·4	..	25·4	21·4	19·3	22·6	70	..	5·1	..	2·2	0	0	17	2	7	2	1	2	1	1	1	14	0
	2330	,,	1009·9	948·2	..	21·4	20·1	19·3	22·5	88	..	3·8	..	1·1	0	0	10	2	3	1	0	0	2	2	0	21	0
Gujarat																											
Deesa	0830	136	1011·5	995·9	−0·5	24·6	18·9	14·4	16·4	56	..	0·4	..	3·3	0	0	27	3	9	4	6	1	0	2	2	4	0
	1730	,,	1006·7	991·8	..	35·4	20·4	9·5	11·9	21	..	1·5	..	4·1	0	0	30	1	8	4	1	2	2	4	8	1	0
Radhanpur	0830	30	1011·1	1007·7	..	25·1	21·2	18·6	21·4	69	..	0·1	..	4·0	0	0	18	4	3	1	0	1	2	4	3	13	0
	1730	,,	1007·3	1004·0	..	36·1	23·4	16·1	18·3	32	..	0·6	..	6·9	0	1	24	5	1	2	0	0	3	7	7	6	0
Idar	0830	219	1011·2	986·4	..	25·7	18·7	13·1	15·1	49	..	1·5	..	2·8	0	0	16	3	6	0	2	0	2	2	1	15	0
	1730	,,	1007·0	983·0	..	33·7	20·6	10·9	13·0	27	..	1·3	..	5·4	0	0	27	3	6	5	0	0	5	8	0	4	0
Ahmedabad	0230	55	1009·1	1002·7	..	22·9	18·2	14·5	16·5	61	..	0·6	..	3·8	0	0	13	0	1	3	1	2	0	3	3	18	0
	0530	,,	1009·4	1003·0	..	21·6	17.5	14·1	16·1	65	..	0·8	..	3·1	0	0	15	1	2	2	2	1	0	4	3	16	0
	0830	,,	1011·2	1004·9	−0.8	25·8	19·2	14·0	16·0	51	−13	1.0	−0·3	5·0	0	0	18	1	3	5	1	1	1	2	4	13	0
	1130	,,	1011·1	1004·9	..	33·3	21·4	12·5	14·5	32	..	0·8	..	9·9	0	2	24	2	4	7	1	2	3	1	6	5	0
	1730	,,	1007·4	1001·3	..	35·0	20·7	9·9	12·2	24	..	1·3	..	5·3	0	1	16	5	1	1	2	0	3	3	2	14	0
	2330	,,	1009·9	1003·6	..	24·8	19·1	14·9	16·9	55	..	0·8	..	5·2	0	0	16	0	1	3	1	4	4	3	0	15	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat—(*Contd.*)																											
Dohad	0830	333	1010·9	973·5	..	24·6	19·3	15·4	17·5	58	−13	1·7	−0·4	7·6	0	0	27	0	5	3	4	4	4	6	0	4	1
	1730	,,	1006·1	969·9	..	33·6	20·7	10·3	12·5	27	..	1·4	..	11·9	0	2	29	4	2	2	0	1	12	10	0	0	0
Baroda	0530	34	1009·6	1005·6	..	21·0	19·1	17·8	20·4	82	..	1·3	..	1·5	0	0	15	0	1	1	3	3	5	0	2	16	0
	0830	,,	1011·6	1007·6	..	24·3	20·8	18·5	21·3	71	−1	0·9	−0·5	1·7	0	0	16	0	4	1	4	3	3	1	0	15	0
	1130	,,	1011·4	1007·5	..	32·6	23·3	17·6	20·1	43	..	1·1	..	2·1	0	0	19	1	5	2	4	1	2	2	2	12	0
	1730	,,	1007·8	1003·9	..	32·5	23·2	17·8	20·4	43	..	0·9	..	1·8	0	0	17	1	4	1	1	2	5	1	2	14	0
	2330	,,	1010·2	1006·2	..	23·2	20·0	17·9	20·5	73	..	0·8	..	1·7	0	0	14	0	3	2	1	1	5	1	1	17	0
Baroda (Aerodrome)	0830	38	1011·3	1007·0	..	24·7	20·4	17·4	19·9	65	..	1·6	..	7·2	0	0	30	3	0	1	9	10	1	4	2	1	0
	1130	,,	1011·2	1007·0	..	32·4	22·6	16·4	18·6	41	..	1·7	..	7·6	0	0	31	3	4	2	6	5	5	2	4	0	0
	1730	,,	1007·6	1003·4	..	33·6	21·9	13·9	15·9	33	..	1·5	..	7·3	0	0	29	0	3	1	2	4	2	10	7	2	0
Broach	0830	17	1011·0	1009·0	..	24·6	20·9	18·4	21·1	71	..	2·2	..	4·8	0	0	31	4	3	0	10	10	3	0	1	0	0
	1730	,,	1007·2	1005·3	..	34·4	23·1	16·2	18·4	36	..	1·6	..	5·5	0	0	31	0	5	0	14	2	6	0	4	0	0
Surat	0530	12	1009·5	1008·1	..	23·4	20·8	19·2	22·2	78	..	1·2	..	7·1	0	0	24	2	2	5	5	7	3	0	0	7	0
	0830	,,	1011·4	1010·1	0	25·9	21·7	19·0	22·0	68	0	1·3	−0·9	6·7	0	0	29	1	5	5	6	4	5	1	2	2	0
	1130	,,	1011·4	1010·1	..	32·5	23·2	18·6	21·4	44	..	2·1	..	6·1	0	0	23	3	3	5	2	6	2	1	1	8	0
	1730	,,	1008·0	1006·7	..	32.3	23·2	17·3	19·7	45	..	1·6	..	6·3	0	0	29	2	2	3	2	3	13	3	1	2	0
	2330	,,	1010·1	1008·8	..	25·6	22·1	19·9	23·2	72	..	1·5	..	4·5	0	0	20	2	2	1	1	6	5	1	2	11	0
Saurashtra and Kutch																											
Naliya	0830	..	..	..	..	23·2	21·9	21·0	24·9	89	..	2·9	..	4·4	0	0	22	0	8	0	3	0	4	1	6	9	0
	1730	..	..	..	..	31·4	22·8	17·5	20·0	45	..	0·7	..	16·5	0	5	26	0	1	0	0	0	18	8	4	0	0
Bhuj (Aerodrome)	0230	80	1009·6	1000·4	..	24·4	22·6	21·8	26·1	85	..	0·2	..	3·8	0	0	11	0	0	0	0	0	3	4	4	20	0
	0530	,,	1009·8	1000·5	..	21·8	20·7	20·1	23 5	90	..	0·5	..	1·5	0	0	6	0	0	0	0	0	1	3	2	25	0
	0830	,,	1011·5	1002·3	−0·1	25·3	22·7	21·3	25·3	79	+22	0·5	−0·6	5·5	0	0	19	2	0	0	0	0	7	3	7	12	0
	1130	,,	1011·3	1002·3	..	33·1	26·5	23·4	28·8	59	..	0·2	..	12·9	0	6	22	9	6	1	0	0	1	3	8	3	0
	1730	,,	1007·6	998·7	..	35·6	25·5	20·2	23·7	43	..	0·9	..	14·0	0	4	25	7	3	1	2	2	4	5	4	2	1
	2330	,,	1010·3	1001·2	..	26·6	24·1	22·9	27·9	80	..	0·2	..	7·3	0	0	21	0	0	0	0	0	4	10	7	10	0
Bhutakia Bhimasar	0830	47	1010·7	1005·2	..	26·2	22·4	20·1	23·5	71	..	0·4	..	17·5	0	9	22	6	1	0	0	0	1	6	17	0	0
	1730	,,	1007·5	1002·2	..	36·0	24·7	18·7	21·6	37	..	0·5	..	16·9	0	8	23	9	3	2	1	2	4	2	8	0	0
New Kandla	0830	14	1011·9	1010·2	..	26·0	20·9	17·7	20·2	62	..	0·8	..	12·0	0	1	29	5	1	0	2	0	3	7	12	1	0
	1730	,,	1008·4	1006·8	..	33·3	22·8	15·7	17·8	39	..	1·0	..	18·8	0	15	16	5	1	0	1	2	17	5	0	0	0
Mandvi	0830	9	1011·4	1010·3	..	25·1	22·2	20·1	23·5	78	..	1·1	..	14·2	0	6	22	7	1	0	0	0	1	0	11	3	8
	1730	,,	1008·7	1007·6	..	29·2	25·3	23·5	28·9	72	..	1·0	..	29·2	0	10	21	0	0	0	0	0	6	17	1	0	7
Dwarka	0830	11	1011·7	1010·4	−0·2	24·8	23·6	23·1	28·3	90	+11	1·1	−0·8	7·7	0	1	29	6	3	0	1	4	1	8	7	1	0
	1730	,,	1009·1	1007·8	..	27·8	25·4	24·2	30·2	81	..	0·7	..	15·5	0	5	26	2	0	0	0	0	1	17	11	0	0
Porbander	0830	7	1011·9	1011·1	..	25·3	23·4	22·4	27·1	85	..	2·5	..	12·7	0	0	31	4	0	0	0	0	1	4	22	0	0
	1730	,,	1008·9	1008·1	..	29·1	25·6	24·1	30·0	75	..	1·9	..	20·3	0	12	19	0	0	0	0	0	0	17	14	0	0
Porbander (Aerodrome)	0830	7	1011·7	1010·9	..	25·9	23·5	22·2	26·7	81	..	1·6	..	10·2	0	5	19	6	0	1	1	0	1	1	14	7	0
	1130	,,	1011·6	1010·8	..	32·6	24·9	20·6	24·3	54	..	0·5	..	16·1	0	9	21	3	4	2	0	1	5	8	7	1	0
	1730	,,	1008·6	1007·8	..	30·1	25·2	22·6	27·4	67	..	0·8	..	23·3	0	19	12	0	0	0	0	0	1	23	7	0	0
Jamnagar	0530	23	1009·7	1007·1	..	22·8	20·9	19·7	22·9	83	..	1·2	..	7·4	0	1	25	0	0	1	1	3	7	13	1	5	0
	0830	,,	1011·5	1008·9	−0·2	26·3	22.6	20·5	24·1	72	−7	1·3	−0·2	9·3	0	2	25	0	1	1	0	3	7	13	2	4	0
	1130	,,	1011·6	1009·1	..	31·9	22·9	17·4	19·9	44	..	0·6	..	14·8	0	4	27	5	7	1	0	0	0	14	4	0	0
	1730	,,	1008·2	1005·7	..	31·9	22·5	16·1	18·3	43	..	1·3	..	21·0	0	15	16	7	2	0	0	0	0	12	10	0	0
	2330	,,	1010·4	1007·8	..	25·4	23·1	21·9	26·3	81	..	0·9	..	14·3	0	6	25	1	2	0	0	0	5	19	4	0	0
Rajkot (Aerodrome)	0830	138	1011·6	995·9	−0·2	25·6	22·5	20·5	24·1	75	+4	1·0	−0·8	11·9	0	6	21	1	1	2	0	0	2	7	14	4	0
	1130	,,	1011·1	995·8	..	32.8	23·7	18·1	20·8	45	..	0·2	..	16·3	0	7	24	4	10	0	0	0	0	2	15	0	0
	1730	,,	1007·2	992·2	..	35·3	23·7	16·8	19·1	35	..	0·9	..	13·9	0	8	22	5	5	1	2	0	0	2	15	1	0
Surendranagar	0830	74	1011·2	1002·8	..	26·4	21·5	18.5	21·3	63	..	0·5	..	7·6	0	0	30	3	1	1	1	0	1	9	14	1	0
	1730	,,	1007·2	999·1	..	35·6	26·9	22·2	26·7	49	..	1·4	..	5·1	0	0	24	1	7	0	1	0	1	3	11	7	0
Bhavnagar	0830	17	1011·7	1009.8	+0·1	27·1	..	..	..	..	..	0·5	−1·7	2·8	0	0	26	1	1	1	1	1	5	4	12	5	0
	1730	,,	1007·9	1006·1	..	34·2	..	..	..	..	..	1·4	..	7·0	0	0	28	1	4	6	11	5	1	0	0	3	0
Bhavnagar (Aerodrome).	0830	11	1011·3	1010·1	..	26·7	21·1	17·7	20·2	59	..	0·8	..	12·2	0	0	27	3	1	0	0	0	4	10	9	4	0
	1130	,,	1011·3	1010·1	..	32·6	23·7	18·9	21·8	46	..	0·7	..	14·9	0	3	27	4	4	15	1	1	1	1	3	1	0
	1730	,,	1007·7	1006·5	..	34·1	24·0	18·6	21·4	41	..	1·2	..	16·2	0	5	25	0	5	9	8	8	0	0	0	1	0
Mahuva	0830	9	1011·5	1010·5	..	25·8	20·4	16·8	19·1	59	..	1·2	..	6·4	0	0	28	8	5	1	0	0	3	6	5	3	0
	1730	,,	1008·3	1007·3	..	30·9	23·4	19·1	22·1	52	..	2·3	..	10·6	0	1	30	0	0	5	8	11	6	1	0	0	0
Keshod	0830	51	1012·0	1006·1	..	24·0	20·7	18·2	20·9	74	..	2·3	..	10·2	0	2	25	4	7	3	0	1	0	6	6	4	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperatur in °C: Dry bulb	Mean temperatur in °C: Wet bulb	Mean temperatur in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount Oktas: Mean amount	Cloud amount Oktas: Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—*Contd.*																											
	1130	51	1011·7	1006.0	..	32·3	21·7	13·9	15·9	38	..	0·5	..	15 0	0	3	28	8	9	1	0	0	2	5	6	0	0
	1730	,,	1008·4	1002·7	..	32·8	21·4	12·7	14·7	35	..	0·8	..	27·0	0	25	6	0	4	0	0	1	8	15	3	0	0
Veraval	0230	8	1009·7	1008·8	..	23·1	21·3	20·1	23·5	85	..	1·8	..	10·1	0	1	26	17	1	0	0	0	0	2	7	4	0
	0530	,,	1009·7	1008·8	..	22·1	20·6	19·4	22·5	86	..	1·7	..	12·9	0	4	24	17	1	0	0	0	0	0	10	3	0
	0830	,,	1011·3	1010·4	−0·3	24·9	21.7	19·4	22·5	75	+9	2·2	+0·4	14·7	0	9	19	15	5	0	1	0	0	2	6	3	0
	1130	,,	1011·6	1010·7	..	30·5	24·6	19·1	22·1	59	..	0·9	..	15·3	0	8	22	3	3	0	0	1	5	10	8	1	0
	1730	,,	1008·8	1007·9	..	27·9	25·2	23·8	29·5	79	.	1 5	..	16·5	0	8	23	0	0	0	0	2	8	10	11	0	0
	2330	,,	1010·8	1009·9	..	24·3	22·9	22·1	26·6	88	..	1·5	..	8·4	0	1	25	8	2	0	0	0	0	5	11	5	0
Konkan Dahanu	0830	5	1011·1	1010·6	+0·1	26·4	22·2	19 8	25·1	68	—13	3·0	+0·1	9·9	0	3	28	2	2	6	14	3	2	2	0	0	0
	1730	,,	1007·9	1007·4	..	29·4	24·9	22·8	27·7	69	..	3·1	..	15·1	0	3	28	12	3	0	0	2	5	3	6	0	0
Bombay (Colaba)	0830	11	1011·4	1010·2	+0·1	26·4	24·3	23·2	28·4	83	+2	4·2	+1·1	5·5	0	0	28	1	4	10	4	3	3	2	1	3	0
	1130	,,	1011.5	1010.3	..	29 9	25·1	22·7	27·6	67	..	3.4	..	5·5	0	0	26	1	3	10	8	1	2	4	2	5	0
	1730	,,	1008·6	1007·4	..	28·9	25·6	24.1	30 0	76	..	3·0	..	8.2	0	1	28	3	0	0	1	2	1	7	15	2	0
Bombay (Santacruz Aerodrome).	0230	15	1009·4	1007·7	..	23·9	22·3	21·4	25·5	87	..	3·0	..	3·7	0	0	11	0	1	3	4	0	1	2	0	20	0
	0530	,,	1009·5	1007·8	..	23·8	21·9	20·6	24·3	84	..	3·9	..	5·7	0	0	20	1	3	11	1	1	1	2	0	11	0
	0830	,,	1011·5	1009·8	+0.1	26·6	22·8	20 4	24 0	72	—10	4·0	+0·9	6·8	0	1	20	0	3	7	5	1	2	3	0	10	0
	1130	,,	1011·4	1009·7	..	30·6	23.8	19 9	23·2	57	..	3·8	..	8·5	0	0	24	2	2	7	3	3	2	3	2	7	0
	1730	..	1008.5	1006·9	..	29·3	24·3	21·8	26·1	66	..	3·3	..	9·1	0	0	27	4	0	1	0	0	3	6	13	4	0
	2330	,,	1010·6	1008·9	..	24.6	22·8	21·8	26·1	85	..	2·6	..	3·2	0	0	11	0	2	2	1	1	1	2	2	20	0
Alibag	0830	7	1011·3	1010·5	+0.2	26·3	23.1	21·2	25·2	76	0	3·9	0	5·0	0	0	24	2	8	7	3	1	1	1	1	7	0
Harnai	0830	20	1011.3	1009.0	+0 8	26·9	23·1	20·7	24.4	71	—3	5.2	..	7·3	0	3	15	1	0	7	4	2	3	1	0	13	1
	1730	,,	1008·5	1006·2	..	28.3	24·9	23·2	28 4	74	..	4·6	..	14·9	0	9	19	2	0	0	1	1	5	6	13	3	0
Ratnagiri	0830	35	1011·4	1007·4	+0·4	26·2	23·4	21·9	26·3	79	..	4·1	..	..	..	..	..	0	1	22	1	0	0	7	0	0	0
	1730	,,	1008 5	1004·6	..	28·8	25·0	23·3	28·6	73	..	4·2	..	..	..	..	..	0	0	0	0	0	0	31	0	0	0
Devgad	0830	36	1011·3	1007·3	+0·5	26·1	23·8	22·5	27 3	82	—2	4·5	+0.3	8·6	0	0	30	1	2	15	2	2	0	3	5	1	0
	1730	,,	1008·4	1004·4	..	29·1	26·0	24 6	30·9	77	..	4·6	..	15·6	0	5	26	0	0	0	0	0	1	7	23	0	0
Vengurla	0230	9	1009·5	1008·5	..	24·2	23·4	23·0	28·1	93	..	3·7	..	0·5	0	0	4	1	3	0	0	0	0	0	0	27	0
	0530	,,	1009·7	1008 7	..	23 9	23·0	23·4	27·1	92	..	3·4	..	2·7	0	0	16	5	5	3	0	0	1	2	0	15	0
	0830	,,	1011·8	1010·8	..	25·8	23 7	22.5	27·3	83	..	4·4	..	3 3	0	0	19	1	4	6	3	1	1	2	1	12	0
	1130	,,	1011·5	1010·5	..	30·2	25·0	22 4	27·1	66	..	3·8	..	5·8	0	0	30	0	2	6	3	2	13	2	2	1	0
	1730	,,	1008·8	1007·8	..	28·6	25·3	23·7	29 3	75	..	4·3	..	5·5	0	0	30	0	0	1	0	0	11	12	6	1	0
	2330	,,	1010·9	1009 9	..	24·8	23·9	23·3	28·9	92	..	3·6	..	2 0	0	0	12	9	2	0	0	0	0	0	1	19	0
Maharashtra (Including Marathwada) Nandurbar	0830	206	1011·7	988·3	..	25·1	20·3	16·7	19·0	63	..	1·2	..	6 4	0	0	27	0	3	6	0	0	11	6	1	4	0
	1730	,,	1007·5	984·7	..	31·9	21·4	13·9	15·9	38	..	1·8	..	6 6	0	0	28	2	5	3	0	0	9	5	4	3	0
Jalgaon	0830	201	1012·0	989·0	..	23·2	19·4	16·7	19 0	67	..	2·1	..	9·7	0	1	27	1	0	9	5	1	2	5	5	3	0
	1730	,,	1007·4	985.2	..	31·6	21·2	13·4	15·4	38	..	2·8	..	11·0	0	4	25	7	5	9	1	0	2	1	4	2	0
Malegaon	0830	437	1012·1	962·7	—0·4	21·9	18·0	14·7	16·7	65	+2	2·0	—0·6	2·6	0	1	10	0	0	0	0	0	1	4	6	20	0
	1730	,,	1006·7	959·1	..	31·4	19·9	10·4	12·6	32	..	3·3	..	12·5	0	6	21	5	10	2	1	1	0	1	7	4	0
Deolali	0830	571	1012·6	948·9	..	22·9	19·5	17·5	20 0	72	..	2·7	..	6.6	0	2	19	8	2	0	0	0	7	4	0	10	0
	1730	,,	1008·3	946·1	..	28·7	20·9	16·5	18·8	51	..	3·4	..	9·5	0	4	21	0	5	2	1	0	4	5	8	6	0
Aurangabad	0830	581	1011·9	947·5	—0·1	24·5	18·8	15 1	17·1	59	+1	2·8	—0·2	6·7	0	4	13	1	4	3	0	0	0	9	0	14	0
	1730	,,	1007·2	944·1	..	29·2	19·5	13·0	15·0	39	..	4·1	..	9·0	0	2	21	4	3	6	0	0	0	4	1	8	0
Aurangabad (Chikalthana Aerodrome)	0230	579	1010·4	945·1	..	19·1	16·9	15·4	17·5	80	..	3·3	..	3·5	0	0	10	0	0	0	0	0	0	8	2	21	0
	0530	,,	1010·9	945·3	..	17·7	16·1	14·8	16·8	84	..	2·7	..	4·7	0	2	8	0	0	0	0	0	0	8	2	21	0
	0830	,,	1011·4	947·1	..	24·3	19·4	16·4	18·6	64	..	2·2	..	4·1	0	1	11	0	0	2	0	0	0	7	3	19	0
	1130	,,	1010·0	946·8	..	28·7	20·8	16·0	18·2	49	..	2·5	..	11·3	0	2	27	2	3	12	2	0	1	3	6	2	0
	1730	,,	1006·8	943·8	..	28·7	20·1	14·8	16·8	45	..	4·0	..	10·8	0	2	27	5	10	7	0	0	0	5	2	2	0
	2330	,,	1011·2	946·2	..	20·6	17·5	15·3	17·4	73	..	3·4	..	5·9	0	1	13	0	1	2	1	0	0	8	2	17	0
Ahmednagar	0830	657	1012·1	939·2	0	22·4	18·5	15·9	18·1	68	+4	3·1	+0·6	1·0	0	0	7	2	0	2	1	0	0	1	1	24	0
	1730	,,	1007·0	935·7	..	27·9	19·3	13·3	15·3	45	..	3·7	..	2·2	0	0	20	3	6	2	2	1	1	3	2	11	0
Bhir	0830	519	1012·4	954·4	..	23.5	19·9	17·8	20·4	71	..	3·5	..	3·3	0	0	18	0	0	0	3	1	3	3	8	13	0
	1730	,,	1007·6	951·0	..	29·3	20·7	15.7	17·8	46	..	4·2	..	10·5	0	2	27	6	13	2	0	1	4	1	2	2	0
Parkhani	0830	423	1012·0	964·5	..	23·9	19·5	16·5	18·8	65	..	3.1	..	3·5	0	1	27	6	4	2	3	1	0	7	5	3	0
	1730	,,	1007·4	960·9	..	28·7	20·3	14·1	16·1	45	..	0·9	..	10·1	0	0	29	5	11	5	0	0	0	2	6	2	0
Nanded	0830	358	1011·6	971·1	..	23.7	20·0	17·6	20·1	70	..	2·3	..	3·2	0	0	19	0	2	2	2	0	8	0	5	12	0
	1730	,,	1007·2	967·8	..	30·5	21·6	15.7	17·8	44	..	1·3	..	3·4	0	0	20	0	5	2	1	0	1	0	11	11	0
Poona	0530	559	1010·7	947·8	..	19·9	18·4	17.4	19·9	86	..	3·0	..	0·8	0	0	4	0	0	0	0	0	2	1	1	27	0
	0830	,,	1012·0	949·5	—0·1	22·7	19·7	17·9	20·5	75	—2	3·3	+0·1	1·0	0	0	4	0	0	0	2	0	1	1	0	27	0

Division and station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW.	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Maharashtra (Including Marathwada)—Contd.																											
Poona—Contd.	1130	559	1010·1	949·0	..	29·1	20·8	15·8	17·9	47	..	3·0	..	5·4	0	0	25	3	9	0	1	0	3	1	8	6	0
	1730	,,	1007·1	946·2	..	28·8	20·9	16·2	18·4	50	..	4·0	..	3·4	0	0	14	0	2	1	0	0	4	2	5	17	0
	2330	,,	1011·1	948·6	..	22·0	19·2	17·5	20·0	76	..	2·5	..	1·1	0	0	6	0	0	0	0	0	4	2	0	25	0
Poona (Lohagaon Aerodrome)	0230	593	1010·2	943·9	..	20·7	18·7	17·2	19 6	81	..	2·5	..	2·3	0	0	11	0	0	0	0	0	0	11	0	20	0
	0530	,,	1010·9	944·2	..	19·6	18·0	16·7	19·0	84	..	2·9	..	2·5	0	0	11	2	1	0	0	0	0	7	1	20	0
	0830	,,	1012·0	946·0	..	23·0	19·0	18·2	20·9	69	..	3·7	..	6·3	0	2	18	0	0	4	1	0	0	14	1	11	0
	1130	,,	1010·5	945·6	..	28·3	19·6	13·5	15·5	44	..	3·5	..	15·7	0	11	19	2	0	11	6	0	1	6	4	1	0
	1730	,,	1007·5	942·8	..	28·5	19·4	13·7	15·7	41	..	4·5	..	13·1	0	9	17	3	0	9	0	0	1	8	5	5	0
	2330	,,	1011·4	945·1	..	21·9	18·7	16·3	18 5	73	..	3 1	..	6 0	0	1	22	0	2	4	0	0	0	13	4	8	0
Baramati	0830	551	1011·6	950·4	..	23·9	19·4	16·6	18·9	65	..	3·2	..	6·9	0	0	30	9	2	4	3	1	1	5	5	1	0
	1730	,,	1006·8	946·9	..	29·2	20·2	14·5	16·5	44	..	4·3	..	10·9	0	1	30	5	8	6	1	0	2	5	4	0	0
Jeur	0830	521	1011·4	953·1	..	23·1	19·4	17·0	19·4	71	..	4·1	..	6·9	0	1	22	3	2	5	0	0	0	9	4	8	0
	1730	,,	1006·3	949·5	..	29·8	21·9	17·3	19·7	51	..	5·2	..	10·1	0	3	26	2	10	4	1	0	0	8	4	2	0
Sholapur	0530	479	1010·3	956·5	..	21·3	18·4	16·6	18·9	75	..	4·1	..	2·4	0	0	17	2	4	4	0	0	3	1	3	14	0
	0830	,,	1011·6	958·2	+0·1	24·3	20·2	17·8	20·4	69	+5	4·0	+0 9	6·4	0	1	24	2	5	2	6	0	3	5	2	6	0
	1130	,,	1010·1	957·6	..	29·6	22·4	18·3	21·0	54	..	3·3	..	10·8	0	3	24	1	5	6	2	0	3	5	5	4	0
	1730	,,	1006·2	954·2	..	30·6	22·0	17·6	20·1	46	..	4·6	..	7·1	0	0	29	6	12	0	0	0	2	3	6	2	0
	2330	,,	1010·4	957·0	..	24·2	19·9	17·1	19·5	67	..	3·0	..	5·6	0	0	29	1	10	7	0	0	2	6	3	2	0
Miraj	0830	554	1011·1	949·7	−0·2	23·4	20·2	18·0	20·6	73	+1	4·1	+0·1	..	..	..	..	0	3	1	0	0	0	1	1	25	0
	1730	,,	1006·6	946·3	..	28·7	20·8	16·2	18·4	49	..	4·6	..	..	..	..	..	0	1	3	1	0	2	7	3	14	0
Kolhapur	0530	570	1010·1	946·4	..	20·7	18·7	17·4	19·9	83	..	4·6	..	4·4	0	0	25	0	5	5	0	0	1	12	2	6	0
	0830	,,	1011·5	948·3	+0·4	23·5	20·0	17·8	20·4	72	−11	5·0	+1·7	9·7	0	0	30	0	14	4	0	0	0	11	1	1	0
	1130	,,	1009·9	947·7	..	28·6	21·1	16·9	19·3	51	..	4·5	..	15·4	0	7	24	1	8	7	4	0	1	5	5	0	0
	1730	,,	1007·1	944·9	..	27·6	20·5	16·2	18·4	54	..	5·5	..	13 8	0	7	23	0	9	5	0	0	1	12	3	1	0
	2330	,,	1010·7	947·2	..	22·3	19·6	18·0	20·6	78	..	4·8	..	6·3	0	0	30	1	2	1	0	0	4	20	2	1	0
Vidarbha																											
Buldhana	0830	650	1011·0	939·0	..	23·3	18·2	14·7	17·0	61	..	2·5	..	2·1	0	0	18	0	2	0	0	0	0	0	16	13	0
	1730	,,	1006·9	936·3	..	28·2	19·4	13·4	16·2	44	..	2·5	..	1·3	0	0	12	0	9	0	0	0	0	0	3	19	0
Akola	0830	282	1011·5	979·5	−0·4	22·9	19·5	17·0	19·9	71	+10	3 1	+0 7	1·6	0	0	16	4	5	0	0	0	0	6	1	15	0
	1130	,,	1010·2	978·9	..	29·2	21.6	16·7	19·6	50	..	2·5	..	3·3	0	0	20	1	1	3	3	1	2	3	6	11	0
	1730	,,	1006·9	975·8	..	30·5	21·2	14·6	17·6	43	..	3·5	..	1·6	0	0	11	1	0	2	0	0	0	8	0	20	0
Akola (Aerodrome)	0530	309	1009·0	973·9	..	19·8	17·8	16·2	18·7	81	..	2·2	..	3 4	0	0	20	0	1	5	2	1	1	7	3	11	0
	2330	,,	1009·7	974·6	..	22·6	19·7	17·7	20·6	75	..	2·5	..	1·6	0	0	13	0	1	5	3	1	0	2	1	18	0
Amravati	0830	370	1011·3	969·9	−0·3	25·1	20·2	16·8	19·6	62	+4	2·9	+0·5	9 0	0	1	29	4	11	5	0	0	2	5	3	1	0
	1730	,,	1006·7	966·0	..	29·1	20·8	15·0	17·8	46	..	3·5	..	10·3	0	0	31	4	7	6	7	0	0	2	5	0	0
Yeotmal	0830	451	1011·0	960·6	..	24·5	19·8	16·4	19·2	63	..	1·7	..	5 3	.	0	31	7	6	4	2	1	0	8	3	0	0
	1730	,,	1007·1	957·5	..	28·5	20·3	14·4	17·3	47	..	3·0	..	4·9	0	0	29	5	11	3	1	2	0	3	4	2	0
Nagpur	0230	310	1009·1	973·7	..	20·7	19·2	18·0	21·0	85	..	2·5	..	3 5	0	0	19	8	1	2	0	0	0	0	8	12	0
	0530	,,	1009·8	974·3	..	19·8	18·7	17·9	20·6	89	..	3 0	.	3·0	0	0	18	9	0	1	0	0	0	0	8	13	0
	0830	,,	1011·5	976·4	−0·4	24·1	20·7	18·6	21·7	72	+4	3·1	+0·7	3 3	0	0	17	9	4	1	0	0	1	0	2	14	0
	1130	,,	1009·9	975·5	..	29·7	22·2	17·6	20·7	50	..	3·0	..	5 2	0	0	29	0	8	6	0	1	4	5	5	2	0
	1730	,,	1007·2	972 8	..	28·5	21·5	17·1	19·9	52	..	3·7	..	4 7	0	0	24	2	4	5	0	0	3	6	4	7	0
	2330	,,	1010·2	974·9	..	21·8	19·6	18·1	21·1	80	..	3·0	..	3·5	0	0	20	5	1	4	1	0	0	2	7	11	0
Gondia	0830	313	1011·2	976·1	..	23·6	21·0	19·2	22·9	79	..	3·6	..	1·2	0	0	8	1	1	0	0	0	1	0	2	23	3
	1730	,,	1007·7	972·9	..	27·8	22·0	18·3	21·7	59	..	3·9	..	2·6	0	0	18	1	6	0	1	0	3	0	4	13	3
Brahmapuri	0830	229	1012·0	986·0	..	24·1	21·6	20·0	23·7	79	..	2·7	..	2 0	0	0	15	4	4	0	1	1	3	2	0	16	0
	1730	,,	1007·7	982·1	..	28·5	22 8	19·4	23·1	60	..	3·0	..	2 0	0	0	15	3	5	3	1	2	0	1	0	16	0
Chanda	0830	193	1011·2	989·2	−0·6	24·6	21·7	20 0	23·8	76	+3	3·0	+0·7	3·7	0	0	21	4	3	2	3	1	0	4	4	10	0
	1730	,,	1007·2	985·3	..	27·9	23·3	20·9	25·0	67	..	3·7	..	2 7	0	0	17	4	4	1	2	2	1	1	2	14	0
Sironcha	0830	123	1011·2	997·2	..	25·3	22·8	21·4	26·0	80	..	3 0	..	2·7	0	0	22	6	3	3	6	0	1	0	3	9	0
	1730	,,	1007·6	993·6	..	29·3	24·1	24·1	25·7	64	..	3·2	..	2 7	0	0	26	10	7	3	4	0	1	1	0	5	0
Costal Andhra Pradesh—																											
Nellore	0530	20	1008·6	1006·4	..	25·2	23·8	23·1	28·3	88	..	4·4	..	2·1	0	0	19	1	0	1	1	0	2	10	4	12	0
	0830	,,	1010·4	1008·2	−0·1	27·5	24·4	22·8	27·7	77	−2	4·5	−0·5	2·2	0	0	18	3	0	0	2	1	4	4	4	13	0
	1130	,,	1009·8	1007·6	..	30·6	25·0	22·4	27·1	63	..	4·4	..	3·5	0	0	29	2	1	0	1	2	2	12	9	2	0
	1730	,,	1007·3	1005·1	..	29·7	25·2	23·4	28·8	69	..	5·1	..	3·3	0	0	29	0	11	3	5	0	1	7	2	2	0
	2330	,,	1009·5	1007·3	..	26·7	25 0	24·3	30·4	87	..	3·1	..	0·8	0	0	8	0	0	0	2	1	2	2	1	23	0
Ongole	0830	12	1010·3	1009·0	..	28·7	24·2	22·0	26·4	68	..	5·5	..	3·3	0	0	22	5	5	0	2	1	1	4	4	9	0
	1730	,,	1006·9	1005·6	..	30·2	24·7	21·9	26·3	63	..	5·7	..	2·2	0	0	18	0	1	5	8	0	0	0	4	13	0

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in km. per hour	Wind speed (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—*contd.*																											
Rentichintala	0830	106	1010·9	998·9	..	27·4	23·6	21·7	25·9	72	−2	4·1	−1·0	1.5	0	0	10	0	0	0	0	0	0	9	1	21	0
	1730	,,	1006·7	994·9	..	31·5	24·3	20·5	24.1	54	..	5·2	..	1·8	0	0	18	6	4	2	0	0	2	4	0	13	0
Gaunavaram	0230	24	1008·0	1005·3	..	25·2	24·1	23·7	29·3	92	..	3·4	..	3·1	0	0	13	2	6	3	0	0	1	0	1	18	0
	0530	,,	1008·7	1005·9	..	24·6	23·6	23·1	28·3	91	..	3·7	..	4·0	0	0	19	3	6	1	0	1	3	2	3	12	0
	0830	,,	1010·7	1007·9	..	27·4	24·2	22·6	27·4	76	..	3·5	..	9.2	0	1	27	5	8	4	1	1	4	4	1	3	0
	1130	,,	1009·8	1007·1	..	30·3	25·0	22·5	27·3	64	..	4·0	..	12·4	0	5	25	2	3	10	2	0	4	6	3	1	0
	1730	,,	1007·2	1004·5	..	29·5	25·2	23·3	28·6	71	..	5·3	..	7·6	0	0	27	1	2	9	3	4	3	4	1	4	0
	2330	,,	1009·6	1006·8	..	26·0	24·6	24 0	29·8	88	..	3·8	..	3.1	0	0	14	1	3	6	1	0	2	1	0	17	0
Masulipatnam*	0830	3																									
	1730	,,																									
Nidadavolu	0830	12	1010·4	1009·0	..	26·6	24·5	23·5	28·9	83	..	5·0	..	7·0	0	0	28	3	12	3	0	0	3	5	2	3	0
	1730	,,	1007·1	1005·7	..	28·8	25·1	23·4	28·8	73	..	6·2	..	6·7	0	0	26	2	0	10	4	3	3	3	1	5	0
Kakinada	0830	8	1010·6	1009·7	−0·2	28·6	25·3	23·8	29·5	77	0	4.4	+0·3	7·0	0	0	28	1	17	0	0	0	6	2	2	3	0
	1730	,,	1007·3	1006·4	..	29·3	25·3	23·5	28·9	72	..	4·7	..	8·7	0	1	29	0	10	0	10	0	8	1	1	1	0
Visakhapatnam	0230	3	1008·1	1007·7	..	25·0	23·4	22·6	27·4	87	.	4·3	..	2·7	0	1	13	4	0	1	0	0	4	0	5	17	0
	0530	,,	1008·5	1008·1	..	24·6	23·1	22·3	26·9	87	..	4·5	..	1·2	0	0	6	3	1	0	0	0	1	0	1	25	0
	0830	,,	1010·5	1010·1	−0·4	27·7	23·8	21·8	26·1	71	−6	3·8	−0·5	3·9	0	1	15	6	0	2	1	0	1	2	4	15	0
	1130	,,	1009·5	1009·1	..	30·4	24·4	21·5	25·6	60	..	4 8	..	7·6	0	2	23	5	5	5	2	2	3	2	1	6	0
	1730	,,	1007·5	1007·1	..	27·9	23·9	21·9	26·3	71	..	4·8	..	7·5	0	2	24	1	1	15	1	3	3	0	2	5	0
	2330	,,	1009.4	1009·0	..	25·7	23·8	22·8	27·7	84	..	4·6	..	3·7	0	1	15	2	1	2	1	0	2	1	7	15	0
Calingapatam	0830	6	1010.2	1009·7	−0·5	26·9	25·1	24·2	30·2	85	+4	2·4	−1·0	7·4	0	1	28	5	4	1	0	0	2	5	12	2	0
	1730	,,	1007·7	1007·1	..	28·5	25·6	24·3	30 4	79	..	4·5	..	8·2	0	0	31	4	13	3	2	1	7	0	1	0	0
Telangana																											
Ramagundam	0830	156	1010·7	992·9	..	25·6	22·2	20.3	23·8	73	..	2·9	..	2·2	0	0	19	8	2	1	0	2	0	1	5	12	0
	1730	,,	1006·8	989·4	..	30·6	23·1	18·6	21·4	51	..	3·7	..	4·6	0	0	28	12	7	0	0	1	1	3	4	3	0
Nizamabad	0830	381	1011·2	968·7	0	25·6	21·2	18·5	21·3	66	−4	2·4	−0·2	1·0	0	0	8	0	0	0	0	0	1	6	1	23	0
	1730	,,	1006·9	965·0	..	29.2	22·5	18·5	21·3	54	..	3·4	..	0·8	0	0	7	1	3	3	0	0	0	0	0	24	0
Mahbubnagar	0830	505	1010·9	954·9	..	25·1	20·8	18·5	21·3	68	..	3·1	..	7·3	0	0	29	0	5	11	1	1	0	4	7	2	0
	1730	,,	1006·4	951·3	..	23·8	21·2	16·9	19·3	50	..	4·2	..	5·6	0	0	29	2	9	8	0	1	5	2	2	2	0
Nogarjunakonda	0830	..	..	..	..	27·7	23.2	20·8	24·6	66	.	(b) 3·6	..	8.3	0	5	22	8	2	2	1	0	1	7	6	4	0
	1730	..	..	..	..	30·5	23·5	19·7	22·9	55	..	(d) 4·8	..	7·8	0	1	24	4	9	1	0	3	3	4	1	6	0
Hyderabad (Begum pet Aerodrome)	0230	545	1009·1	948·1	..	20 9	19·0	18·0	20·6	84	.	2.9	..	3·9	0	0	16	2	3	1	0	0	3	4	3	15	0
	0530	,,	1009·8	948·5	..	19·8	18 4	17·6	20·1	87	..	2·9	..	4·9	0	2	16	6	0	1	0	0	0	6	5	13	0
	0830	,,	1011·0	950·7	+0·3	24·5	20·2	17·7	20·2	67	−4	3.1	−0·3	8·0	0	2	21	2	3	2	3	0	0	6	7	8	0
	1130	,,	1009·4	949·9	..	28·4	21·1	16·9	19.3	52	..	3.6	..	10·7	0	4	26	2	7	6	2	0	1	5	6	1	1
	1730	,,	1006·8	947·4	..	28·0	20·6	16·3	18·5	52	..	4·9	..	8·4	0	1	28	5	10	4	0	0	2	2	6	2	0
	2330	,,	1010·3	949·5	..	22·0	19·9	18·7	21·6	81	..	3·2	..	2.5	0	0	14	6	4	2	0	0	0	1	1	17	0
Nakimpet	0530	613	1009·4	941·1	..	20·9	18·3	16·8	19·1	78	..	4·0	..	7·3	0	2	23	2	7	1	2	0	0	8	5	6	0
	0830	,,	1010·5	942·8	..	24·3	20·1	17·7	20·2	68	..	3.8	..	10·4	0	3	27	2	6	5	4	0	1	7	5	1	0
	1130	,,	1009·3	942·4	..	27·9	20·8	16·7	19·0	53	..	3·9	..	10·9	0	3	27	4	7	3	3	0	1	6	6	1	0
	1730	,,	1006 9	940·2	..	27·6	20·2	15·9	18.1	50	..	4·2	..	7·9	0	0	30	6	11	4	0	0	2	3	4	1	0
Hanamkonda	0830	269	1010.9	980·8	−0·3	26·1	21·9	19·5	22.7	68	−5	1·8	−1·5	3·1	0	0	27	12	3	0	1	3	1	2	5	4	0
	1730	,,	1007·1	977·3	..	29·8	22·6	18·2	20·9	52	..	2·5	..	3·0	0	0	29	9	6	4	0	2	1	3	4	2	0
Bhadrachallam	0830	111	1010·7	998·2	..	26·3	23·6	22·3	26·9	79	..	3·2	..	2·9	0	0	19	3	5	2	2	0	0		2	12	0
	1730	,,	1006 8	994·3	..	30·2	25·0	22·6	27·4	64	..	3·5	..	3 1	0	0	25	4	16	2	1	0	0	1	1	6	0
Khammameth	0830	112	1010·3	997·7	..	26·7	23·8	22·4	27·3	79	..	3·3	..	2·1	0	0	16	3	0	2	1	1	3	4	2	15	0
	1730	,,	1006·3	993·8	..	30·2	23·5	19·8	23·1	56	..	5·2	..	4·1	0	0	28	7	4	11	1	0	0	5	0	3	0
Rayalaseema																											
Arogyavaram	0830	701	1011·3	934·0	..	23·3	19·8	18·1	20·8	73	..	5·9	..	1·9	0	0	9	0	1	0	0	2	0	2	4	22	0
	1730	,,	1006·9	930·9	..	27·0	20·8	17·3	19·7	57	..	5·9	..	4·9	0	0	26	7	7	2	0	1	0	2	7	5	0
Cuddaphah	0830	130	1011.5	996·8	+0·5	27·7	23·4	21·2	25·2	68	−5	3·0	−1.2	1·6	0	0	8	0	0	1	0	0	0	7	0	23	0
	1730	,,	1007·3	992·7	..	30·0	24·8	22·3	26·9	64	..	3·3	..	1·6	0	0	10	0	0	9	0	0	0	1	0	21	0
Anantapur	0530	350	1009·3	969·9	..	23·3	20·4	18·6	21·4	75	..	3·9	..	7 0	0	1	18	0	1	4	2	0	1	10	1	12	0
	0830	,,	1011·2	972·0	..	25·5	21·3	18·9	21·8	67	..	4·1	..	8 4	0	2	21	0	1	8	0	0	3	11	0	8	0
	1130	,,	1009·7	971·1	..	29·4	22·0	17·6	20·1	50	..	3·3	..	12·2	0	3	27	1	6	11	1	0	1	5	5	1	0
	1730	,,	1006·4	967·9	..	29·8	21·3	16·9	19·3	48	..	4·8	..	12·2	0	3	27	1	9	7	2	0	1	7	3	1	0
	2330	,,	1009·7	970·6	..	25·9	21·1	18·1	20·8	63	..	3·7	..	12·5	0	5	22	0	1	13	2	2	0	8	1	4	0
Kurnool	0830	281	1011·4	979·8	+0·5	26·0	22·0	19·9	23·2	70	−2	3·6	−0·1	3·4	0	0	16	0	0	0	0	0	0	10	6	15	
	1730	,,	1006·5	975·6	..	30·8	22·6	18·8	20·4	48	..	4·5	..	6·1	0	0	18	0	0	0	0	0	0	26	2	3	0

(d) Mean of 27 days

*Data not available

(b) Mean of 29 days*

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in Millibars: At station level	Mean pressure in Millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State																											
Palayamacottai	0830	51	1011·3	1005·6	..	28·0	23·4	20·9	24·7	68	..	5·4	..	5·4	0	0	30	11	1	0	0	1	1	12	4	1	0
	1730	"	1007·5	1001·8	..	29·9	24·1	21·1	25·0	62	..	6·1	..	7·3	0	1	29	2	3	1	0	0	2	7	1	1	0
Tuticorin	0830	4	1011·3	1010·9	..	28·2	24·3	22·4	27·1	72	..	4·9	..	11·7	0	1	30	7	8	1	0	0	0	6	6	0	0
	1730	"	1007·7	1007·3	..	29·6	24·9	22·7	27·6	68	..	4·5	..	16·8	0	7	24	0	5	1	6	9	1	9	0	0	0
Pamban	0830	11	1010·8	1009·5	+0·2	27·3	25·2	24·3	30·4	84	+4	4·7	+1·1	6·0	0	2	21	3	2	1	2	8	6	1	0	8	0
	1730	"	1007·6	1006·3	..	27·7	25·7	24·8	31·3	84	..	4·7	..	5·9	0	2	24	2	2	1	3	12	6	0	0	5	0
Tondi	0830	5	1011·2	1010·6	..	27·2	24·9	23·9	29·7	83	..	6·0	..	1·7	0	0	6	1	2	0	1	0	0	1	1	25	0
	1730	"	1007·5	1006·9	..	28·3	26·2	24·4	30·5	85	..	5·5	..	20·0	0	16	12	0	3	3	10	10	1	0	1	3	0
Mathurai	0830	133	1010·8	995·8	−0·1	26·9	23·9	22·4	27·1	71	−3	6·2	+1.1	4·5	0	0	30	5	6	3	0	1	0	0	15	1	0
	1730	"	1006·5	991·7	..	31·0	24·4	21·1	25·0	58	..	6·9	..	5·8	0	0	28	1	11	1	10	1	0	4	0	3	0
Mathurai (Aerodrome).	0530	131	1009·2	994·3	..	24·2	22·2	21·1	25·0	84	..	4·5	..	4·1	0	0	24	13	3	3	0	1	0	2	2	7	0
	0830	"	1011·1	996·3	..	26·9	23·3	21·4	25·5	73	..	4·1	..	6·5	0	0	25	11	3	3	0	1	2	0	5	6	0
	1130	"	1009·8	995·2	..	30·6	23·8	20·1	23·5	56	..	4·3	..	7·2	0	0	29	8	9	6	0	1	1	2	2	2	0
	1730	"	1006·7	992·1	..	30·8	23·6	19·6	22·8	55	..	4·9	..	9·6	0	3	25	2	4	9	8	1	1	2	1	3	0
Adiramapattinam	0830	6	1010·9	1010·1	..	27·4	24·6	23·9	29·7	79	..	5·7	..	8·4	0	0	31	5	4	0	1	5	3	3	10	0	0
	1730	"	1007·3	1006·6	..	28·6	25·4	24·1	30·0	77	..	5·1	..	15·8	0	10	21	2	6	0	8	12	1	0	2	0	0
Vedaranyam	0830	4	1010·7	1010·2	..	28·0	24·9	23·5	28·9	77	..	5·6	..	8·5	0	0	30	3	5	0	3	2	10	3	4	1	0
	1730	"	1007·3	1006·8	..	28·9	25·5	23·9	29·7	75		4·7	..	8·8	0	0	30	2	8	0	5	8	6	0	1	1	0
Nagapattinam	083	9	1011·3	1010·2	+0·6	27·4	24·7	23·4	28·8	79	0	5·3	+0.3	8·0	0	0	28	1	2	1	1	3	8	7	5	3	0
	1730	"	1007·3	1006·2	..	29·2	25·7	24·2	30·2	74	..	4·6	..	17·5	0	5	24	5	6	7	5	4	2	0	0	2	0
Tiruchirapalli	0230	88	1009·1	999·2	..	25·3	23·3	22·3	26·9	84	..	3·8	..	6·9	0	1	23	4	4	1	3	1	0	10	1	7	0
	0530	"	1009·5	999·5	..	24·6	23·0	22·2	26·7	86	..	4·6	..	8·5	0	2	22	4	3	1	1	1	1	12	1	7	0
	0830	"	1011·4	1001·5	+0.5	26.9	23·9	22·5	27·3	77	−2	4·7	+0.2	13·9	0	7	24	6	4	1	0	0	3	14	3	0	0
	1130	"	1010·1	1000·3	..	30.6	24·9	22·2	26·7	62	..	4·8	..	14·7	0	7	23	4	7	1	1	0	2	13	2	1	0
	1730	"	1007·2	997·4	..	30·4	24·9	22·2	26·7	64		5·4	..	14·1	0	3	27	1	8	5	5	0	2	4	5	1	0
	2330	"	1010·5	1000·6	..	26·3	24·0	22·8	27·7	82		3·9	..	8·1	0	1	25	1	5	5	3	5	3	3	1	5	0
Coimbatore	0830	409	1011·6	966·0	+0·6	25·0	21·2	19·1	22·1	70	−11	5·7	+1·4	19·7	0	14	17	0	2	5	0	11	13	0	0	0	0
	1730	"	1007·1	962·1	..	27·9	23·3	20·9	24·7	67	..	5·7	..	18·0	0	13	18	2	2	2	0	11	12	1	1	0	0
Coimbatore (Peelamedu Aerodrome).	0530	400	1010·0	965·1	..	22·0	21·2	20·8	24·6	93	..	5·4	..	11·0	0	5	19	0	2	2	2	4	13	1	0	7	0
	0830	"	1011·6	967·0	..	24·7	22·2	20·9	24·7	79	..	4·9	..	12·9	0	4	25	1	4	5	0	8	9	1	1	2	0
	1130	"	1010·0	966·0	..	28·5	22·6	19·3	22·4	59	..	5·0	..	16·6	0	10	21	1	7	4	1	6	7	1	3	0	1
	1730	"	1007·0	963·0	..	27·7	22·6	19·8	23·1	63	..	5·3	..	20·1	0	16	15	0	5	2	2	5	12	2	3	0	0
	2330	"	1011·0	966·1	..	22·9	21·9	21·4	25·5	91		5·0	..	18·3	0	14	14	0	0	1	3	12	9	2	1	3	0
Salem	0530	278	1009·5	978·0		23·1	21·7	20·9	24·7	87		5·3	..	1·5	0	0	14	0	1	4	0	0	5	4	0	17	0
	0830	"	1011·3	980·1	+0·3	25·9	22·7	21·0	24·9	75	−3	4·2	−0·4	4·0	0	0	23	0	2	6	0	2	8	5	0	8	0
	1130	"	1009·7	978·9	..	29·5	23·6	20·5	24·1	59	..	5·7	..	4.3	0	0	29	0	8	3	1	3	4	8	2	2	0
	1730	"	1006·5	975·8	..	29.5	23·2	19·9	23·2	58	..	5·5	..	4·2	0	0	27	1	2	13	1	0	1	7	2	4	0
	2330	"	1009·9	978·7	..	25.5	22·4	20·7	24·4	75		4·7	..	3·6	0	0	23	0	4	9	0	2	6	2	0	8	0
Kallakurichi	0830	127	1010·8	996·4	..	27.3	24·1	22·5	27·3	76	..	3·8	..	5·3	0	0	18	8	1	1	1	3	3	0	1	13	0
	1730	"	1006.7	992·7	..	30.2	24·3	21·4	25·5	62	..	4·7	..	5·5	0	0	28	2	11	5	3	0	3	1	3	3	0
Cuddalore	0530	12	1008·6	1007·9	..	24.7	23·9	23·5	28·9	93	.	5·4	..	1·3	0	0	9	1	0	0	0	2	6	0	0	22	0
	0830	"	1010·8	1009·5	−0.4	27.3	24·7	23·5	28·9	80	−1	5·5	+0.9	4·0	0	0	21	7	0	0	0	7	2	3	2	10	0
	1130	"	1010·1	1008·7	..	30.2	25·3	23·0	28·1	67	..	4·8	..	4·5	0	0	28	6	5	0	3	3	5	3	3	3	0
	1730	"	1007·2	1005·9	..	28.8	25·5	24·1	30·0	76	..	5·6	..	4·7	0	0	25	5	4	3	13	0	0	0	0	6	0
	2330	"	1009·8	1008·5	..	26.6	24·9	24·2	30·2	87	..	5·4	..	1.5	0	0	6	0	0	0	0	1	4	1	0	25	0
Tirupattur	0830	390	1011·1	967·6	..	24·4	22.2	21·0	24·9	82	..	5·5	..	2·8	0	0	17	11	1	1	0	2	1	0	1	14	0
	1730	"	1006·9	963·8	..	28·6	23·3	20·4	24·0	63	..	5·5	..	6·9	0	0	27	17	1	3	1	2	2	0	1	4	0
Vellore	0530	214	1009·5	985·2	..	23·3	21·9	21·1	25·0	88	..	4·8	..	0·5	0	0	4	0	0	0	0	0	0	4	0	27	0
	0830	"	1011·0	986·9	+0.6	26·0	22·9	21·3	25·3	76	−4	4·9	+1·1	1·4	0	0	12	1	1	0	0	0	6	4	0	19	0
	1130	"	1009·7	985·9	..	30·2	24·0	20·9	24·7	59	..	5.4	..	5·5	0	0	29	0	10	3	0	0	3	13	0	2	0
	1730	"	1006·7	982·9	..	29·4	23·4	20·3	23·8	69	..	5·3	..	3·3	0	0	20	0	11	1	2	0	3	2	1	11	0
	2330	"	1010·4	986.2	..	26·2	23·4	22·1	26·6	79	..	3·5	..	1·3	0	0	10	0	5	0	0	0	1	4	0	21	0
Tambaram (Aerodrome)	0830	29	1010·7	1007·4	..	27·7	25·4	24·3	30·4	82	..	5·6	..	12·0	0	3	28	3	2	0	0	1	6	9	9	0	1
	1730	"	1007.2	1004·0	..	29.3	25.3	23.4	28.8	71	..	5.6	..	16.4	0	8	23	1	11	3	5	3	2	4	2	0	0
Madras	0230	16	1008·6	1006·8	..	25·5	24.3	23·7	29·3	90	..	4·5	..	5·1	0	0	26	5	1	0	0	4	5	5	6	5	0
	0530	"	1009·0	1007·2	..	25·1	23·9	23·3	28·6	90	..	5·5	..	6·3	0	0	29	4	1	0	0	5	5	9	5	2	0
	0830	"	1010.9	1009·2	+0.3	27·4	24·6	23·3	28·6	79	−1	5·9	+1·3	10·6	0	2	28	7	0	0	0	2	9	6	6	1	0
	1130	"	1009·8	1008·1	..	30·7	24·8	21·9	26·3	61	..	5·8	..	12·5	0	5	24	9	3	0	0	3	3	8	2	2	1
	1730	"	1007·5	1005.8	..	29.4	24·8	22.6	27.4	68	..	5·8	..	10.0	0	2	28	7	6	5	2	3	2	1	2	1	2

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (km. p.h.): Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*contd.*																											
Madras—*contd.*	2330	16	1010·0	1008·3	..	26·3	24·4	23·6	29·1	86	..	4·5	..	4·5	0	0	23	5	3	0	1	6	2	2	3	8	1
Madras (Nungambakkam)	0830	6	1010·9	1010·2	..	27·3	24·8	23·5	28·9	80	..	4·7	..	5·9	0	0	27	2	1	0	0	1	10	7	6	4	0
Coastal Mysore																											
Karwar	0830	4	1011·4	1011·1	+0.5	26.6	24·2	22·9	27·9	81	..	3·2	..	5·5	0	0	24	1	8	6	5	1	2	1	0	7	0
	1730	,,	1008·9	1008·4	..	28·2	25·2	23·9	29·7	78	..	3·5	..	10·3	0	3	24	0	3	0	0	2	0	8	14	4	0
Hanavar	0830	26	1011.8	1008.8	+0 2	25·2	23·3	22·3	26·9	84	0	5·2	+0.3	5·1	0	0	28	6	4	15	0	0	0	3	0	3	0
	1730	,,	1008·6	1005.7	..	28·7	25·2	23·7	29·3	75	..	4·8	..	9·5	0	0	31	1	0	1	0	2	3	15	9	0	0
Mangalore	0830	22	1011·8	1009 3	+0·6	26·6	24·3	23·2	28·4	83	−1	5·5	+0·7	5·6	0	0	31	1	6	19	2	0	2	1	0	0	0
	1730	,,	1008·6	1006·2	..	28 0	25·1	23·7	29.3	78	..	5·4	..	5·9	0	0	31	5	0	0	1	1	6	7	11	0	0
Mangalore (Bajpe Aerodrome)	0230	102	1009·6	998·1	..	23·9	23·2	23·0	28·1	95	..	4.5	..	2·9	0	0	15	0	0	9	2	1	1	2	0	16	0
	0530	,,	1009·8	998·1	..	23·3	22·9	22·7	27·6	96	..	4·6	..	3·6	0	0	21	1	0	13	4	0	0	3	0	10	0
	0830	,,	1011·7	1000·2	..	25·4	24·1	23·3	28·6	89	..	4·8	..	4.9	0	0	26	0	0	13	9	1	1	1	1	5	0
	1130	,,	1011·0	999·7	..	29·1	24·6	22·6	27·4	68	..	5·1	..	5.7	0	1	26	1	1	2	5	3	4	8	2	4	1
	1730	,,	1008·5	997·1	..	27·4	24·5	23·3	28·6	78	..	5·7	..	9·7	0	0	30	0	2	0	1	1	1	18	7	1	0
	2330	,,	1011·0	999 5	..	24·5	23·7	23·3	28·6	93	..	4·5	..	4.1	0	0	25	0	1	11	3	0	0	4	6	6	0
Interior Mysore (North)																											
Bidar	0830	664	1010·8	937·5	..	23·3	18·7	15·9	18·1	65	−5	3·7	+0·7	12·0	0	3	28	0	8	2	5	2	7	4	3	0	0
	1730	,,	1006·1	934·1	..	27·3	19·2	13·8	15·8	46	..	4·5	..	11·6	0	1	30	1	17	1	0	1	4	3	4	0	0
Gulbarga	0830	458	1011·4	960 5	+0 3	26·1	20·0	16·4	18·6	57	−9	3·3	+0·7	14·3	0	2	29	0	8	9	2	1	0	5	6	0	0
	1730	,,	1006·1	956 2	..	30·8	20·1	13·4	15 4	36	..	5·5	..	31·9	0	24	7	5	10	4	0	0	1	7	4	0	0
Bijapur	0830	594	1011·8	945·8	+0.3	23·3	19·3	16·8	19·1	68	0	4·3	+1·4	4·9	0	0	29	3	6	1	3	1	3	9	3	2	0
	1730	,,	1006·4	941.9	..	28·8	20·4	15·3	19·4	47	..	5·9	..	3·9	0	0	30	9	4	2	1	1	3	4	6	1	0
Belgaum	0830	753	1011·8	928·8	+0.3	22·2	19·5	17·9	20·5	79	+2	4·3	+0·4	5·0	0	0	24	0	3	6	0	0	0	13	2	7	0
	1730	,,	1007·3	925·8	..	25·7	20·0	16·7	19 0	61	..	5·7	..	6·6	0	0	30	6	3	4	0	0	1	10	6	1	0
Belgaum (Sambre Aerodrome)	0530	747	1010·7	927·7	..	19·7	18·2	17·2	19·6	86	..	4·7	..	5·4	0	1	19	1	0	8	1	0	0	10	0	11	0
	0830	,,	1011·7	929·5	..	22·7	19·3	17·2	19·6	73	..	4·9	..	8·4	0	2	24	0	2	10	1	0	1	12	0	5	0
	1130	,,	1010·3	929·2	..	26·7	20·2	16·5	18·8	56	..	4·4	..	11·3	0	2	26	0	3	9	3	0	1	12	0	3	0
	1730	,,	1007·7	926·6	..	25·8	19·8	16·3	18·5	59	..	5·0	..	8·4	0	2	24	1	3	7	2	1	0	12	0	5	0
Gadag	0530	650	1010·3	938·0	..	20·9	19·1	18·0	20·6	80	..	3·5	..	6·1	0	0	25	0	4	3	2	1	3	12	0	6	0
	0830	,,	1011·5	939·8	+0·5	23·8	20·3	18·4	21·1	73	−2	4·2	+0·1	5·3	0	0	23	0	3	9	0	0	4	7	0	8	0
	1130	,,	1010·0	939·4	..	28·3	21·4	17·7	20·2	54	..	4·2	..	10·5	0	0	31	0	6	9	1	1	1	12	1	0	0
	1730	,,	1007·0	936·3	..	27·7	20·7	16·7	19·6	54	..	5·0	..	7·7	0	0	29	1	5	10	0	0	8	5	0	2	0
	2330	,,	1010·7	938·8	..	22·8	19·7	17·8	20·4	76	..	4·2	..	10·0	0	1	27	0	1	10	0	2	4	11	0	3	0
Raichur	0830	400	1011·0	966·5	0	25·7	21·1	18·3	21·0	65	−5	4·0	+1.3	6·3	0	0	24	1	2	0	1	2	7	8	3	7	0
	1730	,,	1006·4	962.9	..	30·8	21·4	15·5	17·6	43	..	5.1	..	8·0	0	0	27	1	16	1	0	0	1	0	8	4	0
Interior Mysore (South)																											
Bellary	0830	449	1011.2	961·1	+0·1	25·3	22.3	20·6	24·3	75	+6	5·4	+1·3	3·6	0	0	18	0	3	0	3	0	0	0	12	13	0
	1730	,,	1006·0	957·0	..	29·8	23·5	20·2	23·7	60	..	5·2	..	4·5	0	0	25	0	7	1	4	0	0	0	13	6	0
Chitaldrug	0830	733	1011·4	930 6	+0·3	22·5	19·6	17·8	20·4	76	+1	4·4	−0·2	6.4	0	0	27	0	0	10	0	1	4	12	0	4	0
	1730	,,	1005·9	926·8	..	27·6	20·0	15·4	17·5	50	..	4·9	..	4·1	0	0	24	0	1	10	0	0	3	10	0	7	0
Shimoga	0830	571	1011·7	948·2	..	22·7	20·8	19·8	23·1	84	..	4·9	..	4·4	0	0	22	0	5	2	4	4	5	1	1	9	0
	1730	,,	1006·7	944·3	..	27·1	21·5	18·6	21·4	62	..	5·9	..	7·8	0	0	26	2	7	0	0	2	12	1	2	5	0
Balehonnur	0830	..	..	..	..	19·6	18·2	17·6	20·1	93	+1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1515·2	906.7	..	20·8	19.0	18·0	20·6	84	+4	5·1	+0.2	5·3	0	0	27	0	2	3	7	0	5	10	0	4	0
	1730	,,	1493·4	903·5	..	25·3	20·1	17·2	19·6	63	..	5·9	..	6·2	0	0	29	0	4	5	3	0	1	16	0	2	0
Mysore	0830	767	1011·6	927·1	+0·2	22·4	19·8	18·4	21·1	79	−2	4·8	−0·6	8·3	0	0	30	0	4	8	0	0	4	10	4	1	0
	1730	,,	1006·9	924·1	..	26·7	21·1	18·2	20·9	61	..	5·3	..	8·4	0	0	29	0	3	8	1	0	3	13	1	2	0
Bangalore (Central Observatory)	0230	921	1493·9	908·8	..	19·7	18·4	17·7	20·2	89	..	4·0	..	8·2	0	0	28	0	0	12	2	1	2	10	1	3	0
	0830	,,	1517·2	910·9	+0·4	21·5	19·0	17·5	20·0	79	−2	6·0	+0·7	10·4	0	0	29	0	1	12	1	1	3	9	2	2	0
	1130	,,	1519·8	910·3	..	25·6	19·9	16·5	18·8	59	..	5·8	..	11·4	0	3	27	0	4	12	1	0	1	7	5	1	0
	1730	,,	1493·2	907·7	..	25·2	19·8	16·7	19·0	62	..	6·5	..	9·3	0	1	29	1	3	13	0	0	1	6	6	1	0
Bangalore (Aerodrome)	0530	897	1495·1	911·6	..	19·5	18·8	18·5	21·3	94	..	4·6	..	7·9	0	0	21	0	1	6	0	1	4	9	0	10	0
	0830	,,	1518·1	913·5	..	21·9	19·7	18.4	21·1	82	..	5·8	..	11·7	0	2	24	1	1	9	2	1	3	8	1	5	0
	1130	,,	1519·1	912.7	..	26·2	21·0	18·1	20·8	63	..	5·8	..	15·7	0	5	26	0	2	14	0	1	3	9	2	0	0
	1730	,,	1494·5	910·2	..	26·0	21·2	18·6	21·4	66	..	6·3	..	11·0	0	0	26	1	3	9	1	1	2	8	1	5	0
	2330	,,	1510·4	912·8	..	21·4	19.8	18·9	21·8	86	..	5·1	..	9·5	0	0	25	1	2	11	2	0	1	7	1	6	0
Kerala																											
Kozhikode	0530	5	1010·1	1009·5	..	24·2	23·6	23·2	28·4	94	..	4·6	..	3·5	0	0	22	3	9	8	0	0	0	0	2	9	0
	0830	,,	1012·0	1011·4	+0·7	26·0	24·3	23·6	29·1	87	+1	4·5	−0·7	2·5	0	1	17	4	4	5	1	0	1	0	3	13	0
	1130	,,	1011·5	1010·9	..	28·3	25·3	24·1	30·0	78	..	4·7	..	8·6	0	0	31	0	1	0	0	1	10	12	7	0	0

Division and station.	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*contd.*																											
Kozhikode—*contd.*	1730	5	1008·7	1008·1	..	27·9	25·3	24·3	30·4	81	..	5·0	..	11·6	0	0	31	0	1	0	0	1	9	11	18	0	0
	2330	"	1011·5	1010·9	..	25·3	24·3	23·8	29·5	91	..	4·3	..	6·7	0	0	26	1	5	7	1	0	0	2	10	5	0
Palghat	0830	97	1012·0	1000·9	..	25·8	23·8	22·9	27·9	84	..	5·8	..	9·0	0	2	27	0	0	9	2	0	3	15	0	2	0
	1730	"	1008·1	997·1	..	27·9	24·3	22·6	27·4	73	..	5·9	..	10·9	0	1	30	0	1	3	0	0	9	16	2	0	0
Fort Cochin	0830	3	1012·0	1011·7	+0·3	26·1	24·4	23·6	29·1	86	+4	6·3	+1·5	5·7	0	0	27	5	9	3	1	0	1	5	3	4	0
	1730	"	1008·7	1008·4	..	27·3	24·8	23·7	29·3	81	..	6·5	..	6·4	0	0	28	0	1	0	0	0	3	11	13	3	0
Cochin (Naval Air Station)	0230	3	1010·2	1009·9	..	24·6	23·8	23·5	28·9	93	..	6·1	..	8·5	0	0	18	2	5	6	0	0	1	3	1	13	0
	0530	"	1010·2	1009·9	..	24·1	23·4	23·0	28·1	94	..	5·3	..	3·2	0	0	19	4	5	6	0	0	1	2	1	12	0
	0830	"	1011·9	1011·6	..	26·3	24·3	23·2	28·4	83	..	5·8	..	4·9	0	0	23	5	5	6	3	0	0	1	3	8	0
	1130	"	1011·7	1011·4	..	28·8	24·9	23·2	28·4	72	..	5·5	..	12·8	0	4	23	0	1	0	1	0	5	6	14	4	0
	1730	"	1009·0	1008·7	..	27·8	24·7	23·5	28·9	77	..	6·1	..	14·5	0	5	24	0	1	0	0	0	5	13	10	2	0
	2330	"	1011·8	1011·5	..	25·0	23·9	23·4	28·8	91	..	5·9	..	4·6	0	0	17	1	4	5	2	0	0	3	2	14	0
Alleppey	0830	4	1011·6	101.·2	..	26·7	25·5	24·3	30·4	87	..	5·2	..	6·3	0	0	28	2	11	1	3	0	0	5	6	3	0
	1730	"	1008·1	1007·7	..	27·9	25·4	24·1	30·0	81	..	5·3	..	11·1	0	0	31	2	0	0	0	0	0	4	25	0	0
Punalur	0830	34	1011·5	1007·6	..	23·9	23·3	23·0	28·1	95	..	5·7	..	0·2	0	0	2	0	0	0	1	0	0	0	1	29	0
	1730	"	1008·0	1004·1	..	27·9	24·6	23·0	28·1	76	..	6·1	..	4·1	0	0	26	1	0	1	2	0	3	7	12	5	0
Trivandrum	0230	64	1009·8	1002·4	..	23·8	23·4	23·1	28·3	96	..	4·6	..	3·7	0	0	20	5	2	0	0	0	0	2	11	11	0
	0530	"	1009·9	1002·6	..	23·5	23·0	22·7	27·6	95	..	4·9	..	3·8	0	0	21	4	3	1	0	0	0	0	13	10	0
	0830	"	1011·8	1004·5	+0·3	25·7	23·9	23·0	28·1	86	+1	5·3	−0·2	4·6	0	0	26	5	2	2	1	0	0	1	15	5	0
	1130	"	1010·9	1003·7	..	28·3	24·6	22·9	27·9	73	..	5·5	..	9·7	0	0	29	1	0	1	0	2	1	7	17	2	0
	1730	"	1008·9	1001·6	..	26·5	24·1	23·0	28·1	81	..	5·7	..	7·0	0	0	29	1	0	2	1	2	0	7	16	2	0
	2330	"	1011·5	1004·2	..	24·4	23·6	23·3	28·6	93	..	4·8	..	4·7	0	0	22	4	3	1	0	0	0	1	13	9	0
Trivandrum (Aerodrome)	0830	8	1011·8	1010·9	..	26·3	24·1	23·1	28·3	83	..	5·6	..	6·1	0	0	28	9	1	1	1	2	0	1	13	3	0
Arabian Sea Islands																											
Minicoy*	0530	2																									
	0830	"																									
	1130	"																									
	1730	"																									
	2330	"																									
Amini Divi*	0830	4																									
Hill Stations excluding Kashmir																											
Walong (R)	0830																										
(R)	1730																										
Kohima	0830	1406	1553·6	864·6	..	20·4	18·6	17·8	20·2	90	..	3·7	..	..	0	0	31	6	4	8	4	5	1	1	1	0	1
	1730	"	1510·7	860·6	..	19·6	18·2	17·6	20·3	90	..	5·4	..	..	0	0	31	1	0	3	3	8	3	9	4	0	0
Aijal	0830	..	..	..	..	21·5	19·5	18·4	21·3	83	..	5·3	..	3·6	0	0	27	1	0	17	3	3	2	1	0	4	0
	1730	..	..	..	..	22·8	20·8	20·0	23·2	85	..	4·6	..	4·0	0	0	21	0	0	3	1	1	0	13	3	10	0
Shillong	0830	1500	1523·1	852·5	+0·4	20·1	16·2	13·5	15·6	67	−5	3·0	−0·4	(a) 0·6	0	0	5	0	2	1	1	0	1	0	0	25	0
	1730	"	1495·9	849·8	..	18·3	16·9	16·7	18·3	87	..	6·6	..	0·2	0	0	2	0	0	0	0	1	1	0	0	29	0
Cherrapunji (R)	0830	1313																									
(R)	1730	"																									
Darjiling (Raj-Bhawan)	0830	2128	1548·3	794·5	+3·4	14·6	12·5	11·0	13·1	80	+7	4·5	+0·2	0.1	0	0	1	1	0	0	0	0	0	0	0	30	0
	1730	"	1520·1	791·9	..	14·4	12·9	11·9	13·9	85	..	5.6	..	0·3	0	0	2	1	0	0	0	0	0	1	0	29	0
Kalimpong	0830	1209	1474·4	876·6	−5·1	21·6	20·1	20·0	22·5	87	+8	1·4	−1·6	3·0	0	0	30	1	0	0	2	0	1	0	26	1	0
	1730	"	1461·7	875·3	..	21·7	20·2	19.7	22·7	87	..	2·1	..	3·0	0	0	30	0	0	0	29	0	0	0	1	1	0
Mukteswa (Kumaon)	0830	2311	3150·7	774·7	−0.1	12·5	8·4	4·2	8·2	59	+2	1·8	+0·4	10·2	0	4	23	1	5	5	1	0	2	9	4	4	0
	1730	"	3137·6	773·2	..	13·7	10·8	8·5	11·2	73	..	2·3	..	14·5	0	4	27	1	2	2	0	1	6	14	5	0	0
Nainital	0830	1953	1568.5	806·7	..	15·8	10·3	4·9	9·2	51	..	1·5	..	4·0	0	2	12	0	1	4	3	0	0	3	3	17	0
	1730	"	1488·6	804·9	..	14·1	10·8	7·8	10·6	68	..	1·6	..	7·1	0	1	28	1	0	1	1	1	1	23	1	2	0
Joshimath	0830	..	..	..	..	14·5	9·9	5·7	9·1	57	..	1·9	..	4·2	0	0	30	0	4	25	1	0	0	0	0	1	0
	1730	..	..	..	..	15·8	10·7	6·3	9·5	54	..	3·8	..	3·6	0	0	31	0	2	5	4	13	4	2	1	0	0
Badrinath	0830	..	..	..	..	6.9	4.1	1.0	6.6	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpal	0830	..	..	..	..	−1·4	−2·4	−3·7	4.5	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooriee	0830	2042	1504.4	798·3	−1·3	15·3	10·4	5·1	9·3	55	−9	1·1	−0·5	1.5	0	0	15	4	1	0	2	3	2	0	3	16	0
	1730	"	1491·5	797·1	..	14·8	12·6	11·0	13·1	80	..	2·4	..	2·5	0	0	26	1	0	0	7	11	6	1	0	5	0
Simla	0830	2202	1508·8	784·0	+0·2	15.3	8·4	0·3	6·5	39	−5	0.9	−0.2	2.7	0	0	28	4	11	3	5	3	2	0	0	3	0
	1730	"	1501·6	783·2	..	15·0	9·9	4·8	9·1	53	..	1·5	..	3·0	0	0	31	5	1	0	2	3	15	1	4	0	0
Dalhousie	0830	1959	1456·8	801·8	..	16·3	12·1	9·2	11·6	64	..	0·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	"	1443·6	800·6	..	16·9	14·5	12.5	14·5	77	..	0·4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0

*Date given as addenda in December, 1960 issue.

(R) Register not received.

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (kms. p.h.): 62 or more	Wind speed (kms. p.h.): 20 to 6	Wind speed (kms. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir —(*contd.*)																											
Dharamshala	0830	..	..	..	..	20·2	14·3	9·2	11·6	51	..	0·8	..	1·2	0	0	11	1	4	0	0	0	3	1	2	20	0
	1730	..	..	..	..	23·1	15·7	9·7	12·0	44	..	1·3	..	3·1	0	0	31	0	0	0	0	0	14	17	0	0	0
Abu	0830	1195	1518·7	882·5	−0·7	22·0	15·0	9·2	11·6	47	−1	0·3	−0·8	0·8	0	0	4	3	1	0	0	0	0	0	0	27	0
	1730	,,	1509·0	881·2	..	25·3	15·9	7·8	10·6	34	..	0·6	..	2·3	0	0	12	4	2	0	0	0	0	4	2	19	0
Pachmarhi	0830	1075	1486·0	895·0	−0·5	20·7	17·0	14·5	16·8	70	+10	2·9	+0·7	2·8	0	0	23	3	10	0	0	1	0	0	9	8	0
	1730	,,	1496·1	892·6	..	23·7	17·9	13·7	16·3	58	..	3·4	..	2·5	0	0	21	0	12	1	0	0	0	1	7	10	0
Mahabaleshwar	0830	1382	1521·7	864·2	+0·6	18·6	15·1	12·2	14·2	70	−7	4·7	+0·9	12·4	0	1	30	2	9	10	2	0	4	2	2	0	0
	1730	,,	1502·3	862·1	..	20·1	17·0	14·8	16·8	74	..	5·2	..	10·3	0	0	31	1	8	1	2	0	4	2	13	0	0
Mercara	0830	1152	1515·2	887·0	+1·1	19·0	17·7	16·9	19·3	88	+1	3·9	+1·5	3·7	0	0	31	0	3	4	0	0	0	12	12	0	0
	1730	,,	1487·4	884·6	..	21·5	19·4	18·1	20·8	82	..	5·0	..	3·7	0	0	30	0	5	5	0	0	0	9	9	1	2
Kodaikanal	0830	2343	3157·1	772·1	+0·9	13·4	11·4	9·6	11·9	81	+1	5·3	+0·5	10·5	0	3	23	2	5	3	4	1	0	2	9	5	0
	1130	,,	3163·4	771·9	..	16·5	13·2	11·7	13·7	75	..	6·3	..	8·7	0	5	20	3	4	4	4	1	0	1	8	6	0
	1730	,,	3140·1	770·3	..	14·1	12·9	12·0	14·0	88	..	6·3	..	6·2	0	1	22	3	4	4	3	1	0	2	6	8	0
Cotacamund	0830	2249	1513·3	780·2	+0·5	14·0	12·1	11·1	13·2	81	+2	3·6	−1·2	2·8	0	0	10	0	1	0	0	0	1	7	1	21	0
	1730	,,	1492·1	778·6	..	15·2	12·9	11·4	13·5	78	..	5·7	..	1·6	0	0	6	0	0	1	0	0	1	4	0	25	0
Coonoor	0830	1747	1517·0	827·9	..	17·7	14·6	12·3	14·3	74	−1	5·1	−0·5	4·8	0	0	28	3	0	2	15	1	2	0	5	3	0
Nepal																											
Katmandu	0830	1324	1520·7	870·0	..	17·3	15·5	14·2	16·2	83	..	3·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1515·1	869·0	..	23·5	17·0	12·9	14·9	53	..	3·5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1492·5	866·9	..	20·1	16·9	14·7	16·7	71	..	3·7	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Sikkim																											
Lachen	0830	..	..	..	..	12·3	8·7	5·0	8·9	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet																											
Yatung (Chumbi) (R)	0830																										
Ceylon																											
Colombo	0830	7	1012·2	1011·4	+0·5	25·9	24·0	23·2	28·4	84	−3	5·8	+0·1	6·1	0	0	24	0	2	7	2	2	5	5	1	7	0
	1730	,,	1009·2	1008·5	..	27·0	24·1	22·8	27·7	79	..	6·1	..	9·5	0	0	29	0	2	0	0	1	13	10	3	2	0
Trincomalee	0830	3	1010·8	1010·4	+0·7	27·7	24·0	22·3	26·9	73	−9	4·7	+0·8	14·3	0	7	24	1	1	1	0	3	21	3	1	0	0
	1730	,,	1007·5	1007·2	..	29·5	24·8	22·6	27·4	68	..	5·4	..	15·0	0	4	27	6	10	6	2	0	7	0	0	0	0
Batticoloa	0830	3	1011·3	1011·0	..	27·5	24·4	23·0	28·1	77	..	4·1	..	7·0	0	0	29	0	1	1	4	1	2	10	10	2	0
	1730	,,	1008·0	1007·7	..	28·1	25·2	24·0	29·8	77	..	3·7	..	13·2	0	0	31	2	6	6	14	3	0	0	0	0	0
Hambantola	0830	15	1011·3	1009·5	+0·5	26·9	24·2	22·9	27·9	79	−5	4·8	+1·0	17·8	0	14	17	4	2	0	0	0	15	7	3	0	0
	1730	,,	1008·3	1006·6	..	27·6	24·3	22·7	27·6	75	..	5·2	..	25·0	0	20	11	0	0	1	1	4	21	4	0	0	0
Mannar	0830	4	1011·4	1011·0	..	27·1	25·3	24·5	30·7	87	..	4·7	..	7·8	0	1	22	1	0	0	0	9	13	0	0	8	0
	1730	,,	1008·1	1007·8	..	27·3	25·7	25·0	31·7	87	..	5·9	..	7·7	0	0	22	0	1	0	0	7	13	1	0	9	0
Hydrometeorological Observatories																											
Damodar Catchment																											
Bokaro	0830	242	1011·4	986·7	..	25·0	21·7	20·1	23·2	74	..	3·0	..	..	0	0	25	1	0	4	4	1	3	12	0	6	0
	1730	,,	1007·6	980·6	..	26·6	23·2	21·3	26·0	74	..	2·9	..	..	0	0	23	0	2	4	4	0	2	8	3	8	0
Hazaribagh	0830	615	1010·8	942·8	..	24·1	20·1	17·7	20·9	69	..	3·2	..	4·4	0	0	18	1	0	9	2	0	0	3	3	13	0
	1730	,,	1007·7	939·9	..	24·0	20·4	18·4	21·1	72	..	3·4	..	2·1	0	0	9	1	0	5	1	0	0	1	1	22	0
Tilaiya	0830	..	..	..	..	25·8	21·6	19·1	22·5	68	..	2·9	..	5·5	0	0	30	2	0	8	3	2	3	8	3	1	1
	1730	..	..	..	..	26·7	21·7	18·5	21·8	62	..	2·5	..	4·8	0	0	29	5	0	4	3	0	0	14	3	2	0
Ramgarh	0830	..	..	..	..	24·9	21·9	20·0	23·9	74	..	4·0	..	1·8	0	0	19	1	1	5	1	2	6	2	1	12	0
	1730	..	..	..	..	26·6	22·9	21·0	25·3	71	..	4·6	..	0·7	0	0	7	0	3	1	1	0	1	0	1	24	0
Panchet Hills	0830	..	..	..	..	27·4	23·3	21·2	25·3	70	..	4·3	..	6·3	0	0	27	4	4	8	0	0	5	4	2	4	0
	1730	..	..	..	..	27·2	23·2	21·3	25·5	70	..	5·5	..	3·8	0	0	18	5	2	7	1	0	0	1	2	13	0
Durgapur	0830	..	..	..	..	27·3	24·0	22·2	26·9	75	..	4·1	..	8·0	0	0	31	6	5	2	7	4	1	2	4	0	0
	1730	..	..	..	..	28·0	24·1	22·1	27·0	71	..	3·3	..	7·5	0	0	31	1	7	2	10	4	1	1	5	0	0
Maithon	0830	..	..	..	..	..	..	..	..	..	..	3·0	..	..	0	0	21	7	8	1	1	0	0	2	2	10	0
	1730	..	..	..	..	..	..	..	..	..	..	3·4	..	..	0	0	24	7	9	1	2	0	0	3	2	7	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	3·9	..	..	0	2	29	1	0	8	1	1	0	20	0	0	0
	1730	..	..	..	..	..	..	..	..	..	..	4·1	..	..	0	1	30	2	0	11	0	0	0	18	0	0	0
Mahanadi Catchment																											
Hirakud	0830	159	1011·0	993·0	..	26·3	23·0	21·3	25·4	74	..	4·0	..	6·3	0	0	24	2	1	7	7	5	0	1	1	7	0
	1730	,,	1007·5	989·7	..	27·7	22·8	20·0	23·8	65	..	3·9	..	5·5	0	0	24	1	2	4	4	0	1	2	10	7	0
Khijrawan	0830	..	..	..	..	28·0	21·6	19·8	20·6	79	..	(a) 2·5	..	2·5	0	0	13	0	1	2	3	1	3	2	1	18	0
	1730	..	..	..	..	25·9	22·1	19·7	23·3	71	..	(h) 2·4	..	(g) 4·8	0	0	19	1	5	1	1	0	2	0	9	5	0
Sonepur	0830	..	..	..	..	26·8	23·7	22·2	26·8	76	..	..	..	5·5	0	0	31	3	2	7	1	0	11	3	4	0	0
Ginabahar	0830	..	..	..	..	24·0	20·8	19·0	21·9	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhimkund	0830	..	..	..	..	24·4	21·9	20·7	24·3	80	..	5·7	..	1·2	0	0	11	1	0	0	3	1	1	0	5	20	0
	1730	..	..	..	..	25·9	22·4	20·8	24·2	75	..	5·5	..	1·1	0	0	9	0	3	0	3	0	2	0	1	22	0

(a) Mean of 30 days. (R) Register not received. (h) Mean of 23 days. (g) Mean of 24 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in kms. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Narbada Catchment																											
Punasa	0830	..	..	..	..	25·1	20·6	17·2	20·5	65	..	..	..	3·1	0	0	17	2	2	3	1	0	3	4	2	14	0
	1730	..	..	..	..	30·2	23·3	18·6	23·0	53	..	..	..	2·5	0	0	16	2	6	2	0	1	0	3	2	15	0
Bagra Tawa	0830	..	..	..	..	23·4	19·7	17·4	19·8	70	..	2·0	..	5·0	0	0	23	0	5	0	1	2	14	1	0	8	0
	1730	..	..	..	..	27·3	21·6	18·0	21·0	59	..	2·3	..	2·1	0	0	12	0	2	0	5	2	3	0	0	19	0
Thikri	0830	..	..	..	..	24·3	21·1	19.2	22 4	74	..	2·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Jhadol*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharoi	0830	..	..	..	..	25·1	20·3	17·1	19·5	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	32·0	22·7	16·8	19 1	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	..	..	..	15·4	11 4	7·9	10·7	62	..	1·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15 9	11·5	7·6	10·4	60	..	2·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	17·7	15·2	13·6	15·6	76	..	1·0	..	0·9	0	0	8	0	3	3	1	0	0	1	0	23	0
	1130	..	..	..	..	24·3	17·3	12·3	14·3	48	..	1·3	..	2·5	0	0	20	2	6	5	4	0	2	0	1	11	0
	1730	..	..	..	..	25·9	17·3	10·9	13·0	42	..	1·2	..	6·1	0	1	27	0	0	2	9	9	6	2	0	3	0
Gandak Catchment																											
Gorkha (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	21·0	17 9	16·1	18·3	74	..	2·9	..	1.8	0	0	16	2	1	1	4	1	3	1	3	15	0
	1130	..	..	..	..	24·6	19 7	16·9	19·3	63	..	3·0	..	5·5	0	0	30	1	1	0	18	9	1	0	0	1	0
	1730	..	..	..	..	21·9	19·6	18·3	21·0	81	..	4·3	..	2·0	0	0	13	5	3	2	2	0	0	0	1	18	0
Nawakot	0830	..	..	..	..	21·7	19·5	18 3	21·0	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·6	18.5	16·1	18.3	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom	0830	..	..	..	..	11·6	7·9	4·8	8·6	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·5	8·8	6·7	9.8	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	20·5	17·6	16·2	18·4	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·3	19·3	18·0	20·6	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	13·0	10·7	8·9	11·4	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·3	14·2	12·2	14·2	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region).																											
Dailekh (R)	0830																										
(R)	1730																										
Gogra Catchment																											
Dandeldhura	0830	..	..	..	..	15 6	12·3	9·5	12·2	70	..	1·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·0	12·1	9·6	12·3	73	..	2·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Munsiyari (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	26·9	22·0	19·3	22·4	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·0	22·9	21·3	25·3	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu†	0830	1324																									
	1130	,,																									
	1730	,,																									
Kosi Catchment																											
Chautara ††	0830	..	..	..	..	18·0	16·3	15·3	17·4	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
**	1730	..	..	..	..	19·6	16·1	14·1	16·1	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	15·1	12·7	11·4	13·4	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·5	13·3	12·2	14·0	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldhunga (R)	0830	..	..	..	..	17·5	14·8	13·0	15·1	76	..	2·1	..	0·1	0	0	1	0	0	0	0	1	0	0	0	30	0
(R)	1130	..	..	..	..	19·7	16·3	14·2	16·3	72	..	2·5	..	0·7	0	0	7	0	0	1	0	3	1	0	2	24	0
	1730	..	..	..	..	16·5	14.3	12·8	14·9	79	..	3·9	..	1·5	0	0	14	2	0	0	0	1	1	3	7	17	0
Barahkshetra	0830	146	1012·8	996·1	..	23·4	20·5	18·8	21·7	75	..	2·3	..	7·0	0	0	31	0	6	1	7	1	10	5	1	0	0
	1130	,,	1010·8	994.4	..	28·5	23·3	20·6	24·3	63	..	2·3	..	7·2	0	0	31	0	0	0	1	0	19	7	4	0	0
	1730	,,	1008·7	992·1	..	24·4	22 5	21·5	25·6	84	..	2·3	..	4·5	0	0	26	0	9	6	8	0	2	0	1	5	0
Angbung	0830	..	..	..	..	19·8	17·1	15·5	17·6	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·9	17·8	15·3	17·4	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	17·6	14·7	12·7	14·7	74	..	4·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	20·4	16·2	13·5	15·5	65	..	3·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·2	14·1	12·0	14·0	72	..	5·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	18·4	15·6	13·7	15·7	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·7	16·5	14·4	16·4	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

O.B.S. (46) (a).

† Data included under Nepal

†† Observations for 22 days.
** Observations for 21 days.

(R) Register not received.

* Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Kosi Catchment—*contd.*																											
Wallungchung Gola	0830	..	..	..	..	10·5	7·1	4·1	8·2	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	7·8	6·8	6·0	9·3	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	18·8	15.7	13·9	15.9	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·0	15·0	13·8	15·8	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	19·5	17·0	15·5	17·6	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·1	17·4	15·8	17·8	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment Gangtok	0830	1812	1523.2	821·9	..	15·4	13·2	11.6	13·7	79	..	3·6	..	0·7	0	0	6	2	1	0	1	1	0	1	0	25	0
	1130	,,	1509·7	821·0	..	19·3	16·0	14·1	16·1	73	..	4·9	..	2·6	0	0	24	0	0	0	0	8	14	1	1	7	0
	1730	,,	1495·8	819·3	..	15.8	14·3	13·3	15·3	85	..	6·0	..	0·8	0	0	7	0	1	0	0	4	2	0	0	24	0
Geyzing	0830	..	..	..	..	19·6	16·5	14·7	16·7	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·8	15·6	14·3	16·3	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons and the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9·0 km. a.m.s.l. are given under Table IV and data above 9·0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second* irrespective of direction;

v—represents the resultant mean velocity in metres per second*;

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0·15 km. a.g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a.m.s.l. Of these, the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1 and 16·2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

*Values obtained by converting the original data in knots.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flights (I.S.T.)			
1	Agartala	23° 53′	91° 15′	17	28th November 1951	0530	1730	2230	
2	Ahmedabad	23° 04′	72° 38′	61	19th May 1928	0530	1730	2330	
3	Amausi	26° 45′	80° 53′	133	20th November 1950	0530	1730	2330	
4	Ambala	30° 23′	76° 46′	279	1st April 1941	0530	1730	2330	
5	Anantapur	14° 41′	77° 37′	365	12th February 1946	0530	1730	2330	
6	Asansol	23° 41′	86° 59′	135	29th May 1942	0530	1730	2330	
7	Baghdogra	26° 38′	88° 19′	140	7th June 1953	0530	1730	2330	
8	Bairagarh	23° 17′	77° 21′	532	26th February 1943	0530	1730	2330	
9	Bajpe	12° 55′	74° 53′	104	25th May 1959	0530	1730	2330	
10	Bamrauli	25° 27′	81° 44′	103	28th February 1930	0530*	1130	1730*	2330
11	Bangalore	12° 58′	77° 35′	936	19th May 1915	0530	1730	2330	
12	Bareilly	28° 22′	79° 24′	181	12th January 1943	0530	1730		
13	Begumpet	17° 27′	78° 28′	543	1st September 1929	0530	1730	2330	
14	Bhagalpur	25° 14′	86° 57′	61	19th May 1950	0530	1730		
15	Bhubaneshwar	20° 15′	85° 50′	54	5th December 1942	0530	1730	2330	
16	Bhuj	23° 15′	69° 48′	90	14th September 1937	0530	1730	2330	
17	Bikaner	28° 00′	73° 18′	229	18th October 1946	0530	1730	2330	
18	Chikalthana	19° 51′	75° 24′	583	7th October 1951	0530	1730	2330	
19	Cochin†	09° 56′	76° 14′	13	16th March 1942	0530	1730	2330	
20	Darjeeling	27° 03′	88° 16′	2115	21st May 1956	0530	1730		
21	Dehra Dun	30° 19′	78° 03′	692	1st October 1958	0530	1730		
22	Dum Dum	22° 39′	88° 27′	13	14th May 1921	0530*	1130*	1730*	2330*
23	Gadag	15° 25′	75° 38′	650	3rd May 1943	0530	1730	2330	
24	Gannavaram	16° 32′	80° 48′	32	8th April 1942	0530	1730	2330	
25	Gauhati	26° 05′	91° 43′	55	12th March 1955	0530*	1130	1730*	2330
26	Gaya	24° 45′	84° 57′	119	19th March 1937	0530	1730	2330	
27	Gopalpur	19° 16′	84° 53′	24	15th February 1946	0530	1730	2330	
28	Gorakhpur	26° 45′	83° 22′	83	5th January 1943	0530	1730		
29	Gwalior	26° 14′	78° 15′	208	7th May 1938	0530	1730	2330	
30	Imphal	24° 51′	93° 58′	805	8th March 1952	0530	1730	2330	
31	Jabalpur	23° 10′	79° 57′	402	30th July 1928	0530	1730	2330	
32	Jagdalpur	19° 05′	82° 02′	562	25th March 1948	0530	1730	2330	
33	Jaipur	26° 49′	75° 48′	403	6th June 1953	0530	1730	2330	
34	Jamshedpur	22° 49′	86° 11′	144	23rd July 1942	0530	1730		
35	Jharsuguda	21° 55′	84° 05′	240	1st May 1944	0530	1730	2330	
36	Jodhpur	26° 18′	73° 01′	229	15th October 1934	0530*	1130	1730*	2330
37	Madras	13° 00′	80° 11′	29	8th April 1926	0530*	1130*	1730*	2330*
38	Minicoy	08° 18′	73° 00′	15	14th April 1941	0530	1730	2330	
39	Mohanbari	27° 29′	95° 01′	112	1st June 1948	0530	1730	2330	
40	Nagpur	21° 06′	79° 03′	316	23rd April 1943	0530*	1130	1730*	2330
41	Nanpara	27° 50	81° 30′	142	23rd April 1957	0530	1730		
42	New Delhi	28° 35′	77° 12′	227	20th October 1936	0530*	1130*	1730*	2330*
43	Poona	18° 32′	73° 51′	593	5th January 1925	0530	1730	2330	
44	Port Blair	11° 40′	92° 43′	93	29th October 1945	0530*	1130	1730*	2330
45	Raipur	21° 14′	81° 39′	308	15th July 1944	0530	1730	2330	
46	Raxaul	26° 59′	84° 51′	83	28th October 1957	0530	1730		
47	Santa Cruz	19° 07′	72° 51′	27	14th May 1933	0530*	1130*	1730*	2330
48	Tiruchirapalli	10° 46′	78° 43′	96	22nd June 1936	0530	1730	2330	
49	Trivandrum	08° 29′	76° 57′	73	8th December 1928	0530*	1130	1730*	2330
50	Udaipur	24° 35′	73° 42′	587	24th June 1947	0530	1730	2330	
51	Vengurla	15° 52′	73° 38′	8	22nd November 1941	0530	1730	2330	
52	Veraval	20° 54′	70° 22′	17	13th October 1941	0530*	1130	1730*	2330
53	Visakhapatnam	17° 43′	83° 14′	10	24th September 1928	0530*	1130	1730*	2330

*Radiowind ascents.

†Naval Meteorological Office,

5—4 D.D.G. Obs. Poona/65

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Station	AGARTALA												AHMEDABAD											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.3	0.6	052	31	1.3	0.7	008	31	1.8	1.0	045	31	1.1	0.4	338	31	1.3	0.3	353	31	1.5	1.1	195
0 15 a.g. .	26	2.8	1.2	052	29	2.5	1.5	313	29	3.4	1.1	312	30	5.5	2.0	340	31	3.1	1.6	337	31	5.1	1.4	178
0.3 a. m. s. l. .	26	3.1	2.0	038	29	2.6	1.2	308	29	3.7	1.4	312	30	5.1	1.9	330	31	3.2	1.5	339	31	4.9	1.2	188
0.6 „ .	26	3.0	1.7	042	29	2.4	1.0	313	29	3.7	1.4	311	30	4.5	2.2	332	31	3.0	1.7	340	31	3.9	0·5	352
0.9 „ .	26	3.0	1.2	037	29	2.6	0.4	286	29	2.8	0.5	278	30	4.0	2.3	340	31	3.2	2.0	336	31	3.7	1.9	001
1.5 „ .	26	3.0	0.5	085	28	3.3	0.2	210	29	3.2	1.5	182	30	3.8	2.2	359	31	3.9	3.0	339	31	4.1	3.0	003
2.1 „ .	25	4.2	2.1	172	27	4.1	1.6	205	29	4.8	3.4	195	30	4.3	2.6	020	31	4.4	2.9	339	31	4.6	3.3	010
3.0 „ .	23	6.5	4.4	215	27	6.6	4.2	213	26	6.8	5.0	225	28	4.8	2.7	022	31	5.0	3.5	341	29	5.2	3.0	005
3.6 „ .	22	7.9	5.4	230	26	7.9	4.9	225	17	6.4	4.0	231	4	3.8	2.5	040	29	5.3	3.7	329				
4.5 „ .	21	6.5	6.3	257	25	8.0	5.5	247	5	4.4	2·3	212	1	3.6	3.6	070	29	6.5	4.2	312				
5.4 „ .	16	10.0	8.7	255	25	8.3	5.7	259	2	7·7	7.7	249	1	4.1	4.1	080	29	8.3	5.6	304				
6.0 „ .	12	9.9	7.8	257	24	8.9	6.5	265									29	9.9	6.6	300				
7.2 „ .	7	8.8	7.1	245	16	10.6	7.8	256									20	10.5	9.3	284				
9.0 „ .	1	2.6	2.6	285	8	11.1	7.0	252									4	14.2	12.0	273				

Station	AMAUSI												AMBALA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.0	0.9	088	31	1.9	1.0	051	31	1.2	0.9	076	31	0.8	0.1	092	31	1.6	1.2	308	31	1.6	0.5	018
0.15 a.g. .	27	3.8	0.4	228	28	3.2	1.8	345	28	3.8	0.5	066	31	5.3	1.8	087	31	4.3	3.2	320	31	7.2	4.1	354
0.3 a. m. s. l. .	27	3.7	0.4	279	28	3.3	1.3	330	28	3.9	0.5	037	31	2.1	1.3	098	31	2.5	1.6	309	31	3.3	1.3	017
0.6 „ .	26	3.8	1.1	290	28	4.1	0.9	348	28	4.4	0.4	309	31	5.4	1.4	026	31	5.0	3.8	316	31	6.8	4.0	346
0.9 „ .	26	4.2	1.5	308	28	4.6	0.8	335	27	4.7	1.3	290	31	5.6	2.4	350	31	4.9	3.6	319	31	6.1	4.1	341
1.5 „ .	25	5.0	4·6	323	27	4.8	1.6	321	26	4.7	2.3	310	31	5.8	3.8	336	31	5.2	4.1	319	31	5.8	4.2	342
2.1 „ .	24	5.6	3.9	329	27	5.6	2.0	321	25	4.5	2.9	313	31	6.5	3.9	333	31	6.0	4.1	326	30	6.0	3.9	324
3.0 „ .	23	8.6	5.5	322	26	6.4	3.2	320	18	5.4	3.9	303	29	6.1	4.3	338	29	5.5	3.4	335	29	5.7	3.2	325
3.6 „ .	13	5.1	3.7	304	26	6.7	4.6	303	3	4.8	4.6	299	27	5.7	4.3	327	28	5.5	3.8	338	13	5.4	1.7	310
4.5 „ .	9	5.6	4.5	283	24	8.0	7.3	286	1	4.6	4.6	290	24	6.4	5.5	314	26	6.5	5.5	303	5	5·0	4·3	290
5.4 „ .	7	7.6	6.9	282	20	11.1	10.6	284	1	10.8	10.8	275	18	7.8	6.9	288	26	7.9	6.9	290	3	6·8	6·4	274
6.0 „ .	4	10.7	8.0	290	17	12.8	12.4	280	1	9.3	9.3	275	17	10.9	9.7	282	26	9.9	9.0	285	1	8·7	8·7	295
7.2 „ .	1	6.2	6.2	290	9	16.4	15.9	272					9	16.1	15.4	281	13	14.9	13.5	282				
9.0 „ .					4	14.4	14.4	259					4	25.6	24.9	270	4	26.1	24.6	268				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Station	ANANTAPUR												ASANSOL											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.2	1.0	262	31	4.0	1.4	014	31	3.8	0.4	138	31	0.4	0.1	034	31	0.7	0.5	073	31	0.5	0.5	346
0.15 a.g.	31	4.5	1.7	252	30	6.3	1.7	012	30	6.8	0.9	175	30	3.8	1.8	016	31	3.9	1.9	058	31	4.7	0.8	041
0.3 a.m.s.l.													30	3.9	2.0	037	31	4.1	2.1	061	31	4.6	0.9	060
0.6 "	31	5.3	1.6	246	30	6.3	1.5	021	30	7.4	0.9	161	30	4.4	2.3	056	31	4.5	2.3	051	31	4.6	1.1	070
0.9 "	31	7.2	0·8	004	30	6.9	1.6	013	30	7.8	0.8	122	30	4.8	2.2	051	31	5.0	1.9	039	31	4.4	1.0	089
1.5 "	31	6.7	2·5	025	30	6.3	2.1	010	30	5.6	2.5	023	30	6.0	2.0	037	30	5.5	1.6	014	30	4.7	0.6	052
2.1 "	31	5.7	3.0	023	30	5.7	2.5	360	30	4.8	3.4	016	29	6.0	0.8	040	29	5.9	1.5	003	30	5.3	0.1	266
3.0 "	30	4.4	2.2	015	28	5.0	2.8	011	25	4.1	2.7	006	20	6.4	2.9	239	23	7.2	2.3	276	25	5.5	1.6	260
3.6 "	26	4.6	1.3	012	22	4.7	2.1	358	20	4.3	1.9	002	13	6.2	4.1	247	21	7.2	3.6	284	14	5.0	3.2	278
4.5 "	23	4.8	0.6	239	17	4.7	1.5	326	18	4.4	0.9	133	7	6.4	6.0	270	16	6.3	4.7	258	11	6.9	5.1	272
5.4 "	18	4.2	0.5	182	15	5.1	0.9	238	12	4.5	2.3	136	4	10.0	9.3	261	8	9.1	7.3	276	4	8.1	7.7	285
6.0 "	17	3.7	1.2	105	14	5.5	1.2	241	8	4.8	2.6	108	1	10.3	10.3	235	6	9.3	9.2	273	2	3.3	3.3	286
7.2 "	13	5.4	3.4	086	14	4.8	1.0	047	1	3.6	3.6	061					1	12.9	12.9	290	2	8.2	3.7	301
9.0 "	7	5.9	4.2	091	9	5.5	3.8	095																

Station	BAGHDOGRA												BAIRAGARH											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.5	1.1	012	31	1.3	0.6	221	31	1.6	1.3	010	31	1.9	0.1	004	31	2.9	1.4	011	3	2.6	0.8	044
0.15 a.g.	29	2.3	1.7	049	30	2.5	1.0	235	30	2.2	1.6	045	30	4.4	0·6	007	30	3.9	2.4	005	30	5.7	2.1	069
0.3 a.m.s.l.	29	2.3	1.5	074	30	2.6	0.7	224	30	2.3	1.2	056												
0.6 "	29	2.2	1.6	086	30	2.8	0.9	214	30	2.6	0.4	100	30	4.1	0.6	344	30	3.8	2.2	008	30	5.1	1.7	069
0.9 "	29	2.3	1.6	083	30	3.2	0.6	173	30	2.7	0.7	098	30	4.7	1.7	027	30	4.6	3.2	006	30	5.6	2.6	057
1.5 "	27	2.7	1.3	100	30	3.4	0.9	139	28	3.7	0.9	112	29	5.1	3.5	357	29	4.4	3.0	355	30	4.1	2.3	013
2.1 "	27	3.1	1.2	095	28	3.4	1.0	125	27	3.8	1.2	106	29	6.5	5.1	358	29	4.8	3.1	357	30	4.3	2.9	339
3.0 "	25	3.2	1.9	100	28	3.5	0.9	095	22	3.2	1.7	095	28	5.9	4.0	016	28	5.3	3.5	343	29	5.3	2.8	353
3.6 "	25	3.6	0.1	184	25	4.1	1.1	345	15	3.8	0.9	228	25	4.7	1.4	005	27	5.3	3.4	317	15	4.6	3.0	305
4.5 "	23	8.3	7.4	271	24	8.3	1.3	270	9	4.8	4.1	270	23	5.9	2.3	277	22	7.0	5.0	292	7	8.2	7.1	283
5.4 "	23	11.0	10.5	278	21	11.1	10.1	272	3	5.1	5.0	268	22	7.7	4.8	273	20	8.3	7·4	274				
6.0 "	18	13.0	12.5	271	21	13.3	12.7	270	2	8.0	6.7	270	21	9.0	7.2	263	20	9·5	8.8	269				
7.2 "	13	13.0	12.4	269	13	17.0	16.2	267	1	18.5	18.5	275	19	13.7	12.3	262	16	14.1	13.4	259				
9.0 "	5	8.9	8.5	273	8	19.5	17.5	265					17	19.1	18.1	256	15	18.1	16.8	254				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Station	BAJPE												BAMRAULI											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.4	0.7	103	31	3.2	2.8	277	31	1.6	0.6	055	31	0.7	0.6	091	31	1.6	0.7	055	31	1.2	0.7	049
0.15 a.g.	28	3.5	0.8	032	29	4.3	4.0	275	30	3.9	1.9	338	31	4.1	0.7	102	30	3.0	0.9	092	30	4.5	2.0	015
0.3 a.m.s.l.	28	3.3	0.7	338	29	4·6	4.2	277	30	4.1	2.3	330	31	4.0	0.8	105	30	3.0	1.1	092	30	4.5	2.0	015
0.6 ,,	27	3.3	1.4	333	29	4.1	3.3	294	30	4.3	3.0	319	31	4.5	0.9	101	30	3.3	1.0	106	30	4.2	1.7	030
0.9 ,,	24	4.1	1.5	004	27	3.5	1.9	339	28	3.9	2.7	327	31	4.7	0.4	107	29	3.8	0.7	115	30	4.3	1.1	021
1.5 ,,	22	5.6	1.8	072	24	4.3	1.7	036	28	4.4	2.1	075	31	4.7	0.4	357	27	4.8	1.7	352	30	4.8	0.2	031
2.1 ,,	20	6.2	2.3	067	23	6.4	2.0	047	26	6.9	2.7	043	31	5.7	1.1	357	26	6.1	2.7	350	30	5.1	0.8	345
3.0 ,,	16	5.5	1.8	048	21	5.9	2.0	345	24	7.4	2.0	043	31	7.3	1.7	302	24	6.8	4.2	316	30	6.6	1.7	325
3.6 ,,	10	4.8	0.9	059	17	5.2	1.2	304	18	5.3	0.5	010	31	7.3	1.2	260	24	6.7	4.5	296	30	6.4	2.5	291
4.5 ,,	1	6.2	6.2	085	13	3.8	0.4	071	13	5.9	2.3	303	31	7.1	4.0	254	22	7.8	7.1	248	30	7.5	5.1	275
5.4 ,,					12	3.9	1.4	089	5	3·7	1.3	293	31	8.9	5.8	255	20	11.2	10·6	264	30	10.1	8.5	268
6.0 ,,					11	3.5	1.1	069	3	6.0	3.8	310	31	10.2	7.0	260	19	13·8	13·0	267	30	11.6	10.3	265
7.2 ,,					8	4.1	2.8	071	1	7.2	7.2	140	31	12.1	10.5	258	16	17·9	16·7	268	30	14.7	13.5	260
9.0 ,,					8	6.2	5·8	092					28	16.4	14.5	257	6	25·6	24·2	260	24	18.7	17.9	254

Station	BAMRAULI				BANGALORE												BAREILLY							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0.7	0.6	088	31	2.8	0.5	237	31	3.8	1.4	002	31	3.4	0.7	058	31	1.6	1.2	068	31	1.5	0.6	045
0.15 a.g.	29	4.3	0.8	026	24	6.5	1.9	265	26	5.3	1.5	357	23	7.4	1.3	074	27	3.0	0.5	337	30	3.4	1.0	018
0.3 a.m.s.l.	29	4.4	0.9	030													27	3.0	0·7	030	30	3.2	1·1	014
0.6 ,,	29	4.6	0.6	058													27	4.2	1·6	271	30	4·3	1·0	036
0.9 ,,	29	4.9	0.1	300													27	4.3	2.2	283	30	4.9	0.7	352
1.5 ,,	27	5.0	1.7	286	22	7.6	3.8	115	26	5.6	1.6	356	23	8.1	2.2	021	26	5.0	3.7	312	29	6.3	2.6	309
2.1 ,,	26	5.7	2.4	292	21	6.3	3.2	037	26	5.7	2.3	349	23	5.6	2.8	003	26	5.2	3.7	323	29	6.5	2.1	313
3.0 ,,	22	5.7	3.2	303	19	4.6	2.5	029	23	5.2	2.8	322	20	5.0	2.6	339	24	5.7	3.9	325	27	6.3	2.3	320
3.6 ,,	4	7.4	6.2	293	19	5.0	1.7	015	16	5.6	2.6	290	18	5.5	2.1	314	24	5.8	4.5	308	25	6.0	5.1	307
4.5 ,,	2	9·0	7.8	262	17	4.7	0.8	053	16	6.3	2.4	264	14	5.3	0.9	212	21	6.4	5.3	293	25	7.6	6.4	300
5.4 ,,					14	4.2	2.0	088	13	5·9	1.3	262	12	5.0	4.0	088	19	9.2	8.4	278	25	10.5	9.8	284
6.0 ,,					12	4.0	2.1	101	12	5.5	1.1	330	9	5.3	2.7	100	17	12.8	11.8	273	24	12.6	11.8	278
7.2 ,,					10	3.1	2.0	072	7	6.9	2.9	066	6	5.7	4·3	105	9	16.9	16.3	267	23	18.0	17.2	272
9.0 ,,					7	4·9	4.3	098	6	4.5	2.7	117	2	4·1	3.8	133	2	16·2	14·9	277	10	24.3	23.6	265

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level.

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Station	BEGUMPET												BHAGALPUR								BHUBANESHWAR			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.7	1.3	289	31	2.9	1.3	007	31	1.2	0·8	012	31	1.3	0.7	136	31	1.0	0.4	345	31	1.6	1.1	013
0.15 a.g. .	31	6.1	2.2	328	30	4.0	2.0	011	30	5.8	2.9	042	30	3.1	0.5	115	30	3.2	1.3	341	28	3.8	2.1	002
0.3 a.m.s.l. .													30	3.1	0.5	056	30	3·5	1·4	341	28	4·3	1.8	032
0.6 ,, .	31	3·9	1·4	330	30	4.1	1.9	005	30	3.7	1.8	036	30	3.7	0.8	023	30	3.9	1.5	335	28	4.6	2.4	035
0.9 ,, .	31	7·7	3.2	354	30	4.6	2.1	356	30	6.1	2.7	043	30	4.1	1.0	355	30	4.3	1.5	326	28	4.8	2.9	041
1.5 ,, .	29	5.7	2.8	014	30	5.4	2.3	346	30	5.3	1.4	013	29	5.0	1.2	336	30	4.4	0.9	307	28	5.3	2.9	037
2.1 ,, .	29	5.6	3.7	357	30	4.7	2.4	341	27	4.9	2.4	335	28	5.2	1.3	060	30	4.7	0.2	348	27	5.8	2.0	036
3.0 ,, .	28	4.8	2.4	332	28	5.1	1.8	313	25	5.4	3.2	306	27	6.2	1.1	195	30	6.1	0.9	280	24	5.1	1.5	236
3.6 ,, .	24	4.0	0.8	281	28	4.2	0.7	275	19	4.0	1.9	255	25	6.3	3.9	264	29	6.1	2.2	288	21	5.3	2.1	236
4.5 ,, .	23	3.7	0.2	220	22	2.8	0.6	205	6	4.4	2.4	210	24	9.1	7.4	259	27	8.4	6.8	281	20	4.0	1.3	260
5.4 ,, .	19	4.5	0.6	177	19	3.1	0.7	155	2	6.7	5.3	166	23	10.8	9.2	265	23	10.9	9.1	274	18	3.3	1.3	276
6.0 ,, .	16	4.5	0.6	118	16	4.5	0.8	134	1	9.8	9.8	120	13	10.8	10.2	270	11	10.5	8.9	283	18	3.8	1.0	278
7.2 ,, .	15	5.3	1.0	201	15	4.7	1.1	139					6	10.7	10.2	263	6	11.0	9.3	271	11	3.7	1.4	260
9.0 ,, .	11	4.9	0·6	192	13	5.3	1.2	148									1	4.1	4.1	289	5	4.4	3.4	262

Station	BHUBANESHWAR								BHUJ												BIKANER			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.8	1.1	011	31	1.9	0.7	073	31	0.7	0.7	277	31	2.9	1.9	269	31	2.3	1.9	271	31	1.1	0.1	266
0.15 a.g. .	31	4.4	2.6	086	31	4.8	1.7	101	31	5.3	4.8	313	31	4.6	2.1	271	31	6.2	5.6	290	31	6.5	2.3	171
0.3 a. m.s.l. .	31	4.9	2.7	083	31	5.1	1.9	109	31	6.3	5.6	320	31	4.9	2.2	275	31	6.3	5.7	292	31	5.0	2.1	204
0.6 ,, .	30	4.9	2.6	070	31	5.3	2.1	099	31	6.0	4.2	324	31	5.1	2.4	288	31	5.3	4.2	296	31	6.0	1.1	115
0.9 ,, .	29	4.8	2.7	061	31	5.5	2.1	084	31	4.4	2.2	316	31	4.6	2.0	286	31	4.1	2.4	310	31	5.5	0.9	066
1.5 ,, .	28	5.1	2.9	046	30	5.9	2.0	074	30	4.0	0.3	020	30	3.6	1.1	303	31	4.1	1.1	065	30	4.9	2.4	345
2.1 ,, .	23	6.0	2.9	358	26	5.9	1.7	019	30	4.5	1.3	011	30	4.0	0.9	316	31	5.0	2.4	050	30	5.8	3.6	325
3.0 ,, .	21	6.7	3.1	298	25	6.0	2.0	254	27	5.5	2.3	004	30	4.4	2.3	009	31	5.3	1.8	037	29	5.8	3.8	332
3.6 ,, .	19	6.7	4.1	271	12	5.3	4.0	239	7	4.7	4.1	008	30	5.3	3.2	356	17	4.7	3.0	329	27	6.0	3.7	347
4.5 ,, .	18	5.4	3.3	261	2	3·3	1.3	070	1	3.6	3·6	086	29	6.8	3.3	294	2	7.5	7·4	292	23	6.5	4.5	311
5.4 ,, .	16	5.0	2.2	355									28	7.3	4.1	315					9	8.7	7.9	295
6.0 ,, .	16	5.4	1.9	276									25	8.0	4.6	302					6	11.6	10.1	295
7.2 ,, .	9	4.2	1.9	287									10	11.6	5.2	295					1	7.7	7.7	285
9.0 ,, .	2	8.5	6.6	252																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Station	BIKANER								CHIKALTHANA												COCHIN			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	1·0	342	31	0.9	0.4	063	31	1.7	1.2	292	31	3.4	2.3	018	31	1.8	0.9	290	31	0.9	0.6	065
0.15 a.g.	31	3.7	2·1	341	31	5.8	3.2	048	30	5.8	1.2	347	31	4.9	3.2	015	29	6.5	2.9	029	31	2.9	1.9	003
0.3 a.m.s.l.	31	3.5	1·8	346	31	4.8	2.6	057													31	3.6	2.5	328
0.6 ,,	31	4.3	2·4	343	31	5.6	3.4	049													31	4.7	3.0	318
0.9 ,,	31	4.4	2·5	340	31	5.1	3.0	041	30	6.5	2.4	030	31	5.3	3.8	012	29	7.5	4.4	032	30	4.9	2.8	323
1.5 ,,	31	4.6	2.5	340	31	4.4	2.0	012	30	6.6	4.2	028	31	5.6	3.7	013	29	6·4	4.7	029	29	5.5	1.9	350
2.1 ,,	31	5.0	3.0	345	31	4.6	2.2	320	30	7.1	5·4	024	29	5.6	3.7	006	28	5.1	3.7	031	27	6.2	1.7	036
3.0 ,,	30	4.4	2.5	327	29	4.7	2.4	290	27	5.6	3.1	357	24	4.6	3.1	343	25	3.9	1.9	340	20	6.8	2.6	331
3.6 ,,	30	4.9	3.0	317	14	5.7	4.8	282	11	4.3	1.9	017	17	3.7	2.5	312	16	3.8	1.4	317	10	5.7	2.6	315
4.5 ,,	28	6.6	4.7	292	1	8.2	8.2	320					15	4.8	2.0	258	4	5.0	3.2	274	6	8.1	4.8	274
5.4 ,,	27	11.8	8.3	285									12	6.9	4.7	275					2	3.1	3.0	053
6.0 ,,	25	11.9	10.3	287									10	8.4	5.3	263					2	4.6	3.8	100
7.2 ,,	10	13.9	12.4	277									3	13·5	9·0	276					2	7·7	7·6	103
9.0 ,,																					1	8·7	8·7	085

Station	COCHIN								DARJEELING								DEHRA DUN							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.7	3.0	287	31	1.1	0.3	071	31	0.1	0.1	019	31	0.4	0.2	212	31	1.4	1.2	031	31	0.9	0.6	289
0.15 a.g.	26	4.3	3.8	283	23	3·1	1.6	322	21	1.3	1.1	084	16	1.4	0.1	188	31	1·8	0·9	073	29	2.5	1.6	280
0.3 a.m.s.l.	26	5.1	4.4	287	23	3·6	2·5	310																
0.6 ,,	26	4.9	4.1	303	23	4·5	3·3	307																
0.9 ,,	26	4.7	3.2	314	23	4.9	3.5	308									31	1.5	0·8	073	29	2.5	1.9	275
1.5 ,,	26	5.3	2.5	343	22	4.8	2.2	320									30	2.4	0.3	131	29	2.5	2.3	291
2.1 ,,	24	6.0	1.8	354	21	5.3	2.3	306									29	3.4	0.7	312	29	4.2	3.0	287
3.0 ,,	17	6.5	1·4	339	17	7.1	2.5	311	21	2.0	0.6	099	16	2.6	1.2	076	26	5.0	2.0	308	29	4.6	1.5	311
3.6 ,,	12	7.4	2.0	014	7	9.8	7.7	283	20	2·5	0.8	312	16	2.9	0.7	090	22	5.0	2.2	328	27	3.8	1.8	355
4.5 ,,	8	4.9	1.2	002	3	8·7	6.9	283	19	5.9	3.9	265	8	4.7	3.8	284	6	6.1	5.3	273	26	4.6	3.5	310
5.4 ,,	3	3.2	2.4	068					15	10.2	9.5	262	3	12.0	11.7	261	1	11.8	11.8	274	24	7.2	6.5	296
6.0 ,,	2	4.1	2.8	121					13	10.6	10.0	260	3	14.8	13·7	247	1	14.9	14.9	270	21	10.7	10.2	285
7.2 ,,									11	16.7	16.1	267	1	17.0	17.0	280					17	16.8	16.5	280
9.0 ,,									6	14.2	13.2	256									2	21.6	21.6	282

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Station	DUM DUM																GADAG							
Time in I. S. T.	0530*				1130*				1730*				2330*				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0.8	0.4	074	31	2.0	1.0	040	31	0.7	0.4	071	31	0.8	0.4	089	31	3.5	0.6	258	31	4.3	0.8	340
0.15 a. g.	31	4.0	1.6	034	31	3.7	1.6	039	31	3.6	0.9	019	31	4.0	0.2	359	29	7.1	1.4	215	31	6.1	0.8	291
0.3 a. m. s. l.	31	4.4	1.7	041	31	3.7	1.6	040	31	3·7	1·0	020	31	4·1	0·4	022								
0.6 "	31	4.6	2.2	054	31	3.7	1.7	051	31	4·1	1·3	035	31	4·5	0·8	049								
0.9 "	31	5.0	1.6	027	31	3.9	1.5	048	31	4·4	1·5	039	31	4.4	1.4	076	29	8.7	0.5	307	31	6.7	1.3	327
1.5 "	31	5.2	2.3	060	31	4·6	1·6	065	31	4·8	2·1	056	31	5.0	2.0	088	27	8.1	3.8	060	30	6.5	2.2	347
2.1 "	31	5.1	1.1	119	31	6·2	1·6	129	31	5·3	1·2	085	31	5.3	0.7	143	26	6.3	3.6	046	27	5.5	3.0	032
3.0 "	31	6.1	2.0	185	31	7.5	2.3	207	31	6.3	1.4	233	31	6.6	1.8	205	25	4.3	2.2	006	20	4.0	1.3	018
3.6 "	30	6.7	2.8	209	30	7.2	2.0	208	31	6.5	4.1	253	30	6.7	2.4	213	24	3.9	1.5	011	16	3.3	0.6	335
4.5 "	29	6.6	2.9	237	30	6.8	1.9	234	31	6.4	2.5	250	30	6.6	2.7	242	17	4.8	0.8	242	13	3.9	0.5	275
5.4 "	29	7.7	3·5	243	30	6.8	2.9	262	30	7.1	3.8	269	29	6.6	3.4	254	14	5.0	1.1	062	9	5.8	2·1	278
6.0 "	29	7.5	3·7	249	29	7.5	3.7	256	30	7.3	3.7	262	29	7.4	3.7	257	12	5.5	2.0	030	9	6.3	3.0	271
7.2 "	29	7.7	4.3	245	29	8.3	3.0	254	30	8·3	5·5	270	28	8·8	4.7	257	10	5.1	3.5	070	9	6.3	1.4	242
9.0 "	27	8.6	5.3	249	26	9·1	6·7	254	24	10·2	6·7	270	26	10.0	5.9	259	5	6.2	1·3	131	8	7·4	2.0	041

Station	GADAG				GANNAVARAM												GAUHATI							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4.6	1.0	271	31	1.7	0.7	327	31	2.5	0.2	133	31	1.7	0·6	133	31	0.4	0.3	065	31	2.5	2.0	040
0.15 a. g.	31	8.2	0.8	298	30	4.9	0.8	339	30	4.2	1.0	106	31	4.3	1.4	127	31	2.4	1.9	077	31	3.3	3.0	049
0.3 a. m. s. l.					30	5.2	0.5	310	30	4.3	0.7	073	31	4.6	1.4	113	31	2·7	2·1	078	31	3.6	3.2	059
0.6 "					30	5.8	0.6	313	30	4.3	1.4	004	31	5·3	1·0	069	31	4·0	2·9	085	31	3.9	3.7	077
0.9 "	31	8.6	0.9	305	30	5.3	1.4	343	30	4.7	2.5	351	31	5.5	1.6	016	30	4.3	3.2	093	31	4.3	3.6	095
1.5 "	31	7.6	3.0	022	29	4.7	2.2	344	27	5.5	3.6	351	31	5.9	3.1	348	30	4.1	2.6	100	30	3.7	2.7	108
2.1 "	31	5.9	4.0	037	28	4.6	2.6	345	26	5.3	3.3	355	31	5.8	3.2	336	30	3.9	1.1	120	27	3.2	1.8	140
3.0 "	28	4.3	1.9	017	28	3.5	1.4	340	25	4.0	1.6	333	29	3.5	0.8	285	30	4.3	1.0	165	23	4.1	2.8	214
3.6 "	17	3.3	1.5	345	24	4.1	0 9	231	23	3.9	1.8	297	18	3.7	1.2	205	30	5.3	2.7	235	19	4.9	2.6	212
4.5 "	13	3.9	0.6	229	20	2.9	0.5	152	22	4.0	2.0	201	14	4.1	2.3	176	29	7.8	6.7	250	15	7.3	6.7	252
5.4 "	11	3.9	1.0	240	17	2.8	0.5	102	21	4·1	1·3	210	9	3.3	2.1	193	29	11.2	10.3	259	13	9.0	8.4	263
6.0 "	7	4.3	2.1	267	12	3.5	1.8	072	20	4·2	0·7	194	9	4.0	1.9	189	29	12.5	11.5	261	13	10.0	9.6	262
7.2 "	1	13.4	13.4	285	10	3.6	2.2	136	14	4·8	0·6	230	2	3.9	2.2	195	29	14.3	13.3	260	10	12.4	8.6	257
9.0 "					8	5.1	3.3	135	8	5·3	4·1	094	1	5.7	5.7	080	26	19.3	18.0	262	6	17·1	15·8	257

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Station	GAUHATI								GAYA												GOPALPUR			
Time in I. S. T.	1730*				2330*				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0.8	0.2	104	31	1.6	0.5	150	31	1.5	1.2	124	31	1.7	0.7	057	31	1.3	0.7	127	31	2.0	2.0	337
0.15 a. g. .	31	2.6	1.2	066	31	2.7	1.3	134	30	4.0	1.4	191	31	3.5	1.3	019	30	3.3	0.9	122	28	5.1	4.5	346
0.3 a. m. s. l. .	31	2.8	1.4	074	31	2.9	1.7	026	30	4.1	0·6	145	31	3.8	1.3	023	30	3.4	0.9	108	28	3.9	2.8	021
0.6 ,, .	31	3.1	1.7	081	31	3.8	2.1	078	30	4.6	1.1	089	31	4.0	1.1	042	30	4.1	0.4	104	28	4.0	2.6	032
0.9 ,, .	31	3.1	1.7	096	31	4.2	2.0	085	30	4.8	1.0	070	30	3.9	0.6	013	30	4·3	0·3	334	28	4.6	3.0	040
1.5 ,, .	31	3.7	1.4	128	30	3.2	0.9	120	29	5.3	0.6	004	30	4.8	0.5	210	30	5.8	1·2	286	28	5.0	2.7	040
2.1 ,, .	31	3.8	1.6	177	26	3.2	1.8	174	29	5.7	0.7	337	28	6.3	1.1	211	29	5.7	1.6	256	24	4.9	2.5	040
3·0 ,, .	30	4.1	2.4	223	19	4.3	1.7	209	24	6.3	2.7	286	25	7.6	2.9	286	23	5.8	3.4	273	18	4.9	1.5	284
3·6 ,, .	30	5.7	4.2	249	14	5.9	4.0	222	21	6.4	4.1	277	23	7.4	4·6	303	14	6.4	5.5	289	9	3.6	2.3	246
4·5 ,, .	30	7.9	6.7	258	10	10.0	8·7	238	18	11.2	6·9	275	19	9·4	8.2	289	5	7.9	7.5	272	6	3.4	1.0	197
5.4 ,, .	29	10.8	9.9	260	6	9·2	8.0	241	11	11.8	10·2	276	14	11.5	10.6	279	2	7.5	7.4	288	6	3.1	1.5	067
6·0 ,, .	29	13.0	11.7	259	6	11.1	10·0	255	8	13·5	13.1	272	13	13 0	11.6	279	1	2.6	2.6	340	5	3.2	1.9	006
7.2 ,, .	29	16.6	15.5	263	2	24.0	24.0	260	2	20·6	20.6	265	12	16.5	13.4	278	1	5.7	5.7	015	1	2.6	2.6	240
9.0 ,,	29	21.8	20.6	262	1	15.4	15.4	259					6	19.0	18.3	265	1	14.9	14.9	045				

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3.2	1.7	091	31	1.7	0.9	317	31	1.0	0.6	060	31	1.2	0.3	346	31	0.5	0.1	335	31	1.1	0.7	028
0.15 a. g. .	31	4.1	2.3	095	28	4.2	0.7	352	30	4.0	0.7	072	30	3.5	0.9	323	27	4.1	2.3	218	29	3.4	2.1	019
0.3 a. m. s. l. .	31	4.6	2.7	084	28	4.0	0.9	045	30	4.3	0.4	090	30	3.8	1.0	317	27	3.2	2.1	222	29	3.1	1.7	014
0.6 ,, .	31	4.2	2.5	070	28	4.3	1.8	045	30	4.8	0.3	261	30	4.4	1.0	301	24	4.0	2.0	255	28	3.4	2.4	002
0.9 ,, .	30	4.3	2.6	043	28	4.7	2.6	042	30	5.0	0.3	313	29	4.7	1.3	278	24	3.5	1.5	289	28	3.6	2.7	356
1.5 ,, .	29	5.6	3.1	015	28	4.9	3.2	025	29	6.1	0.4	017	29	5.5	0.9	274	24	4.9	3.8	329	27	4.6	3.2	347
2.1 ,, .	26	5·3	2.2	354	26	4.6	2.4	006	29	6.4	1.6	079	29	6.0	0.3	144	24	7.0	6.0	330	25	6.4	4.8	330
3.0 ,, .	20	5.1	2.7	271	20	4.2	2·8	286	27	5.8	1.4	290	28	5.1	0.6	079	24	7.7	6.7	330	24	7.1	6.1	320
3.6 ,, .	19	5.3	3.2	263	8	3.9	2.3	260	24	6.9	4.7	267	27	5.3	11.5	311	24	6.4	5.1	325	24	7.2	6.2	304
4.5 ,, .	16	5.0	3.8	263	1	4.6	4.6	315	19	10.0	9·0	266	24	8.9	7.4	285	23	6.9	5·7	298	24	9.2	8.3	292
5·4 ,, .	14	4.4	1·2	268					18	12.3	11.4	266	23	11.3	10.7	279	23	9.2	8.1	279	23	11.8	10.9	281
6.0 ,, .	12	4.9	0.5	331					14	16.1	15.1	264	23	13.7	13.0	274	22	12.1	11.1	271	23	13.2	12.4	275
7.2 ,, .	10	3.7	0.2	128					7	19.7	18.6	262	18	18.9	18.3	270	20	16.8	15.9	275	22	17.6	17.0	272
9.0 ,, .	4	4.9	2.7	177					1	8.7	8.7	255	11	27.1	26·5	262	19	22.7	22.0	282	20	24.4	23.6	260

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Station	GWALIOR				IMPHAL												JABALPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0.4	151	31	0.3	0.1	273	27	1.4	0.6	246	31	0.2	0.1	315	31	0.8	0.2	138	31	1.3	0.8	043
0.15 a. g.	30	4.5	2.6	126	23	1.0	0.3	090	29	2.6	1.4	219	28	1.1	0.3	059	30	3.5	1.9	158	30	4.0	2.8	022
0.3 a. m. s. l.	30	3.9	2.2	131																				
0.6 „	26	3.7	2.0	130													30	3.8	1.7	145	30	4.0	2.8	022
0.9 „	26	3.0	0.8	119	23	1.0	0.2	140	29	2.4	1.1	232	28	1.0	0.3	093	30	4.0	1.2	071	30	4.0	2.7	013
1·5 „	26	3.8	2.1	327	23	2.6	2.1	076	29	3.0	1.4	209	28	2.3	0.7	147	24	4.5	3.4	013	29	4.3	2.7	008
2.1 „	26	6.0	4.6	322	20	4.1	2.8	167	28	4.2	2.0	190	23	3.8	1.6	153	24	7.3	6·4	006	27	5.3	3.7	004
3.0 „	25	7.6	5.6	331	16	5.6	4.0	219	25	6.8	3.9	220	17	5·9	3.3	175	21	7.9	6.9	354	24	4.8	3.4	351
3·6 „	17	7.2	5.9	327	14	6.5	5.1	238	23	7.9	5.9	241	14	6.1	3.6	211	19	6.1	4.5	333	21	5.8	4.7	307
4.5 „	2	7.5	7.3	301	10	7.9	6.2	244	18	10.4	10.0	263	5	6.0	5.0	233	19	6.1	3.9	293	19	8.3	7.5	278
5.4 „					9	6.5	5.2	261	14	10.6	9.7	261	4	5.7	5.3	253	17	8.2	5.6	271	18	9.8	9.4	271
6.0 „					8	7.6	6.4	262	11	13.1	11.4	258	4	7.4	6.0	256	17	10.1	7.7	267	18	10.9	10.4	265
7.2 „					4	7.1	4.6	219	5	15.5	14.8	269	3	8.9	6.5	259	9	14.3	13.9	255	16	13.3	12.4	268
9.0 „					1	4.6	4.6	020	3	15.4	14.1	253									8	18.8	17.9	256

Station	JABALPUR				JAGDALPUR												JAIPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0.8	0.6	124	31	0.3	0.1	014	31	0.8	0.6	048	31	0.4	0.1	023	31	1.2	0.9	035	31	2.1	1.4	007
0.15 a.g.	30	3.8	1.8	087	30	2.9	1.3	046	27	3.9	2.3	034	29	4.9	2·7	048	31	4.8	0.8	022	31	3.8	2.4	351
0.3 a. m. s. l.																								
0.6 „	30	4.1	1.9	080	31	1.3	0.3	046	27	2.3	1.2	041	29	2.9	1.3	053	31	5.1	0.6	050	31	3.8	2 6	352
0.9 „	30	4.0	2.4	051	29	4.2	2.0	052	27	4·3	2.7	028	28	5.3	3.2	037	27	5.4	0.7	317	31	4.2	3.2	340
1.5 „	29	4.4	2.3	025	27	5.2	3·0	023	26	4.2	2·8	024	28	4.3	1.9	019	26	4.5	2.7	316	29	4.1	3.3	336
2.1 „	27	5.1	2.8	006	25	6.0	3.5	346	25	5.1	2.4	023	28	4.7	1.2	319	24	5.4	4.4	323	28	4.6	3.5	339
3.0 „	25	4.7	2.0	341	21	4.6	2.3	320	23	5.7	1.3	295	25	4.5	2.7	282	24	6.0	4.2	318	28	5.4	3.7	329
3.6 „	15	5.0	4.1	310	18	3.9	2.6	266	22	5.1	2·7	264	11	4.9	4.3	257	18	6.1	4·3	320	26	5.9	3.0	310
4.5 „	2	6·4	3.9	267	15	3.8	2.5	248	19	4.8	2.5	250	3	5.3	4.4	242	6	5.9	3.3	307	25	7.9	4.2	319
5.4 „					13	4.1	0.1	294	16	3.9	0.4	263	3	7.1	3.8	229	2	7.7	5.3	342	18	10.7	9.7	283
6.0 „					12	4·3	0.1	319	14	4.7	0.7	339	3	7.2	3.2	235					16	12.4	11.1	277
7.2 „					4	5·0	1.7	165	6	3.6	1.3	071									11	16.2	15.6	277
9·0 „									3	4.0	2.7	161									6	19.3	16.6	274

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Station	JAIPUR				JAMSHEDPUR								JHARSUGUDA											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.3	1.0	040	31	1.5	0.4	334	31	1.9	0.7	070	31	1.4	1.3	022	31	1.7	0.1	143	31	1.4	0.5	012
0·15 a. g.	30	4.4	0.7	068	30	3.3	1.2	342	31	3.4	1.6	063	30	3.5	2·8	044	29	3.4	0.3	038	30	4.1	0.6	063
0·3 a. m.s.l.					30	3·3	1·0	357	31	3·4	1·4	068	30	2·9	2·3	038	29	3.1	0.4	349	30	3·3	0·9	036
0·6 ,,	30	4.4	0.5	078	30	4·0	2.2	055	31	4.3	2.1	082	30	4.3	2.3	055	29	3.9	1.1	081	30	4.7	1.2	098
0·9 ,,	30	3.0	0·2	357	30	4.8	2.6	055	30	4.6	2.0	067	29	4.7	2.4	050	29	4.0	1.5	092	30	4.8	1.8	103
1·5 ,,	30	2.7	1·4	300	28	5.0	2.6	045	27	4.7	2.0	027	26	4.0	2·1	033	27	4.6	2.0	071	28	4.0	1.0	009
2·1 ,,	30	4.2	2.5	300	26	5.1	2.0	320	25	4.9	1.7	344	22	5.1	2.3	351	25	5.7	2.7	037	27	4 4	0.3	328
3·0 ,,	25	6.1	5.1	290	22	5.8	2·2	245	21	6.3	3.8	288	16	5.7	1.8	300	20	5.6	2.8	323	21	5.5	3.4	286
3·6 ,,	21	7.7	7.1	289	17	5.8	2.2	234	20	6.8	4.9	273	14	4.9	2.2	263	17	5.1	3.7	276	9	6.3	6·3	273
4·5 ,,	9	8·7	8 2	276	16	7.1	4.0	240	18	7.7	5.9	273	3	5.5	2.9	208	13	5·7	4·6	273				
5·4 ,,	3	10·1	9·1	292	13	8.1	6.4	284	13	8·6	7·7	281					1	4·1	4·1	270				
6·0 ,,	1	7·2	7·2	245	11	7.4	6.3	286	8	8·8	8·5	277												
7·2 ,,					8	7·6	6·7	274	7	9·8	9·0	267												
9·0 ,,					2	12·6	12.4	230	5	9·3	8·7	251												

Station	JODHPUR																MADRAS							
Time in I. S. T.	0530*				1130				1730*				2330				0530*				1130*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	2.1	1.6	027	31	1.7	0.7	013	31	2.7	1.2	347	31	2·4	1.1	002	30	2.5	1.1	261	31	3.7	1 0	307
0.15 a. g.	29	5.8	3.8	038	30	3.0	1.3	337	31	5.7	4.6	353	31	6·5	2.0	359	30	6.4	1.5	287	31	6.1	2.5	346
0.3 a.m s.l.	29	4.7	3.0	034	30	2.9	1.3	341	31	3.7	2.5	348	31	5·8	1.5	345	30	6.0	1·5	266	31	5.6	2.1	345
0.6 ,,	29	5.1	2.5	012	30	3.6	1.4	334	31	4.5	3.0	348	31	6.6	2.2	005	30	5.9	1.7	259	31	4.6	1.8	332
0.9 ,,	29	4.6	1.4	357	30	4.4	1.9	329	31	3.7	1.6	324	31	6.2	2.3	006	30	6.0	1.3	292	31	5.4	2.3	340
1.5 ,,	29	4.3	1.6	327	29	4.7	2.5	318	31	3.7	2.3	337	31	5.0	2.2	353	30	6.3	2.5	004	31	5.5	2.1	011
2.1 ,,	29	5.0	2.2	342	28	5.2	2.4	337	31	4.1	2.4	327	31	4.5	2.2	344	30	5.7	2.4	007	29	5.1	3.8	010
3.0 ,,	28	5.5	3.1	343	28	5.5	2.4	346	31	4.2	2·3	326	27	4.7	1.4	334	30	4.9	0.8	013	28	5.2	1.3	335
3.6 ,,	26	6.5	3.3	339	25	5·9	1.7	336	30	4.6	1·8	312	10	4.4	2.5	344	30	4.8	1.2	300	28	5.3	1.3	296
4.5 ,,	23	7.2	5.4	312	21	6·4	3.0	286	30	6.0	4·1	293	4	5.1	1.8	320	29	5.7	1.4	273	28	6.3	0.9	270
5.4 ,,	21	10 5	7.5	292	17	8·5	7·1	279	27	8.5	7·3	283	2	9.0	5.8	303	30	5.5	0.4	300	28	5.9	0.9	188
6.0 ,,	21	11.8	8.6	286	17	10·7	9.5	280	27	10.5	8·9	276	2	8.5	4.4	305	30	4.7	0.9	044	29	5.6	0.4	138
7.2 ,,	17	16.9	14·1	275	6	17·2	14.9	272	24	12.9	12·1	273	1	3.1	3.1	315	29	4.5	1.2	067	29	5.9	0.8	127
9.0 ,,	14	21·2	19.6	262					13	16.6	15·2	257	1	8.7	8.7	231	27	5.7	4.1	102	25	6.3	3.6	113

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Station	MADRAS								MINICOY												MOHANBARI			
Time in I.S.T.	1730*				2330*				0530*				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·5	1·5	068	31	2·7	0·7	114	31	2·4	2·2	297	31	2·6	2·2	300	31	2·7	2·3	288	31	0·7	0·6	048
0·15 a.g.	30	6·0	2·7	060	31	6·4	1·7	089	29	4·0	3·1	300	31	4·5	3·8	295	31	4·0	3·5	293	28	4·0	3·5	053
0·3 a. m. s. l.	30	5·4	2·1	049	31	5·7	1·6	090	29	4·0	3·1	300	31	4·3	3·5	300	31	3.8	3·3	294	28	4·1	3·5	050
0·6 ,,	30	4·7	2·1	024	31	5·0	1·3	058	29	4·5	3·4	299	31	4·9	4·1	297	31	4.0	3·3	295	28	3·3	3·1	040
0·9 ,,	30	5·3	2·2	009	31	5·6	1·5	038	29	4·8	3·4	297	31	5·3	4·0	296	31	4·1	3·1	296	28	3·0	2·8	050
1.5 ,,	30	5·9	2·9	350	31	6·6	2·7	007	29	4·4	1·8	295	31	5·3	3·0	296	31	4·4	2·3	298	27	2·4	1·8	078
2·1 ,,	30	6·0	3·0	350	31	6·6	3·2	354	29	4·8	1·1	318	30	5·4	3·6	315	31	5·2	1·6	315	26	2·5	1·0	159
3·0 ,,	29	5·3	2·0	338	31	4·8	1·1	354	26	5·5	2·2	290	26	5·9	2·6	295	26	5·5	0·9	332	22	3·7	3·0	228
3·6 ,,	30	5·0	1·7	304	31	5·1	0·7	285	22	5·2	1·7	278	25	6·4	3·0	285	20	5·0	0·8	353	18	5·6	4·9	230
4·5 ,,	31	6·4	1·6	249	31	5.2	0.9	251	18	4·9	1·1	310	23	5·7	1·3	290	12	4·9	0·5	165	11	9·6	9·4	250
5·4 ,,	31	5·2	0·7	223	31	5.0	1.0	270	15	4·0	1·2	066	22	5·3	1·4	040	6	3·7	0·8	108	9	13·8	13·8	253
6·0 ,,	30	5·1	0·4	248	30	5.0	0.5	121	14	5·7	3·3	085	18	5·1	1·2	080					8	16·7	16·2	260
7·2 ,,	29	5.3	0.5	017	30	5·1	0·9	103	9	6·0	5·8	092	14	6·7	4·8	091					1	17·5	17·5	255
9·0 ,,	27	5.8	3.2	110	28	6·0	3.9	107	6	6·8	6·3	100	10	6·9	6·8	095								

Station	MOHANBARI								NAGPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·4	0·4	056	31	0·5	0·5	048	30	0·8	0·1	356	31	1·9	0·5	352	31	1·9	0·8	031	31	1·1	0·5	036
0·15 a.g.	29	1.9	1·0	080	30	3·0	2·2	046	30	4·6	2·4	038	31	2·8	0·6	316	31	4·1	2·0	360	31	4.2	2·6	063
0·3 a. m. s. l.	29	2·0	1·1	083	30	2·8	2·0	049																
0·6 ,,	29	1·7	1·1	076	30	2·6	2·2	056	30	4·4	2·3	048	31	2·8	0·9	010	31	3·9	2·0	003	31	4·3	2·7	060
0·9 ,,	29	1·9	1·3	077	30	2·1	1·8	063	30	4·1	2·0	038	30	3·0	1·4	025	31	3·6	2·0	012	31	4·4	2·6	043
1·5 ,,	29	2·0	1·1	159	30	2·1	0.2	113	30	4·9	3·2	019	25	4·2	2·8	017	31	4·5	2.9	006	30	4·6	2·4	016
2·1 ,,	29	3·0	2·4	194	28	2·6	1·8	228	30	5·9	4·5	007	24	5·1	4·2	008	31	4·9	3·3	002	30	4·6	2·6	357
3·0 ,,	27	4·1	3·8	217	24	4·1	3·8	224	30	4·1	2·2	340	22	3·5	1·6	337	31	4·2	2·2	351	27	3·4	1·7	325
3·6 ,,	26	5·5	5·0	232	16	5·3	5·0	230	30	3·7	1·5	311	22	4·3	1·9	277	31	4·4	2·3	312	14	3·9	2·9	273
4·5 ,,	23	8·6	8.1	247	9	9·0	8·3	248	30	4·4	0·7	255	22	4·9	3·0	259	30	4·7	2·2	271	6	5·9	5·3	242
5·4 ,,	22	12·6	12·0	254	1	10·3	10·3	295	30	5·3	1·9	242	19	6·0	3·9	252	30	5·2	2·8	271	2	7·7	6·8	267
6·0 ,,	19	14·3	13·9	258					30	5·6	2·4	257	19	6·9	4·9	254	29	5·8	3·2	260	1	12·9	12·9	255
7·2 ,,	12	18·6	17·2	264					28	6·4	3·6	253	17	9·6	7·4	255	29	7·3	4·7	267	1	16·5	16·5	225
9·0 ,,	5	19·1	17·5	271					22	8·4	6·6	257	12	12·1	10·0	242	27	9·7	6·8	258				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

October 1900 (Asvina 9—Kartika 9, 1882 Saka)

Station	NANPARA								NEW DELHI															
Time in I.S.T.	0530				1730				0530*				1130*				1730*				2330*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·6	0·4	062	31	0·6	0·4	017	31	1·7	0·5	055	31	1·6	0·3	085	31	1·6	1·0	020	31	2·3	0·8	036
0·15 a.g.	29	3·2	0·7	065	29	3·3	1·6	307	31	5·3	0·8	030	31	5·0	1·3	045	31	5·5	3·5	360	31	5·5	1·5	030
0·3 a. m.s.l.	29	3·3	0·4	081	29	3·4	1·5	305	31	3·6	1·0	010	31	4·2	1·0	044	31	4·4	2·9	004	31	4·5	1·4	037
0·6 ,,	29	4·3	0·3	279	29	4·1	1·0	306	31	5·0	1·6	051	31	4·5	1·0	045	31	4·9	2·7	010	31	4·9	1·9	044
0·9 ,,	28	4·6	1·2	295	28	4·1	1·1	297	31	5·2	1·7	065	31	4·4	1·0	044	31	4·5	2·1	009	31	5·3	2·1	041
1·5 ,,	27	5·0	2·2	312	28	5·2	1·5	296	31	5·5	2·3	352	31	5·0	1·6	011	31	5·3	2·4	338	31	6·1	2·3	355
2·1 ,,	27	5·3	1·3	352	27	5·2	1·2	298	31	6·7	4·1	340	31	6·0	3·2	332	31	5·7	3·1	320	31	6·1	2·7	318
3·0 ,,	35	5·7	0·7	313	27	5·6	0·7	344	31	6·7	4·5	321	29	5·9	3·2	329	31	5·5	3·5	318	31	6·0	3·1	300
3·6 ,,	23	5·2	3·5	305	26	5·5	2·8	319	31	5·8	3·0	319	29	5·6	2·7	319	31	6·0	4·5	310	31	6·1	3·8	293
4·5 ,,	21	6·2	5·0	290	26	7·4	5·7	287	31	5·9	3·8	295	29	6·5	3·9	273	31	6·9	5·2	296	31	6·9	5·1	295
5·4 ,,	19	9·5	6·9	277	25	10·5	9·5	271	31	7·9	6·1	279	29	8·3	6·3	270	31	9·1	8·3	282	31	8·7	7·7	286
6·0 ,,	19	12·5	11·5	269	25	13·2	12·6	271	31	10·0	8·0	274	28	11·3	9·3	267	31	10·7	9·5	281	31	10·0	9·0	286
7·2 ,,	16	18·6	17·9	268	24	18·8	18·2	269	30	15·4	14·3	271	28	15·5	14·6	267	31	15·1	13·6	274	31	14·6	13·6	276
9·0 ,,	5	27·2	26·6	254	19	28·1	27·0	263	30	23·0	22·1	267	27	23·0	21·3	263	30	21·7	20·7	267	29	21·6	20·2	269

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·8	0·7	252	31	2·2	0·8	319	31	0·9	0·8	251	31	1·7	0·6	204	31	3·9	1·7	212	31	1·9	0·8	238
·15 a.g.	31	4·0	1·3	260	30	5·3	1·5	307	31	4·5	2·3	279	31	5·8	2·1	222	30	5·7	2·2	197	31	5·2	1·4	210
0·3 a. m.s.l.													31	5·9	2·4	216	30	5·8	2·1	202	31	5·4	1·8	222
0·6 ,,	31	2·1	1·8	244	30	3·5	0·8	347	31	2·3	1·8	241	30	6·6	2·3	213	30	5·8	1·6	212	31	6·1	1·9	227
0·9 ,,	31	5·7	1·2	357	30	5·0	1·6	318	31	5·8	2·5	312	30	7·1	2·6	202	28	5·8	1·3	209	31	7·0	2·3	204
1.5 ,,	31	7·7	3·2	041	30	5·5	0·7	243	31	7·3	3·9	016	30	7·0	2·3	195	18	6·4	2·0	112	31	6·7	2·0	210
2·1 ,,	27	6·5	4·2	037	25	4·8	2·7	015	31	6·2	4·2	037	29	6·7	1·8	315	14	6·3	2·1	175	31	6·8	2·3	230
3·0 ,,	24	5·5	2·7	347	20	3·6	1·6	016	27	4·2	2·1	049	29	7·7	2·3	316	6	5·1	1·3	094	31	8·5	3·5	226
3·6 ,,	18	4.3	1·4	314	19	3·7	1·2	330	20	4·2	0·6	246	27	7·7	1·6	170	6	4·6	2·6	118	29	7·3	1·3	230
4·5 ,,	4	3·2	2·3	276	17	5·7	0·8	352	10	5·0	2·7	293	26	7·0	1·9	130	4	4·5	3·7	093	28	7·5	1·4	141
5·4 ,,					14	6·2	1·8	300	9	6·2	3·8	299	22	6·4	1·7	115	4	5·9	4·9	084	24	7·6	6·0	110
6·0 ,,					12	6·9	3·3	272	7	6·7	5·5	274	22	6·6	2·8	106	3	7·9	5·6	083	21	6·1	4·0	108
7·2 ,,					10	8·3	5·7	267	1	2·1	2·1	130	20	6·0	2·7	116					21	6·9	4·3	100
9·0 ,,					3	3·1	0·9	229					20	9·0	6·5	259					18	11·6	7·3	099

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·5	1·1	199	31	0·8	0·1	090	31	1·6	0·7	029	31	1·0	0·3	051	31	0·3	0·1	098	31	0·1	0·1	090
0·15 a. g.	30	5·5	2·6	209	31	3·7	0·8	067	30	3·4	1·6	041	28	3·9	1·2	090	29	2·9	2·0	077	30	3·6	1·2	295
0·3 a. m.s. l.	30	5·6	2·6	206													29	2·8	0·9	105	30	3·7	1·2	070
0·6 ,,	30	6·2	2·8	208	31	3·9	1·0	067	30	3·5	1·6	039	28	4·0	1·1	071	29	3·3	1·2	276	30	4·0	1·1	274
0·9 ,,	29	5·8	2·5	191	31	3·6	1·0	063	30	3·4	1·9	038	28	3·7	1·0	045	29	3·9	1·6	276	30	4·4	1·3	260
1·5 ,,	28	5·7	1·8	196	27	4·1	2·0	020	30	4·0	2·1	026	26	4·5	2·3	007	29	3·9	1·1	280	30	5·0	1·1	245
2·1 ,,	23	4·8	1·4	199	23	5·5	3·1	006	26	5·3	2·6	006	24	4·8	2·5	011	28	4·5	0·2	022	29	3·8	1·3	149
																	27	4·6	1·5	077				
3·0 ,,	18	3·1	2·0	155	19	5·7	2·3	333	20	7·0	3·1	339	20	5·0	2·3	342	23	4·4	1·0	287	25	3·3	1·6	083
3·6 ,,	8	5·6	2·3	109	16	4·9	1·5	276	17	6·1	2·9	255	6	3·8	1·7	261	21	7·1	5·9	266	17	4·8	1·7	338
4·5 ,,	1	5·1	5·1	125	10	7·1	4·0	242	12	6.5	4·3	242	1	8·2	8·2	245	16	10·8	10·0	271	9	8·2	7 6	287
5.4 ,,					8	7.5	4·2	221	10	7.5	6·1	236					10	13·9	13·2	262	3	13·4	11·7	258
6·0 ,,					4	6.8	5·1	174	5	9·1	8·7	225												
7·2 ,,					2	2·6	2·5	216	4	13·7	13·7	229												
9·0 ,,					1	10·8	10·8	286	1	19·0	19·0	245												

Station	SANTACRUZ																TIRUCHIRAPLLI							
Time in I. S. T.	0530*				1130*				1730*				2330*				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	0·6	089	31	2·6	0·7	160	31	3·0	2·3	308	31	1·3	0·5	319	31	2·8	2·2	285	31	3·7	3·1	020
0·15 a. g.	31	5·0	1·7	037	31	5·1	1·5	080	31	6·4	4·8	300	31	4·5	1·5	347	31	5·9	3·5	295	31	5·2	1·4	041
0·3 a. m. s. l.	31	4·7	1·8	030	31	5·1	1·2	089	31	5·6	4·0	309	31	4·4	1·5	356	31	6·5	3·8	294	31	5·5	1·4	036
0·6 ,,	31	4·5	2·0	031	31	5·3	1·4	089	31	4·5	2·0	319	31	4·6	2·3	359	31	6·9	3·5	301	31	6·3	1·4	017
0·9 ,,	31	5·0	2·7	028	31	5·8	2·0	060	31	4·4	1·5	351	31	5·5	2·9	005	31	6·5	2·5	306	31	6·2	1·5	354
1·5 ,,	31	5.6	3·5	020	31	5·7	3·0	053	31	5·0	2·2	031	31	5·4	2·8	027	30	5·6	1·4	292	31	5·6	2·1	317
2·1 ,,	31	7·7	2·8	025	31	6·1	2·9	036	31	5·9	3·3	033	31	6·5	3·4	037	30	6·1	1·9	340	29	6·3	2·8	312
3·0 ,,	31	5·0	1·9	025	31	6·1	2·4	017	31	5·5	2·9	014	31	5·7	2·5	036	29	7·2	2·4	302	27	8·2	3·9	300
3 6 ,,	31	5·1	1·3	359	31	5·0	2·2	343	31	4·6	2·2	354	30	4·4	1·7	029	23	6·5	2·3	288	24	8·6	3·1	280
4·5 ,,	31	5·4	2·3	001	31	4·6	1·7	007	31	5·0	2·1	013	30	5·6	2·2	022	20	5·3	1·9	258	20	7·7	2·9	248
5·4 ,,	31	5·2	1·9	009	31	5·0	1·5	037	31	5·4	1·1	351	30	6·1	2·0	030	14	5·0	1·9	267	16	5·5	0·6	131
6·0 ,,	31	5·6	2·1	352	31	6·0	1·6	007	31	6·0	1·8	345	30	6·2	2·4	343	10	5·1	0·0	180	14	4·6	1·9	085
7·2 ,,	31	6·7	2·4	309	31	6·9	0·8	266	31	6·9	1·6	313	30	7·1	2 4	300	2	4·9	4·8	180	7	5·3	2·1	087
9·0 ,,	26	7·3	3·9	270	29	7·7	2·6	265	29	6·6	1·5	303	26	7·3	4·0	267					3	9·3	9·2	082

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

October 1960 (Aswina 8—Kartika 9, 1882 Saka)

Station	TIRUCHIRAPALLI				TRIVANDRUM																UDAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·9	0·6	181	31	1·8	1·3	342	31	3·1	2·4	306	31	3·8	3·5	296	31	2·0	1·5	334	31	0·1	0·1	355
0·15 a. g. .	31	5·7	0·6	158	30	5·9	5·0	334	31	4·1	3·2	304	29	6·5	5·9	299	30	5·5	4·3	319	31	2·1	0·9	319
0·3 a. m. s. l. .	31	6·3	0·8	148	30	6·2	3·0	239	31	4·6	3·7	304	29	6·8	6·2	300	30	6·1	4·8	315				
0·6 ,, .	31	6·8	0·7	106	30	6·6	5·6	316	29	5·5	4·5	312	29	6·9	5·8	304	30	7·0	5·6	317				
0·9 ,, .	31	6·5	0·7	024	30	6·3	4·8	312	23	5·3	4·6	318	29	6·0	4·7	313	30	6·2	4·8	318	31	3·1	0·3	046
1·5 ,, .	30	5·5	1·5	348	30	6·0	3·2	306	19	4·8	3·1	327	29	6·3	3·5	317	26	5·7	3·1	325	31	4·0	2·7	087
2·1 ,, .	28	5·3	2·1	345	30	6·2	2·3	310	17	4·8	2·7	339	29	6·6	3·3	318	26	5·9	1·9	353	31	5·1	3·9	068
3·0 ,, .	28	6·5	2·5	330	30	7·1	3·0	286	14	4·9	2·1	313	29	7·6	3·1	293	21	5·0	1·5	053	29	6·2	3·5	076
3·6 ,, .	15	7·2	2·5	309	29	6·8	2·6	267	12	6·0	2·4	269	29	7·8	2·7	283	16	5·2	0·9	284	26	4·8	3·1	054
4·5 ,, .	2	6·2	3·2	276	29	6·7	1·6	241	9	3·8	0·1	243	29	6·5	1·9	260	12	5·5	1·1	140	14	5·2	3·7	029
5·4 ,, .					29	6·0	0·1	244	9	4·3	3·0	086	29	6·1	0·8	220	8	4·3	3·4	105	6	6·3	4·1	024
6·0 ,, .					29	5·5	3·4	042	8	5·6	4·8	093	29	6·2	1·8	125	7	5·3	4·1	118	3	5·7	5·2	320
7·2 ,, .					29	6·3	2·5	087	8	7·9	7·6	086	29	6·5	3·0	104	4	7·2	6·8	094				
9·0 ,, .					27	6·4	5·5	089	7	7·4	7·1	094	25	7·1	5·1	103								

Station	UDAIPUR								VENGURLA												VERAVAL			
Time in I. S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·8	0·1	210	31	0·3	0·1	303	31	0·9	0·5	047	31	2·0	1·5	269	31	0·7	0·6	001	30	3·5	3·3	344
0.15 a. g. .	31	3·1	0·1	031	31	2·4	0·8	317	31	3·7	1·0	049	31	3·7	2·5	276	31	3·9	2·6	338	30	6·3	5·6	341
0.3 a. m. s. l. .									31	4·7	1·6	021	31	3·9	2·8	279	31	4·6	3·3	327	30	5·3	4·6	340
0·6 ,, .									30	6·0	2·2	021	31	4·5	2·8	294	31	4·4	3·0	324	29	4·1	3·1	344
0·9 ,, .	31	3·6	0·6	015	31	3·2	0·6	007	28	6·1	2·4	041	30	4·5	1·9	317	30	4·3	2·5	339	29	3·9	2·8	001
1·5 ,, .	31	3·5	1·8	055	31	3·8	2·8	071	26	6·0	2·7	068	26	4·4	2·2	038	29	6·3	3·7	024	28	3·8	2·2	046
2·1 ,, .	30	4·1	2·8	061	30	4·7	3·7	080	25	5·5	2·8	059	25	6·3	3·8	046	27	7·8	4·5	050	28	4·0	2·5	055
3·0 ,, .	27	4·2	2·3	047	30	5·3	3·4	062	19	3·8	1·2	035	20	5·3	2·3	046	23	6·4	3·1	070	28	4·3	2·1	085
3·6 ,, .	24	4·4	1·9	307	29	4·7	2·4	045	8	3·1	1·5	107	20	3·7	0·9	018	9	4.5	2·1	186	27	3·3	2·0	035
4·5 ,, .	19	4·7	2·6	358	19	5·5	2·2	002					13	3·7	0·6	240					27	5·0	2·5	024
5·4 ,, .	17	7·6	3·8	345	12	7·1	4·3	345					12	4·8	0·5	334					26	5·5	2·0	020
6·0 ,, .	15	8·5	3·5	002	9	8·5	6·2	330					10	7·1	1·8	049					26	5·8	2·3	013
7·2 ,, .	12	9·2	5·6	330	4	9·8	7·9	279					9	6·8	1·5	041					23	7·3	2·2	328
9·0 ,, .	6	6·8	2·7	353									7	8·0	2·6	345					13	9·3	4·0	279

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Station	VERAVAL												VISAKHAPATNAM											
Time in I.S.T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4·5	2·5	307	31	4·7	3·5	283	31	2·7	2·3	313	31	1·4	1·1	006	31	2·2	0·6	065	31	2·0	1·4	020
0·15 a. g. .	31	4·4	2·6	328	31	5·9	4·1	284	31	6·0	5·3	300	30	8·1	7·2	002	29	2·6	0·9	051	31	8·2	6·7	022
0·3 a. m. s. l. .	31	4·8	3·2	339	31	5·8	3·3	287	31	6·6	6·1	301	30	7·1	5·5	360	29	2·9	1·1	042	31	7·0	4·5	026
0.6 ,, .	31	4·4	2·9	356	31	4·9	3·0	287	31	6·4	4·8	307	30	4·8	2·0	031	28	3·3	1·5	033	31	4·8	1·9	054
0·9 ,, .	31	4·3	2·7	012	31	3·8	1·7	303	29	5·3	2·7	321	30	5·0	2·1	033	27	4·1	2·1	022	31	4·9	2·7	026
1·5 ,, .	31	4·1	2·5	054	31	4·0	2·8	022	28	4·0	1·4	004	30	4·9	2·2	008	27	5·5	3·3	023	31	5·9	3·6	004
2·1 ,, .	30	4·2	2·4	072	31	4·9	4·0	035	27	4·0	2·5	049	30	5·3	2·2	334	25	5·5	3·3	001	31	5·1	3·1	351
3·0 ,, .	30	4·7	1·9	051	31	5·1	4·2	040	26	4·4	2·4	052	30	4·5	2·2	293	20	4·6	1·6	353	31	4·7	2·3	327
3·6 ,, .	30	4·3	2·5	035	30	5·0	3·3	038	12	3·3	1·8	013	30	3·9	0·8	253	18	4·6	1·1	216	30	4·4	1·5	292
4.5 ,, .	30	5·0	1.9	024	27	5·0	2·0	360	6	4·6	2·5	290	30	3·9	0·3	234	15	5·0	1·6	204	30	3·8	1·3	214
5·4 ,, .	30	6·1	1·5	004	26	5·9	3·4	330	2	6·7	5·7	255	30	3·4	0·6	107	11	3·9	0·2	021	30	4·0	0·5	286
6·0 ,, .	29	7·2	1·9	301	26	6·7	2·5	299	2	10·8	7·8	247	30	3·7	1·5	094	10	4·3	0·8	167	30	4·3	0·4	289
7·2 ,,	25	6·4	2·8	268	24	9·0	4·4	302					29	5·3	2·1	119	8	5·9	1·5	185	30	5·4	0·8	358
9·0 ,, .	14	9·1	7·5	261	16	12·9	9·5	265					22	7·3	4·4	135	6	5·5	1·9	104	21	6·8	2·2	085

Station	VISAKHAPATNAM			
Time in I. S. T.	2330			
Ht. in Km.	n	V	v	D
Surface . .	31	1·2	0·6	356
0·15 a. g. .	30	2·8	2·1	282
0·3 a. m. s. l. .	30	3·4	1·3	074
0·6 ,, .	30	4·5	1·9	060
0·9 ,, .	29	5·0	2·4	034
1·5 ,, .	28	5·0	2·9	006
2·1 ,, .	24	4·8	2·7	318
3·0 ,, .	21	4·1	2·3	259
3·6 ,, .	15	3·4	2·3	281
4·5 ,, .	11	4·2	2·5	234
5·4 ,, .	6	2·8	1·1	204
6·0 ,, .	6	3·3	1·7	082
7·2 ,, .	2	3·9	3·7	096
9·0 ,, .	1	9·3	9·3	111

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA			
	1730 hrs.			
10.5	3	10·7	5·6	151
12.0	2	6.7	5.9	064
14.1	1	2.6	2.6	092
	AMAUSI			
	1730 hrs.			
10.5	1	43.2	43.2	260
	AMBALA			
	0530 hrs.			
10.5	1	25.2	25.2	254
	1730 hrs.			
10.5	1	39.2	39.2	245
	ANANTAPUR			
	0530 hrs.			
10.5	3	6.7	4.5	129
12.0	2	14.2	10.2	128
	1730 hrs.			
10.5	7	7.7	7.1	093
12.0	4	13.7	13.4	096
14.1	1	19.6	19.6	100
16.2	1	22.1	22.1	085
18.0	1	17.5	17.5	070
	BAGHDOGRA			
	0530 hrs.			
10.5	4	9.8	9.8	287
12.0	2	5.1	5.1	286
	1730 hrs.			
10.5	6	17.4	16.8	266
12.0	3	8.2	7.1	272
14.1	1	9.3	9.3	290
16·2	1	6.2	6.2	295
18.0	1	2.6	2.6	271
	BAIRAGARH			
	0530 hrs.			
10.5	14	19.6	17.8	256
12·0	9	16.5	15.6	251
14.1	7	13.9	13.1	257
16.2	3	11.2	10.5	274
18.0	3	7.7	6.3	196
21.0	1	4.1	4.1	110
	1730 hrs.			
10.5	9	24.2	23.7	254
12.0	7	19.1	18.8	253
14.1	1	16.5	16.5	270
16.2	1	18.5	18.5	240
18.0	1	10.3	10.3	255
	BAJPE			
	1730 hrs.			
10.5	5	11.6	10.0	105
12.0	3	15.4	13.2	103
	BAMRAULI			
	0530 hrs.*			
10.5	20	20.5	19.8	253
12.0	12	25.4	24·7	248
14.1	8	24.0	23.2	244
16.2	4	17.8	17.6	249
18.0	3	9.9	9.9	248
	1130 hrs.			
10.5	3	31.9	31.3	250
	1730 hrs.*			
10.5	20	19.9	19.2	256
12.0	13	21.8	20.8	259
14.1	6	28.4	27.9	256
16.2	4	19.7	19.2	263
18.0	2	12.9	10.9	300
	BANGALORE			
	0530 hrs.			
10.5	4	11.4	11.2	102
12.0	2	19.3	19.0	100
14.1	1	18.0	18.0	090
16.2	1	13.4	13.4	115
	1730 hrs.			
10.5	6	9.4	8.9	094
12.0	5	16.8	16.3	102
14.1	3	24.3	24.3	099
16.2	1	20.6	20.6	099
18.0	1	10.8	10.8	070
21.0	1	20.6	20.6	095
	BAREILLY			
	0530 hrs.			
10.5	1	30.8	30.8	239
	1730 hrs.			
10.5	2	27.8	27.5	252
	BEGUMPET			
	0530 hrs.			
10.5	6	6.6	2.8	215
12.0	3	8.2	6.9	199
14.1	2	7.7	7.5	145
16.2	2	9.0	6.8	146
18.0	2	16.7	12.2	155
21.0	2	18.0	9.5	171
24.0	1	28.3	28.3	060
	1730 hrs.			
10.5	11	7.4	3.6	167
12.0	10	9.7	6.7	178
14.1	7	13.3	9.6	161
16.2	5	9.2	8.4	112
18.0	5	7.5	6 5	088
21.0	3	12.2	2.3	134
	BHUBANESHWAR			
	0530 hrs.			
10.5	4	6.7	4.1	191
12.0	3	5.3	5.0	107
14.1	2	2.6	2.5	085
16.2	1	10.3	10.3	080
	1730 hrs.			
10.5	1	5.7	5.7	109
	DARJEELING			
	0530 hrs.			
10.5	2	11.6	11.6	255
	DEHRA DUN			
	1730 hrs.			
10.5	2	28.6	28.4	279
12.0	1	40.2	40.2	266
	DUM DUM			
	0530 hrs.*			
10.5	25	10.8	5.9	247
12.0	22	11.4	6.8	232
14·1	16	12.6	5.3	218
16.2	9	10.1	3.8	228
18.0	7	7.9	0.8	284
21.0	3	9.9	5.9	151
24.0	1	5.7	5.7	290
27.0	1	33.4	33.4	250
30.0	1	34.0	34.0	225
33.0	1	15.4	15.4	260
	1130 hrs.			
10.5	20	10.3	7.9	256
12.0	16	9.1	6.6	250
14.1	8	10.8	9.5	242
16.2	4	6.8	6.0	246
18.0	2	4.6	4.6	078
21.0	1	6.7	6.7	100
	DUM DUM			
	1730 hrs.*			
10.5	22	11.1	7.8	254
12.0	20	12.0	8.2	226
14.1	14	13.3	8.4	230
16.2	6	12.3	11.9	256
18·0	3	9.3	9.3	240
	2330 hrs.			
10.5	23	11.2	7.2	247
12.0	17	12.4	9.4	236
14.1	9	18.4	13.1	220
16.2	3	9.2	6.1	214
18.0	2	6.7	2.3	215
21.0	1	7.7	7.7	175
24.0	1	6.2	6.2	220
	GADAG			
	0530 hrs.			
10·5	4	8·2	6·0	147
12·0	2	2·6	2·6	133
14·1	1	10·8	10·8	110
	1730 hrs.			
10·5	7	10·0	5·6	112
12·0	5	11·3	6·2	127
14·1	4	16·7	14·7	127
16·2	3	12·9	12·4	112
18·0	1	10·3	10·3	090
	GANNAVARAM			
	0530 hrs.			
10·5	3	9·1	5·0	176
12·0	1	2·6	2·6	250
	1730 hrs.			
10·5	4	8·3	8·2	093
12·0	3	10·8	10·8	133
14·1	3	11·2	10·2	116
16·2	2	10·6	10·6	106
	GAUHATI			
	0530 hrs.*			
10·5	24	21·8	20·8	264
12·0	22	23·5	22·4	263
14·1	12	24·7	23·9	261
16·2	6	14·6	13·0	268
18·0	3	6·0	2·8	295
	1130 hrs.			
10·5	3	11·2	10·8	280
12·0	2	11·8	11·8	274
14.1	2	10·0	10·0	259
16.2	2	10·0	8·2	263
	1730 hrs.*			
12.0	29	21.9	20.7	261
14.1	23	23.5	21.2	262
	14	25.7	25.4	260
16.2	3	24.6	24.3	266
18.0	1	3·6	3.6	095
	GAYA			
	1730 hrs.			
10.5	2	24.2	22.4	260
	GOPALPUR			
	1730 hrs.			
10.5	1	2.6	2.6	145
12.0	1	7.2	7.2	145
	GORAKHPUR			
	1730 hrs.			
10·5	2	19.8	19.7	255
12.0	1	11.8	11.8	270
14.1	1	12.4	12.4	275
16.2	1	9.8	9.8	255
18.0	1	5.1	5.1	320
21.0	1	19.6	19.6	285
	GWALIOR			
	0530 hrs.			
10.5	7	19.9	19.5	262
12.0	2	14·9	14·9	262
14.1	1	22.7	22.7	285
	1730 hrs.			
10.5	9	26.8	25.7	253
	IMPHAL			
	1730 hrs.			
10.5	2	17.8	17.5	257
12.0	2	16.0	15.9	248
	JABALPUR			
	1730 hrs.			
10.5	3	19.7	19.3	250
12.0	1	12.9	12.9	240
14.1	1	14.4	14.4	215
	JAGDALPUR			
	1730 hrs.			
10.5	1	8.2	8.2	170

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Ht. in Km.	n	V	v	D
	JAIPUR			
	1730 hrs.			
10·5	3	14·1	13·9	266
12·0	3	14·9	14·6	267
14·1	2	10·8	9·4	273
16·2	2	10·8	10·8	264
18·0	1	8.7	8·7	260
21·0	1	8·2	8·2	195
	JAMSHEDPUR			
	0530 hrs.			
10.5	1	9·8	9·8	235
12·0	1	6·7	6·7	215
14·1	1	7·7	7·7	210
	1730 hrs.			
10·5	4	11·8	11·6	232
12·0	1	13·9	13·9	250
	JODHPUR			
	0530 hrs.*			
10.5	11	23.3	22.0	259
12.0	4	29.4	29.0	253
14.1	1	25.7	25.7	260
	1730 hrs.*			
10.5	11	19.3	19.2	261
12.0	7	18.8	17.9	252
14.1	1	11.8	11.8	255
	MADRAS			
	0530 hrs.*			
10·5	21	8·3	6·7	108
12·0	16	12·1	10·5	108
14·1	13	15·1	13·5	117
16·2	6	22·1	21·1	104
18·0	2	22·4	21·5	105
21·0	1	34·4	34·4	124
	1130 hrs.			
10·5	21	9·1	7·7	110
12·0	17	13·5	11·8	103
14·1	10	18·3	15·2	112
16·2	5	19·6	17·9	103
18·0	..	..	..	..
21·0	1	35·6	35·6	100
	1730 hrs.*			
10·5	23	9·0	7·4	107
12·0	19	13·4	12·4	100
14·1	13	15·7	14·5	103
16·2	7	18·3	17·9	106
18·0	1	20·6	20·6	104

Ht. in Km.	n	V	v	D
	MADRAS			
	2330 hrs.			
10·5	18	8·8	5·6	114
12·0	11	12·8	9·2	130
14·1	10	16·6	14·5	133
16·2	4	21·9	21·7	110
18·0	2	20·6	20·1	112
21·0	1	14·4	14·4	085
24·0	1	35·0	35·0	100
	MINICOY			
	0530 hrs.			
10·5	3	10.3	10·2	089
12·0	2	16·0	16·0	093
	1730 hrs.			
10·5	6	8·0	7·6	078
12·0	1	7·7	7·7	090
	MOHANBARI			
	1730 hrs.			
10·5	3	21·5	19.7	278
	NAGPUR			
	0530 hrs.*			
10.5	19	10·1	6·2	246
12.0	19	12·1	6·5	232
14.1	15	12·3	5·3	197
16.2	10	9·4	6·8	132
18.0	7	10·0	4·0	108
21.0	2	16.2	4·8	300
	1130 hrs.			
10.5	7	12.7	9.7	228
12.0	6	11.2	6.7	208
14.1	6	9.9	4.1	187
16.2	5	8.1	6.6	098
18.0	1	9.3	9.3	090
	1730 hrs.*			
10.5	24	11.2	7.5	243
12.0	23	12.7	8.1	228
14.1	20	12.5	7.1	205
16.2	16	9.9	4.1	145
18.0	5	13.5	5.7	215
21.0	2	20.3	14.5	255
	NANPARA			
	0530 hrs.			
10.5	1	13·9	13·9	240
12.0	1	16.0	16.0	246

Ht. in Km.	n	V	v	D
	NANPARA			
	1730 hrs.			
10·5	14	35·2	34·0	255
12.0	8	35.6	35.0	252
14.1	1	28.8	28.8	265
	NEW DELHI			
	0530 hrs.*			
10.5	30	27.0	26.5	265
12.0	30	29.8	29.1	261
14.1	21	27.2	27.0	256
16.2	5	15.6	15.4	275
18.0	3	5.5	0.1	165
21·0	1	6·7	6·7	120
	NEW DELHI			
	1130 hrs.			
10·5	23	25·8	25.3	260
12.0	22	28·3	27·3	258
14·1	16	28.7	28.2	255
16.2	14	18.1	17.2	266
18.0	6	9.9	8.6	249
21.0	2	5.7	1.8	008
	1730 hrs.*			
10.5	29	23·7	22·9	260
12.0	25	29·2	28·6	261
14.1	18	27·8	27·3	254
16.2	9	14·6	11·3	228
18.0	6	5·4	2·5	259
21.0	2	4·4	4·1	097
	2330 hrs.			
10.5	27	24·0	23·5	256
12.0	24	27.2	26.8	257
14.1	10	31.8	27.0	250
16.2	2	10.6	10.0	243
18.0	2	7.5	7.5	213
21.0	1	8.2	8.2	090
24.0	1	7.2	7.2	100
	POONA			
	1730 hrs.			
10.5	3	5·0	2·6	244
12.0	3	6·5	4·5	188
14·1	3	10·1	7·2	158
16·2	3	10·7	7·3	133
18·0	1	3·6	3·6	140

Ht, in Km.	n	V	v	D
	PORT BLAIR			
	0530 hrs.*			
10·5	21	12·9	10·9	091
12·0	14	14·1	11·0	097
14·1	12	17·0	14·7	097
16·2	3	22·7	22·4	104
18.0	1	26·8	26·8	101
21.0	1	21·6	21·6	120
	1730 hrs.*			
10·5	17	10·4	9·9	090
12.0	13	14·7	12·1	098
14.1	7	16·6	13·9	096
16.2	4	18·7	17·2	098
	RAIPUR			
	0530 hrs.			
10·5	1	11·3	11·3	290
12·0	1	12·4	12·4	295
14·1	1	9·8	9·8	280
	SANTA CRUZ			
	0530 hrs.*			
10·5	25	9·8	4·2	257
12·0	17	10·8	6·9	229
14.1	5	8·9	6.2	178
16·2	1	10·8	10·8	125
	1130 hrs.			
10·5	24	9·2	3·1	254
12·0	17	9·1	2·3	176
14·1	7	9·6	3·1	222
	1730 hrs.*			
10.5	21	6.5	0.5	166
12.0	14	8.0	4.4	197
14 1	7	8·7	7·3	156
16·2	2	13.8	13·8	172
	2330 hrs.			
10·5	21	10·9	5·1	246
12·0	7	15·3	1·2	241
14·1	3	12·0	10·7	183
	TIRUCHIRAPALLI			
	1730 hrs.			
10,5	2	10·8	10·1	096
	TRIVANDRUM			
	0530*			
10.5	21	11.1	10.1	102

Ht. in Km.	n	V	v	D
	TRIVANDRUM			
	0530 hrs.*			
12·0	15	16·8	10·7	088
14·1	8	16·3	14·4	094
16·2	2	18·3	18·2	095
18·0	1	7·7	7·7	261
	1130 hrs.			
10·5	6	11·0	10·8	097
12·0	6	13·3	12·4	106
14·1	5	23·5	23·2	104
16·2	3	22·7	21·9	091
18·0	1	7·7	7·7	350
	1730 hrs.*			
10·5	20	11·0	9·8	098
12·0	14	15·4	13·6	102
14·1	7	21·8	20·4	103
16·2	2	22·4	22·4	103
18·0	2	18·5	17·0	100
21·0	1	13·9	13·9	104
	UDAIPUR			
	1730 hrs.			
10·5	3	5·7	5·1	021
12·0	2	3·3	2.3	311
14·1	2	4·1	2·1	335
16·2	1	7·7	7·7	045
18·0	1	8·7	8·7	135
	VERAVAL			
	0530 hrs.*			
10·5	6	14·5	6·2	254
12·0	6	14·2	10·7	262
14·1	3	9·9	2·2	297
	1130 hrs.			
10·5	9	11·2	10·6	246
12·0	3	5·7	3·6	234
14·1	1	3·1	3·1	110
	1730 hrs.*			
10·5	14	16·9	14·2	260
12·0	13	20·1	17·0	249
14·1	9	14·8	10·7	242
16·2	4	6·5	4·8	286
18·0	1	2·6	2·6	245
21·0	1	2·6	2·6	270

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Ht. in Km.	n	V	v	D
	VISAKHAPATNAM			
	0530 hrs.*			
10·5	18	9·0	4·6	131
12·0	17	11·4	7·3	117
14·1	12	14·1	10·3	099
16·2	9	13·9	11·9	106
18·0	5	11·3	11·0	094
	1130 hrs.			
10·5	4	7·6	5·3	145
12·0	3	12·7	10·3	152
14·1	3	11·0	8·7	146
16·2	1	13·9	13·9	090
18·0	1	29·3	29·3	100
21·0	1	22·7	22·7	120
	1730 hrs.*			
10·5	17	8·1	4·5	116
12·0	14	11·1	7·9	110
14·1	12	13.1	11·2	107
16·2	9	14·7	11·1	105
18·0	1	6 7	6·7	135

RADIOSONDE DATA

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type	1st October, 1944	00 and 12	
2	Bombay	Clock type	7th September, 1954	00 and 12	
3	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
4	Gauhati	Clock type	22nd July, 1955	00 and 12	
5	Gwalior	Clock type	28th June, 1960	00 and 12	
6	Jodhpur	Clock type	17th April, 1946	00 and 12	
7	Madras	Fan type	29th June, 1946	00 and 12	
8	Nagpur	Fan type	1st October, 1946	00 and 12	
9	New Delhi	Clock type	3rd December, 1943	00 and 12	
10	Port Blair	Fan type	4th December, 1949	00 and 12	
11	Trivandrum	Fan type	1st July, 1947	00 and 12	
12	Veraval	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G.M.T.

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (998 mb.)						BOMBAY (1008 mb.)						CALCUTTA (1009 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	98	294.3	301	288	292.3	31	13	296.8	300	293	293.9	29	6	298.0	304	293	296.2
1000	31	81	..	..	..	..	31	82	..	..	..	..	29	84	..	..	..	..
900	31	1003	295.0	299	289	283.5	31	1007	295.5	298	291	284.9	29	1003	293.6	298	290	287.6
850	31	1496	291.3	295	287	279.7	31	1503	292.0	295	288	281.5	29	1494	290.2	295	286	283.5
800	31	2013	287.4	291	283	276.0	31	2021	288.2	292	285	279.0	29	2010	286.7	292	283	280.0
700	31	3129	281.6	286	277	263.3	31	3138	280.7	284	278	272.4	29	3126	281.8	286	276	270.2
600	31	4390	275.8	281	271	253.4	31	4397	275.5	280	272	258·8	28	4392	275.9	280	272	261.6
500	31	5842	267.7	278	262	..	31	5853	268.1	271	263	..	28	5848	268.0	273	262	..
400	31	7559	257.5	263	251	..	31	7576	258.0	263	253	..	28	7571	258.9	265	250	..
300	31	9674	243.9	251	238	..	27	9695	243.7	248	240	..	25	9700	245.3	250	237	..
250	28	10958	235.0	241	228	..	25	10974	234.7	239	231	..	24	10989	235.9	241	227	..
200	26	12458	224.3	230	216	..	22	12474	224.2	229	221	..	23	12487	224.0	232	216	..
175	24	13326	218.4	226	210	..	19	13342	218.1	223	215	..	18	13384	217.8	227	209	..
150	21	14295	211.9	222	203	..	19	14314	211.2	215	206	..	18	14328	210.6	217	201	..
125	19	15415	206.3	217	200	..	16	15416	203.1	207	195	..	14	15439	203.9	207	197	..
100	14	16687	202·0	211	195	..	15	16735	198.9	203	193	..	11	16743	197.8	203	193	..
80	9	18229	202·4	210	186	..	9	18065	200·3	205	197		7	18127	201·7	206	192	..

Standard Pressure Surface mbs.	GAUHATI (1005 mb.)						GWALIOR (986 mb.)						JODHPUR (985 mb.)					
Surface	31	49	297·1	301	293	295.8	30	203	293.3	301	287	289.5	30	218	295.7	301	291	281.5
1000	31	95	..	..	..	..	30	74	..	..	..	..	30	83	..	..	..	..
900	31	1013	293.8	297	290	289·6	30	994	294.3	301	289	281.1	30	1007	297.8	302	293	280.3
850	31	1505	290.5	294	280	286.2	30	1487	291.0	297	286	277.6	30	1506	294.2	299	291	277.8
800	31	2022	287.2	291	281	282.5	30	2004	287.4	292	282	275.2	30	2027	289.5	295	286	274.6
700	31	3136	280.6	286	277	274.6	30	3117	279.9	293	272	267.3	30	3146	280.2	285	276	268.4
600	30	4393	274.2	279	270	263.2	30	4370	273·1	278	263	256.8	28	4400	273.7	281	266	249.3
500	30	5839	267.2	274	263	264.0	29	5811	265.4	272	253	..	28	5849	267.2	273	258	..
400	30	7554	257.2	262	252	..	29	7516	255.6	264	241	..	28	7564	256.5	261	248	..
300	28	9665	243.6	251	238	..	20	9601	241.5	250	232	..	22	9661	242.8	251	233	..
250	26	10949	234.8	240	228	..	17	10887	233.1	240	228	..	18	10929	235.2	245	229	..
200	26	12452	224·7	230	217	..	15	12380	222.9	229	216	..	14	12408	224.1	228	218	..
175	22	13333	218.6	225	212	..	14	13241	217.0	222	211	..	11	13249	218.3	225	210	..
150	19	14296	211.5	216	205	..	12	14218	210.7	215	205	..	7	14238	212.3	221	205	..
125	13	15404	205.0	208	198	..	9	15413	204.2	209	198	..	5	15374	209.6	219	202	..
100	12	16741	200.6	204	193	..	..	..	..	..	..	..	5	16694	206.0	213	202	..
80	7	18180	202·4	205	198	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1007 mb.)						NAGPUR (974 mb.)						NEW DELHI (986 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	15	298·7	301	297	296·7	31	311	293·0	298	286	290·9	31	210	292·1	299	286	289·0
1000	30	75					31	84					31	88				
900	30	996	293·8	297	291	288·0	31	1002	294·6	300	290	285·3	31	1003	295·3	300	289	279·3
850	30	1488	291·0	295	288	284·8	31	1496	291·2	296	287	281·8	31	1497	291·7	297	288	276·1
800	30	2005	287·1	290	285	281·9	31	2013	287·4	291	283	278·5	31	2014	287·5	293	284	273·2
700	30	3118	279·6	284	277	273·9	31	3130	281·2	285	277	269·8	31	3125	279·0	283	275	263.4
600	30	4374	274·5	278	271	264·0	31	4389	275·6	282	269	258·2	31	4370	271·5	277	265	256·3
500	30	5821	266·1	270	260		31	5843	267·3	272	260	..	31	5802	263·5	270	255	..
400	30	7526	254·9	258	251		30	7556	255·7	261	251	..	30	7489	252·9	262	245	..
300	26	9609	238·5	245	232		22	9640	239·5	244	233	..	30	9569	239·4	248	230	..
250	22	10860	228·3	236	222		20	10903	230·1	236	223	..	30	10826	231·1	238	223	..
200	16	12318	216·8	229	206		20	12373	218·7	226	208	..	30	12307	221·6	228	214	..
175	15	13144	210·9	223	203		17	13180	210·4	217	200	..	28	13140	215·3	221	208	..
150	14	14111	204·9	217	196		17	14143	204·0	213	193	..	28	14107	209·1	216	204	..
125	12	15205	202·2	210	195		14	15193	198·9	208	189	..	19	15199	202·1	208	197	..
100	7	16491	200·3	212	195		12	16503	197·3	208	189	..	13	16544	198·9	203	192	..
80							8	17766	199·0	204	193	..	5	17910	203·6	210	199	..

Standard Pressure Surface mbs.	PORT BLAIR (1001 mb.)						TRIVANDRUM (1002 mb.)						VERAVAL (1009 mb.)					
Surface	31	79	297·2	299	296	296·6	31	64	297·0	299	295	295·6	26	8	295·5	299	292	293·0
1000	31	85					31	84	..	..	..	..	26	83				..
900	31	1004	292·7	296	289	292·7	31	1002	292·3	295	290	287·6	26	1010	296·5	301	291	278·6
850	31	1495	289·8	294	283	285·8	31	1494	289·9	293	286	283·6	26	1506	292·8	297	288	274·3
800	31	2013	287·2	292	283	282·4	31	2009	286·9	291	283	280·8	26	2025	288·8	293	285	272·3
700	31	3130	282·1	287	276	274·1	31	3125	280·6	286	275	274·2	25	3145	281·2	285	275	264·3
600	31	4391	274·8	281	269	266.7	31	4379	273·6	280	269	265·3	24	4406	274·4	279	269	252·3
500	31	5839	266·0	273	253	..	31	5822	265·6	272	261	..	22	5847	265·7	270	261	..
400	31	7545	255·0	263	250	..	31	7522	254·5	260	246	..	21	7553	255·7	263	248	..
300	31	9632	239·5	251	232	..	30	9607	239·3	245	231	..	10	9631	241·0	247	235	..
250	29	10877	228·8	238	219	..	30	10857	228·4	236	219	..	6	10914	236·2	239	231	..
200	28	12341	216·0	238	201	..	30	12314	216·7	225	203	..	6	12419	225·5	229	217	..
175	24	13187	210·5	225	199	..	29	13137	210·7	219	201	..		..	..	..	..	..
150	22	14138	204·4	216	194	..	29	14090	204·0	215	193	..		..	..	..	..	..
125	15	15281	201·7	211	193	..	26	15172	200.3	207	191	..		..	..	..	..	..
100	8	16588	197·0	201	191	..	21	16532	199·0	207	191	..		..	..	..	..	..
80	8	17851	198·5	201	196	..	20	17819	201·4	216	195	..		..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1003 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	48	298·6	301	297	295·0
1000	30	77	..	..	..	..
900	30	1001	294·3	298	291	288·9
850	30	1495	291·2	295	289	286.3
800	30	2014	287·9	291	285	282·5
700	30	3136	282·4	286	279	276·3
600	30	4401	275·6	281	271	269·1
500	30	5856	267·5	274	263	..
400	30	7574	256·8	266	251	..
300	22	9692	242·1	252	235	..
250	19	10959	232·1	246	223	..
200	19	12443	221·2	236	207	..
175	17	13286	215·3	233	202	..
150	16	14254	208·8	226	195	..
125	14	15308	201·4	220	189	..
100	14	16636	200·9	216	190	..
80	9	18004	203·3	212	191	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G.M.T.

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (997 mb.)						BOMBAY (1007 mb.)						CALCUTTA (1007 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	98	302.7	307	299	292.9	31	13	303.4	307	297	295.2	31	6	301.7	304	297	296.3
1000	30	70	..	..	..	..	31	72	..	..	..	..	31	66	..	..	..	..
900	30	1001	296.7	301	292	284.1	31	1005	297.2	303	290	286.5	31	993	295.2	298	291	288.6
850	30	1497	292.6	297	287	280.7	31	1503	293.5	300	288	283.0	31	1487	291.5	295	287	285.2
800	30	2016	288.4	294	282	277.4	31	2037	289.7	297	285	279.5	31	2004	288.3	292	284	281.5
700	30	3135	282.2	287	277	264.2	31	3149	283.0	291	279	268.6	31	3126	283·2	286	278	269.9
600	30	4398	276.1	280	270	257.5	31	4416	276.7	283	271	259.2	31	4394	276.8	279	273	261.3
500	30	5853	267.9	272	260	..	31	5883	269.2	274	263	..	31	5856	268.6	272	265	..
400	30	7574	257.8	263	249	..	31	7618	259.4	265	255	..	31	7584	258.9	263	255	..
300	28	9694	244.1	250	237	..	26	9754	246.0	252	241	..	24	9711	244.6	249	239	..
250	28	10976	235·4	242	231	..	25	11053	237.2	244	231	..	22	10994	235.3	239	229	..
200	28	12480	224.9	232	219	..	25	12563	226.6	230	220	..	21	12495	224·5	229	216	..
175	27	13347	218.3	229	213	..	20	13438	220.9	227	213	..	19	13355	217·8	223	209	..
150	21	14304	212.0	225	207	..	19	14416	215·3	223	208	..	16	14352	211.7	216	206	..
125	17	15419	206.2	220	199	..	13	15497	208·3	214	201	..	11	15502	204·8	210	200	..
100	16	16742	201.7	215	196	..	11	16840	202·3	208	195	..	6	16766	196.8	202	192	..
80	10	18027	203·8	216	199	..	7	18257	205·6	208	203	..	5	18071	197.6	203	191	..

Standard Pressure Surface mbs.	GAUHATI (1003 mb.)						GWALIOR (985 mb.)						JODHPUR (983 mb.)					
Surface	31	49	300.6	303	295	297·5	30	203	302.4	306	298	290·4	31	218	306.9	311	303	281.9
1000	31	71	..	..	..	..	30	66	..	..	..	..	31	63	..	..	..	..
900	31	997	295.1	301	289	290·8	30	1000	298.0	303	293	282.4	31	1009	301.2	306	296	279.0
850	31	1491	291.7	298	286	286·9	30	1499	294.2	298	289	279.1	31	1512	296.8	303	293	276.0
800	31	2009	288.3	295	283	283.3	30	2020	290.0	293	284	275.3	31	2037	292.0	299	289	274.2
700	31	3127	281.5	288	277	274.2	30	3145	282·5	287	274	262.6	31	3163	281.8	287	279	269.3
600	31	4385	274.5	279	269	264.2	30	4411	276.0	282	267	254.3	30	4422	275·4	283	269	252.0
500	31	5833	266.9	273	261	..	30	5871	268.4	275	260	..	30	5875	267·9	276	261	..
400	31	7550	257.5	263	251	..	30	7593	258.2	268	248	..	30	7595	257.3	265	249	..
300	31	9664	243.7	247	239	..	27	9716	244.6	255	234	..	21	9718	244.0	250	236	..
250	29	10948	234.7	239	229	..	27	10998	236.7	247	227	..	18	11000	236.9	243	231	..
200	26	12455	224.1	230	216	..	23	12516	227.1	237	218	..	13	12512	226.1	232	221	..
175	22	13302	217.2	225	209	..	21	13394	221.5	233	213	..	11	13364	220.8	225	216	..
150	19	14262	210.4	219	201	..	21	14385	214·8	226	204	..	10	14375	215.0	218	209	..
125	16	15359	202.3	213	193	..	16	15539	208·8	221	201	..	7	15519	209.0	213	202	..
100	11	16628	196.3	207	189	..	13	16951	203·6	216	194	..	6	16866	206·2	212	201	..
80	..	..	..	..	..	..	9	18268	203·0	209	195	..	..	..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G. M. T.

October 1960 (Asvina 9—Kartika 9, 1882 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1006 mb.)						NAGPUR (972 mb.)						NEW DELHI (985 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	15	302.7	305	299	296.7	31	311	302.7	306	300	290.4	31	210	301.0	307	292	289.8
1000	31	66	..	..	..	..	31	61	..	..	..	..	31	75	..	..	..	..
900	31	994	295.1	301	291	289.8	31	995	297.0	300	292	284.7	31	1005	297.0	303	289	280.8
850	31	1498	291.4	297	289	286.1	31	1492	292.2	296	287	283.1	31	1502	293.1	300	288	275.5
800	31	2005	288.1	291	285	282.4	31	2011	288.0	292	284	280.0	31	2021	288.9	295	285	272.0
700	31	3123	281.4	285	277	275.1	31	3131	281.3	286	276	268.1	31	3139	280.6	285	276	261.1
600	31	4382	274.9	279	268	266.5	31	4393	275.5	280	269	261.1	31	4393	273.2	279	266	253.5
500	30	5831	266.9	271	262	..	29	5846	267.1	270	262	..	31	5833	265.0	271	257	..
400	30	7539	255.1	259	249	..	29	7558	256.3	260	249	..	31	7533	254.5	263	247	..
300	24	9623	239.3	247	232	..	23	9665	241.4	251	236	..	30	9623	240.8	253	231	..
250	24	10878	229.6	239	222	..	22	10931	231.9	239	225	..	28	10883	232.1	238	224	..
200	18	12329	217.6	230	206	..	20	12391	218.5	226	210	..	27	12378	222.4	229	218	..
175	15	13174	212.1	225	201	..	20	13230	211.7	220	204	..	26	13226	216.5	225	211	..
150	15	14131	205.3	219	195	..	18	14193	205.3	214	198	..	22	14186	210.4	218	204	..
125	10	15228	201.3	215	191	..	17	15290	200.7	208	195	..	15	15321	203.9	211	196	..
100	7	16591	201.4	210	193	..	12	16598	198.7	204	194	..	12	16649	199.4	208	195	..
80							5	17831	201.0	205	192	..	6	17983	200.3	205	196	..

	PORT BLAIR (1000 mb.)						TRIVANDRUM (1001 mb.)						VERAVAL (1008 mb.)					
Surface	31	79	299.5	302	296	296.8	31	64	300.2	303	297	296.0	27	8	301.4	303	299	297.6
1000	31	77	..	..	..	..	31	73	..	..	..	..	27	76	..	..	..	..
900	31	999	293.9	298	291	289.5	31	998	293.7	296	291	289.4	27	1007	297.6	303	291	283.5
850	31	1492	291.1	295	288	286.1	31	1491	291.0	294	289	285.7	27	1505	293.4	300	287	280.1
800	31	2009	288.6	291	285	283.7	31	2010	288.2	293	286	282.9	27	2025	289.3	297	282	276.8
700	31	3132	282.5	286	279	275.4	31	3131	282.0	286	278	275.1	26	3149	282.1	292	277	271.0
600	31	4397	275.8	281	271	265.0	31	4395	275.5	280	267	266.5	25	4416	275.7	280	273	260.3
500	31	5851	267.6	273	265	..	31	5850	267.5	271	263	..	21	5873	267.8	275	261	..
400	31	7567	256.6	262	252	..	31	7566	256.3	260	247	..	20	7596	257.9	267	251	..
300	29	9671	240.7	247	235	..	30	9667	240.4	247	235	..	13	9707	243.6	252	237	..
250	29	10931	230.0	240	219	..	27	10931	230.7	237	224	..	11	10978	235.5	245	227	..
200	25	12391	216.3	227	204	..	26	12406	218.9	229	212	..	10	12486	223.7	239	212	..
175	23	13226	210.1	223	199	..	26	13235	212.2	221	204	..	9	13359	218.4	237	207	..
150	19	14142	203.2	219	192	..	26	14194	205.2	214	197	..	8	14336	212.1	233	200	..
125	13	15269	199.4	215	190	..	26	15261	199.8	209	190	..	..	..	..	..	..	..
100	8	16495	197.7	210	191	..	22	16579	198.1	203	192	..	..	..	..	..	..	..
80							17	17894	199.5	209	192	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G.M.T.

October 1960 (Asvina 9 —Kartika 9, 1882 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1002 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	48	301.6	303	299	296.0
1000	30	62	..	..	..	..
900	30	992	294.6	298	292	289.8
850	30	1486	291.2	295	287	286.7
800	30	2004	287.8	293	284	283.5
700	30	3124	281.8	287	278	277.6
600	30	4387	275.0	279	271	272.0
500	30	5839	266.9	270	263	..
400	30	7553	256.1	260	252	..
300	21	9658	241.0	249	235	..
250	17	10920	231.2	241	221	..
200	15	12392	218.9	231	211	..
175	14	13209	212.2	227	204	..
150	14	14168	206.1	223	197	..
125	14	15248	200.3	218	189	..
100	12	16540	197.9	212	189	..
80	..	..	..	..	..	..

NOTE.—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

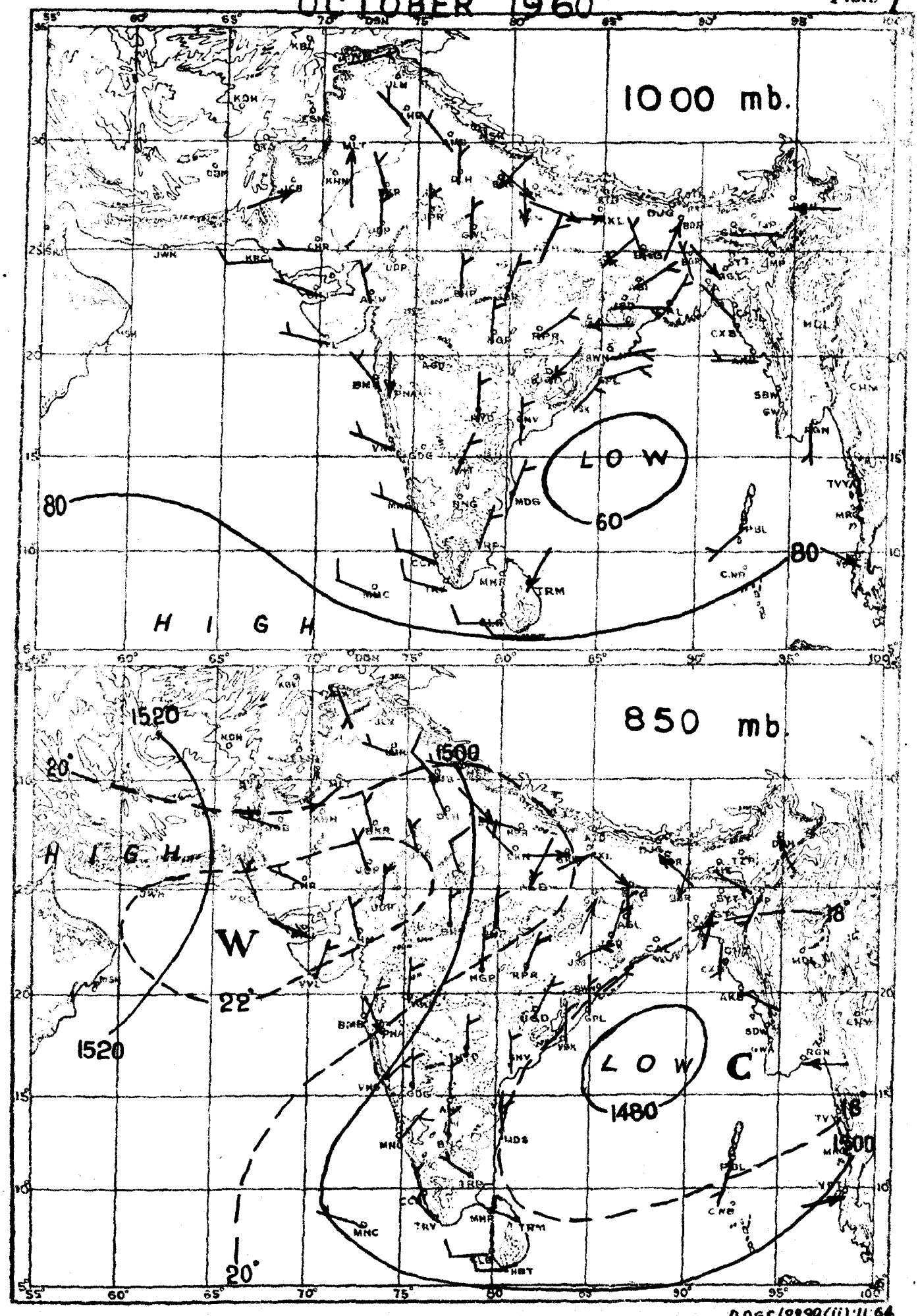
Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S5—4 D. D. G. Obs. (Poona)/65—28-6-65—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. Plate I

OCTOBER 1960



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

---------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

DDGC/2290(ii):11.64

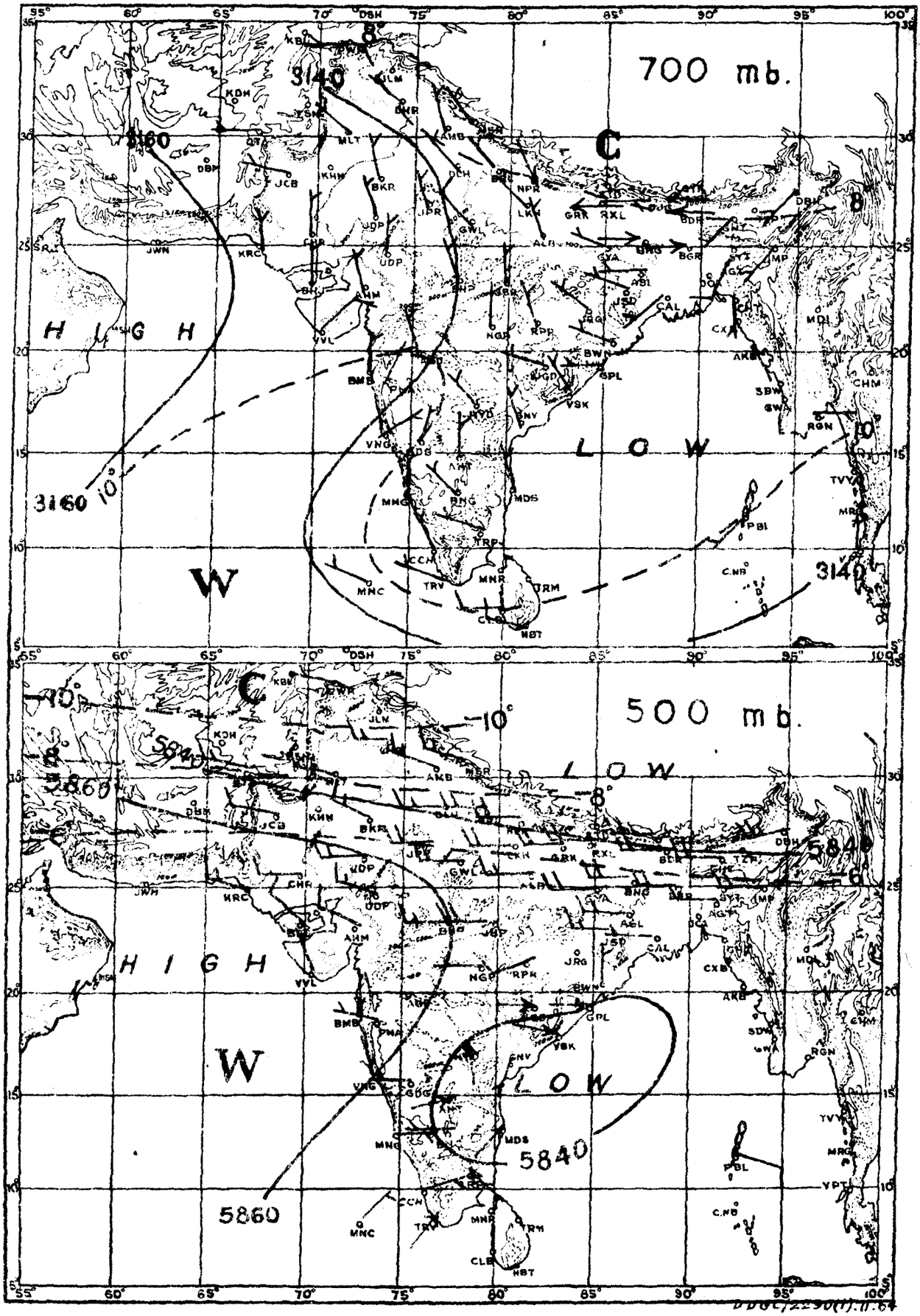
S.P.E.D. DGAA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I. Met. D.

OCTOBER 1960

Plate **II**



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

---------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

G.P.Z.P. POONA, 1965

Registered No. B-3097

INDIA WEATHER REVIEW, 1960

Monthly Weather Report

November

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Chief feature :

Active northeast monsoon over coastal Madras State.

The seasonal low extending from the south Bay of Bengal to the southeast Arabian Sea was well marked and a series of depressions developed in this month. A low pressure area formed over the southwest Bay of Bengal on 2nd November, moved across the south Peninsula and concentrated into a depression over southeast Arabian Sea on the morning of 6th, with centre near Lat. 9°N and Long. 71°E. It moved in a northwesterly direction, weakened into a low pressure area over the central Arabian Sea by 11th and became unimportant the next day. Another depression developed over the southwest Bay of Bengal with centre near Lat. 10°N and Long. 81½°E on 10th morning. It moved slightly westwards, weakened into a low pressure area over the south Coromandal coast and neighbourhood on 11th and became unimportant by 12th. A third depression developed over the south Bay of Bengal on 18th with its centre near Lat. 10½°N and Long. 85°E. Moving first northwestwards and then westwards, it crossed coast close to Madras on 20th afternoon and later weaken into a low pressure area which moved away slowly westwards across the southeast Arabian Sea by 25th.

In association with the well marked seasonal low and these three depressions, the northeast monsoon was active along coastal Madras State throughout the first three weeks of November and over the south coastal Andhra Pradesh on a few days during this period. Heavy to very heavy rain was reported from one station or another almost every day. Some of the noteworthy amounts of rainfall were : Nagapattinam 16 cm on 1st November, 24 cm on 9th and 19 cm on 15th; Madras 18 cm and Nellore 20 cm on 11th; Cuddalore 24 cm on 14th and 16 cm on 16th and Vedaranyam 16 cm on 15th. Special mention may also be made of winds of gale force which blew over Madras City for about two hours on the afternoon of 20th. Persistent heavy rains along the coastal Madras State were responsible for disruption of rail and road traffic at several places in the Madras State and for floods in the rivers Cooum, Adyar and Vaigai. According to press reports, the flood level of river Vaigai was the highest recorded during the last four decades. In Madras City proper heavy damage was caused to buildings and huts and numerous trees were uprooted by the strong winds on 20th November. Over 20,000 persons were rendered homeless and there were also a few deaths.

A depression formed in the Arabian Sea on 17th with centre near Lat. 11½°N and Long. 66½°E. Moving in a westerly direction, it intensified into a cyclonic storm by the 19th evening when it was centred near Lat. 13°N and Long. 62°E. Continuing to move westwards, the depression weakened and became unimportant by 23rd November as it was nearing the Arabian coast.

Another depression developed over the south Bay Bengal centred near Lat. 9½°N Long. 87½°E on 26th November. Moving slowly northwards, it was centred near Lat. 12½°N and Long. 87½°E on the last day of the month. Under its influence, fairly widespread rain occurred in the Bay Islands from 20th to 30th November. Kondul reported 14 cm on 28th.

Two feeble western disturbances moved across tne northern parts of the country during the last ten days of the month. The first caused very light rain in Jammu and Kashmir on 22nd and 23rd and the second caused light rain or snow in Jammu and Kashmir, Himachal Pradesh and the Punjab-Kumaon hills on 28th and 29th November.

Night temperatures were generally below normal in the central parts of the country during the first half of the month, in the belt extending from Orissa to the Panjab (I) during the third week and practically over the whole country during the last week, being appreciably below normal in Rajasthan towards the close of the month. The temperatures were above normal in Andhra Pradesh and south Maharashtra State from 6th to 11th.

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1—5 D.D.G. Obs. Poona/65

The rainfall during the month was in large excess in Rayalaseema, the Madras State, Kerala and the Arabian Sea Islands, in moderate excess in south Interior Mysore, in slight excess in coastal Andhra Pradesh and Telangana normal over Assam. It was in slight defect in north Interior Mysore, in moderate defect in the Deccan (including Marathwada) and coastal Mysore, and in large defect in the Bay Islands, Gangetic West Bengal, Bihar State, east Uttar Pradesh, Jammu and Kashmir, east Madhya Pradesh, the Konkan and Vidarbha. There was no rain over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in the Bay Islands and east Gujarat State, below normal in Jammu and Kashmir, Rayalaseema, the Madras State, south Interior Mysore and Kerala and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in the Bay Islands, below normal in Bihar Plateau and east Rajasthan and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in Rayalaseema, south Interior Mysore and the Arabian Sea Islands, below normal in Bihar Plains, Jammu and Kashmir, Rajasthan, west Madhya Pradesh, and Gujarat State and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in the Bay Islands Jammu and Kashmir, the Konkan, Deccan (including Marathwada), Telangana, Rayalaseema, the Madras and Mysore States and Kerala, below normal in Bihar State, Uttar Pradesh, the Punjab (I) and Rajasthan and normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column. Similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the part 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

Poona-5,
The 31st March, 1961.

R. ANANTHAKRISHNAN,
for DIRECTOR GENERAL OF OBSERVATORIES.

Errata to M.W.R. for November 1960 (Kartika 10 - Agrahayana 9 1882 Saka)

Page No.	Station	Hour	Column	For	Read
Text portion					
568	Firs para, third line	-	-	Telangana normal etc.	Telangana and normal etc.
Table I					
569	3. Orissa to 7 Jammu and Kashmir	-	7	(Figures printed slightly up)	
569	9. Madhya Pradesh		5	+0.9	-0.9
569	9. Madhya Pradesh		9	(printed slightly up)	1.8
569	13 Rajasthan (East)		2 to 9	Data of Rajasthan (West) should be read against Rajasthan (East)	
569	14. Rajasthan (West)		2 to 9	Data of Rajasthan (East) should be read against Rajasthan (West)	
Table II					
570	Dibrugarh		4	30.3	30.0
570	Tezpur		7	+.4	+0.4
571	Chandbali		8	12.3	13.3
571	Jamshedpur		5	14,15	1 ,16
571	Dumka		9	28	23
571	(Foot note)		-	(b) Mean of 19 days.	(1) Mean of 19 days.
572	Srinagar		10	0	3.0
572	Gulmarg		1	(R)	Closed during winter months.
573	Sheopur Kalan		9	32	30
573	Hoshangabad		7	+1.4	-1.4
573	Jagdalpur		14	..	4,7
573	Bhuj (Aerodrome)		16	2.0	-0.2
574	Harnai		13	1.8	1.9
575	Kakinada		12	+134.9	-134.9
575	Hyderabad (Begumpet Aerodrome)		23	(Blank)	0
575	Hanamkonda		22	(Blank)	0
575	Balehonnur		28	(Blank)	0
576	Mysore		12	+45.4	+5.4
576	Lokpal		10	..	30
576	Mussoree		8	2.1	-2.1
576	Mahabaleshwar		22	1	0
576	Hambantotta		4	29.7	32.0
576	Hambantota		5	10	9,11
577	Gangtok		22	(Blank)	0
577	(Foot note)		-	Data not available	± Data not available
Table III					
578	Nancowry	1730	13	7.2	6.2
578	Sibsagar	0830	12	..	-9
579	Dhubri (Rupsi Aerodrome)	0530	7	15.3	15.8
579	Agartala	0230	8	16.3	16.8
579	Haflong	0830	15	2.1	4.2
579	Cooch Behar	1130	28	0	9
580	Barrackpore (Aerodrome)	1730	4	1012.9	1012.8
580	Saugar Island	0830	4	1014.4	1014.9
580	Suri	1730	13	1.3	1.8

Contd.2

Page No.	Station	Hour	Column	For	Read
581	Bolangir	1730	28	(Blank)	0
581	Keonjhar	1730	7	23.4	23.0
581	(Foot note)	-	-	(b)Mean of 19 days.	(1)Mean of 19 days.
582	Gaya	2330	4	Not clear	1015.2
582	Jamui	0830	8	16.9	16.2
582	Jamui	1730	4	Not clear	1011.7
582	Bhagalpur	0530	3	4	49
582	Bhagalpur	0530	4	Not clear	1014.5
582	Bhagalpur	0830	4	Not clear	1016.6
582	Sabour	0830	4	Not clear	1016.2
582	Gorakhpur	1730	10	19.9	14.9
583	Lucknow (Amausi Aerodrome)	0530	16	(Blank)	0
584	New Delhi	0830	12	+.6	+6
584	Hissar	2330	5	987.3	989.9
584	Ambala (Aerodrome)	1130	22	(Blank)	4
585	Bilaspur	0830	15	0.2	0.2(b)
585	(Foot note)	-	-	(Not given)	(b)Meanof 29 days.
589	Jamnagar	2330	27	(Blank)	3
589	Rajkot (Aerodrome)	1730	5	985.6	995.6
589	Surendranagar	0830	5	1006.9	1006.4
589	Bavnagar	0830	10	(Not clear)	11.5
589	Veraval	0530	22	1	0
589	Veraval	0830	22	(Blank)	0
589	Veraval	1430	22	(Blank)	1
589	Dahanu	0830	27	8	4
589	Dahanu	1730	27	4	0
589	Bombay (Colaba)	1130	7	24.9	29.9
589	Bombay (Colaba)	1730	15	5.2(b)	5.2
589	Nandurbar	0830	28	(Blank)	0
590	Akola (Aerodrome)	2330	9	8.2	8.4
591	Brahmapuri	0830	15	2.7	2.7(b)
591	Brahmapuri	1730	15	2.6(b)	2.6
594	Amini Divi	0830 & 1730	1	(Not given)	Amini Divi*
595	Darjeeling (Raj Bhavan)	1730	24	0	1
595	Khijrawan	1730	13	0.9	0.9(s)
596	Timure	1730	11	5	65

Contd.3

Page No.	Station	Time in I.S.T	Ht. in Km.	Entry under column	Existing entry	Correct entry
Table IV						
601	Baghdogra	2330	4.5	v	71.1	17.1
601	Bairagrh	1730	0.15 ag	D	833	038
601	Bairagarh	1730	0.9	n	36	26
601	Bairagarh	2330	3.0	D	2?8	294
604	Bikaner	2330	2.1	D	375	275
605	Gauhati	0530	6.0	V	22.5	23.0
606	Gorakhpur	1730	3.0	V	8.6	3.0
609	Minicoy	0530	4.5	n	4	14
609	Mohanbari	0530	7.2	v	20.	20.2
609	Nagpur	2330	Surface	V and v	Values 1.1 and 8.2 may be read as 2.2 and 1.6 respectively.	
610	Port Blair	1730	Surface	D	09	093
611	Raipur	1730	0.15 ag	V	2.2	3.1
611	Raipur	1730	0.6	V	3.0	3.2
611	Raipur	1730	1.5	V	8.0	4.0
611	Raipur	1730	2.1	V	1.8	4.8
611	Raxaul	0530	0.3	D	279	289
612	Trivandrum	1730	7.2	D	0.95	095
612	Trivandrum	1730	9.0	D	0.96	096
612	Vengurla	2330	0.6	D	0.48	048
613	Visakhapatnam	1730	0.9	V	4.5	5.5
TABLE VI RADIOSONDE DATA						
617	Allahabad	00 GMT	800 mb	Mean Temp	28.34	283.4
618	New Delhi	00 GMT	1000 mb	Ht.gpm	219	129
620	Gauhati	12 GMT	Surface	Dew pt. Temp	294.4	293.4
621	Nagpur	12 GMT	200 mb	Mean Temp	277.4	217.4
621	Port Blair	12 GMT	200 mb	Ht.gpm	102	1002

SG.20-9

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %		Cloud	
					0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	23·9 −2·5	91	27·7 +0·8	16·5 +0·2	82 −2	76	2·5 −0·4	1·6
2. West Bengal	0·7 −17·6	4	28·3 −0·1	16·9 −0·2	68 −5	60	1·5 −0·2	1·5
3. Orissa	0 −50·1	0	29·2 +0·2	17·4 −0·9	69 −3	54 57	2·6 +0·2	3·4
4. Bihar	0·9 −10·4	8	27·7 +0·1	13·2 −1·2	64 −6	48	0·9 −0·5	1·2
5. Uttar Pradesh	0·1 −5·5	2	28·3 +0·2	12·0 −0·3	63 −3	41	0·3 −0·4	0·6
6. Punjab (India) (Including Delhi)*	0 −2·4	0	28·1 −0·1	10·0 −0·4	61 +3	47	0·4 −0·3	0·4
7. Jammu and Kashmir	3·0 −14·2	2	10·7 −1·9	−2·9 +0·7	56 −14		2·9 +0·5	2·9
Sub-division								
1. Bay Islands	132·2 −135·0	49	30·4 +1·6	24·4 +1·3	79 +3	87	5·8 +1·2	6·0
2. Assam (Including Manipur, Tripura)	23·9 −2·5	91	27·7 +0·8	16·5 +0·2	82 −2	76	2·5 −0.4	1·6
3. Sub-Himalayan West Bengal	0 −11·8	0	26·9 −1·0	16·1 +0·1	71 −5	61	0·9 0	0·7
4. Gangetic West Bengal	1·0 −20·1	5	28·9 +0·2	17·2 −0·3	67 −5	60	1·7 −0·3	1·8
5. Orissa	0 −50·1	0	29·2 +0·2	17·4 −0·9	69 −3	54	2·6 +0·2	3·4
6. Bihar Plateau	0·7 −13·4	5	27·7 +0·3	12·9 −1·5	63 −5	54	1·2 −0·5	1·6
7. Bihar Plains	1·1 −8·1	12	27·8 −0·1	13·6 −0·9	66 −7	61	0·5 −0·5	0 8
8. Uttar Pradesh (East)	0·3 −6·1	5	28·6 +0·2	12·3 −0·3	66 −2	48	0·3 −0·5	0·6
9. Uttar Pradesh (West)	0 −4·8	0	28·0 +0·3	11·6 −0·3	60 −3	47	0·4 −0·4	0·5
10. Punjab (India) (Including Delhi)	0 −2·4	0	28·1 −0·1	10·0 −0·4	61 +3	41	0·4 −0·3	0·4
11. Himachal Pradesh.	0·8 ..	..	25·5 ..	5·5 ..	81 ..	44	0·8 ..	0·9
12. Jammu and Kashmir.	3·0 −14·2	2	10·7 −1·9	−2·9 +0·7	56 −14	47	2·9 +0·5	2·9
13. Rajasthan (East)	0 −1·1	0	31·0 +0·3	11·8 −0·4	39 −9	24	0·4 −0·5	0·6
14. Rajasthan (West)	0 −8·0	0	29·7 +0·1	11·3 −1·5	48 −6	24	0·5 −0.3	0·7
15. Madhya Pradesh (West)	0 −15·5	0	29·1 +0·2	11·7 −0·9	46 −10	31	1·1 0	1·3

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %		Cloud	
					0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
8. Rajasthan	0 −4.2	0	30·3 +0·2	11·5 −0·9	43 −7	24	0·4 −0·4	0·7 1·8
9. Madhya Pradesh	0·1 −15·3	1	28·7 +0·4	12·0 +0·9	53 −8	36	1·4 0	
10. Maharashtra	7·8 −16·5	32	32.0 +0·8	17·4 +0·2	55 −6	41	2·3 +0·4	2·4
11. Andhra Pradesh	121·1 +28·2	130	29·6 −0·1	20·2 +0·2	74 +1	62	4·3 +0·6	4·8
12. Madras State	525·6 +241·4	185	28·0 −1·7	22·2 0	87 +5	79	6·8 +2·2	6·9
13. Mysore	52·8 +1·1	102	28·5 −0·6	19·1 +0·8	76 +7	58	5·1 +1·8	5·5
14. Kerala	326·3 +164·3	201	29·1 −1·1	23·1 −0·4	87 +5	81	5·8 +1·4	6·8
Sub-division—*Contd.*								
16. Madhya Pradesh (East).	0·2 −15·0	1	28·3 +0·7	12·3 −0·9	63 −4	43	1·9 0	2·6
17. Gujarat	0 −12·1	0	33·9 +1·1	15·5 −0·3	44 −16	26	1·0 −0·2	0·8
18. Saurashtra and Kutch	0 −4·1	0	33·0 +0·8	17·2 +0·1	48 −8	38	1·2 0	1·4
19. Konkan	8·4 −33·0	20	32·5 +1·0	22·0 +0·5	65 −4	64	3·1 +0·6	3·8
20. Maharashtra (Including Marathwada)	16·4 −12·4	57	30·9 +0·7	16·3 +0·6	60 −1	38	3·2 +1·1	3·3
21. Vidarbha	0·3 −17·6	2	30·6 +0·3	14·5 −0·7	53 −5	35	2·3 +0·3	2·6
22. Coastal Andhra Pradesh	159·1 +20·7	115	29·7 +0·2	21·3 0	75 0	67	4·2 +0·2	4·9
23. Telangana	34·5 +6·0	121	29·5 +0·3	17·5 +0·6	66 −1	46	3·8 +0·7	4·3
24. Rayalaseema	115·6 +55·6	193	29·6 −1·4	20·1 +0·2	81 +7	65	5·0 +1.6	5·1
25. Madras State	525·6 +241·4	185	28·0 −1·7	22·2 0	87 +5	79	6·8 +2·2	6·9
26. Coastal Mysore,	41·9 −19·0	69	32·0 +0·1	22·9 +0·3	77 +5	70	5·1 +1·3	5·5
27. Interior Mysore, (North)	27·3 −5·3	84	29·6 −0·1	18·8 +0·9	68 +5	48	4·5 +1·9	5·2
28. Interior Mysore (South)	83·7 +17·6	127	26·3 −1·4	18·1 +1·0	84 +9	65	6·0 +1·9	5·8
29. Kerala	326·3 +164·3	201	29·1 −1·1	23·1 −0·4	87 +5	81	5·8 +1·4	6·8
30. Arabian Sea Islands	235·9 −127·9	218	30·0 0	24·6 +0·7	83 +6	80	4·3 +0·4	6·1

NOTE :—The entries in the second line for each division and sub-division indicate departures from normal.
*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0·2 mm.)	Precipitation (0·5 mm. or more)	Snow or sleet	Hail	Thunder heat	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	30·3	..	31·1	4 days	24·7	..	22·2	19	60·6	106·4	..	39.0	21	11	..	14·5	9·3	..	1	13	0	0	0	0	0	0	0	0	0
Long Island	31·0	..	31·7	7 days	24·1	..	22·4	20, 21	80·5	210·5	..	52·6	25	10	..	1·2	0·6	..	0	11	0	0	2	0	0	0	0	0	0
Port Blair	30·4	+1·6	31·7	17	24·4	+1·3	22·3	20	19·0	132·2	−135·0	30·2	6	13	−0·6	10·2	8.5	−5·0	2	14	0	0	2	1	0	0	0	0	0
Car Nicobar	29·7	..	30·8	26	23·1	..	21·3	23, 28	160·3	300·2	..	74·2	21	15	..	5·3	3·0	..	0	19	0	0	2	0	0	0	0	0	0
Nancowry	29·7	..	33·3	4	24·1	..	22·9	6	249·2	373·8	..	49·7	28	20	..	..	..	..	0	23	0	0	3	0	0	0	0	0	0
Kondul	28·3	..	30·0	6	23·5	..	22·1	19	217·0	366·6	..	135·6	28	20	..	..	..	..	0	26	0	0	3	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	27·1	..	28·9	12,13	17·0	..	15·1	3, 28	0	13·4	..	9·0	6	2	..	8·9	14.1	..	0	3	0	0	1	0	0	0	0	0	0
Digboi	..	..	..	..	..	..	..	..	0	20·0	..	20·0	1	1	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Dibrugarh	28·1	+1·7	30·3	12	15·5	−0·1	11·3	27	0·5	12·0	−21·5	8·1	1	2	−0·5	1·5	1·1	+0·1	0	4	0	0	0	0	0	0	0	0	0
Dibrugarh (Mohanbari Aerodrome)	27·3	..	29·0	5	13·6	..	8.8	28	1·4	16·8	..	9·4	1	2	..	4·0	1·9	..	0	5	0	0	1	15	0	0	0	0	0
North Lakhimpur	27·6	..	29·4	6	13·6	..	8·2	28	0·4	14·2	..	7·2	1	2	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Sibsagar	27·5	+1·9	28·9	12	15·5	+0·1	11·2	28	2·0	32·7	+1·7	14·1	6	3	+0·7	2·6	1·2	−0·6	0	3	0	0	0	0	0	0	0	0	0
Jorhat	27·8	..	29·8	21	15·3	..	10·6	27	0	28·5	..	20·1	1	3	..	..	..	..	0	3	0	0	0	8	0	0	0	0	0
Golaghat	28·1	..	30·0	5	15·8	..	11·7	27	0	35·2	..	18·8	1	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Gohpur	27·0	..	28·8	16	12·8	..	8·8	27, 28, 29	0	0	..	0	..	0	..	(b) 3·7	(c) 2·5	..	0	0	0	0	0	0	0	0	0	0	0
Tezpur	29·3	+2·1	31·1	5	16·8	+ 4	12·8	28	0	42·3	+19.4	27·5	6	4	+2·2	3·4	3·7	+1·3	0	4	0	0	0	0	0	0	0	0	0
Majbat	..	..	..	..	..	.	..	..	0·2	7·8	..	7·4	1	1	..	5·1	2·7	..	0	2	0	0	0	0	0	0	0	0	0
Chaparmukh †																													
Tangla	28·9	..	31·2	13	14.0	..	9.8	29	0	7·3	..	7·3	1	1	..	1·2	0·3	..	0	1	0	0	0	0	0	0	0	0	0
Gauhati	28·0	+0·6	29·7	6	17·5	+1·2	13·6	28	0	10·2	−3·8	8·2	1	1	−0·2	1·0	1·0	−0.8	0	2	0	0	0	15	0	0	0	0	0
Gauhati (Bhorjor Aerodrome)	27·7	..	29·3	6, 11	16·2	..	11·2	28	0	5·8	..	5·8	1	1	..	4·3	2·8	..	0	1	0	0	0	8	0	0	0	0	0
Rangiya	28·6	..	31·7	7	15·6	..	11·1	29	0	5·0	..	5·0	1	1	..	5·0	2·8	..	0	1	0	0	0	0	0	0	0	0	0
Goalpara	29·7	..	32·2	6	16·0	..	11·7	29	0	0	..	0	..	0	..	(c) 2·5	(c) 1·6	..	0	0	0	0	0	0	0	0	0	0	0
Dhubri	26·3	0	29·8	7	18·2	+0·4	15·4	30	0	0	−10·2	0	..	0	−0·7	1·5	1·3	−5·1	0	0	0	0	0	0	0	0	0	0	0
Dhubri (Rupsi Aerodrome)	28·0	..	29·9	6	15·2	..	10·7	30	0	0	..	0	..	0	..	3·5	1·8	..	0	0	0	0	0	0	0	0	0	0	0
Tura	26·8	..	29·1	5	13·5	..	10·4	28	0	4·5	..	4·5	1	1	..	3·9	6·6	..	0	1	0	0	0	0	0	0	0	0	0
Agartala	28·3	..	30·5	19	16·0	..	11·2	24	0	47·6	..	47·6	1	1	..	5·0	3·0	..	0	1	0	0	0	0	0	0	0	0	0
Kailashar	28·8	..	30·4	19	16·2	..	11·3	26	0·2	57·4	..	57·2	1	1	..	1·8	2.1	..	1	1	0	0	0	11	0	0	0	0	0
Silchar	27·4	−2·0	30·4	5	17·4	−0·1	12·9	27	0	37·0	−7·5	35·4	1	1	−1·1	1.7	0.9	−0·7	0	3	0	0	0	0	0	0	0	0	0
Silchar (Kumbhigram Aerodrome)	29·0	..	31·2	21	16·9	..	12·8	27	0	31·9	..	30·0	1	1	..	4·2	6·2	..	1	2	0	0	0	0	0	0	0	0	0
Imphal	24·6	..	26·3	3	11·0	..	3·7	27	0	43·4	..	41·8	1	2	..	4·9	3·0	..	0	2	0	0	0	11	0	0	0	0	0
Haflong	24·2	..	26·1	21	15·0	..	12·6	27	0	96·5	..	96·5	1	1	..	..	..	..	0	1	0	0	0	4	0	0	0	0	0
Lumding	27·3	+1·1	28·8	9	14·8	−0·6	10·0	26	0	33·4	+4·2	32·0	1	1	−0·9	2·2	1·1	..	0	2	0	0	0	0	0	0	0	0	0
Sub-Himalayan West Bengal																													
Cooch Behar	28·4	..	29·7	12	15·1	..	10·5	30	0	0	−11·4	0	..	0	−0·8	3·6	1·9	..	0	0	0	0	0	8	0	0	0	0	0
Jalpaiguri	25·5	−2·3	27·4	5	16·2	+0·2	12·8	30	0	0	−12·5	0	..	0	−0·8	(d) 3·8	(e) 3·3	+1·7	0	0	0	0	0	0	0	0	0	0	0
Bagdogra	27·7	..	29·6	12	12·9	..	9·1	31	0	0	..	0	..	0	..	5·4	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Malda	28·2	+0·3	30·0	7, 15	16·1	−0·1	12.2	22	0	0	−11·4	0	..	0	−0·7	6·4	4·5	+0·6	0	0	0	0	0	0	0	0	0	0	0
Gangetic West Bengal.																													
Dum Dum	29·0	..	31·8	15	16·4	..	11·8	24	0	5·5	..	5·5	1	1	..	5·7	3·1	..	0	1	0	0	0	1	0	0	0	0	0
Calcutta	29·1	+0·1	31·2	15	17·7	+0·1	14·0	30	0	5·3	−15·3	5·7	1	1	−0·1	5·8	2·9	−0·2	0	1	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	28·2	..	30·5	7	16·2	..	11·6	30	0	6·6	..	6·6	1	1	..	..	..	..	0	1	0	0	0	1	0	0	0	0	0
Sagour Island	27·8	−0·1	29·7	7 days	19·8	+0·1	16·1	30	0	3·0	−29·5	3·0	1	1	−0·3	13.8	11.2	+2.3	0	1	0	0	0	0	0	0	0	0	0
Sandheads	30·5	..	34·8	16	24.7	..	22·7	30	0	0	−69·9	0	..	0	−2·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Contai	28.8	..	30·8	15	17·4	..	12·6	30	0	2·0	..	2·0	1	0	..	4·2	2·8	..	0	1	0	0	0	0	0	0	0	0	0
Midnapore	28·6	−0·5	30·7	2	16·5	−0.9	12·7	30	0	0	−22·1	0	..	0	−1·1	4·6	2·5	+0·4	0	0	0	0	0	0	0	0	0	0	0
Purulia	27·2	..	29·2	15	15·8	..	12·4	29	0	11·8	..	11·8	1	1	..	5·0	3·6	..	0	1	0	0	0	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	0	−16·5	0	..	0	−1·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Burdwan	..	..	..	..	16·8	−0·9	12·7	30	0	0	−21·8	0	..	0	−1·0	3·0	2·0	+0·1	0	0	0	0	0	0	0	0	0	0	0
Krishnagar	29·8	+0·7	32·2	7	16·4	−0·4	12·3	23	0	0·1	−24·8	0·1	1	0	−1·2	1·5	1·2	−0·7	1	0	0	0	0	0	0	0	0	0	0
Asansol	28·7	−0·1	30·7	6	15·8	+0·2	12·0	30	0	0·9	−13·6	0·7	1	0	−1·0	7·0	4·9	−0·1	1	1	0	0	0	0	0	0	0	0	0
Suri	28·6		30·7	7	16·2	..	12·1	23	0·4	1·6	..	1·2	1	0	..	6·5	5·1	..	0	2	0	0	0	0	0	0	0	0	0
Berhampore	29·1	+0·9	31·3	3,7,15	17·0	−0.6	12·9	23, 30	0	0	−16·0	0	..	0	−0·7	0·1	0	−1·6	0	0	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	29·4	..	31·7	5	15·8	..	12·2	27	0	0	..	0	..	0	..	3·6	1·6	..	0	0	0	0	0	0	0	0	0	0	0

(c) Mean of 28 days. †Temporarily closed. (d) Mean of 27 days. (e) Mean of 26 days. (b) Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 mm. and 0·2 mm.)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Orissa—(*Contd.*)																														
Balasore	28·7	—0·4	30·9	15	16·8	—0.5	12·2	30	0	0·1	—38·0	0·1	1	0	—1·5	4·6	2·2	—0·4	1	0	0	0	0	0	0	0	0	0	0
Chandbali	28·7	—0·2	30.6	15,16	17·1	—1·5	12·3	26, 27	0	0	—41·9	0	..	0	—1·5	6·9	5·0	—0·1	0	0	0	0	0	0	0	0	0	0	0
Cuttack	30·9	+1·5	33·4	5	18·0	—0·8	13·3	30	0	0	—41·1	0	..	0	—1·6	4·2	3.1	+1·2	0	0	0	0	0	0	0	0	0	0	0
Bhubaneswar	29·6	..	31·7	16	18·3	..	15·1	29	0	0	..	0	..	0	..	8·7	6.8	..	0	0	0	0	0	0	0	0	0	0	0
Puri	29·5	+0·3	31·7	16	20·1	—0·6	16·2	30	0	0	—81·0	0	..	0	—2·4	12·9	10.3	+1·1	0	0	0	0	0	0	0	0	0	0	0
Gopalpur	29·6	+0·7	31·4	2,15	19·2	—0·4	15·0	30	0	0	—99·8	0	..	0	—2·8	13·0	10·2	+0·2	0	0	0	0	0	0	0	0	0	0	0
Koraput	25·3	..	28·3	5,15	14·3	..	8·9	29	12·9	30·9	..	22·8	10	2	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Titilagarh	30·0	..	31·2	4 days	16·1	..	11·8	26	0	0	..	0	..	0	..	2·3 (1)	1·7	..	0	0	0	0	0	1	0	0	0	0	0
Bolangir	29·3	..	36·6	7	15·0	..	11·2	30	0	0	..	0	..	0	..	7·4	4·7	..	0	0	0	0	0	0	0	0	0	0	0
Phulbani	27·6	..	30·1	6	15·4	..	5·7	30	2·4	2.4	..	2·0	6	0	..	2·4	1·4	..	0	2	0	0	0	0	0	0	0	0	0
Angul	28·5	—0·3	30·4	7	16·4	—0·4	11·8	28	0	0	—28·2	0	..	0	—1·4	5·8	5·3	+0·5	0	0	0	0	0	0	0	0	0	0	0
Keonjhar	26·3	..	28·1	6	15·1	..	10·1	27	16·4	16·4	..	13·1	7	2	..	5·4	3·1	..	0	2	0	0	0	0	0	0	0	0	0
Sambalpur	28·7	—0·1	30·9	6	14·4	—1·9	9·1	30	0	0	—20·6	0	..	0	—1·0	4·4	2·7	—0·7	0	0	0	0	0	0	0	0	0	0	0
Jharsuguda	28 5	..	31·0	14	14 1	..	8·9	30	0·6	1·7	..	1·7	5	0	..	7·6	5·7	..	0	1	0	0	0	0	0	0	0	0	0
Bihar Plateau																														
Jamshedpur	28·7	—0·7	30·9	16	14·6	—0·4	10·0	30	0	2·8	—6·6	1·8	1	0	—0·7	4·8	2·9	+0.3	0	2	0	0	0	0	0	0	0	0	0
Jamshedpur (P.B.O.).	27·9	..	29·9	14,15	14·5	..	10·1	29, 30	0·2	2·3	..	1·5	5	0	..	..	..	..	1	2	0	0	0	0	0	0	0	0	0
Chaibasa	28·2	—0·1	30·0	4 days	14·5	—0·9	10·1	28	0	0·5	—17·3	0·5	5	0	—1·0	2·1	1·5	—0·4	0	1	0	0	0	0	0	0	0	0	0
Ranchi	26·1	+0·8	28.9	8	11·8	—2·2	8·7	30	0	0	—15·5	0	..	0	—1·0	0.4	0·3	—4·0	0	0	0	0	0	0	0	0	0	0	0
Ranchi (C.W.O.)	24·9	..	27·3	2	12·7	..	7·0	30	0	1·8	..	1.8	5	0	..	(j) 10·2	7·5	.	0	1	0	0	0	0	0	0	0	0	0
Daltonganj	28.5	+0·5	31·3	5	11·0	—1·4	7·1	30	0	0	—14·2	0	..	0	—0·8	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	26·3	+1.0	28·8	3	11·9	—2·1	7·8	29	0	0	—14·2	0	..	0	—0·9	8·6	5·2	—1·7	0	0	0	0	0	0	0	0	0	0	0
Dhanbad(R)																														
Dumka	28·6	+0.6	32.2	5	13·4	—1.9	9·6	28	0	1·0	—12·7	1·0	1	0	—0·8	3·4	2·2	+0·4	0	1	0	0	0	0	0	0	0	0	0
Bihar Plains																														
Purnea	28·8	+0·8	30·2	3	12·5	—2·3	9·4	25	0	6·2	—2·4	6·2	1	1	+0 5	1·8	0·7	—0·9	0	1	0	0	0	0	0	0	0	0	0
Forbesganj	30·1	..	32·2	4	13·4	..	9·9	25	0	0	..	0	..	0	..	3·5	1·8	..	0	0	0	0	0	4	0	0	0	0	0
Darbhanga	28·9	+0·6	30.9	4	15·0	—0·3	20·3	2	0	0	—6·9	0	..	0	—0·4	1·8	1·4	0	0	0	0	0	0	0	0	0	0	0	0
Motihari	24·2	—3·7	28·0	1	13·6	+0·3	9·9	30	0	0	—6.1	0	..	0	—0·3	0·4	0·4	—2·2	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	.	..	0	—7·4	0	..	0	—0·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Chapra	28·6	..	31·5	4	16·0	..	10·5	30	0	4·4	—4·7	2·2	1	0	—0 5	0 2	0·1	..	0	1	0	0	0	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	0	—9·4	0	..	0	—0·6	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Patna	28·8	+1.0	30·9	4,5	15·2	—0.9	11·2	30	0	0	—8·6	0	..	0	—0·5	3·7	3·1	+0·7	0	0	0	0	0	0	0	0	0	0	0
Patna (Aerodrome)	28·4	..	31·0	3,4	12·9	..	8·9	21, 30	0	0	..	0	..	0	..	5·2	2·1	..	0	0	0	0	0	0	0	0	0	0	0
Dehri	28·5	..	30·8	15	13·9	..	10·4	28, 30	0	0	—11·7	0	..	0	—0·7	4·7	3·5	..	0	0	0	0	0	0	0	0	0	0	0
Gaya	28·1	+0·7	30·8	3	12·2	—1·7	8.2	28	0	0	—12·5	0	..	0	—0.7	7·1	5·2	+0·5	0	0	0	0	0	0	0	0	0	0	0
Jamui	29·1	..	31·6	5	12·9	..	9·1	22, 26	0	0·2	..	0	..	0	..	5·4	2·7	..	0	0	0	0	0	0	0	0	0	0	0
Bhagalpur	28·4	..	30·5	5	14·8	..	11·2	22	0	0	..	0	..	0	..	5·5	3·9	..	0	0	0	0	0	0	0	0	0	0	0
Sabour	27·8	—0·1	30·2	2	13·1	—0·7	8·8	22	0	0	—9·7	0	..	0	—0·7	3·1	1·5	—2·5	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (East)																														
Gonda	28·2	—0·5	30·5	16	12·6	—0·1	9·1	30	0	0	—5·1	0	..	0	—0·5	1·6	1·5	—1·2	0	0	0	0	0	0	0	0	0	0	0
Nautanwa	24·5	..	27·4	5	12·9	..	8·9	25, 30	0	7·5	..	7·5	1	1	..	1.6	0·6	..	0	1	0	0	0	0	0	0	0	0	0
Gorakhpur	29.1	+1·3	31·8	17	15·3	+1·2	11·7	30	0	2·0	—2·8	2·0	1·2	0	—0·3	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Azamgarh	29·5	..	32·2	4	9·8	..	6·2	21	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ballia	29·5	..	32·4	5	13·1	..	9·2	28	0	0	..	0	..	0	..	2.7	1·2	..	0	0	0	0	0	0	0	0	0	0	0
Varanasi (Banaras)	28·3	0	32·2	4	12·6	—0·7	8·4	27, 28	0	0	—9 4	0	..	0	—0 6	4·2	3·0	+0.4	0	0	0	0	0	0	0	0	0	0	0
Varanasi (Banaras) (Babatpur Aerodrome).	28·5	..	31·2	3,4	11·6	..	8·0	28	0	0	..	0	..	0	..	3·6	4·9	..	0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamrauli).	29·5	+0·9	32·5	15	11·6	—0·8	7·2	26	0	0	—7·9	0	..	0	—0·5	4·7	2·4	—0·3	0	0	0	0	0	0	0	0	0	0	0
Sultanpur	29·1	..	31·7	5,16	12·3	..	8·8	20	0	0	..	0	..	0	..	2·1	1·8	..	0	0	0	0	0	0	0	0	0	0	0
Faizabad	28·4	..	30·6	4,15,16	10.6	..	6·7	20	0	0	..	0	..	0	..	3·3	1·5	..	0	0	0	0	0	0	0	0	0	0	0
Banda	29·8	..	32·5	15	12·0	..	7.7	28	0	0	..	0	..	0	..	2·2	1.0	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	28·6	—0·8	32·3	15	11·8	—0·8	8·8	26, 29	0	0	—2·3	0	..	0	—0·4	5·0	2·1	—0·3	0	0	0	0	0	0	0	0	0	0	0
Kanpur	28·5	+0·3	31·3	2	11·4	—0·8	6·1	29	0	0	—8·9	0	..	0	—0·4	9·5	5·8	+1·8	0	0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	28·5	..	31·7	15	11·2	..	7·4	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Lucknow*																														
Lucknow (Amausi Aerodrome)	28·1	0	30·5	3,14,16	10·6	+0·2	7·1	20	0	0	—5·6	0	..	0	—0·4	7·2	4·1	..	0	0	0	0	0	0	0	0	0	0	0

*Data not available due to floods. (R) Register not received. (j) Mean of 21 days. (b) Mean of 19 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830—1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation 0·1 and 0·2 mm.	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—(*Contd.*)																														
Hardoi	28·4	..	31·7	2	11·8	..	8·1	30	0	0	..	0	..	0	..	5·2	2·5	..	0	0	0	0	0	2	0	0	0	0	0
Lakhimpur Kheri	28·1	..	30·6	5	12·9	..	8·9	30	0	0	..	0	..	0	..	2·6	1·4	..	0	0	0	0	0	0	0	0	0	0	0
Bahraich	28.5	+0·2	30·6	1	12·8	−0·6	8·7	30	0	0	−7·1	0	..	0	−0·5	4·5	2·9	+1·0	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																														
Orai	26·7	..	31·1	11	12·2	..	8·3	27,28	0	0	..	0	..	0	..	5·9	4·7	..	0	0	0	0	0	0	0	0	0	0	0
Jhansi	30.4	+0 7	33·0	9,14,15	18·3	+5·6	..	..	0	0	−7·4	0	..	0	−0·8	3·2	2·4	−0·3	0	0	0	0	0	0	0	0	0	0	0
Agra	28·5	−0·6	32·0	15	10·7	−0·4	6·6	27	0	0	−3·6	0	..	0	−0·3	3·2	2·3	−1·1	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	28·9	..	31·7	12	9·6	..	5·8	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Mainpuri	29·2	0	32·6	12	12·0	+0·2	7·9	28,30	0	0	−3·8	0	..	0	−0·3	4·1	2·4	+1·0	0	0	0	0	0	0	0	0	0	0	0
Aligarh	28·4	−0·3	31·5	8	10·6	−1·7	7·0	27,30	0	0	−0·8	0	..	0	−0.1	6·8	4·9	+0.2	0	0	0	0	0	0	0	0	0	0	0
Bareilly	28·3	+0·7	31·0	1	11·9	0	9·0	30	0	0	−4·6	0	..	0	−0·3	3·9	1·8	+0·5	0	0	0	0	0	0	0	0	0	0	0
Meerut	28·0	+0·4	31·7	14	10·1	−0·4	5·6	28	0	0	−3·3	0	..	0	−0·3	..	3·8	..	0	0	0	0	0	0	0	0	0	0	0
Najibabad	26·9	..	30·6	1,2	..	..	..	..	0	0	..	0	..	0	..	3·8	2·0	..	0	0	0	0	0	0	0	0	0	0	0
Roorkee	26.1	−0 3	29·4	3	9·5	−0·3	6·1	18	0	0	−5·8	0	..	0	−0·5	3·9	2·6	+1·0	0	0	0	0	0	0	0	0	0	0	0
Dehra Dun	24.8	+0·7	27·1	2	9·7	−0·9	5·7	30	0	0	−8·9	0	..	0	−0·7	3·3	3·7	+0·8	0	0	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																														
New Delhi	27·9	−0 9	31.1	8	11.6	+0.2	7.9	27	0	0	−2.5	0	..	0	−0.3	11.4	7.7	+0.6	0	0	0	0	0	2	0	0	0	0	0
New Delhi (Palam Aerodrome)	28·5	..	31·2	8	9·3	..	2·8	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hissar	28·5	−0·6	32·0	9	9·6	−0·3	5·2	30	0	0	−1·5	0	..	0	−0·2	5·3	5·0	+0·7	0	0	0	0	0	0	0	0	0	0	0
Karnal	27·3	..	30·1	8	12·5	..	9·0	29	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Patiala	28·0	..	31·7	8	9·6	..	5·0	26	0	0	−0·3	0	..	0	..	7·2	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Ambala	28·1	+0·3	31·1	2	9·9	0	6·2	26	0	0	−4·8	0	..	0	−0·4	7·2	5·8	+2·9	0	0	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	27·3	..	30·6	13	7·5	..	3·8	26	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Chandigarh	27·5	..	30·7	11	9·7	..	6·2	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ludhiana	28·1	+0·7	31·2	13	9·0	−1.6	5 1	19,20	0	0	..	0	..	0	..	4·5	2·3	+1·0	0	0	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	27·6	..	30·6	3	7·1	..	3·0	19	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhatinda	28.1	..	31·8	8	7·7	..	3·9	30	0	0	..	0	..	0	..	5·7	3·5	..	0	0	0	0	0	0	0	0	0	0	0
Ferozepur	27·5	..	31·1	7	8 2	..	4·4	28	0	0	..	0	..	0	..	2·6	1·5	..	0	0	0	0	0	0	0	0	0	0	0
Amritsar	27.4	..	30.5	1	6·8	..	2.2	19	0	0	..	0	..	0	..	6·6	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Pathankot (Aerodrome)	26.4	..	30.6	13	9.3	..	5.7	30	0	0	..	0	..	0	..	6·0	4·3	..	0	0	0	0	1	0	0	0	0	0	0
Adampur (Aerodrome)(R)																														
Himachal Pradesh																														
Bilaspur	26·0	..	29 0	6days	5·3	..	3·0	6 days	0	1·6	..	1·6	29	0	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Mandi	24·9	..	28·1	13	5·7	..	2·5	30	0	0	..	0	..	0	..	1·7	1·3	..	0	0	0	0	0	0	0	0	0	0	0
Jammu and Kashmir																														
Srinagar	14·8	−2·1	19 3	2,6	+0·4	+1 0	−3·6	30	0	5·9	− 5·3	2·0	28	0	−1.1	4·4	3·9	+1·0	0	5	0	0	0	0	0	0	0	0	0
Srinagar (Aerodrome)	14·7	..	19.4	4days	1·2	..	−2.9	30	2.3	5·0	..	2·4	28	0	..	..	..	..	0	3	1	0	0	0	0	0	0	0	0
Gulmarg (R)																														
Sonemarg	..	..	..	..	..	..	..	..	..	..	..	3·0	27	1	−1·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dras (R)	..	..	..	..	..	..	..	..	..																				
Leh	6·6	−1·6	10·1	12	−6·1	+0·3	−12.3	30	0	0	−1·0	0	..	0	−0·2	(d) 5·8	(e) 5·6	+2·5	0	0	0	0	0	0	0	0	0	0	0
Skardu (R)																														
Gilgit (R)																														
Misgar (R)																														
Jammu‡																														
Jammu (Aerodrome)	26·2	..	29 6	1	11·5	..	6.4	30	0	1.3	..	1·3	28	0	..	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Rajasthan (West)																														
Sri Ganganagar	29·4	+0·2	33.2	2,3	9·5	+0·7	5·3	29,30	0	0	−0.3	0	..	0	..	3·5	1·8	−3·8	0	0	0	0	0	0	0	0	0	0	0
Churu	29·0	..	32.9	13	8·1	..	3·6	30	0	0	..	0	..	0	..	7·2	4·4	..	0	0	0	0	0	0	0	0	0	0	0
Bikaner	30.8	−0.1	35·0	9	8·1	−2·6	3·4	30	0	0	−1·3	0	..	0	−0·1	3·9	2·5	−1·5	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	31·3	..	35·5	1	11·0	..	3.8	30	0	0	..	0	..	0	..	6·4	3.9	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	30·5	..	34·5	12	17·7	..	6·8	30	0	0	−0·5	0	..	0	−0·1	7·9	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Nagaur	29·9	..	34·1	12	10·7	..	5·0	30	0	0	..	0	..	0	..	5·2	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	31·7	+0·8	35·6	13	14·2	+1·0	5·9	30	0	0	−2·8	0	..	0	−0·2	6·4	6·0	−1·2	0	0	0	0	0	0	0	0	0	0	0
Barmer	32·2	+0·3	34·7	7	15·4	−0·7	10·0	29	0	0	−0·8	0	..	0	−0·2	7·0	5·6	−0·2	0	0	0	0	0	0	0	0	0	0	0
Rajasthan (East)																														
Pilani	29·0	..	32 5	13	9·3	..	4·3	30	0	0	..	0	..	0	..	9·5	6·8	..	0	0	0	0	0	0	0	0	0	0	0

‡Temporarily closed. (R)—Register not received. (d) Mean of 27 days. (e) Mean of 26 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet.	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)—(*Contd*).																													
Alwar	28·8	..	32·7	9	11.1	..	8·8	26	0	0	..	0	..	0	..	3.8	2.0	..	0	0	0	0	0	0	0	0	0	0	0
Sikar	28·9	..	32·1	9	7.8	..	1·1	30	0	0	..	0	..	0	..	4·8	4.5	..	0	0	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer Aerodrome).	29.1	..	32·4	10	11·1	..	5·8	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dholpur	29·3	..	32·7	8	9·8	..	5·2	27	0	0	..	0	..	0	..	3·4	2·0	..	0	0	0	0	0	0	0	0	0	0	0
Tonk	30·4	..	33·9	14	9.4	..	3·4	30	0	0	..	0	..	0	..	5·3	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Ajmer	29·4	+0.7	31·9	1	10·1	—1·4	3·8	30	0	0	—4·8	0	..	0	—0·4	5·7	3·4	+1·5	0	0	0	0	0	0	0	0	0	0	0
Kotah	29·4	—1·0	33·9	13,14	14·6	—0·5	9·9	28, 30	0	0	—5·8	0	..	0	—0·6	0·7	0·5	—1·1	0	0	0	0	0	0	0	0	0	0	0
Chambal	30·7	..	36.7	8,9	10·4	..	5·3	30	0	0	..	0	..	0	..	5·6	3·1	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	30·4	+1·1	33.4	14,15	11·3	—0·8	6·6	26	0	0	—18·5	0	..	0	—1·1	4·4	2·4	+0·5	0	0	0	0	0	0	0	0	0	0	0
Udaipur	29·4	—0·3	32·3	13	9·1	—3·2	4·3	30	0	0	—2·8	0	..	0	—0·3	2·9	1·3	..	0	0	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam).	31·7	..	33·9	13	12·7	..	4.7	30	0	0	..	0	..	0	..	4·0	3·7	..	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	29·1	—0·5	32·5	15	9·5	—1·1	5·9	26, 27	0	0	—3·6	0	..	0	—0·4	5.5	3·1	..	0	0	0	0	0	0	0	0	0	0	0
Sheopur Kalan	30·2	..	33·4	14	9·4	..	5·1	32	0	0	..	0	..	0	..	5·4	4·4	..	0	0	0	0	0	0	0	0	0	0	0
Guna	29·1	+0·3	31·1	14,15	8·9	—1·7	4·7	26	0	0	—22·1	0	..	0	—0·8	7·4	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Rajgarh	30·5	..	33·4	5	10·1	..	6·7	26	0	0	..	0	..	0	..	4·6	3·9	..	0	0	0	0	0	0	0	0	0	0	0
Neemuch	29·4	+0·2	31·9	15	13·1	+0·3	7·1	30	0	0	—7·9	0	..	0	—0·4	5·0	4·0	—1·3	0	0	0	0	0	0	0	0	0	0	0
Ratlam	31·1	..	32·8	15	13·5	..	10·6	30	0	0	..	0	..	0	..	5·9	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Alirajpur	31·7	.	32·8	16,18	12·6	..	8·0	28	0	0	..	0	..	0	..	5·6	2·6	..	0	0	0	0	0	0	0	0	0	0	0
Indore	29·5	+0·4	31·0	15,22	12·1	+0·1	8·0	30	0	0	—15·5	0	..	0	—0·9	8·8	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Ujjain	31·1	..	33·0	14	9·3	..	6·4	29, 30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	6	0	0	0	0	0
Bhopal (Bairagarh)	28·6	+0·2	30·7	16	12·3	—0.4	8·1	30	0	0	—25·7	0	..	0	—1·2	5·2	3·2	—2·8	0	0	0	0	0	0	0	0	0	0	0
Khandwa	31·9	+0·9	34·2	22	12·4	—1·2	9·7	30	0	0	—19·3	0	..	0	—1·0	5.3	3·9	+0·2	0	0	0	0	0	0	0	0	0	0	0
Hoshangabad	29.3	+0·1	31·1	16	13·3	+1·4	10·2	30	0	0	—17.0	0	..	0	—0·9	5·4	4·0	+1·4	0	0	0	0	0	0	0	0	0	0	0
Betul	28·3	..	30·1	22	11·2	..	8·5	1	0	0	..	0	..	0	..	7·0	4·3	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	28·1	..	29·4	15	10·1	..	7·2	30	0	0	..	0	..	0	..	4·0	1·8	..	0	0	0	0	0	0	0	0	0	0	0
Seoni	27·3	—0·1	29·0	23	11.9	—1·0	8·9	30	0	0	—17·3	0	..	0	—1·0	4·4	2·0	—1.5	0	0	0	0	0	0	0	0	0	0	0
Sagar	27·4	—0·7	30·5	15	14·8	—0·2	11·0	30	0	0	—16·0	0	..	0	—0.9	6.2	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Nowgong	29·0	+0·8	31·7	15	9·0	—2·6	5·2	26	0	0	—10·9	0	..	0	—0·7	4·3	2·2	+0·9	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																													
Sutna	28·6	+0·9	31·3	15	10.6	—1.7	6·7	26, 27	0	0	—8·9	0	..	0	—0.7	5·1	3.1	+0.4	0	0	0	0	0	0	0	0	0	0	0
Sidhi	28·8	..	31·2	16	9·4	..	5.6	29	0	0	..	0	..	0	..	5·1	2·3	..	0	0	0	0	0	0	0	0	0	0	0
Umaria	28·4	+0·9	31·0	13,15	8·8	—2·4	5·5	27	0	0	—16·3	0	..	0	—0·7	4·2	2·4	0	0	0	0	0	0	0	0	0	0	0	0
Jabalpur	29·4	+1·5	32·0	16	10·3	—1·0	7·2	27	0	0	—10·9	0	..	0	—0·9	3·9	2·4	+0·5	0	0	0	0	0	0	0	0	0	0	0
Mandla	27·8	..	29·8	11	8·6	..	5·4	30	0	0	..	0	..	0	..	1·5	0·8	..	0	0	0	0	0	1	0	0	0	0	0
Pendra	26.1	+0·8	28·3	16	12.3	—0 6	8·4	29	0	0	—18·3	0	..	0	—1·3	7·0	4·6	..	0	0	0	0	0	0	0	0	0	0	0
Ambikapur	25·9	..	28·1	5	9·5	..	5·8	30	0	0	..	0	..	0	..	9·3	5·9	..	0	0	0	0	0	0	0	0	0	0	0
Champa	28·7	..	30·9	12	14·4	..	9·6	30	0	1·0	..	1·0	5	0	..	5·0	4·9	..	0	1	0	0	0	0	0	0	0	0	0
Raigarh	29·1	..	30·6	2	15·2	..	10·4	30	0	0·8	..	0 8	5	0	..	4·3	3·2	..	0	1	0	0	0	0	0	0	0	0	0
Raipur	28·7	..	30·6	17	14·4	—1.5	9·9	30	0·6	0.8	—12·7	0.8	5	0	—1·1	6·4	3·6	+0·4	0	1	0	0	0	0	0	0	0	0	0
Kanker	28·2	—0·1	30·1	15	14.9	+1·0	9·6	30	0	0	—9·7	0	..	0	—0·8	3·7	1·8	—1·3	0	0	0	0	0	0	0	0	0	0	0
Jagdalpur	28·4	+0·7	30·1	7	14·9	—0·1	8·8	30	0	0.8	—28·2	0·4	..	0	—1·9	6.6	3·9	..	0	2	0	0	2	4	0	0	0	0	0
Gujarat																													
Deesa	33.5	..	36.2	14	13·1	..	8·7	27	0	0	..	4.7	..	0	..	8·9	7·1	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	33·7	..	36·0	1,13	14·5	..	10·1	22	0	0	..	0	..	0	..	6·0	4·3	..	0	0	0	0	0	0	0	0	0	0	0
Idar	32·6	..	34·7	1,15	18·6	..	12·6	28	0	0	..	0	..	0	..	7·7	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Ahmedabad	33·7	+0.4	35·4	14,16	14·6	—1.5	9·7	27	0	0	—3·6	0	..	0	—0·4	7·9	4·9	+1·0	0	0	0	0	0	0	0	0	0	0	0
Dohad	32·0	+0·3	36·4	2	14·5	—0·1	10·5	28	0	0	—16·5	0	..	0	—0·9	8·0	6 2	..	0	0	0	0	0	0	0	0	0	0	0
Baroda	34·1	+1·0	36·0	19	14·4	+0·3	9.4	27	0	0	—20·3	0	..	0	—1·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Baroda (Aerodrome)	34·0	..	36·2	18	15.0	..	9·2	28	0	0	..	0	..	0	..	9·4	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Broach	35·3	..	37·0	19,20, 22	16·1	..	10·9	28, 29	0	0	..	0	..	0	..	6·0	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Surat	35 8	+2·5	37·2	11	18.6	—0·3	12.8	28	0	0	—8·1	0	..	0	—0·5	9·8	8·3	+3·8	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Naliya	34·1	..	36·6	9	13·7	..	6·5	29	0	0	..	0	..	0	..	15·1	10·5	..	0	0	0	0	0	2	0	0	0	0	0
Bhuj (Aerodrome)	32·9	+1·0	35·3	10	14·9	—0·5	8 7	29	0	0	—2·0	0	..	0	2.0	11·3	6·5	—1·5	0	0	0	0	0	0	0	0	0	0	0
Bhutakia Bhimasar	33.4	..	36·0	1	17·8	..	12·5	30	0	0	..	0	..	0	..	15·9	14·0	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	31·2	..	35.0	1	20·1	..	14.5	30	0	0	..	0	..	0	..	9·4	9·8	..	0	0	0	0	0	0	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—(*Contd.*)																														
mandvi	30·8	..	34·4	1	19·0	..	13·5	29	0	0	..	0	..	0	..	15·8	14·1	..	0	0	0	0	0	0	0	0	0	0	0
Dwarka	32.4	+1.8	35·8	11	20·1	−0·3	16.3	29	0	0	−2.0	0	..	0	−0·1	17·8	13·5	+1·8	0	0	0	0	0	0	0	0	0	0	0
Porbander	34·8	..	37·2	9	20·5	..	16·6	29	0	0	..	0	..	0	..	(b) 13·0	(c) 9.1	..	0	0	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome).	35.1	..	37·7	12	19·2	..	15·2	23	0	0	..	..	..	0	..	(b) 15.8	(b) 10·8	..	0	0	0	0	0	0	0	0	0	0	0
Jamnagar	32·4	−0.3	35.6	10	16·1	+1·0	11.1	29	0	0	−1·5	0	..	0	—0·2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Rajkot (Aerodrome).	33·6	+0·8	35·4	12,13	16·7	+0·8	11.3	30	0	0	−5·8	0	..	0	—0·3	16·0	11·2	..	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	33·6	..	35·3	1,2,13	17·6	..	11·7	30	0	0	..	0	..	0	..	7·9	6·9	..	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar	33·6	+1·0	35·6	11	15·9	− 1·1	10.9	26	0	0	−6·6	0	..	0	—0·3	8·0	5.2	+0·4	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar (Aerodrome).	32·7	..	34·4	4,8,11	17 8	..	12.4	27	0	0	..	0	..	0	..	14·5	10·5	..	0	0	0	0	0	0	0	0	0	0	0
Mahuva	33·7	..	35.0	22,23	20 1	..	15.9	27	0	0	..	0	..	0	..	10·8	7·6	..	0	0	0	0	0	0	0	0	0	0	0
Keshod	35·1	..	37.0	10,12, 13	16.3	..	11.7	27,30	0	0	..	0	..	0	..	15.2	11·5	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	34.0	..	36·6	18	18·8	..	14.8	27	0	0	−4·3	0	..	0	−0·2	15·7	11·7	..	0	0	0	0	0	0	0	0	0	0	0
Konkan																														
Dahanu	32·6	+1·5	35·5	17	20·0	−0·3	15·8	28,29	0	0	−92·5	0	..	0	—1·6	13·4	9·1	−1·2	0	0	0	0	0	0	0	0	0	0	0
Bombay (Colaba)	33·0	+1·1	35·1	15	23·1	+0·6	18·3	29	0	0	−13·5	0	..	0	—0.8	6·7	5·2	−4·9	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz Aerodrome)	33·6	+1·3	35·3	16	20·3	+1·6	14·8	29	0	0	−7·4	0	..	0	—0·7	[b] 8·9	(c) 6.2	..	0	0	0	0	0	0	0	0	0	0	0
Alibag	31·7	+0·4	34·5	15	21·0	+0·1	17·0	29	..	0	−39·4	0	..	0	−1·4	..	6·8	−0·4	0	0	0	0	0	0	0	0	0	0	0
Harnai	31·0	+0·3	34·0	16,22	24·3	+1·0	21·4	6	0	1·9	−52·5	1·8	8	0	−2·4	10·1	9·2	—1·4	0	1	0	0	1	0	0	0	0	0	0
Ratnagiri	33·0	..	34·7	22	21·9	..	18·4	29	0	15.7	−10·0	11.1	8	2	+0.7	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Devgad	32·9	+1·2	35·1	5	23·1	−0·2	20·2	3	35·6	41·0	−15·4	14·6	8	4	+1·4	11·3	9·0	—0·5	0	5	0	0	3	0	0	0	0	0	0
Vengurla	33·2	..	35·1	6	21·7	..	17·9	1	18·2	27·2	..	13.2	9	3	..	(b) 7.8	(c) 4·2	..	0	3	0	0	5	0	0	0	0	0	0
Maharashtra (Including Marathwada)																														
Nandurbar	33·0	..	34·6	22	18·2	..	13·8	29	0	0	..	0	..	0	..	9·1	5·2	..	0	0	0	0	0	0	0	0	0	0	0
Jalgaon	32·8	..	34·0	24	14·0	.	10·5	1,24, 29	0	0	−19·8	0	..	0	−0·9	12·6	10.0	..	0	0	0	0	0	0	0	0	0	0	0
Malegaon	32·3	+1·4	34·1	22	13·9	−0·4	10·5	29	0	0	−22·1	0	..	0	−1·2	7·2	4·6	−0·3	0	0	0	0	0	0	0	0	0	0	0
Deolali	31·3	..	32·9	20,23	14·4	..	9·1	1	0	0	..	0	..	0	..	10·3	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Aurangabad	31·1	+1·0	33·2	24	16.7	+1·0	13·8	1	0	0	−24.1	0	..	0	−1·3	8·3	6.3	−1·1	0	0	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome).	30·3	..	31·9	24	12·2	..	8·7	14	0	0	..	0	..	0	..	11·0	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	19·0	−0·3	19·9	10	1	−0·7	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Ahmednagar	30·4	+0·9	32·7	24	15·1	+0·5	12·4	22	29·8	30·0	+1·8	21·8	7	2	+0·6	6·9	5·1	−1·5	1	3	0	0	0	0	0	0	0	0	0
Bhir*																														
Parbhani	30.3	..	32·6	24	14·6	..	11·5	14	0	0·6	−33·9	0·6	6	0	−1·8	9·5	6·1	..	0	1	0	0	0	0	0	0	0	0	0
Nanded	30·8	..	33·0	23,24	..	..	..	..	20·0	26·8	..	20·0	6	2	..	6.4	3.9	..	0	2	0	0	0	0	0	0	0	0	0
Poona	30·9	+0·6	33·1	24	15·3	+0·6	10·1	1	1·7	14·5	−12·9	12·6	7	1	−0.6	5·2	2·5	—3·5	1	3	0	0	0	0	0	0	0	0	0
Poona (Lohagaon Aerodrome)	30·1	..	32·2	23,24, 25	16·5	..	12·2	1	8·7	20·9	..	9·1	9	3	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Baramati	28·9	..	32·0	5	16 2	..	12·7	1	21.0	38·2	..	16·0	7	3	..	7·7	6·3	..	0	4	0	0	0	0	0	0	0	0	0
Jeur	30·2	..	32·3	23,25	15·4	..	11·6	22	30·7	30·7	..	22·4	10	3	..	8·0	4·7	..	0	3	0	0	0	0	0	0	0	0	0
Sholapur	31·0	+0.2	32·6	24	18·1	+1·0	14·9	30	12·7	28·1	—5·7	9·3	7	3	+1·3	10·1	7·7	—2·1	0	7	0	0	2	0	0	0	0	0	0
Miraj	30·1	+0·5	32·6	24,25	17·4	+0·4	12·5	20	9·8	47·8	+1·6	21·8	6	5	+2.5	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Kolhapur	30·5	+0·3	32·6	24	17·8	+1·4	14·0	28	7·0	23·7	−8·6	12·4	5	3	+1·0	15·1	9·4	+0·7	1	4	0	0	0	3	0	0	0	0	0
Vidarbha																														
Buldhana	29·0	..	30·8	23	16.6	..	13·5	25	0	0	..	0	..	0	..	7·4	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Akola	31·4	+0·3	33·3	23	14·6	−0·1	10·5	1	0	0	−18·5	0	..	0	−1.0	6·3	4·3	+0·1	0	0	0	0	0	0	0	0	0	0	0
Amravati	31·1	+0·8	33·0	24	16·6	—0·4	13·9	30	0	0	−16·8	0	..	0	−1·0	9·4	8·2	+2·9	0	0	0	0	0	0	0	0	0	0	0
Pusad	31·0	..	33·9	24,25	13·4	..	10·5	21	0	0	..	0	..	0	..	8·8	4·5	..	0	0	0	0	0	0	0	0	0	0	0
Yeotmal	29·4	..	32·2	23	15·6	..	13·1	21	0	0	..	0	..	0	..	10·6	8·2	..	0	0	0	0	0	0	0	0	0	0	0
Nagpur	30·0	+0·1	31·5	24	12·9	—1.0	10·0	30	0	0	−19·6	0	..	0	−1·1	11·6	8·7	..	0	0	0	0	0	0	0	0	0	0	0
Gondia	29·2	..	30·7	14	14·0	..	10·7	30	0	0	..	0	..	0	..	3.4	1·7	..	0	0	0	0	0	0	0	0	0	0	0
Brahmapuri	29·5	..	31·7	23	14·6	..	11·3	27	0	0	..	0	..	0	..	(b) 4·7	(b) 2.3	..	0	0	0	0	0	0	0	0	0	0	0
Chanda	29·8	+0·2	31·8	23	13·8	−1·2	9·8	30	0	14	—15·4	1·4	5	0	−1·3	6·4	3·1	+0·8	0	1	0	0	0	0	0	0	0	0	0
Sironcha	30·5	..	32·8	23	16·9	..	10·8	30	22·6	22.6	..	13·4	9	3	..	4·9	2·7	..	0	3	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																														
Nellore	27·8	−1·8	33·1	1	22·3	+0·1	19·5	28	275·5	771·8	+474·6	196·5	11	14	+5·2	7.9	5·5	+0·7	0	15	0	0	4	0	0	0	0	0	0
Ongole	29·3	..	32·6	1	21·9	..	18·0	30	49·4	226.6	..	84.0	4	9	..	(b) 7.1	(c) 5·0	..	0	10	0	0	0	0	0	0	0	0	0
Rentachintala	31·4	+0·8	33·8	24	20·2	+0·4	13·6	30	0	3·0	—45·3	3·0	5	1	—2·6	3·7	1·6	—3·7	0	1	0	0	0	0	0	0	0	0	0
Gannavaram	30·5	..	32·5	1	21·6	..	16·2	28	6.9	15·9	..	7·4	4	3	..	16·4	12·1	..	0	7	0	0	2	0	0	0	0	0	0

(b) Mean of 29 days (c) Mean of 28 days. *Data not available

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—*Contd.*																													
Masulipatam *	29·0	−0·3	3·2	2	21·9	+0·1	18	4days	44·8	140·9	−5·9	55·8	21	6	+1·3	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Nidadavolu	30·4	..	33·1	1	20·1	..	15·5	30	4.2	8·8	..	4.6	3	2	..	12·1	8·0	..	0	2	0	0	0	0	0	0	0	0	0
Kakinada	29·0	+0·6	31·4	1	21·7	−0·3	17·4	30	0·4	7·1	+134·9	5·5	8	1	−3·5	18·8	14·8	+3·5	0	4	0	0	0	0	0	0	0	0	0
Visakhapatnam	31·1	+0·8	32·7	1	21·7	+0·1	18·0	26	0	0.4	−118·2	0·2	6,23	0	−3·9	19·8	11·4	+5·3	2	0	0	0	0	0	0	0	0	0	0
Calingapatam	29·3	+0·7	32·8	1	20·4	−0·3	15·8	26	0	13·2	−72·9	13·2	5	1	−1·7	(b) 12·5	(b) 8·5	+1·2	0	1	0	0	0	0	0	0	0	0	0
Telangana																													
Ramagundam	31·1	..	34·2	24	16·9	..	12·1	30	0	6·0	..	6·0	5	1	..	8·0	4·3	..	0	1	0	0	0	0	0	0	0	0	0
Nizamabad	29·8	0	32·7	24	16·3	+0·5	12·6	19	0	4·4	−13·1	3·4	5	1	−0·1	5·3	3·9	+0·4	0	2	0	0	0	0	0	0	0	0	0
Mahbubnagar	29·5	..	31·8	23,25	19·0	..	15·0	27,28	0	3·7	..	2.4	1	0	..	13·8	9·5	..	0	3	0	0	0	0	0	0	0	0	0
Nagarjunkonda	30·9	..	33·5	24	20·6	..	13·3	30	13·7	14·7	..	7·0	3	3	..	10·2	7·0	..	1	6	0	0	1	0	0	0	0	0	0
Hyderabad (Begumpet Aerodrome)	28·7	−0·1	30·6	23,24	16·7	+0·6	12·0	28,30	12·1	40.0	+11·0	20·0	10	3	+0·9	11·8	7·1	−0·6	1	5	0	0		0	0	0	0	0	0
Hakimpet	28·1	..	30·0	24	17·9	..	14·3	26	0·8	12·0	..	6·3	8	2	..	..	..	..	0	5	0	0	6	0	0	0	0	0	0
Hanamkonda	30·3	+0·7	32·1	3	18·4	+0·6	13·1	30	19.2	29·0	+1·1	29·0	7	1	−0·7	8·3	4·7	0	0	1	0		0	0	0	0	0	0	0
Bhadrachalam	31·2	..	33·6	23	19·1	..	12·6	28,29, 30	0	2·0	..	2·0	6	0	..	7·3	6·3	..	0	1	0	0	0	0	0	0	0	0	0
Khammameth	31·1	..	32·7	1	19·7	..	14·1	30	0	0	..	0	..	0	..	5·8	3·3	..	0	0	0	0	0	0	0	0	0	0	0
Rayalaseema																													
Arogyavaram	24·9	..	29·3	9	18·3	..	13·2	28	45·1	174·9	..	53·8	21	16	..	8·6	(b) 5·2	..	0	18	0	0	0	0	0	0	0	0	0
Cuddapah	28·3	−2·6	33·1	1	20·3	−0·8	15·4	29	82·2	291·2	+204·5	88·4	21	10	+4·3	3·4	2·1	−3·4	0	14	0	0	0	0	0	0	0	0	0
Anantapur	28·3	..	31·7	1	20·4	..	14.7	28	13·9	41·6	−18·6	15·0	21	3	−0·7	12·9	10·3	..	0	7	0	0	0	0	0	0	0	0	0
Kurnool	30·9	−0·2	33·7	24	20·0	+1·2	13·0	27	5·6	11·0	−19·2	5·4	8	1	−1·1	7·6	5·4	+1·5	0	7	0	0	0	0	0	0	0	0	0
Madras State																													
Palayamkottai	29·6	..	32·4	20	22·9	..	21·4	5	95·1	370·6	+191·9	95·7	7	19	+9·5	7·2	5·2	..	0	24	0	0	5	0	0	0	0	0	0
Tuticorin	28·6	..	30·8	2	23·1	..	21·8	12	79.6	451·9	..	121·0	11	12	..	13·1	10·0	..	0	18	0	0	0	0	0	0	0	0	0
Pamban	28·7	−0·8	31·1	5	24·1	−0·5	22·5	8	119·9	356·2	+58·5	73·0	3	12	−1·0	8·0	9·8	−4·5	0	16	0	0	0	0	0	0	0	0	0
Tondi	29·1	..	31·9	20	23·1	..	21·5	18	62·4	258·7	..	54·8	22	13	..	11·6	9·7	..	0	13	0	0	3	0	0	0	0	0	0
Mathurai	29.3	−1·1	32·6	20	22·7	−0·1	..	..	35·8	334·8	+189·3	93·4	5	12	+4·0	5·8	4.4	−2·2	0	13	0	0	2	0	0	0	0	0	0
Mathurai (Aerodrome).	28·9	..	32.0	20	22·4	..	21·4	19	56·3	359·0	..	65·2	4	11	..	9·5	7·0	..	1	13	0	0	9	0	0	0	0	0	0
Adhiramapattinam																													
Vadaraniyam	27·6	..	31·9	23	22·8	..	21·0	27,28	167·7	513·7	..	89·6	1	20	..	11·4	8·8	..	0	23	0	0	9	0	0	0	0	0	0
Nagapattinam	27·7	..	31·0	5	23·0	..	21·6	28	355·0	903·3	..	157·2	15	22	..	9·7	7·4	..	0	24	0	0	5	0	0	0	0	0	0
Tiruchirapalli	27·5	−1·6	30·0	22	23·2	−0·4	21·5	27,28	644·7	1507·0	+1061·5	240·4	9	18	+5·0	11.6	10·7	+0·9	0	25	0	0	7	0	0	0	0	0	0
Coimbatore	27·9	−2·4	31·7	2	22·4	+0·2	20·2	27	141·5	230·1	+81·8	59.2	5	15	+6·5	12·6	9·9	+3·8	0	22	0	0	4	0	0	0	0	0	0
Coimbatore (Peelamedu Aerodrome)	28.4	−1·3	31·6	29	21·0	+0·4	17·6	29	38·6	244·0	+141·6	50·4	25	13	+6·2	6.1	3·8	+0·3	0	19	0	0	2	0	0	0	0	0	0
Salem	27·7	..	30·4	29	20·5	..	16.3	29	38·9	271·0	..	85·5	2	13	..	11·5	8·9	..	1	19	0	0	3	1	0	0	0	0	0
Kallakurichi	28·3	−2·3	32·2	30	21.5	+0·8	16·1	28	88·4	121·6	+24·8	26·8	5	13	+6·8	5·8	4·4	+0·2	0	22	0	0	2	0	0	0	0	0	0
Cuddalore	27·3	..	30·3	7,23	22·0	..	19·4	28	178·0	330·5	..	79.8	9	15	..	10·2	7·2	..	2	18	0	0	1	0	0	0	0	0	0
Tirupattur	27·3	−1·8	30·9	1	21·9	−0·7	19·0	28	347·9	987·5	+593·3	238·8	14	22	+10·4	8·8	5·9	−0·2	0	23	0	0	4	0	0	0	0	0	0
Vellore	26·9	..	30·6	1,7	19·9	..	14·3	29	124·8	252·8	..	43·0	21	14	..	5·1	3·2	..	0	14	0	0	1	0	0	0	0	0	0
Tambaram (Aerodrome).	27·2	−1·9	31·9	1	20·8	+0.2	15·9	30	111·6	296·3	+101·2	44·8	15	16	+7·5	5·2	5·3	+2·1	0	17	0	0	1	0	0	0	0	0	0
Madras	27·6	..	33·0	1	22·3	..	19·4	28	239·5	903·7	..	150·4	11	20	..	..	..	..	0	23	0	0	5	1	0	0	1	0	0
Madras (Nungambakkam).	27·5	−2·2	32·3	1	22·5	+0·3	19·8	28	255·1	807·8	+453·2	178·4	11	20	+8·9	16·3	11·3	−3·7	0	23	0	0	11	0	0	0	1	1	0
Coastal Mysore																													
Karwar	27·6	..	31·7	1	22·2	..	19·8	28	..	349·5	..	209.6	11	18	..	..	6·4	..	1	20	0	0	6	0	0	0	0	1	0
Honavar	32·1	..	34·4	4	22·6	..	19·4	30	21·9	24·3	−24·5	18·3	8	2	−0·8	8·7	5·9	..	0	3	0	0	0	0	0	0	0	0	0
Mangalore	32·9	+0·2	35·2	27	22·6	+0.7	19·8	27,30	1·5	16·5	−45·0	7.6	8	3	+0.1	8·1	6·7	+2·5	0	6	0	0	6	0	0	0	0	0	0
Mangalore (Bajpe Aerodrome).	31·1	+0·1	33·8	7	23·1	0	20·7	28	14·8	85·0	+12·6	22.8	15	9	+4·6	8·6	7·3	+0·9	1	12	0	0	0	0	0	0	0	0	0
Interior Mysore (North)																													
Bidar	31·1	..	33·0	7	22·4	..	19·2	28	28·0	207·1	..	72·2	15	11	..	7·2	5·4	..	0	17	0	0	13	5	0	0	0	0	0
Gulbarga	27·5	−0·6	30·5	24	18·2	+0·1	15·4	20	51·4	60·6	+33·8	21·0	11	4	+2·3	13·1	(b) 9·4	+0.5	0	5	0	0	0	0	0	0	0	0	0
Bijapur	30·7	0	32·2	1,24	18·5	+1·2	14·0	20	3·2	18·6	−9·3	12·8	8	3	+1·3	12·1	11·5	+2·0	0	3	0	0	0	0	0	0	3	0	0
Belgaum	29·5	−0·3	32·2	25	18·5	+1·4	15·0	20	13·8	59·0	+26·7	24·2	6	3	+1·2	4·7	2·9	−1·0	0	6	0	0	0	0	0	0	0	0	0
Belgaum (Sambre Aerodrome).	29·7	+0·3	31·9	18	17·7	+0·9	13·3	20	3.4	14.4	−25·0	6·0	2	2	−0·4	8·7	7·0	+0·9	0	4	0	0	0	0	0	0	0	0	0
Gadag	29·0	..	30·6	24	17·8	..	13·1	27	1·3	5·9	..	4·1	6	1	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Raichur	30·2	+0·8	32·3	29	19·2	+1·0	16·1	20,28	0	0	−45·2	0	..	0	−3·0	11·4	8·4	+1·5	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	29·8	−0·5	32·2	24	20·6	+0·8	13·2	30	4·8	11·4	−18·1	3.8	5	3	+1·2	11·4	9·4	+0·7	1	4	0	0	0	0	0	0	0	0	0
Chitaldruga	29·6	−1·0	31·6	1,24	..	..	..	..	4.0	14.0	−36·0	10·0	21	2	−1·1	9·6	6·1	+2·2	0	2	0	0	0	0	0	0	0	0	0
Shimoga	26·9	−1·5	29·6	24	19·0	+0·7	13·8	27	13·6	21·3	−38·9	9·0	5	3	−0·4	8·4	6·5	+0·5	0	8	0	0	0	0	0	0	0	0	0
Balehonnur	28·2	..	30·4	24	18·6	..	12·8	27	14.5	57·7	..	17·0	24	6	..	9·1	5·3	..	0	8	0	0	0	0	0	0	0	0	0
	25·0	−1·1	26·9	23,24	17.0	+0.6	12.8	28,29	..	171·1	+99·0	35.6	9	9	+4·3	..	..	..	0	14	0	0	0	0	0	0	0		0

*Data copied from weather telegrams.

(b) Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimeters					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Interior Mysore (South)—*Contd.*																													
Hassan	25·2	−1·9	27.3	2,24	17.6	+1.3	11.6	28	20.6	118·2	+41.2	36.8	10	8	+3.4	8.3	(b) 5.5	+1.0	0	12	0	0	3	0	0	0	0	0	0
Mysore	5.7	-1.2	28 5	2	19.0	+1.0	13.8	29, 30	15.0	64.2	+45·4	16.5	21	8	+3.8	11.7	16.5	+8.5	0	11	0	0	0	2	0	0	0	0	0
Bangalore (Central Observatory).	24·6	−1·7	27·3	24	17·8	+1·3	12·4	28	51.1	113.5	+45·7	33.9	1	8	+3·5	10·6	7·9	+0·8	2	16	0	0	0	0	0	0	0	0	0
Bangalore (Aerodrome).	25·1	..	27 8	1	18.1	..	13.5	28	61.3	154.0	..	62.6	1	10	..	..	..	..	1	18	0	0	0	0	0	0	0	0	0
Kerala																													
Kozhikode	30·1	−0·6	31·9	7	22·5	−0·8	19 3	28	43.3	301.1	+162 4	48.8	16	14	+7·8	10·8	9·0	+2·9	0	18	0	0	13	0	0	0	0	0	0
Palghat	30·8	..	33·2	30	22·5	..	19 4	30	34.8	205.2	.	50.4	1	10	..	8 9	6 8	..	0	17	0	0	4	0	0	0	0	0	0
Fort Cochin	28·3	−1·5	31·3	7	24·2	+0·1	22 9	14	29.1	235·2	+65·3	72 8	26	14	−5 6	10·3	8·2	+2·9	0	21	0	0	13	0	0	0	0	0	0
Cochin (Naval Air Station).	30·1	..	31·7	7,24	23.7	..	21·7	29	12.1	225·6	..	55·2	26	15	..	10·4	8·8	..	0	19	0	0	16	0	0	0	0	0	0
Alleppey	29·7	..	31·8	4	23·3	..	22·1	15	26.1	384·7	..	58·4	20	17	..	12 9	10·3	..	0	20	0	0	9	0	0	0	0	0	0
Punalur	30·8	..	33·0	30	20·9	..	19·0	6	326.9	701·5	..	129·2	1	20	..	3·7	2·3	..	0	20	0	0	1	0	0	0	0	0	0
Trivandrum	28 9	−1·2	31·3	30	22·7	−0·4	21·6	29	197.3	442·5	+265·2	116·0	26	14	+4·5	6.8	5·4	+1·2	1	23	0	0	10	1	0	0	0	0	0
Trivandrum (Aerodrome).	29·4	..	31·2	30	22·8	..	21·6	29	..	334·7	..	81·6	1	15	..	..	5·8	..	1	21	0	0	4	0	0	0	0	0	0
Arabian sea Islands																													
Minicoy*																													
Amini Divi*																													
Hill Stations excluding Kashmir																													
Walong (R)																													
Kohima	18·8	..	20.6	21	12·4	..	9·9	26	6.4	51.0	..	44.6	1	2	..	..	..	..	0	2	0	0	0	2	0	0	0	0	0
Aijal	23·4	..	26·2	30	15·2	..	7.8	1	0	87.4	..	86.0	1	1	..	4·9	5·8	..	0	2	0	0	1	0	0	0	0	0	0
Shillong	18·9	0	23·1	29	8·1	+0·2	4·0	27	5.4	36.0	−4·9	29.4	15	2	−0·7	2·8	2·1	+0·2	0	4	0	0	0	0	0	0	0	0	0
Cherrapunji (R)																													
Darjiling (Raj Bhawan).	15·3	+0·9	16·9	3,5	6·9	−0·3	4.4	30	0	0	−20 5	0	..	0	−1·2	0·5	0.4	−1·0	0	0	0	0	0	3	0	0	0	0	0
Kalimpong	21·6	+2·3	26·8	4	10·8	−1·1	7.8	8	0	0	−18.0	0	..	0	−1·4	6·0	4.7	−5 8	0	0	0	0	0	0	0	0	0	0	0
Mukteswar (Kumaon).	15·8	+0.9	19·1	19	6·0	−0.1	2·1	30	0	0	−10·7	0	..	0	−0.7	10·6	10·1	+2·7	0	0	0	0	0	0	0	0	0	0	0
Nainital	15·2	..	18·4	3	5.0	..	1·1	29	4·0	4·0	..	4·0	29	1	..	9·5	7·6	..	0	1	0	0	0	0	0	0	0	0	0
Joshimath	16·7	..	19·5	12	5·0	..	1·2	29	2·6	8.5	..	6 2	29	1	..	4·9	5·9	..	0	2	0	0	0	0	0	0	0	0	0
Badrinath†																													
Lokpal	−0·6	..	1·8	25	−7·0	..	9·3	29, 30	..	11·0	..	10·0	29	1	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Mussooree	15.8	+0.5	20·5	13	5.9	−1·4	2.1	29	0	0	−4·3	0	..	0	−0·9	10.0	6 7	−0.5	0	0	0	0	1	0	0	0	0	0	0
Simla	14·6	0	17·5	3	6·7	−0·1	2·2	29	0·2	0·2	−13·0	0·2	29	0	−1·1	4·5	3·4	+1·4	1	0	0	0	0	0	0	0	0	0	0
Dharampore	..	..	..	..	..	..	..	..	..	0	−8·1	..	..	0	−0.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dalhousie	19.3	..	22.5	3	3.0	..	0·1	29	0	2·0	−17.3	2.0	29	0	−0.9	2.5	2.5	..	0	1	0	0	0	0	0	0	0	0	0
Dharamshala	20.4	..	23·8	13	10·9	..	7·8	30	0	1.6	..	1·6	29	0	..	6·1	4·8	..	0	1	0	0	0	0	0	0	0	0	0
Abu	25·7	+2·5	27·8	1,2	12·4	−1 9	7·3	30	0	0	−5.6	0	..	0	−0·4	2.6	2.4	−2.3	0	0	0	0	0	0	0	0	0	0	0
Pachmarhi	24.9	+1·3	26·3	16,22	7·6	−2·8	4·9	27	0	0	−18·8	0	..	0	−1·2	4.7	2·4	−0·7	0	0	0	0	0	0	0	0	0	0	0
Mahabaleshwar	24·4	+1·1	27·4	24,25	15·2	+0 3	13 5	1	15·3	19 8	−19·8	13.2	8	2	−0·4	11·3	12·1	0	0	3	0	1	1	0	0	0	0	0	0
Mercara	23·0	−0.9	26·2	2	16·2	+0.4	12 6	27	43·3	181.3	+55.1	21.6	9	13	+7.7	14.9	11·7	+5.1	0	15	0	0	0	0	0	0	0	0	0
Kodaikanal	14·1	−1·2	17·5	3	10·1	+0·4	7·9	19	142·6	436.3	+177.5	100·8	12	20	+7·2	13·2	13·9	+1·8	0	23	0	0	0	0	0	0	1	0	0
Ootacamund	16 9	−0·7	19·9	4	9·3	+0·4	5·0	27	91·2	233.0	+72·2	36.6	7	16	+5 5	1·7	0·7	−3 6	0	22	0	0	0	2	0	0	0	0	0
Coonoor	18·2	−1·2	21·9	29	13·2	+1 4	7·2	28	..	498·0	+23·8	84.0	22	18	+5 3	..	4·5	−0·5	0	23	0	0	0	0	0	0	0	0	0
Nepal																													
Kathmandu	22·1	..	23·9	1	6·7	..	3·3	30	0	0	..	0	..	0	..	1·3	0 9	..	0	0	0	0	0	13	0	0	0	0	0
Sikkim																													
Lachen	11·6	..	15 0	3	0·5	..	−1·1	25, 30	..	12·0	..	8.8	7	1	..	..	..	..	1	3	..	..	..	..	..	..	..	..	..
Tibet																													
Yatung (Chumbi) (R)																													
Ceylon																													
Colombo	29·0	−1·0	31·3	5	22·6	−0·6	20·7	29	192·0	528·0	+201·6	104·6	1	18	+4·4	..	..	..	0	22	0	0	0	0	0	0	0	0	0
Trincomalee	28·8	−0·7	31·7	11	23·8	+0·1	22·7	25	69·9	251·8	−95·2	33·5	12	18	+4·1	..	..	..	0	26	0	0	2	0	0	0	0	0	0
Batticoloa	29 6	..	31·7	19	23·7	..	21·3	23	59·2	282·6	..	107·2	13	12	..	..	..	..	0	19	0	0	6	0	0	0	0	0	0
Hambantota	30·0	+0 3	29 7	10	23·6	+0.3	21·9	24	130·1	206.4	+28·3	53·3	24	10	0	..	.	..	0	14	0	0	1	0	0	0	0	0	0
Mannar	28·6	..	31 2	4	24 3	..	22 6	20	103·8	398 3	..	66·0	17	17	..	..	..	..	0	24	0	0	5	0	0	0	0	0	0

(R) Register not received. *Data given as addenda in December 1960 issue. †Closed during winter month. (b) Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm.)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories.																													
Damodar Catchment.																													
Bokaro	27·9	..	30·2	7	10·9	..	6·5	30	0	1·8	..	1·8	1	0	..	..	..	..	1	0	0	0	3	0	0	0	0	0	0
Hazaribagh	24·8	..	26·7	2,3	11·4	..	7·8	29	0	0	..	0	..	0	..	6·7	3·7	..	0	0	0	0	0	0	0	0	0	0	0
Tilaiya	26·4	..	28·7	3	13·3	..	9·4	21	0	0	..	0	..	0	..	8·3	4·6	..	0	0	0	0	0	0	0	0	0	0	0
Ramgarh	28·1	..	30·1	2	12·1	..	5·4	23	0.2	0·2	..	0·2	4	0	..	2·4	1·5	..	1	0	0	0	0	0	0	0	0	0	0
Panchet Hills	28·8	..	31·2	16	15·6	..	11·7	30	0·4	9·6	..	6·8	2	1	..	6·7	4·7	..	3	1	0	0	0	0	0	0	0	0	0
Durgapur	28·8	..	30·8	11	15·7	..	11·9	30	0	0	..	0	..	0	..	8·2	6.5	..	0	0	0	0	0	0	0	0	0	0	0
Maithon	28·5	..	30·8	14,17	16·0	..	11·7	24,29, 30	1.4	6·2		4·8	1	1	..	..	..	..	1	1	0	0	0	0	0	0	0	0	0
Konar	..	..	..	..	..	..	..	..	0	0		0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Manahadi Catchment.																													
Hirakud	29·0	..	31·1	1	16·9	..	12·4	30	0·2	0·2	..	0·5	4	0	..	4·8	3·1	..	0	2	0	0	0	0	0	0	0	0	0
Khijrawan	26·6	..	29·4	2,23	12·7	..	5·2	30	1·0	1·0		1·0	5	0	..	(c) 5·1	2·5	..	0	1	0	0	0	0	0	0	0	0	0
Sonepur	29·3	..	31·7	7	..	..	..	..		0		0	..	0	..	..	2·8	..	0	0	..	..	..	..	..	..	..	..	..
Ginabahar	28·5	..	30·6	15	11·2	..	5.8	30	..	2·1		2·1	5	0	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Bhimkund	28·3	..	30·1	3	13·7	..	9·5	28	1·0	1·0		1·0	5	0	..	2·7	1·4	..	0	1	0	0	0	0	0	0	0	0	0
Narbada Catchment.																													
Punasa	31·4	..	34·2	22	12·0	..	9·8	27	0	0		0	..	0	..	5·5	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Bagra Tawa	29·3	..	31·5	23	10·3	..	7·4	27	0	0	..	0	..	0	..	3·8	2·2	..	0	0	0	0	0	0	0	0	0	0	0
Thikri	32·7	..	34·5	22	11·8	..	9·0	29	..	0		0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment.																													
Jhadol	..	..	..	..	..	..	..	..		0		0	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..
Dharoi	33·1	..	34·8	17	..	..	..	..	0	0		0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ganga Catchment.																													
Mukhim	17·7	..	19·9	3	6·9	..	2·6	29	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Tehri	26·5	..	29·0	3	7·8	..	4·3	29,30	0	0	..	0	..	0	..	3·0	1·8	..	0	0	0	0	1	0	0	0	0	0	0
Gandak Catchment																													
Gorkha (R)																													
Pokhara	23·5	..	26·0	1	11·4	..	8·6	30	0	5·1	..	5·1	1	1	..	5·1	4·1	..	0	1	0	0	1	0	0	0	0	0	0
Nawakot	24·6	..	26·5	5	11·2	..	8·8	30	0	0	..	0	..	0	..	.	..	..	0	0	..	.	..	..	..	..	..	..	..
Jomosom	15·2	..	18·8	3	1·4	..	−1·6	23	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	0	0·6	..	0·6	1	0	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Timure	19·9	..	22·2	1	5·8	..	2·7	30	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Gogra Catchment.																													
Dandeldhura	17·0	..	19·7	3	7·5	..	3·7	29	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	2	0	0	0	0	0
Munsiyari‡																													
Butwal	28·1	..	30·3	1	16·9	..	13·2	25	0	0	..	0	..	0	..		..	..	0	0	..	..	..	..	..	..	..	..	..
Bagmati Catchment.																													
Katmandu†																													
Kosi Catchment.																													
Chautara	22·0	..	24·0	1	10·3	..	7·2	30	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	2·8	10·8	..	4·8	23	3	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Okhaldunga	18·6	..	21·6	1	8·8	..	7·7	22,26	0	0	..	0	..	0	..	2·9	2·5	..	0	0	0	0	0	0	0	0	0	0	0
Barhkshetra	27·3	..	29·9	4	14·7	..	11·9	25	0	0·2	..	0·2	3	0	..	5·8	4·2	..	1	0	0	0	0	0	0	0	0	0	0
Angbung	22·6	..	25·1	4	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Taplejung	18·1	..	20·4	5	8·2	..	4·3	30	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Taplethok	22·8	..	25·2	6	10·8	..	8·6	27	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Wallungchung Gola	11·0	..	13·3	19	−1·1	..	−3·3	25	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bhojpur	18·9	..	21·8	1	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chainpur	22·1	..	24·0	4	13·0	..	11·2	28	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Tista Catchment.																													
Gangtok	18·3	..	20·2	9	8·1		5·3	30	0	0	..	0	..	0	..	2·9	2·6	..	0	0	0		0	3	0	0	0	0	0
Geyzing	22·4	..	25·0	4	9·1		5·1	30	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..

.. Data not available †Data included under 'Nepal.' (R) Register not received. (c) Mean . 28 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1960 (KARTIKA 10—AGRAHAYANA 9, 1882 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1012·1	1009·0	..	28·4	25·5	24·2	30·4	78	..	4·7	..	7·8	0	0	24	0	20	1	3	0	0	0	0	6	0
	1730	"	1009·5	1006·4	..	27·6	24·8	23·7	29·0	80	..	4·6	..	9·3	0	0	29	0	22	3	4	0	0	0	0	1	0
Long Island	0830	25	1011·9	1009·1	..	28·3	26·1	25·0	32·0	82	..	4·7	..	1·7	0	0	11	0	0	0	1	2	1	0	1	19	6
	1730	"	1009·1	1006·3	..	26·7	25·0	24 2	30·3	86	..	5·4	..	0.3	0	0	2	0	0	0	0	0	0	0	0	28	2
Port Blair	0530	79	1010·4	1001.4	..	24·9	24·0	23·6	29·1	93	..	5·7	..	6·2	0	1	17	1	6	7	2	1	1	0	0	12	0
	0830	"	1012·1	1003.2	+0·1	28·3	25·6	24·3	29·7	79	+3	5·8	+1·2	7·7	0	0	27	1	11	11	2	1	1	0	0	3	0
	1130	"	1010·3	1001·5	..	29·1	26·1	24·8	31·4	78	..	6·3	..	9·7	0	0	29	1	6	16	3	3	0	0	0	1	0
	1730	"	1009·6	1000·7	..	26·4	24·6	23·9	27·9	87	..	6·0	..	7·7	0	0	26	0	9	13	0	2	1	1	0	4	0
	2330	"	1010·9	1001·9	..	25·5	24·3	23·7	29·5	90	..	5·6	..	6 7	0	0	21	0	2	14	2	2	0	1	0	9	0
Car Nicobar	0830	10	1011·7	1010·5	..	28·0	25·4	24·3	30·3	81	..	5·6	..	4·1	0	0	26	0	2	13	7	2	2	0	0	4	0
	1730	"	1009·3	1008·1	..	26·1	24·7	24·0	30·0	89	..	6·4	..	1·9	0	0	12	0	3	4	4	0	1	0	0	18	0
Nancowry	0830	26	1012·1	1009·2	..	27·0	25·3	24·6	31·0	87	..	6·6	..	3·6	0	0	11	0	0	0	1	0	9	1	0	19	0
	1730	"	1009·5	1006·6	..	25·8	24·7	24·1	30·1	91	..	7·2	..	2·4	0	0	10	0	0	0	0	0	8	2	0	20	0
Kondul	0830	8	1012·1	1011·7	..	26·7	24·9	24·1	30·2	86	..	5·9	..	3·6	0	0	18	0	18	0	0	0	0	0	0	12	0
	1730	"	1009·4	1008·5	..	25·5	24·3	23·9	29·5	91	..	6·7	..	2·2	0	0	11	0	10	1	0	0	0	0	0	19	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1016.5	998·3	..	20·7	16·9	14·1	16·3	62	..	3·4	..	21·3	0	15	14	2	0	0	0	1	1	0	25	1	0
	1730	"	1012·6	994·6	..	20·5	17·6	15·6	17·8	74	..	3·3	..	5·6	0	1	16	2	0	0	0	0	1	0	14	13	0
Digboi	0830	..	..	..	..	19·0	17·0	15·6	17·7	82	..	..	..	..	..	..	..	7	3	1	5	6	6	0	2	0	0
	1730	..	..	..	..	21·7	18·1	15·6	17·8	69	..	..	..	..	..	..	..	8	8	2	1	3	4	3	1	0	0
Dibrugarh	0830	106	1016·1	1003·9	−0·5	22·2	18·9	16·7	19·1	72	−10	2·4	−0·2	1·8	0	0	17	1	5	9	0	1	1	0	0	13	0
	1730	"	1011·8	999·6	..	22·3	19·1	17·1	19·8	73	..	1·4	..	0·1	0	0	1	1	0	0	0	0	0	0	0	29	0
Dibrugarh (Mohanbari Aerodrome)	0230	111	1013·5	1000·4	..	15·0	14·7	14·3	16·5	96	..	2·6	..	0·3	0	0	1	0	1	0	0	0	0	0	0	29	0
	0530	"	1014·5	1001·4	..	14·1	13·8	13·5	15·5	97	..	3·4	.	0·1	0	0	1	0	0	0	0	0	0	1	0	29	0
	0830	"	1016·4	1003·6	..	21·2	18·7	17·0	19·5	77	..	3·4	..	4·0	0	0	25	0	15	7	1	0	1	0	1	5	0
	1130	"	1013·5	1001·3	..	25·4	19·5	15·5	16.6	56	..	3·1	..	5·2	0	0	26	0	20	4	1	0	1	0	0	4	0
	1730	"	1012·4	999·7	..	20·3	18·2	16·8	19·3	80	.	2·5	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	2330	"	1014·0	1001·0	..	15·6	15·1	14·5	16·7	94	..	2 3	..	0·4	0	0	3	0	2	0	0	0	0	1	0	27	0
North Lakhimpur	0830	102	1016·4	1004·6	..	21·7	18·7	16·2	19·1	73	..	1·8	..	0·8	0	0	28	8	6	9	4	0	1	0	0	2	0
	1130	"	1014·2	1002·5	..	26·1	20·1	16·3	18·7	56	..	1·8	..	5·0	0	0	30	0	2	11	11	4	1	1	0	0	0
	1730	"	1012·5	1000·8	..	20·7	18·7	17·5	20·0	82	..	2·0	..	0·6	0	0	6	1	5	0	0	0	0	0	0	24	0
Sibsagar	0830	97	1016·0	1004 9	−0·5	21·7	19·4	17·9	20·8	80	..	5·6	+0·2	0·9	0	0	7	0	3	1	2	0	1	0	0	25	0
	1730	"	1012·4	1001·7	..	23·1	20·2	18·4	21·4	76	..	2·9	..	0·2	0	0	2	0	0	0	1	0	1	0	0	26	0
Jorhat	0530	90	1014·0	1003·5	..	15·8	15·7	15·1	17·8	100	..	3·0	..	0·3	0	0	1	0	1	0	0	0	0	0	0	29	0
	0830	"	1014·8	1005·6	..	21·3	19·4	18·7	21·0	86	..	3·4		3·6	0	0	17	4	8	3	1	0	0	0	1	13	0
	1130	"	1013·7	1003·6	..	26·0	21·9	19·6	23·0	68	..	3·0	..	8·0	0	0	29	5	16	7	0	0	0	1	0	1	0
	1730	"	1011.8	1001·5	..	21·3	19·9	19·1	22·2	86	..	3·0	..	1·3	0	0	6	3	3	0	0	0	0	0	0	24	0
	2330	"	1013·3	1003·7	..	16·8	16·7	16·6	19·2	99	..	1·5	..	0·5	0	0	3	0	2	0	0	0	0	0	1	27	0
Golaghat*	0830	..	..	..	..	21·8	19·1	17·3	19·8	76	..	3·4	..	3·4	0	0	0	0	0	0	0	0	0	0	0	29	0
	1730	..	..	..	..	23·8	19·9	17·8	20·0	70	..	(h) 3·4	..	0	0	0	0	0	0	0	0	0	0	0	0	(h) 23	0
Gohpur	0830	..	..	..	..	21·0	19·1	17·8	20·5	83	..	(b) 4·2	..	(b) 2·8	0	0	27	0	0	27	0	0	0	0	0	2	0
	1730	..	..	..	..	23·2	20·3	18·6	21·4	75	..	(b) 1·1	..	(b) 1.7	0	0	16	0	0	16	0	0	0	0	0	13	0
Tezpur	0830	79	1016·4	1007·4	−0.5	20·8	19·0	18·0	20·5	83	+2	1·6	−0·7	1·8	0	0	18	0	12	5	1	0	0	0	0	12	0
	1730	"	1014·1	1004·0	..	22·3	21·0	20·3	23·8	87	..	1·2	..	0·7	0	0	8	0	3	4	0	1	0	0	0	22	0
Mazbat	0830	..	..	..	..	..	..	..	..	..	..	1·9	..	4·8	0	0	29	1	11	14	2	1	0	0	0	1	0
	1730	..	..	..	..	..	..	..	..	..	..	1·6	..	2.4	0	0	22	21	0	0	0	0	0	0	1	8	0
Charmukh ‡‡	0830	..																									
	1730	..																									
Tangla	0830	78	1015·7	1006·7	..	22·1	18.9	17·0	19·2	73	..	1·2	..	0·4	0	0	4	0	0	3	1	0	0	0	0	26	0
	1730	"	1012·2	1003·2	..	21·5	19·9	18·4	21·9	81	..	0·9	..	0·8	0	0	0	0	0	0	0	0	0	0	0	30	0
Gauhati	0830	55	1015·8	1009·3	−0·4	20·8	19·2	18·3	20·9	87	+1	1·5	−1·1	0·2	0	0	2	0	1	1	0	0	0	0	0	28	0
	1730	"	1018·8	1005·4	..	24·6	20·9	18·6	21·9	70	..	2·0	..	0·1	0	0	1	0	0	1	0	0	0	0	0	29	0

‡‡ Temporarily closed. (b) Mean of 23 days. (b) Mean of 29 days. * Observations for 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—*Contd.*																											
Gauhati (Bhorjor Aerodrome)	0230	54	1012·9	1006·6	..	17·7	17·4	17·1	19·7	97	..	1·6	..	0·6	0	0	3	1	0	1	0	0	1	0	0	27	0
	0530	"	1014·0	1007·7	..	16·6	16·3	16·1	18·3	97	..	2·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	0830	"	1015·9	1009·6	..	21·6	19·5	18·3	20·8	82	..	2·7	..	1·9	0	0	10	1	8	0	0	0	0	0	1	20	0
	1130	"	1013·7	1007·4	..	25·9	21·5	19·0	21·5	66	..	2·6	..	4·0	0	0	20	4	14	1	0	0	0	0	1	10	0
	1730	"	1011·7	1005·5	..	23·0	21·3	20·4	24·1	85	..	2·5	..	0·6	0	0	4	0	3	0	0	0	1	0	0	26	0
	2330	"	1013·7	1007·4	..	18·5	18·1	17·8	20·5	96	..	1·7	..	0·2	0	0	1	0	0	1	0	0	0	0	0	29	0
Rangiya	0830	..	..	..	..	23·2	19·7	17·5	20·0	70	..	1·1	.	6·0	0	0	29	0	11	16	1	0	0	1	0	1	0
	1730	..	..	..	..	24·9	21·4	19·5	22·8	73	..	0·6	..	0·7	0	0	5	0	1	2	0	0	0	1	1	25	0
Goalpara	0830	38	1014·9	1010·5	..	22·4	19·2	17·1	19·5	73	..	(b) 1·4	..	(b) 3·2	0	0	26	1	18	1	1	0	1	1	3	3	0
	1730	"	1011·1	1006·7	..	26·7	22·6	20·3	24·0	69	..	(c) 0·9	..	(c) 2·0	0	0	14	0	5	3	0	0	0	0	6	14	0
Dhubri	0830	35	1016·4	1012·3	+0·4	21·2	19·9	18·5	22·3	86	+7	0·7	−1·0	0·6	0	0	5	0	5	0	0	0	0	0	0	25	0
	1730	"	1012·4	1008·3	..	23·8	20·7	18·9	21·9	74	..	0·4	..	0·2	0	0	2	0	2	0	0	0	0	0	0	28	0
Dhubri (Rupsi Aerodrome)	0530	36	1013·0	1008·8	..	15·3	15·2	14·8	16·8	94	..	1·6	..	0·8	0	0	3	0	1	2	0	0	0	0	0	27	0
	0830	"	1015·1	1011·0	..	22·1	19·3	17·4	20·2	75	..	1·0	..	3·4	0	0	22	0	7	11	3	0	1	0	0	8	0
	1130	"	1013·3	1009·2	..	26·2	20·6	17·3	19·8	58	..	1·5	..	4·0	0	0	20	2	4	10	3	0	0	1	0	10	0
	1730	"	1011·3	1007·2	..	21·0	19·3	18·2	21·1	85	..	0·8	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Tura	0830	370	1017·4	974·9	..	19·6	16·7	14·1	16·6	73	..	1·7	..	4·4	0	0	28	0	2	12	10	4	0	0	0	2	0
	1730	"	1013·5	971·9	..	24·0	19·9	17·6	20·0	68	..	3·6	..	2·7	0	0	23	3	1	3	3	5	3	1	4	7	0
Agartala	0230	16	1011·9	1010·0	..	17·3	16·3	16·3	18·6	94	..	1·6	..	1·1	0	0	8	2	1	1	3	1	0	0	0	22	0
	0530	"	1012·7	1010·8	..	16·5	16·0	15·6	17·8	95	..	2·3	..	0·9	0	0	8	1	0	2	4	1	0	0	0	22	0
	0830	"	1014·5	1012·7	..	23·0	20·1	18·3	21·2	76	..	2·5	..	2·9	0	0	17	6	7	2	0	0	1	1	0	13	0
	1130	"	1012·9	1011·1	..	26·8	20·4	16·3	18·8	53	..	3·2	..	6·5	0	0	28	8	8	2	0	0	1	3	6	2	0
	1730	"	1011·2	1008·4	..	23·6	20·4	18·4	21·5	73	..	2·4	..	1·5	0	0	13	4	1	1	1	0	0	2	4	17	0
	2330	"	1012·6	1010·7	..	18·4	17·6	16·9	19·4	92	..	1·5	..	0·6	0	0	5	1	1	2	0	0	0	0	1	25	0
Kailashar	0530	29	1013·8	1010·4	..	17·1	16·4	15·9	18·1	94	..	1·5	..	0·2	0	0	2	1	1	0	0	0	0	0	0	28	0
	0830	"	1015·7	1012·4	..	21·6	19·6	18·3	21·2	82	..	3·2	..	0·9	0	0	9	3	0	0	1	2	0	1	2	21	0
	1130	"	1013·9	1010·7	..	26·7	21·3	18·2	21·1	65	..	3·9	..	4·6	0	0	28	16	7	1	0	1	0	2	1	2	0
	1730	"	1012·3	1008·9	..	23·7	21·1	19·7	23·0	78	..	2·6	..	0·1	0	0	1	0	0	0	1	0	0	0	0	29	0
Silchar	0830	29	1015·5	1012·1	−0·2	22·5	19·9	18·3	21·3	77	−3	3·1	+0·6	1·1	0	0	11	0	3	3	3	2	0	0	0	19	0
	1730	"	1011·8	1008·4	..	24·0	21·0	19·2	22·4	75	..	1·6	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Silchar (Kumbhigram Aerodrome)	0530	97	1012·3	1001·0	..	17·1	16·2	15·5	17·8	91	..	3·1	..	6·8	0	0	25	0	2	23	0	0	0	0	0	5	0
	0830	"	1014·0	1002·8	..	21·9	18·9	17·1	19·3	75	..	3·2	..	7·9	0	0	28	0	0	21	6	0	0	1	0	2	0
	1130	"	1011·8	1000·9	..	26·5	20·6	17·0	19·6	57	..	2·5	..	6·5	0	0	29	0	0	12	6	2	6	3	0	1	0
	1730	"	1010·1	999·1	..	24·5	20·7	18·4	21·4	69	..	2·7	..	1·8	0	0	14	1	1	1	0	1	2	5	3	16	0
Imphal	0530	801	1015·9	926·1	..	11·5	11·2	11·0	13·1	97	..	4·5	..	0·3	0	0	3	0	0	0	0	0	1	2	0	27	0
	0830	"	1017·6	927·8	..	18·0	15·5	13·7	16·5	78	..	4·0	..	1·9	0	0	17	0	0	1	3	8	4	1	0	13	0
	1130	"	1013·5	925·5	..	22·7	17·5	13·9	16·2	58	..	4·4	..	4·0	0	0	29	0	1	1	3	12	9	1	2	1	0
	1730	"	1013·1	923·8	..	18·1	15·9	14·3	16·5	79	..	3·2	..	3·1	0	0	17	1	0	0	1	2	4	4	5	13	0
	2330	"	1016·8	925·8	..	13·4	12·9	12·4	14·5	95	..	3·5	..	0·3	0	0	2	0	0	0	0	0	2	0	0	28	0
Haflong	0830	682	1015·6	939·1	..	19·4	17·1	15·8	18·2	81	..	3·0	..	2·1	0	0	30	6	16	0	1	1	3	1	2	0	0
	1730	"	1011·0	934·8	..	20·1	17·6	16·1	18·2	78	..	2·9	..	3·2	0	0	31	0	0	0	1	0	14	1	14	0	0
Lumding	0830	149	1015·8	998·5	..	20·1	18·6	17·7	19·7	86	−3	3·0	..	2·2	0	0	11	0	4	3	3	0	0	0	1	19	0
	1730	"	1011·2	994·2	..	23·9	21·1	19·4	22·8	76	..	2·4	..	0·3	0	0	4	0	2	1	1	0	0	0	0	26	0
Sub-Himalayan West Bengal																											
Cooch Behar	0830	43	1015·9	1010·9	..	21·9	18·8	16·4	19·2	73	..	0·8	..	5·7	0	0	26	0	12	13	1	0	0	0	0	4	0
	1130	"	1014·0	1009·1	..	26·6	20·3	16·5	18·6	54	..	1·4	..	5·6	0	27	0	0	4	12	1	0	0	1	0	3	0
	1730	"	1012·0	1007·1	..	21·8	19·3	17·7	20·1	77	..	0·8	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Jalpaiguri	0830	83	1015·9	1006·3	0	19·7	17·6	16·2	18·2	81	+1	(d) 0·6	−0·5	(d) 3·9	0	0	19	11	0	0	0	1	0	0	7	8	0
	1730	"	1011·9	1002·4	..	24·7	20·0	17·1	19·5	63	..	(c) 0·5	..	(c) 1·2	0	0	11	0	1	2	3	2	2	1	0	17	0
Bagdogra	0230	131	1013·0	997·6	..	16·0	15·0	14·2	16·1	88	..	0·7	..	2·0	0	0	19	11	1	0	0	0	0	1	6	11	0
	0530	"	1013·9	998·4	..	13·9	13·5	13·1	15·2	95	..	1·5	..	2·4	0	0	18	15	2	0	0	0	0	0	1	12	0
	0830	"	1015·7	1000·6	..	22·4	18·8	16·5	18·8	69	..	1·3	..	2·7	0	0	17	2	3	9	2	1	0	0	0	13	0
	1130	"	1013·8	999·0	..	26·8	20·0	15·7	18·0	51	..	2·2	..	5·6	0	0	29	1	3	6	7	1	6	5	0	1	0
	1730	"	1012·1	996·9	..	20·6	19·0	18·1	20·5	86	..	2·2	..	1·3	0	0	11	4	0	0	0	0	2	5	0	19	0
	2330	"	1013·8	998·5	..	18·0	16·2	15·1	17·0	83	..	1·1	..	2·5	0	0	17	12	1	0	0	0	0	0	3	13	1

(b) Mean of 29 days. (c) Mean of 28 days. (d) Mean of 27 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan (West-Bengal)—*Contd.*																											
Malda	0830	31	1016·0	1012·3	+0·3	22·4	17·7	14·1	15·2	60	−12	1·3	+0·5	7·3	0	0	29	12	1	3	1	1	2	1	8	1	0
	1730	,,	1012·2	1008·6	..	24·1	19·2	16·0	18·2	60	..	1·0	..	3·5	0	0	22	2	0	0	0	0	2	8	10	8	0
Gangetic West Bengal																											
Dum Dum	0230	6	1012·7	1011·9	..	17·5	16·8	16·4	18·8	93	..	1·4	..	0·8	0	0	8	4	1	0	0	0	0	0	3	22	0
	0530	,,	1013·6	1012·8	..	16·8	16·1	15·6	17·9	93	..	2·3	..	0·8	0	0	8	4	1	0	0	0	0	0	3	22	0
	0830	,,	1015·6	1014·8	..	22·4	18·7	16·2	18·6	68	..	2·1	..	3·1	0	0	26	12	6	0	0	0	0	3	5	4	0
	1130	,,	1014·0	1013·3	..	27·0	19·5	14·4	16·6	46	..	2·0	..	4·7	0	0	30	17	5	0	0	0	0	3	4	0	1
	1730	,,	1012·0	1011·2	..	23·8	19·8	17·4	19·9	67	..	2·3	..	0·9	0	0	8	5	0	0	1	0	0	0	2	22	0
	2330	,,	1013·5	1012·7	..	18·5	17·5	16·9	19·5	90	..	1·4	..	0·8	0	0	7	2	0	0	2	0	0	0	3	23	0
Calcutta	0830	6	1015·2	1014·5	0	23·3	18·5	15·2	17·4	61	−15	1·7	−0·1	3·5	0	0	20	8	5	0	0	0	0	0	7	10	0
	1130	,,	1013·6	1012·9	..	27·6	19·6	14·1	16·2	44	..	1·9	..	7·2	0	0	30	9	7	2	0	0	0	1	11	0	0
	1730	,,	1011·8	1011·1	..	24·3	19·1	15·5	19·0	59	..	1·9	..	2·0	0	0	15	5	3	0	0	0	0	0	7	15	0
Barrackpore (Aerodrome)	0530	7	1013·9	1013·1	..	17·2	16·2	15·5	17·6	91	..	1·9	..	1·4	0	0	6	3	0	0	0	0	1	0	2	24	0
	0830	,,	1016·0	1015·2	..	22·2	19·3	17·0	20·1	75	..	2·1	..	6·2	0	0	22	9	2	1	0	0	1	1	8	8	0
	1130	,,	1014·5	1013·7	..	26·8	21·4	18·1	21·3	60	..	2·1	..	9·7	0	0	27	5	4	0	1	0	1	2	14	3	0
	1730	,,	1012·9	1011·7	..	23·4	20·3	18·4	21·4	74	..	2·0	..	1·8	0	0	9	4	0	0	0	0	0	0	5	21	0
	2330	,,	1013·9	1013·1	..	20·7	19·2	18·1	21·2	86	..	1·1	..	0·1	0	0	1	0	0	0	0	0	0	0	1	29	0
Saugar Island	0830	3	1014·4	1014·6	+0·1	23·4	20·2	18·2	21·1	73	−2	2·7	+0·1	13·4	0	2	28	14	9	1	0	0	0	0	6	0	0
	1730	,,	1011·5	1011·2	..	24·5	20·6	18·3	21·2	69	..	3·1	..	9·7	0	0	30	11	9	1	0	2	3	1	3	0	0
Sandheads	0530	10	1012·6	1011·4	..	25·2	20·4	17·6	19·9	63	..	2·1	..	9·5	0	1	28	15	5	1	0	0	0	2	6	1	0
	0830	,,	1015·1	1014·0	+0·6	26·0	21·1	18·0	21·0	62	0	2·3	−0·5	10·8	0	0	29	16	9	0	0	0	0	1	3	1	0
	1130	,,	1013·9	1012·8	..	26·9	21·1	17·5	20·3	57	..	1·9	..	12·1	0	0	30	15	10	0	0	0	0	2	3	0	0
	1730	,,	1011·7	1010·6	..	26·8	20·9	17·3	20·0	57	..	2·0	..	7·0	0	0	20	11	4	1	0	0	0	1	3	10	0
	2330	,,	1013·3	1012·2	..	25·7	20·6	17·6	20·2	61	..	1·1	..	8·1	0	0	22	13	6	1	0	0	0	1	1	8	0
Contai	0830	11	1015·2	1014·0	..	22·5	18·4	15·5	17·8	65	..	1·3	..	2·4	0	0	23	16	3	1	0	0	0	0	3	7	0
	1730	,,	1011·8	1010·7	..	25·1	20·1	16·8	19·4	61	..	1·2	..	0·4	0	0	4	2	1	0	0	1	0	0	0	26	0
Midnapore	0830	45	1015·7	1010·4	+0·4	22·2	17·5	14·1	16·2	61	−5	1·6	−0·2	2·5	0	0	22	12	9	1	0	0	0	0	0	8	0
	1730	,,	1011·9	1006·7	..	25·9	18·6	13·3	15·6	47	..	1·6	..	0·3	0	0	3	2	1	0	0	0	0	0	0	27	0
Purulia	0830	255	1016·8	987·4	..	20·1	15·5	11·5	14·0	59	..	1·8	..	3·2	0	0	28	0	0	0	0	0	1	11	16	2	0
	1730	,,	1012·6	983·8	..	23·9	17·6	12·8	14·9	51	..	1·9	..	0·6	0	0	6	0	1	0	0	0	0	0	5	24	0
Burdwan	0830	32	1015·8	1012·0	+0·3	21·3	18·2	16·2	18·4	72	+3	1·5	−0·2	2·8	0	0	21	1	2	0	0	0	2	0	16	9	0
	1730	,,	1011·6	1007·8	..	24·6	21·1	19·0	22·0	71	..	1·4	..	0·2	0	0	2	0	1	0	0	0	0	0	7	28	0
Krishnagar	0830	15	1015·8	1014·1	+0·4	23·5	18·8	15·7	17·8	62	−7	1·1	−0·6	0·3	0	0	3	1	1	1	0	0	0	0	0	27	0
	1730	,,	1012·1	1010·4	..	24·0	18·9	15·9	17·7	60	..	0·9	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Asansol	0230	126	1013·7 (c)	999·0 (c)	..	17·4	16·0	14·9	17·0	87	..	1·7	..	2·0	0	0	9	1	0	0	0	0	0	1	7	21	0
	0530	,,	1014·5 (c)	999·7 (c)	..	16·1	15·4	14·7	15·8	92	..	2·0	..	2·6	0	0	14	4	0	0	0	0	0	6	4	16	0
	0830	126	1016·2	1001·5	+0·5	21·2	18·1	15·5	18·2	72	+3	1·4	−0·7	6·0	0	0	26	2	0	0	0	0	0	11	13	4	0
	1130	,,	1014·5	1000·2	..	27·1	20·4	16·2	18·6	52	..	1·6	..	6·7	0	0	25	6	1	0	0	0	0	3	15	5	0
	1730	,,	1012·3	997·9	..	24·0	19·0	15·7	17·9	61	..	2·1	..	1·4	0	0	10	3	1	0	1	0	0	1	4	20	0
	2330	,,	1014·6 (c)	999·9 (c)	..	18·5	16·4	14·8	18·0	79	..	1·3	..	1·7	0	0	9	2	1	0	0	0	0	1	5	21	0
Suri	0830	77	1016·1	1007·2	..	21·5	17·1	13·8	16·0	62	..	1·7	..	4·0	0	0	27	3	1	0	0	0	1	11	11	3	0
	1730	,,	1012·9	1004·0	..	24·5	18·2	13·6	15·7	51	..	1·3	..	2·1	0	0	16	1	2	2	2	1	1	3	4	14	0
Berhampore	0830	19	1015·2	1013·1	−0·3	21·1	17·8	15·6	17·7	72	−3	1·5	−0·3	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1011·9	1009·7	..	24·3	19·4	16·7	18·7	62	..	1·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Orissa																											
Baripada	0830	54	1016·8	1010·5	..	21·7	17·0	13·6	14·5	60	..	2·5	..	1·1	0	0	11	5	1	0	1	0	0	0	4	19	0
	1730	,,	1012·7	1006·5	..	24·3	18·6	14·7	16·9	56	..	1·8	..	0·4	0	0	4	2	0	0	0	0	0	0	2	26	0
Balasore	0830	20	1015·3	1013·0	0	21·5	17·7	15·0	17·2	67	−4	3·3	+1·1	2·7	0	0	25	17	1	0	0	0	0	1	6	5	0
	1730	,,	1011·9	1009·6	..	24·7	19·8	16·8	19·0	62	..	3·3	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Chandbali	0830	6	1014·7	1014·0	−0·3	21·5	19·1	17·6	20·1	78	+1	2·0	−0·7	4·8	0	0	29	6	4	0	1	0	0	0	18	1	0
	1730	,,	1011·6	1010·9	..	26·2	20·3	17·4	19·1	59	..	2·1	..	4·3	0	0	28	1	19	4	2	0	2	0	0	2	0
Cuttack	0830	27	1015·2	1012·1	−0·3	21·6	18·7	16·8	19·3	74	0	1·4	−1·1	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1011·6	1008·6	..	27·7	21·0	16·8	19·4	52	..	1·1	..	0·3	0	0	1	0	1	0	0	0	0	0	0	29	0
Bhubaneswar	0230	46	1013·0	1007·6	..	19·9	17·5	15·8	17·6	78	..	1·3	..	5·0	0	0	22	8	3	0	0	0	0	1	10	8	0
	0530	,,	1013·5	1008·1	..	19·0	16·9	15·2	17·5	79	..	2·4	..	7·6	0	0	29	17	4	0	0	0	0	1	7	1	0
	0830	,,	1015·6	1010·2	..	23·8	18·5	14·7	17·0	57	..	2·8	..	8·7	0	2	26	16	6	0	0	0	0	1	5	2	0

(c) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*Contd.*																											
Bhubaneswwa (*Contd.*)	1130	46	1014·2	1009·0	..	28·1	19·2	12.5	15·0	40	..	2·7	..	12·1	0	0	29	9	16	3	0	0	0	0	1	1	0
	1730	,,	1012·2	1007·0	..	25·8	19·3	14·7	17·0	52	..	3·7	..	6·8	0	0	28	7	9	8	0	0	0	0	4	2	0
	2330	,,	1014·1	1008·7	..	20·8	17·8	15·5	17·1	72	..	1·5	..	5·1	0	0	19	6	4	2	1	1	1	1	3	11	0
Puri	0830	6	1015·4	1014·7	+0.5	24·3	19·7	16·7	19·2	63	−9	3·0	+0·6	9·9	0	0	30	8	13	4	5	0	0	0	0	0	0
	1730	,,	1011·9	1011·2	..	26·4	20·6	17·0	19·5	57	..	7·0	..	9·8	0	4	26	4	11	2	11	2	0	0	0	0	0
Gopalpur	0530	17	1013·4	1011·4	..	19·4	18·0	17·0	19·5	85	..	3·3	..	7·9	0	0	30	15	0	0	0	0	0	0	15	0	0
	0830	,,	1015·6	1013·6	+0·7	23·1	19·5	17·2	19·8	70	−2	3·6	+1·4	11·5	0	0	30	16	0	0	0	0	0	0	14	0	0
	1130	,,	1014·4	1012.4	..	28·2	21·0	16·2	19·8	49	..	3·4	..	10·5	0	0	30	8	4	9	3	0	0	0	6	0	0
	1730	,,	1012·2	1010·2	..	26·3	20·8	16·9	20·0	57	..	4·6	..	9·6	0	0	30	3	7	13	6	0	0	0	1	0	0
	2330	,,	1014·0	1012·0	..	21·7	19·1	17·3	20·1	77	..	3·0	..	5·7	0	0	29	12	1	3	0	0	0	0	13	1	0
Koraput	0830	913	1550·6	915·7	..	19·8	16·2	13·3	15·8	70	..	2·1	..	3·5	0	0	30	1	6	4	12	4	3	0	0	0	0
	1730	,,	1552·2	915·6	..	21·1	16·0	12·1	14·8	59	..	2·9	..	4·5	0	0	30	11	9	0	2	0	0	0	8	0	0
Titilagarh	0830	211	1016·3	992·1	..	21·9	17·9	15·2	17·4	67	..	1·5	..	3·0	0	0	30	0	30	0	0	0	0	0	0	0	0
	1730	,,	1011·8	988.0	..	26·5	19·7	14·7	17·6	49	..	1·8	..	3·0	0	0	30	1	29	0	0	0	0	0	0	0	0
Bolangir	0830	190	1014·6	992.9	..	22·7	19·1	14·8	16·9	62	..	3·3	..	3·9 (b)	0	0	19	8	4	0	0	1	2	0	4	0	0
	1730	,,	1011·2	989·9	..	26·4	18·7	13·2	15·2	45	..	2·5	..	5·5 (b)	0	0	19	9	7	0	0	0	1	0	2	0	
Phulbani	0830	464	1014·6	961·6	..	17·4	15·3	14·1	15·9	80	..	0·9	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1010·6	958·7	..	23·4	18·0	14·0	16·7	57	..	1·6	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Angul	0830	139	1016·1	1000·0	+0·7	19·6	15·9	14·8	17·0	73	+1	2·6	−0·1	3·2	0	0	29	5	0	0	1	0	2	9	12	1	0
	1730	,,	1012·1	996·4	..	26·2	18·5	12·7	15·0	44	..	3·2	..	3·3	0	0	29	4	8	1	3	2	0	2	9	1	0
Keonjhar	0830	463	1016·5	961·5	..	20·7	15·5	11·6	13·8	57	..	2·1	..	3·1	0	0	26	9	0	1	0	0	2	1	13	4	0
	1730	[illegible]	1012·4	957·9	..	23·4	15·6	11·8	14·3	51	..	2·0	..	2·2	0	0	22	8	5	0	0	1	2	2	4	8	0
Sambalpur	0830	148	1016·5	999·4	+0·7	22·3	17·7	14·4	16·6	61	−11	2·4	+0·3	0·8	0	0	7	3	3	1	0	0	0	0	0	23	0
	1730	,,	1012·2	995·3	..	25·5	18·3	13·1	16·3	47	..	2·5	..	0·2	0	0	2	2	0	0	0	0	0	0	0	28	0
Jaharsuguda	0230	230	1013·9	987·1	..	16·0	14·8	13·8	15·0	88	..	2·5	..	3·0	0	0	26	24	1	0	1	0	0	0	0	4	0
	0530	,,	[illegible]	[illegible]	..	14·8	13·7	12·7	14·8	88	..	2·7	..	4·2	0	0	29	27	2	0	0	0	0	0	0	1	0
	0830	,,	1016·5	989·9	..	19·2	15·4	12·6	14·6	66	..	2·9	..	6·6	0	0	29	24	5	0	0	0	0	0	0	1	0
	1130	,,	1014·7	988·7	..	25·8	17·1	10·5	12·5	40	..	2·8	..	6·1	0	0	29	13	11	3	0	0	0	0	2	1	0
	1730	,,	1012·4	986·3	..	24·2	18·0	13·4	15·6	52	..	3·2	..	3·0	0	0	22	8	5	0	3	0	5	1	0	8	0
	2330	,,	1014·7	987·4	..	17·5	15·6	14·2	16·1	81	..	2·4	..	3·3	0	0	23	18	1	0	0	0	1	1	2	7	0
Chota Plateau																											
Jamshedpur	0830	129	1016·6	1001·5	+0·9	18·5	16·0	14·1	16·2	75	+4	1·8	−0·4	2·3	0	0	19	0	0	0	0	0	1	9	8	11	1
	1730	,,	1011·9	997·2	..	23·8	18·4	15·3	16·7	57	..	2·1	..	0·2	0	0	2	1	1	0	0	0	0	0	0	28	0
Jamshedpur (P.B.O.)	0530	142	1014·7	998·0	..	15·2	14·1	13·1	15·2	87	..	2·1	..	4·5	0	0	25	0	0	0	0	2	6	11	6	5	0
	0830	,,	1016·5	1000·0	..	19·4	15·9	13·2	15·2	68	..	1·9	..	5·4	0	0	29	1	0	0	0	1	6	14	7	1	0
	1130	,,	1014·7	998·6	..	25·5	17·5	11·3	13·5	42	..	1·9	..	8·0	0	0	30	0	2	1	0	1	2	13	11	0	0
	1730	,,	1012·3	996·2	..	24·9	18·1	12·9	15·1	48	..	2·3	..	3·7	0	0	23	5	0	1	0	0	1	6	10	7	0
	2330	,,	1014·6	998·0	..	17·2	15·3	13·7	15·8	81	..	1·6	..	4·1	0	0	26	0	0	0	1	0	5	9	11	4	0
Chaibasa	0830	226	1016·2	990·4	+0·8	20·3	15·3	13·3	14·7	64	−10	1·8	−0·2	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1012·2	986·5	..	23·5	17·4	13·0	14·9	53	..	2·3	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Panc	0830	655	1016·0	942·7	+1·0	20·3	15·3	11.7	13·7	58	0	1·0	−0·8	0·7	0	0	5	2	0	2	0	0	0	0	1	25	0
	1730	,,	1013·0	939·8	..	21·0	15·2	10·9	13·0	52	..	1·3	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Ranchi (C.W.O.)	0530	652	1015·7	941·0	..	13·8	10·6	7·7	10·5	65	..	2·4	..	2·0	0	0	17	3	0	1	0	0	0	2	8	13	3
	0830	,,	1015·8	942·5	..	19·8	13·1	7·2	10·1	45	..	2·2	..	4·4	0	0	28	19	5	0	0	0	0	1	2	2	1
	1130	,,	1014·2	941·8	..	22·8	13·8	5·9	9·2	34	..	2·5	..	7·5	0	0	28	11	6	2	0	0	0	1	5	2	3
	1730	,,	1012·4	939·9	..	22·1	14·2	7·6	10·4	39	..	2·4 (j)	..	6·3 (j)	0	0	18	10	2	2	0	0	0	0	3	3	1
Daltonganj	0830	221	1017·0	991·4	+0·5	19·6	15·5	12·3	14·3	63	−13	0·9	−0·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1012·6	987·5	..	24·1	17·6	13·3	14·8	52	..	1·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	1016·0	947·2	+0·8	20·3	14·1	9·3	11·5	49	−8	1·0	−0·5	4·8	0	0	19	4	2	0	0	0	0	0	13	11	0
	1730	,,	1013·0	944·3	..	20·2	14·6	10·1	12·4	53	..	1·7	..	5·3	0	0	28	5	0	0	0	1	0	0	22	2	0
Dhanbad (R)	0830																										
(R)	1730																										
Dumka	0830	149	1015·6	998·3	−0·3	20·8	17·1	14·4	16·3	67	0	0·7	−0·5	0·4	0	0	4	1	0	0	0	0	1	2	0	26	0
	1730	,,	1012·1	994·9	..	23·7	18·2	14·6	16·4	57	..	0·5	..	0·1	0	0	1	0	0	1	0	0	0	0	0	29	0
Bihar Plains																											
Purnia	0830	38	1016·1	1011·8	+0.2	21·2	18·1	15·8	18·3	72	−9	0·5	−0·5	0.7	0	0	7	0	0	1	0	0	3	3	0	23	0
	1730	,,	1012·1	1007·8	..	22·3	19·2	17·1	19·8	73	..	0·5	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Forbesganj	0830	61	1015·4	1008·4	..	20·8	18·0	16·1	18·4	75	..	0·5	..	0·9	0	0	9	0	1	2	1	0	0	2	3	21	0
	1730	,,	1011·7	1004·8	..	24·4	19·8	17·0	19·2	63	..	0·8	..	0·2	0	0	2	0	0	0	0	0	0	2	0	28	0
Darbhanga	0830	49	1016·0	1010·3	+0·2	23·7	18·4	15·5	16·9	56	−19	0·2	−0·8	2·7	0	0	28	3	0	3	1	4	3	7	7	2	0
	1730	,,	1012.4	1006·8	..	24·0	19·0	15·8	17·9	61	..	0·5	..	0·5	0	0	5	0	0	1	0	0	1	3	0	25	0

(R) Register not received. (b) Mean of 19 days. (j) Mean of 21 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—*Contd.*																											
Motihari	0830	66	1016·2	1008·6	+0·6	21·0	17·8	15·7	18·1	71	−4	0·1	−0·6	0·2	0	0	2	0	0	0	0	0	1	0	1	28	0
	1730	,,	1012·5	1004·8	..	22·9	19·2	16·9	19·4	68	..	0·1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Chapra	0830	..	..	..	..	19·9	16·2	13·3	15·4	67	..	0·7	..	0·2	0	0	1	0	0	0	0	0	0	1	0	29	0
	1730	..	..	..	..	24·4	18·5	14·4	16·5	53	..	0·9	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Patna	0830	53	1016·1	1009·9	−0·1	20·9	16·2	12·1	14·5	59	−6	0·6	−0·5	3·2	0	0	21	0	0	1	1	1	10	6	2	9	0
	1730	,,	1012·7	1006·6	..	23·7	17·2	12·1	14·4	49	..	0·8	..	1·9	0	0	16	0	0	1	0	1	3	11	0	14	0
Patna (Aerodrome)	0530	60	1013·7	1006·6	..	13·4	12·7	12·0	14·3	92	..	0·6	..	0·1	0	0	1	0	0	0	0	0	1	0	0	29	0
	0830	,,	1015·6	1008·7	..	19·0	15·9	13·5	15·6	70	..	0·7	..	4·5	0	0	17	0	0	0	0	0	8	7	1	13	1
	1130	,,	1014·6	1007·8	..	26·3	18·4	12·6	14·9	43	..	0·8	..	5·7	0	0	19	0	0	1	0	0	4	5	9	11	0
	1730	,,	1012·0	1005·2	..	24·1	18·3	14·2	16·3	55	..	1·2	..	0·1	0	0	1	0	0	0	0	0	0	1	0	29	0
	2330	52	1014·2	1008·2	..	19·0	16·7	15·3	17·2	80	..	0·6	..	0·1	0	0	1	0	0	0	0	0	0	0	1	29	0
Dehri	0830	107	1016·5	1004·0	..	20·6	16·1	12·8	14·7	61	..	0·7	..	3·0	0	0	30	0	0	0	1	5	20	2	2	0	0
	1730	,,	1012·2	1000·0	..	24·8	17·3	11·4	13·6	43	..	1·1	..	2·6	0	0	26	3	1	1	0	0	4	2	15	4	0
Gaya	0230	116	1014·4	1000·7	..	14·2	13·0	11·9	14·1	86	..	0·9	..	3·1	0	0	23	0	0	0	6	12	5	0	0	7	0
	0530	,,	1015·0	1001·2	..	12·8	11·7	10·6	12·8	87	..	0·6	..	4·2	0	0	27	0	0	0	6	15	6	0	0	3	0
	0830	,,	1017·0	1003·4	+0·9	18·6	15·3	13·1	14·7	68	+4	0·9	−0·3	4·8	0	0	27	0	0	0	1	11	15	0	0	3	0
	1130	,,	1015·7	1002·4	..	26·2	17·3	10·1	12·3	37	..	0·9	..	7·7	0	1	26	3	0	1	1	1	3	5	13	3	0
	1730	,,	1013·1	999·8	..	24·1	16·9	11·0	13·4	44	..	1·5	..	3·0	0	0	19	4	1	0	0	0	0	1	13	11	0
	2330	,,	[illegible]	1001·5	..	15·7	13·8	12·1	14·2	79	..	0·6	..	1·9	0	0	15	0	0	0	2	6	6	1	0	15	0
Jamui	0830	82	1016·4	1006·6	..	18·0	16·9	14·6	17·0	82	..	0·7	..	2·1	0	0	13	3	0	0	0	0	0	6	4	17	0
	1730	,,	[illegible]	1002·1	..	23·5	19·3	16·5	19·0	65	..	1·1	..	0·6	0	0	5	0	0	0	0	0	0	1	4	25	0
Bhagalpur	0530	[illegible]	[illegible]	1008·8	..	16·4	14·7	13·3	15·4	82	..	1·1	..	3·3	0	0	19	0	0	1	2	6	8	1	1	11	0
	0830	,,	[illegible]	1010·9	..	20·7	16·6	13·5	15·5	64	..	0·8	..	2·6	0	0	16	1	0	1	1	0	4	7	2	14	0
	1130	,,	1015·2	1009·6	..	24·9	18·3	13·6	15·6	50	..	0·9	..	6·2	0	0	25	1	1	1	0	0	0	10	12	5	0
	1730	,,	1012·9	1007·3	..	23·5	18·4	14·9	17·1	59	..	1·2	..	3·0	0	0	20	0	0	0	1	0	3	15	1	10	0
	2330	,,	1014·6	1008·9	..	19·0	16·1	13·7	16·1	72	..	1·0	..	3·0	0	0	16	0	0	0	0	1	10	5	0	14	0
Sabour	0830	37	1013·2	1011·8	+0·8	20·1	16·8	14·1	16·3	69	−7	0·8	−0·6	1·1	0	0	12	0	1	0	0	0	2	7	2	18	0
	1730	,,	1012·4	1008·1	..	22·8	19·3	16·9	19·5	71	..	1·3	..	0·2	0	0	2	0	0	0	0	0	0	0	2	28	0
Uttar Pradesh (East)																											
Gonda	0830	110	1016·4	1003·5	..	18·3	15·5	13·4	15·4	73	−2	0·1	−0·8	1·5	0	0	15	3	0	2	0	0	0	5	5	15	0
	1730	,,	1012·9	1000·3	..	22·0	16·9	13·3	15·3	58	..	0·2	..	0·4	0	0	4	0	0	0	0	0	0	1	3	26	0
Nautanwa	0830	99	1016·0	1004·3	..	18·2	16·5	15·2	17·3	82	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1012·0	1000·6	..	23·9	18·3	14·6	16·6	56	..	0·1	..	0·2	0	0	1	0	0	0	0	0	0	1	0	29	0
Gorakhpur	0830	77	1016·0	1007·0	+0·3	23·7	18·0	13·1	15·1	52	−21	0	−0·6	3·0	0	0	30	2	0	1	1	3	5	16	2	0	0
	1730	,,	1012·5	1003·5	..	26·8	19·0	12·6	19·9	44	..	0	..	2·9	0	0	29	1	1	0	0	3	5	17	2	1	0
Gorakhpur (P.B.O.)	0230	78	1013·2	1004·1	..	18·1	15·7	14·2	16·2	78	..	0·1	..	1·0	0	0	9	2	2	0	0	0	3	1	1	21	0
	0530	,,	1013·7	1004·5	..	16·7	14·6	13·3	15·3	81	..	0·3	..	1·0	0	0	9	2	2	1	0	1	2	1	0	21	0
	1130	,,	1015·1	1006·1	..	25·4	17·9	13·5	15·5	49	..	0·4	..	4·4	0	0	29	0	1	0	0	8	7	9	4	1	0
	2330	,,	1014·1	1004·9		19·2	16·2	14·3	16·3	74	..	0·2	..	0·8	0	0	6	0	0	0	0	1	0	3	2	24	0
Azamgarh	0830	78	1015·8	1006·6		17·8	15·3	13·1	15·1	75	..	0·2	..	..	0	0	29	0	0	2	0	0	0	27	0	1	0
	1730	,,	1012·2	1003·4	..	22·8	18·4	15·6	17·7	65	..	0·3	..	..	0	0	0	0	0	0	0	0	0	0	0	30	0
Ballia	0830	64	1016·3	1008·8	..	20·5	15·7	12·0	14·0	60	..	0·3	..	1·5	0	0	10	0	0	0	0	0	0	5	5	20	0
	1730	,,	1012·9	1005·6	..	25·2	19·8	16·0	18·2	58	..	0·5	..	0·1	0	0	1	0	0	0	0	0	0	1	0	29	0
Varanasi (Banaras)	0830	76	1016·2	1007·2	0	16·5	14·6	11·2	13·3	63	−5	0·7	−0·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1013·0	1004·3	..	24·2	16·9	11·1	13·2	35	..	1·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Varanasi (Banaras) Babatpur (Aerodrome).	0530	85	1016·1	1005·8	..	12·3	11·2	10·0	12·3	86		0·3	..	2·1	0	0	12	0	0	0	0	1	10	1	0	18	0
	0830	,,	1017·7	1007·7		19·1	14·8	11·2	13·3	61	..	0·6	..	7·4	0	0	29	0	0	0	0	0	20	9	0	1	0
	1130	,,	1016·5	1006·7		26·3	17·7	10·9	13·0	38	..	0·7	..	6·4	0	0	29	2	2	0	0	0	11	10	4	1	0
	1730	,,	1014·1	1004·3		24·2	17·5	12·4	14·4	48	..	0·9	..	3·2	0	0	25	1	1	0	0	0	1	16	6	5	0
	2330	,,	1015·9	1005·8		15·3	13·2	11·4	13·5	77	..	0·3	..	2·8	0	0	19	1	0	0	0	1	8	7	2	11	0
Allahabad (Bamrauli)	0230	98	1014·2	1002·6	..	14·4	12·3	10·4	12·6	77	..	0·4	..	1·5	0	0	11	0	0	0	0	2	4	4	1	19	0
	0530	,,	1014·6	1002·9	.	13·0	11·4	9·9	12·2	82	..	0·6	..	1·0	0	0	8	0	0	0	0	1	2	5	0	22	0
	0830	,,	1016·6	1005·2	+0·5	18·8	14·3	10·3	12·5	58	−9	0·9	−0·2	2·5	0	0	18	0	0	0	0	0	4	11	3	12	0
	1130	,,	1015·7	1004·6	..	27·2	16·8	7·9	10·6	30	..	0·8		5·0	0	0	26	2	1	2	1	2	6	6	6	4	0
	1730	,,	1013·1	1001·9	..	24·3	17·2	11·8	13·8	46	..	1·4	..	0·7	0	0	7	0	1	0	0	0	0	3	3	23	0
	2330	,,	1014·9	1003·3	..	15·9	13·2	10·7	12·9	72	..	0·4	..	0·7	0	0	7	0	0	0	0	1	2	3	1	23	0
Sultanpur	0830	97	1016·2	1005·0	..	22·5	16·8	12·1	14·1	53	..	0·2	..	1·7	0	0	17	1	1	4	0	0	0	11	0	13	0
	1730	,,	1011·5	1000·5	..	25·1	18·0	12·7	14·7	47	..	0·2	..	1·2	0	0	12	0	0	2	0	0	0	10	0	18	0

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—(*Contd.*)																											
Faizabad	0830	102	1016·1	1004·2	..	17·8	14·9	12·5	14·5	72	..	0·2	..	1·2	0	0	11	0	0	0	1	0	1	6	3	19	0
	1730	"	1012·7	1000·9	..	21·3	17·2	14·2	16·2	64	..	0·7	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Banda	0830	121	1017·1	1003·0	..	19·3	15·3	12·2	14·2	64	..	0·4	..	0·6	0	0	6	0	0	0	0	0	5	1	0	24	0
	1730	"	1013·0	999·3	..	25·1	18·9	15·0	17·0	54	..	1·2	..	0·2	0	0	2	0	0	0	0	0	1	1	0	28	0
Fatehpur	0830	114	1016·7	1003·3	..	17·2	13·8	10·6	12·8	67	+7	0·1	−0·9	2·4	0	0	20	0	0	0	0	2	5	10	3	10	0
	1730	"	1013·0	999·9	..	23·1	17·1	12·5	14·5	51	..	0·5	..	0·1	0	0	1	0	0	0	0	0	0	0	1	29	0
Kanpur	0830	126	1017·0	1002·1	+0·8	15·1	12·3	10·1	12·3	74	+7	0·3	−0·2	3·6	0	0	30	0	0	1	0	1	3	21	4	0	0
	1730	"	1013·5	999·0	..	24·3	16·8	10·8	12·9	43	..	0·5	..	3·5	0	0	30	6	0	0	0	1	3	12	8	0	0
Kanpur (Aerodrome)	0530	126	1014·6	999·6	..	12·2	10·4	8·7	11·2	79	..	0·1	..	..	0	0	13	0	0	0	0	0	0	10	3	17	0
	0830	"	1016·3	1001·6	..	17·8	13·7	10·1	12·3	61	..	0·2	..	..	0	0	16	0	0	0	0	0	1	14	1	14	0
	1130	"	1015·6	1001·4	..	26·1	16·4	8·0	10·7	33	..	0·4	..	..	0	0	24	2	1	0	0	1	1	11	8	6	0
	1730	"	1012·9	998·5	..	24·6	16·4	9·2	11·6	38	..	0·7	..	..	0	0	13	2	1	0	0	0	0	3	7	17	0
	2330	"	1014·9	1000·1	..	15·5	12·5	9·9	12·2	69	..	0	..	..	0	0	7	0	0	0	0	0	0	7	0	23	0
Lucknow*	0830	111																									
	1730	"																									
Lucknow (Amausi Aerodrome)	0230	128	1014·1	998·9	..	12·6	11·6	10·6	12·8	88	..	0·1	.	3·4	0	0	15	0	0	0	0	0	2	11	2	15	0
	0530	"	1014·4	999·1	..	11·6	10·9	10·3	12·5	91	..	0·1	..	5·2		0	24	0	1	0	0	0	7	11	5	6	0
	0830	"	1016·1	1001·2	+0·1	17·4	14·4	11·9	13·9	70	+12	0·3	−0·5	4·6	0	0	20	1	0	0	0	0	5	9	5	10	0
	1130	"	1015·4	1000·8	..	25·5	17·3	10·8	12·9	40	.	0·3	..	11·3	0	1	27	1	2	0	0	1	5	10	9	2	0
	1730	"	1012·9	998·2	..	22·3	16·9	12·7	14·7	55	..	0·4	..	6·6	0	0	26	2	0	0	0	1	1	11	11	4	0
	2330	"	1014·8	999·7	..	13·6	12·4	11·4	13·5	83	..	0·1	..	4·3	0	0	16	1	0	0	0	1	3	7	4	14	0
Hardoi	0830	142	1016·3	999·5	..	15·9	13·4	11·3	13·4	75	..	0·2	..	1·9	0	0	10	3	0	0	0	0	0	5	2	20	0
	1730	"	1012·7	996·4	..	23·2	18·0	14·5	16·5	58	..	0·4	..	0·2	0	0	1	0	0	0	0	0	0	1	0	29	0
Lakhimpur Kheri	0830	147	1016·4	999·2	..	17·8	15·2	12·9	14·9	75	..	0·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	"	1012·6	995·7	..	22·8	18·1	15·1	17·1	61	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Bahraich	0830	124	1016·0	1001·6	+0·5	18·8	15·4	12·8	14·8	68	−5	0·3	−0·3	4·0	0	0	27	3	1	5	1	0	0	12	5	3	0
	1730	"	1013·2	999·0	..	22·5	16·8	12·6	14·6	53	..	0·5	..	2·3	0	0	23	0	0	0	0	0	0	21	2	7	0
Uttar Pradesh (West). Orai	0830	141	1018·4	1002·0	..	20·6	15·5	11·5	13·6	56	..	0·2	..	3·1	0	0	29	0	0	0	0	0	7	0	22	1	0
	1730	"	1013·6	997·7	..	26·0	18·6	13·3	15·3	44	..	0	..	3·0	0	0	30	3	0	0	0	1	0	0	26	0	0
Jhansi	0830	251	1016·8	988·0	+0·3	22·5	14·1	5·8	9·3	36	−15	0·4	−0·4	0·7	0	0	7	2	0	1	0	0	1	2	1	23	0
	1730	"	1013·6	985·2	..	25·3	15·7	6·6	10·0	32	..	0·1	..	0·5	0	0	5	2	0	0	0	0	0	2	1	25	0
Agra	0830	169	1017·0	997·1	+0·5	16·7	11·8	7·1	10·1	52	−2	0	−0·8	0·6	0	0	8	0	0	0	0	0	1	1	6	22	0
	1730	"	1013·1	993·9	..	24·2	16·7	10·4	12·6	42	..	0	..	0·7	0	0	6	0	0	0	0	0	0	0	6	24	0
Agra (Aerodrome)	0530	169	1015·0	994·9	..	10·7	9·2	7·6	10·4	82	..	0	..	..	0	0	1	0	0	0	0	0	0	0	1	29	0
	0830	"	1017·1	996·9	..	15·7	11·8	7·9	10·7	60	..	0·6	..	..	0	0	11	1	0	0	0	0	2	3	5	19	0
	1130	"	1016·3	996·8	..	25·3	15·4	5·9	9·3	29	..	0·6	..	..	0	0	25	7	0	1	0	2	2	7	6	5	0
	1730	"	1013·4	993·8	..	23·5	15·9	9·4	11·8	41	..	0·9	..	..	0	0	12	3	1	0	0	0	0	1	7	18	0
	2330	"	1015·9	995·6	..	13·4	11·1	8·9	11·4	78	..	0·1	..	..	0	0	0	0	0	0	0	0	0	0	0	30	0
Mainpuri	0830	157	1015·7	997·2	−0·5	15·9	12·8	9·8	12·1	67	+6	0·1	−0·7	2·0	0	0	20	1	0	0	1	0	0	8	10	10	0
	1730	"	1013·1	995·2	..	24·3	16·7	10·6	12·8	44	..	0·3	..	1·0	0	0	10	0	0	0	0	0	0	6	4	20	0
Aligarh	0830	187	1016·7	994·6	..	15·8	11·9	8·1	10·8	59	+9	0·5	−0·1	2·0	0	0	20	3	0	0	0	0	0	13	4	10	0
	1730	"	1013·0	991·7	..	23·7	17·5	12·6	14·6	49	..	1·1	..	1·2	0	0	12	4	0	0	0	0	0	8	0	18	0
Bareilly	0830	173	1016·3	996·0	+0·3	16·8	14·3	12·3	14·3	75	+1	0	−0·7	1·1	0	0	10	1	0	1	0	1	1	3	3	20	0
	1730	"	1012·6	992·6	..	21·4	15·6	10·7	12·9	51	..	0·5	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Bareilly (P.B.O.)	0230	172	1013·9	993·6	..	15·7	13·0	10·8	12·9	73	..	0	..	1·4	0	0	9	1	0	2	0	0	0	4	2	21	0
	0530	"	1014·3	994·2	..	14·3	12·2	10·5	12·7	78	..	0	..	1·0	0	0	10	2	2	1	0	0	0	2	3	20	0
	1130	"	1015·3	995·6	..	22·6	15·3	10·1	12·3	46	..	0·4	..	4·3	0	0	26	2	0	3	1	0	1	14	5	4	0
	2330	"	1014·7	994·5	..	16·8	13·5	10·9	13·0	69	..	0	..	1·2	0	0	10	1	0	1	1	0	1	5	1	20	0
Meerut	0830	222	1016·4	990·5	+0·4	17·6	13·3	10·9	12·3	60	−9	0	−0·6	1·6	0	0	13	0	0	1	2	0	1	8	1	17	0
Najibabad	0830	270	1017·0	985·2	..	12·4	10·8	9·2	11·6	81	..	0	..	1·8	0	0	14	0	1	5	1	0	1	2	4	16	0
	1730	"	1013·6	982·9	..	23·7	17·0	12·0	14·7	48	..	0	..	1·2	0	0	9	0	1	1	0	0	1	2	4	21	0
Roorkee	0830	274	1016·8	984·6	+0·4	14·8	12·1	9·2	11·6	70	−6	1·6	+0·9	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	"	1012·8	981·5	..	22·2	15·2	9·1	11·9	44	..	1·6	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Dehra Dun	0530	682	1016·1	937·1	..	11·1	8·8	6·5	9·7	74	..	0·2	..	1·8	0	0	15	7	8	0	0	0	0	0	0	15	0
	0830	"	1016·5	938·7	+0·4	15·3	11·5	8·1	10·8	62	−10	0·3	−0·8	0·9	0	0	9	5	3	0	0	1	0	0	0	21	0
	1130	"	1014·9	938·8	..	22·3	14·4	7·9	10·7	40	..	0·3	..	2·8	0	0	21	0	0	0	2	3	13	3	0	9	0
	1730	"	1012·9	936·5	..	19·8	14·9	11·3	13·4	58	..	0·2	..	0·5	0	0	4	1	0	0	0	0	1	1	1	26	0
	2330	"	1016·1	937·9	..	13·9	10·6	7·6	10·4	66	..	0·1	..	4·6	0	0	27	16	9	0	0	0	0	0	2	3	0

*Data not available due to floods.

Division and station	Hour of observation I.S.T.	Station elevation in metr	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (0-8tas): Mean amount	Cloud amount (0-8tas): Departure from normal.	Wind speed (Km. p.h.): Mean wind speed, Km. per hour.	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)																											
New Delhi	0230	216	1015·0	989·4	..	13·8	10·6	7·2	10·1	65	..	0	..	3·0	0	0	18	0	0	1	1	0	1	5	10	12	0
	0530	"	1015·2	989·5	..	12·4	9·6	6·4	9·6	68	..	0	..	4·1	0	0	20	0	0	2	0	0	0	12	6	10	0
	0830	"	1016·9	991·4	+0·6	15·8	11·4	6·8	9·9	56	+·6	0·4	−0.2	6·6	0	0	27	1	0	1	1	1	2	16	5	3	0
	1130	"	1016·1	991·4	..	24·8	15 7	7·5	10·4	33	..	0 5	..	8·7	0	0	29	3	1	0	2	2	1	7	13	1	0
	1730	"	1013 2	989·5	..	24·0	15·7	8·3	10·9	37	..	0 6	..	5·1	0	0	25	1	1	1	1	0	0	1	20	5	0
	2330	"	1015·5	990·0	..	15·2	11·7	8·0	10·7	63	..	0	..	3·1	0	0	17	0	0	1	0	1	0	4	11	13	0
New Delhi (Palam Aerodrome)	0230	233	1014·6	987·5	..	13·1	10·4	7·3	10 2	68	.	0	..	..	0	0	15	0	0	1	1	3	8	1	1	15	0
	0530	"	1015·5	987·7	..	10·5	8·3	5·8	9 2	70	..	0.2	..	..	0	0	20	0	0	3	0	5	12	0	0	10	0
	0830	"	1017·1	989 6	..	14·9	11·1	7·1	10·1	60	..	0 6	..	..	0	0	26	0	0	1	0	3	13	8	1	4	0
	1130	"	1016·1	989·6	..	24·8	16·2	8·8	11·3	37	..	0·4	..	..	0	3	27	1	1	1	1	0	3	9	14	0	0
	1430	"	1013·4	987·1	..	27·2	16 8	7·6	10·4	29	..	0·7	..	..	0	6	24	4	0	0	1	1	3	8	13	0	0
	1730	"	1013·2	986·6	..	23·3	15·4	8.9	11·4	40	..	0·4	..	..	0	0	28	3	0	0	0	1	1	6	17	2	0
	2030	"	1015·1	988·0	..	18·1	12·9	8·1	10·7	52	..	0·1	..	..	0	0	18	2	1	1	1	1	4	4	4	12	0
	2330	"	1015·6	988·8	..	14·9	11·4	7·8	10·6	63	..	0 1	..	..	0	0	15	1	0	0	1	0	8	3	2	15	0
Hissar	0530	221	1015·8	989·4	.	10·8	8·6	5·9	9 3	72	..	0·3	.	5·7	0	0	29	1	1	0	3	4	13	2	5	1	0
	0830	"	1017·3	991·2	+0 6	14·1	10·4	6·8	9·9	61	+7	0·4	−0 2	2·6	0	0	20	0	1	0	3	5	5	5	1	10	0
	1130	"	1016·6	991·4	..	24·7	16·3	9·3	11·7	38	..	0·4	..	4·0	0	0	25	2	3	2	3	5	4	3	3	5	0
	1730	"	1013 7	988·4	..	23·5	16·7	11·4	13·5	47	..	0·4	..	3·2	0	0	23	3	2	1	0	0	0	9	8	7	0
	2330	"	1016 0	987·3	..	14.2	10·8	7·2	10·1	63	.	0·4	..	5.4	0	0	29	1	2	3	3	1	5	2	12	1	0
Karnal	0830	249	1016·3	987·3	.	18.1	13·0	8·0	10·7	53	..	0 1	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	1013·3	985·2		21·9	14·6	7.8	10·6	42	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Patiala	0830	251	1016 6	987·2	..	15·8	11·2	6·5	9·7	55	..	0·6	..	2·1	0	0	11	0	1	0	3	0	0	0	7	19	0
	1730	"	1013·9	985.1	..	21·5	14·2	7.0	10·0	40	..	0·3	..	1·3	0	0	6	0	0	0	0	0	0	0	6	24	0
Ambala	0830	272	1016 2	984.2	0	14·7	11.1	7·4	10.3	63	0	0.3	−0.7	1·2	0	0	9	0	2	0	4	0	2	0	1	21	0
	1730	"	1012.7	981·7		22·6	14.7	7.4	10.3	38	..	0.1	..	1.5	0	0	15	0	3	0	10	0	0	0	2	15	0
Ambala (P.B.O.)	0230	278	1014·7	982·0		14.1	10·9	8·0	10·7	67	..	0·2	..	3 3	0	0	17	5	1	2	2	0	0	1	6	13	0
	0530	"	1014·9	982.0	..	12.5	10·0	7.9	10·7	74	..	0·3	..	2·6	0	0	15	2	3	1	2	0	1	3	3	15	0
	1130	"	1015·7	983·9		23·0	15·0	8·9	11·4	42	..	0·3	..	6·7	0	0	26	2	1	1	3	2	1	4	12	4	0
	2330	"	1015·1	982·6	..	16·1	11.6	7.8	10·6	58	..	0·3	..	5·5	0	0	20	1	1	4	1	0	0	5	8	10	0
Ambala (Aerodrome)	0530	274	1015·2	982.3	..	9·0	7·5	5·8	9·2	81	..	0·3	..	..	0	0	8	0	0	0	1	0	0	2	5	22	0
	0830	"	1016·4	984·1	..	13·6	10·5	7·2	10·1	66	..	0·6	..	..	0	0	13	1	0	3	3	0	0	1	5	17	0
	1130	"	1015·5	984·3	..	24·2	14·7	5·2	8·8	30	..	0 7	..	..	0	6	19	1	0	0		1	0	3	16	5	0
	1730	"	1012·8	981.6	..	22.4	13·7	4·8	8·6	32	..	0 6	..	..	0	4	17	0	0	1	1	0	0	6	13	9	0
	2330	"	1015·4	982.9	..	12·3	9·3	5.9	9·3	65	..	0 4	..	..	0	0	11	0	0	0	1	0	0	2	8	19	0
Chandigarh	0830	347	1015.6	975.7	..	18·9	12·4	6.0	9.3	43	..	0.2	..	..	0	0	10	0	0	0	0	0	0	0	10	20	0
	1730	"	1012·9	973.6	..	23·3	13·8	4.0	8.1	29	..	0.1	..	..	0	0	6	0	0	0	0	0	1	0	5	24	0
Ludhiana	0830	247	1016·8	987·6	+0·3	13.8	10.3	6.9	9.9	63	−1	0·4	−0.6	2.2	0	0	18	2	3	1	4	1	1	2	4	12	0
	1730	"	1013·4	985·1	..	22.1	14.9	8·2	10.9	41	..	0.4	..	1·3	0	0	12	1	0	0	0	1	1	1	8	18	0
Halwara (Aerodrome)	0830	242	1017.1	988·5	..	13·5	10.7	7·9	10·7	70	..	0·4	..	..	0	0	13	2	0	0	4	1	0	1	5	17	0
	1730	"	1013·8	986·1	..	22.8	14.4	6·1	9·4	34		0·7	..	..	0	0	27	3	0	0	1	0	1	2	20	3	0
Bhatinda	0830	211	1017·3	992·1	..	17·0	11.8	6.5	9·7	49	..	0.2	..	2.3	0	0	21	3	2	1	6	4	1	0	4	9	0
	1730	"	1013.3	989·2	..	24.2	15·9	9.3	11.7	38	..	0.6	..	3.1	0	0	25	6	0	0	1	0	1	2	15	5	0
Ferozepur	0830	200	1016·4	992·6	..	12.5	10.2	7·8	10.6	73	..	0·1	..	0.2	0	0	2	0	0	0	1	0	0	0	1	28	0
	1730	"	1013·1	990·2	..	24.5	16.3	9·7	12.0	40	..	0 4	..	0.9	0	0	8	0	0	0	0	0	0	0	8	22	0
Amritsar	0530	234	1015·8	987·5	..	8·2	7·2	6·0	9·3	86	..	0·4	..	3·3	0	0	18	2	3	4	1	0	2	2	4	12	0
	0830	"	1017·3	989.4	..	11.8	9·6	7·4	10·3	75	..	0·5	..	1.8	0	0	12	1	1	3	2	0	0	3	2	18	0
	1130	"	1016.5	989·7	..	23 4	14·4	5·5	9 0	32	..	0·8	..	5.9	0	1	24	8	1	2	2	1	0	5	6	5	0
	1730	"	1013.4	986·7	..	22·8	14·5	6·6	9·7	35	..	0·7	..	4·7	0	0	22	2	0	0	0	1	0	3	16	8	0
Pathankot (Aerodrome)	0830	312	1016.9	980·3	..	14.4	10·7	6·8	9·9	61	..	1·7	..	2·0	0	0	17	2	3	2	1	0	1	4	4	13	0
	1130	"	1016.2	980·7	..	23.0	14·2	5·5	9·0	32	..	1·6	..	2·9	0	0	24	1	2	1	9	3	7	0	1	6	0
	1730	"	1013·3	977·9	..	22·5	13·8	4·9	8·7	32	..	1·8	..	1.8	0	0	16	0	0	0	1	0	4	7	4	14	0
Adampur (Aerodrome) (R)	0530	238																									
(R)	0830	"																									
(R)	1130	"																									
(R)	1730	"																									
(R)	2330	"																									

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temp. in °C: Dry bulb	Mean temp. in °C: Wet bulb	Mean temp. in °C: Dew point	Vapour pressure in mls.	Relative humidity %	Departure from norma	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Himachal Pradesh																											
Bilaspur	0830	493	1019·4	961·1	..	10·0	8·2	6.4	9·6	78	..	1·0	..	0 2	0	0	4	0	3	0	0	0	0	1	0	25	0
	1730	"	1013·1	957·3	..	20·9	13·2	6·4	9·6	39	..	1·0	..	0·7	0	1	5	0	0	0	0	0	0	2	4	24	0
Mandi	0830	761	1020 0	931·2	..	8·8	7·5	6.0	9·3	83	..	0·6	..	0 1	0	0	1	0	0	0	0	0	0	1	0	29	0
	1730	"	1012 2	927·1	..	19·0	13·1	7·7	10·5	49	..	0·7	..	0 2	0	0	2	0	0	0	1	1	0	0	0	28	0
Jammu and Kashmir																											
Srinagar	0830	1587	1551·7	846·5	+0·2	3·4	2·2	1·0	6·6	80	−4	2·9	+0·7	0 9	0	0	7	1	0	0	3	1	0	2	0	23	0
	1130	"	1548·5	846·2	..	10·6	5·9	0·8	6·5	53	..	3.1	..	1·4	0	0	11	4	3	1	0	0	0	2	1	19	0
	1730	"	1518·8	843·2	..	11·4	6 9	2·2	7·2	54	..	3·0	..	0 6	0	0	4	1	0	0	1	0	0	0	2	26	0
Srinagar (Aerodrome)	0530	1666	1529·7	836·5	..	2·5	0·6	−2·3	5·1	72	..	2·2	..	..	0	0	8	0	1	1	2	0	0	4	0	22	0
	0830	"	1544·4	838·1	..	4·6	2·0	−1·6	5·3	66	..	3·0	..	..	0	0	20	2	1	2	0	4	1	6	4	10	0
	1130	"	1544.8	838·3	..	10·3	5·2	−1·0	5 6	48	..	3·0	..	..	0	0	24	7	5	3	0	0	0	3	6	6	0
	1730	"	1514·6	835·4	..	11·0	5·7	−0·7	6·4	47	..	3·2	..	..	0	0	14	1	0	0	1	0	1	2	9	16	0
	2330	"	1533.2	836·6	..	5·4	2·2	−2.4	5·0	59	..	2·1	..	..	0	0	8	0	0	0	1	0	0	6	1	22	0
Gulmarg (R)	0830	2655																									
(R)	1730	"																									
Leh	0530	3514	3118·4	666·5	..	−5·5	−8·5	−17·2	1·3	39	..	(c) 1 6	..	(c) 5·6	0	0	24	2	22	0	0	0	0	0	0	4	0
	0830	"	3124·3	667·5	−1·3	−1·1	−5·4	−14·8	1·7	32	−24	2·9	+0·3	1·9	0	0	11	0	1	0	0	9	1	0	0	19	0
	1730	"	3085·2	664·5	.	4·0	−0·3	−8 3	3·0	40	..	2·9	..	7·3	0	0	27	0	1	0	1	5	16	1	3	3	0
Skardu (R)	0830	2288																									
(R)	1730	..																									
Gilgit (R)	0830	1491																									
(R)	1730	"																									
Misgar (R)	0830	3106																									
(R)	1730	"																									
Jammu*																											
Jammu (Aerodrome)	0530	292	1015·7	980·9	..	12·7	9·7	6·1	9·4	65	..	1·1	..	..	0	0	17	0	13	1	0	0	0	1	2	13	0
	0830	"	1016·7	982·3	..	15·1	10·9	6·3	9·5	56	..	1·8	..	..	0	0	23	1	18	4	0	0	0	0	0	7	0
	1130	"	1016·5	982 9	..	22·5	14 3	6·2	9·5	35	..	1·5	..	..	0	1	13	0	8	1	1	0	3	1	0	16	0
	1730	"	1013·4	979·9	..	22·4	14·8	7·8	10·6	39	..	2·0	..	..	0	0	12	1	0	0	0	0	0	7	4	18	0
Rajasthan (West)																											
Sri Ganganagar	0530	177	1015·5	994 3	..	11·0	8·3	5·1	8·8	68	..	0·2	..	0 9	0	0	8	1	1	1	3	0	0	1	1	22	0
	0830	"	1016·9	995·8	..	12·6	8.6	4·0	8·1	59	+4	0·3	−0·3	1 3	0	0	12	0	0	2	6	0	0	2	2	18	0
	1130	"	1016·6	996·4	..	25·0	14·7	4·5	8.4	27	..	0·4	..	2·7	0	0	23	2	1	1	6	1	7	1	4	7	0
	1730	"	1013·0	993·1	..	25·5	16·4	8·5	11·1	34	..	0·5	..	0·1	0	0	1	0	0	0	0	0	0	1	0	29	0
	2330	"	1015·8	994·9	..	13·9	10 5	6·5	9·7	59	..	0	..	0·2	0	0	2	0	1	0	1	0	0	0	0	28	0
Churu	0830	291	1017·5	983·2	..	14·0	9·9	5·1	8·8	56	..	0·5	..	2·5	0	0	19	0	0	2	2	10	2	3	0	11	0
	1730	"	1013·0	980·2	..	26·4	17·1	9·1	11·5	35	..	0·6	..	5·3	0	0	30	23	1	0	0	0	0	2	4	0	0
Bikaner	0830	224	1017·0	990·5	+0·6	13·9	7·6	−1·7	5·3	36	−9	0·1	−0·9	1·8	0	0	17	0	0	2	13	1	1	0	0	13	0
	1730	"	1012·8	987·6	..	27·6	16·3	5·1	8·8	27	..	0·2	..	3·5	0	0	25	6	2	0	1	0	0	0	16	5	0
Bikaner (P.B.O.)	0530	224	1015·6	988·7	..	9·3	6·6	3·0	7·6	65	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1130	"	1015·9	990·6	..	27·3	18·7	12·5	14·5	41	..	0·4	..	4·0	0	0	21	2	1	2	5	5	1	3	2	9	0
	2330	"	1015·9	989·3	..	14·0	10·2	6.0	9·3	59	..	0	..	1·2	0	0	5	3	0	0	0	0	0	0	2	25	0
Jaisalmer	0830	242	1015·9	987·7	..	16·4	10·0	2·5	7·3	41	..	0·1	..	3.4	0	0	9	4	3	0	0	0	1	0	1	21	0
	1730	"	1012·1	985·1	..	28·6	18·0	9·4	11·8	31	..	0·2	..	8 3	0	1	23	8	5	1	0	3	4	0	3	6	0
Phalodi	0830	234	1016·8	989·3	..	16·4	11·5	6·4	9·6	53	..	0·4	..	4.6	0	0	21	1	1	4	8	5	1	1	0	9	0
	1730	"	1013·5	987·2	..	28·4	20.4	14·6	16.6	46	..	0·8	..	3.8	0	0	17	5	4	1	1	1	1	1	3	13	0
Nagaur	0830	298	1015·6	969·1	..	21·3	11·4	−1·8	5·3	22	..	0·2	..	5·0	0	0	26	4	6	4	4	4	2	0	2	4	0
	1730	"	1011.5	978·1	..	27.9	14·2	−2·9	4·8	14	..	0·3	..	5·9	0	0	30	8	6	1	1	1	1	3	9	0	0
Jodhpur	0230	224	1014·7	988·5	..	17.5	10·1	0·7	6·4	32	..	0	..	8·0	0	0	27	6	21	0	0	0	0	0	0	3	0
	0530	"	1015·0	988·6		15·4	8·8	−0·1	6·1	35	..	0	..	8·6	0	0	27	4	23	0	0	0	0	0	0	3	0
	0830	"	1016·5	990·3	+1·6	17·8	10·0	−0·3	6·0	30	−12	0·6	−0·4	6·2	0	0	25	3	22	0	0	0	0	0	0	5	0
	1130	"	1016·0	990.6	..	26·9	14·6	1·4	6·8	19	..	0·7	..	6·8	0	0	26	0	11	4	6	2	1	2	0	4	0
	1730	"	1012·5	987·4	..	28·7	15·9	3·1	7·6	20	..	0·8	..	6·2	0	0	25	4	10	6	1	0	0	1	3	5	0
	2330	"	1015·2	989·2	..	19·3	11.1	0·7	6·4	30	..	0	..	8·5	0	0	29	4	16	5	1	0	0	2	1	1	0
Barmer	0530	194	1014·0	991·2	..	16·6	9·1	−1·4	5·4	30	..	3	..	4·8	0	0	25	4	1	0	0	0	0	0	20	5	0
	0830	"	1015·6	992·9	+0·3	17·8	10·1	−0·1	6·1	30	−19	0·5	−0·6	6·2	0	0	27	0	4	0	0	1	0	1	21	3	0
	1130	"	1015·4	993·4	..	27.2	14·2	−1·2	5·4	16	..	0·6	..	8·7	0	0	30	2	16	4	4	0	2	1	1	0	0

(R) Register not received. *Temporarily closed. (c) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in kilometres of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West)—*Contd.*																											
Barmer—*Contd.*	1730	194	1011·8	990·0	..	29·0	15·1	−0·7	5·8	15	..	0·8	..	4.9	0	0	29	10	10	2	1	0	0	1	5	1	0
	2330	"	1014·3	991·8	..	20·6	11·2	−0·8	5·7	24	..	0·1	..	5.3	0	0	28	2	1	1	2	0	3	2	17	2	0
Rajasthan (East)																											
Pilani . . .	0830	301	1017.7	982.7	..	17·0	10·7	3·2	7.7	41	..	0	..	9·1	0	0	30	1	0	1	8	11	8	1	0	0	0
	1730	"	1014.1	980.0	..	24·3	14·4	3·9	8.1	28	..	0	..	7·6	0	0	29	17	3	0	0	0	0	2	7	1	0
Alwar . . .	0830	271	1016·1	984·2	..	15·0	12·3	9·8	12.1	72	..	0·4	..	0·2	0	0	2	0	0	0	1	1	0	0	0	28	0
	1730	"	1012·8	982·1	..	24·8	17·9	13·3	15·3	48	..	0·6	..	0·7	0	0	5	2	3	0	0	0	0	0	0	25	0
Sikar . . .	0830	433	1017·2	967·4	..	17·7	12·6	7·0	10·0	51	..	0·2	..	2·6	0	0	24	0	0	10	6	0	0	8	0	6	0
	1730	"	1012·4	964·4	..	25·5	18·2	11·7	13·7	46	..	0·5	..	1·7	0	0	15	2	1	1	0	0	1	8	2	15	0
Jaipur (Sanganer Aerodrome).	0230	390	1015·2	969·6	..	14·2	9·4	3·8	8.0	50	..	0	..	..	0	0	24	9	4	7	1	0	0	0	3	6	0
	0530	"	1015·6	969·8	..	12·5	8·5	3·7	8.0	56	..	0	..	..	0	0	22	9	5	5	1	0	0	0	2	8	0
	0830	"	1016·6	971·6	..	17·7	11·9	5·8	9·2	46	..	0·4	..	..	0	0	17	4	1	9	0	0	0	0	3	13	0
	1130	"	1015·5	971·6	..	25·6	15·4	5·5	9·0	28	..	0·5	..	..	0	0	30	3	1	8	3	3	6	5	1	0	1
	1730	"	1012·7	968·7	..	24·6	15·0	5·6	9·1	30	..	1·0	..	..	0	0	18	5	2	1	3	1	1	1	6	12	0
	2330	"	1015·6	970·2	..	15·4	10·0	3.7	8·0	46	..	0	..	..	0	0	24	9	4	7	2	0	0	0	2	6	0
Dholpur . . .	0830	176	1016·2	995·6	..	16·6	12·2	8·0	10·7	57	..	0·4	..	0·9	0	0	9	0	0	1	3	3	0	2	0	21	0
	1730	"	1012·6	992·5	..	23·7	16·2	10.1	12·3	42	..	1·0	..	0·4	0	0	4	2	0	0	0	0	0	0	2	26	0
Tonk . .	0830	272	1016·5	984·6	..	15·4	11·8	8·1	10·8	62	..	0·6	..	2·7	0	0	22	4	1	2	0	1	2	2	10	8	0
	1730	"	1011·9	981·2	..	25·3	18·4	13·5	15·5	49	..	1·0	..	1·9	0	0	15	5	2	2	1	0	0	2	3	15	0
Ajmer . . .	0830	486	1017·7	961·3	+0·1	14.7	9·7	4·5	8·4	51	0	0·5	−0·3	1·3	0	0	12	1	4	1	1	0	0	3	2	18	0
	1730	"	1012·2	958·2	..	26·2	13·6	0	6·1	18	..	0·8	..	5·8	0	0	28	1	7	5	3	3	2	3	4	2	0
Kotah . . .	0530	257	1015·4	985·3	..	14·5	10·5	6·4	9·6	56	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	0830	"	1016·7	987·0	+0·3	19·8	12·8	5·6	9·1	40	−9	0·2	−0·8	0·1	0	0	1	0	0	0	0	0	0	1	0	29	0
	1130	"	1016·0	987·2	..	26·9	16·1	6·0	9·3	27	..	0·5	..	0·3	0	0	3	0	0	2	0	0	0	0	1	27	0
	1730	"	1013·1	984·1	..	26·3	15·8	5·9	9·3	28	..	0·4	..	0·1	0	0	1	0	0	1	0	0	0	0	0	29	0
	2330	"	1015·3	985·5	..	18·7	12·9	6·5	9·7	46	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Chambal . .	0830	351	1017·7	976·9	..	15·5	11·3	5·0	9·9	57	..	0·7	..	0·5	0	0	5	2	1	0	0	0	0	1	1	25	0
	1730	"	1012·6	973·4	..	27·1	15·8	6·8	8·7	26	..	0.7	..	3·5	0	0	26	3	12	2	2	0	1	0	6	4	0
Jhalawar . .	0830	321	1017·0	979·6	+0·9	16·1	11·6	6·9	9·9	54	−5	0·5	−0·5	0·2	0	0	2	1	0	0	0	0	0	0	1	28	0
	1730	"	1012·1	976·4	..	28·3	16·3	5·2	8·8	23	..	0·7	..	2·3	0	0	18	4	11	3	0	0	0	0	0	12	0
Udaipur . . .	0230	582	1016·5	948·8	..	11·4	8·5	5·4	9·0	67	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	0530	"	1017·0	949·0	..	10·1	7·7	5·2	8·8	72	..	0·2	..	0·1	0	0	1	0	0	0	0	0	0	0	1	29	0
	0830	"	1017·3	950·7	+0·2	16·5	10·7	4·8	8·6	46	−10	0·7	+0·2	0·1	0	0	1	1	0	0	0	0	0	0	0	29	0
	1130	"	1015·0	950·7	..	26·1	14·2	2·4	7·3	22	.	0·5	..	2·0	0	0	12	0	4	7	1	0	0	0	0	18	0
	1730	"	1012·0	947·7	..	25·3	14·1	3·1	7·6	26	..	1·0	..	0·7	0	0	6	1	1	3	0	0	0	0	1	24	0
	2330	"	1016·9	949·6	..	13·2	·5	5·9	9·3	62	.	0	..	0·1	0	0	1	0	0	0	0	0	0	1	0	29	0
Erinpura (Jawal Dam)	0830	295	1016·2	981·6	..	15·2	12·0	9·0	11·5	68	.	1·0	..	3.6	0	0	14	0	2	0	5	7	0	0	0	16	0
	1730	"	1012·2	979·1	..	27·1	13·8	12·5	14·5	41	.	1·2	.	2·4	0	0	19	8	3	1	2	2	0	1	2	11	0
Madhya Pradesh (West)																											
Gwalior (P.B.O.)	0230	207	1015·0	990·4	..	11·6	9·5	7·2	10·1	75	..	0·1	..	1·4	0	0	14	0	0	0	11	0	2	0	1	16	0
	0530	"	1015.4	990·6	..	10·4	8·7	6·7	9.9	78	..	0·1	..	1·9	0	0	18	0	0	0	14	3	1	0	0	12	0
	0830	"	1016·6	992·5	+0·7	18·7	12·9	7·3	10·2	48	−2	0·6	−0·2	1·8	0	0	14	1	0	0	0	4	6	1	2	16	0
	1130	"	1015·9	992·4	..	26·3	14·9	3·3	7·8	23	..	0·5	..	5·8	0	0	30	6	1	1	2	2	5	3	10	0	0
	1730	"	1013·1	989·6	..	24·8	15·7	7·7	10·5	34	..	0·8	..	0·7	0	0	6	2	2	0	0	0	1	0	1	24	0
	2330	"	1015·7	991·2	..	12·8	10·3	7·8	10·6	72	..	0·1	..	2·0	0	0	17	0	0	0	12	2	3	0	0	13	0
Sheopurkalan . .	0830	235	1017·2	989·7	..	16·4	12·4	8·3	11·3	58	..	0·7	..	3·4	0	0	20	0	2	1	6	7	1	2	1	10	0
	1730	"	1012·8	986·2	..	25·3	16·8	9.8	12·5	88	..	0·9	..	3·9	0	0	25	7	9	1	2	1	1	2	2	5	0
Guna . . .	0530	478	1016·4	960·1	..	10·1	7·4	4·3	8·4	67	..	0·3	..	0·7	0	0	6	1	0	0	2	2	0	1	0	24	0
	0830	"	1016·8	962·2	+0·7	19·7	12·0	4·6	8·5	37	−23	0·5	−0·2	3·7	0	0	24	0	0	12	1	10	0	0	1	6	0
	1130	"	1015·0	961·8	..	26·5	14·1	1·9	7·1	21	..	0·9	..	4·6	0	0	29	2	3	8	5	3	3	3	2	1	0
	1730	"	1012·5	959·1	..	24·8	14·3	4·9	8·6	28	..	1·3	.	1·1	0	0	10	6	1	1	0	0	0	0	2	20	0
	2330	"	1016·4	960·7	..	13·2	9·3	5·3	8·9	59	..	0·2	..	0·6	0	0	6	2	0	0	4	0	0	0	0	24	0
Rajgarh .	0830	382	1016·7	972·4	..	16·2	11·1	5·6	9·2	50	..	0·1	..	3·8	0	0	23	4	6	0	0	0	0	2	11	7	0
	1730	"	1011·6	969·1	..	27·6	16·1	5·1	9·7	24	..	0·9	..	3·6	0	0	22	2	4	0	1	0	0	5	10	8	0
Neemuch . .	0830	496	1017·0	960·4	+0·4	19·0	10·8	1·8	5·3	32	−16	0·7	−0·3	3·1	0	0	21	0	14	5	1	0	0	0	1	9	0
	1730	"	1012·7	957·8	..	26.7	14·1	1·4	7.0	20	..	1·2	..	4·3	0	0	24	5	17	1	0	0	0	0	1	6	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Ratlam	0830	486	1016·2	960·7	..	18·9	12·8	7·4	10·3	47	..	1·1	..	6·0	0	0	19	2	9	8	0	0	0	0	0	11	0
	1730	"	1011·5	957·8	..	28·0	17·8	10·5	12·9	35	..	1·3	..	4·6	0	0	20	3	9	5	0	0	0	1	2	10	0
Mirzapur	0830	293	1016·4	982·5	..	19·0	12·6	6·2	9·5	43	..	1·3	..	2·3	0	0	18	0	1	16	1	0	0	0	0	12	0
	1730	"	1011·3	978·7	..	29·4	17·0	5·9	9·3	23	..	1·3	..	2·3	0	0	16	2	1	4	2	0	0	5	2	14	0
Indore	0530	567	1015·2	949·8	..	13·7	9·4	4·7	8·8	55	..	0·8	..	3·4	0	0	23	1	8	3	4	5	2	0	0	7	0
	0830	"	1016·1	951·9	+0·2	19·4	12·4	5·9	9·4	42	−10	1·3	+0·1	4·2	0	0	17	0	5	5	3	3	1	0	0	13	0
	1130	"	1014·2	951·5	..	26·9	15·4	5·6	9·2	26	..	1·1	..	9·7	0	0	26	1	6	6	3	6	0	1	0	4	3
	1730	"	1011·3	948·8	..	26·3	15·2	6·0	9·2	27	..	1·2	..	6·5	0	0	25	5	9	6	1	1	2	0	1	5	0
	2330	"	1015·4	950·6	..	16·9	11·0	5·2	8·8	46	..	1·1	..	3·6	0	0	20	0	4	2	4	6	2	0	2	10	0
Ujjain	0830	"	..	..	..	17·7	11·7	6·1	9·6	47	..	0·4	..	2·5	0	0	16	0	3	7	5	1	0	0	0	14	0
Bhopal (Bairagarh)	0230	523	1014·8	954·6	..	15·4	10·3	5·3	8·9	52	..	0·4	..	4·4	0	0	22	5	7	3	4	2	1	0	0	8	0
	0530	"	1015·4	955·0	..	14·5	9·8	4·9	8·8	53	..	0·4	..	4·0	0	0	22	2	4	7	5	4	0	0	0	8	0
	0830	"	1016·4	957·1	+0·4	19·9	12·7	6·0	9·4	41	−15	0·9	−0·5	4·8	0	0	20	0	5	4	7	4	0	0	0	10	0
	1130	"	1014·8	956·7	..	26·2	14·9	4·8	8·8	26	..	0·9	..	10·3	0	0	29	0	5	10	9	2	2	1	0	1	0
	1730	"	1012·1	953·9	..	25·3	14·5	4·8	9·1	27	..	1·3	..	6·8	0	0	26	5	8	9	3	0	0	1	0	4	0
	2330	"	1015·4	955·6	..	17·4	11·2	5.2	8·8	45	..	0·3	..	6·0	0	0	26	3	8	7	5	2	1	0	0	4	0
Khandwa	0830	318	1016·3	979·7	+0·6	20·4	14·5	9·7	11·8	51	−7	2·0	+0·6	1·9	0	0	19	0	7	3	8	1	0	0	0	11	0
	1730	"	1011·4	975·9	..	28·1	18·0	9·9	12·3	33	..	1·7	..	3·6	0	0	29	10	17	1	0	0	0	0	1	1	0
Hoshangabad	0830	302	1016·5	981·4	−0·3	17·6	12·6	7·8	10·5	53	−8	1·5	+0.1	3·6	0	0	26	0	0	24	2	0	0	0	0	4	0
	1730	"	1012·0	978·1	..	26·7	16·1	6·3	9·8	28	..	1·9	..	0·6	0	0	5	0	1	4	0	0	0	0	0	25	0
Betul	0830	653	1016·4	942·9	..	20·1	13·4	7·6	10 5	45	..	1·3	..	3·3	0	0	24	0	2	13	9	0	0	0	0	6	0
	1730	"	1011·7	939·6	..	24·3	15·5	8·6	11·0	37	..	1·7	..	4·3	0	0	28	8	15	2	0	0	0	1	2	2	0
Chhindwara	0830	685	1016·6	939·4	..	18·8	12·7	7·1	10·2	48	..	1·9	..	0·8	0	0	6	0	6	0	0	0	0	0	0	24	0
	1730	"	1011·7	936·2	..	24·4	14·3	5·2	9·0	29	..	2·6	.	2·2	0	0	17	0	5	1	5	2	0	1	3	13	0
Seoni	0830	619	1016·2	946·5	+0·6	20·1	14·0	9·0	12 0	49	−8	2·5	+1·0	1·5	0	0	12	2	8	2	0	0	0	0	0	18	0
	1730	"	1011·5	943·1	..	24·6	15·2	7·8	10·4	35	..	1·6	..	1·8	0	0	17	2	9	0	4	1	0	0	1	13	0
Sagar	0830	551	1016·0	953·7	+0·3	20·4	12·7	5·4	9·0	37	−1·0	0·5	−0·5	3·3	0	0	22	0	5	9	3	2	0	3	0	8	0
	1730	"	1012 2	950·9	..	24·4	15·0	6·6	10·2	34	..	1·3	..	1·4	0	0	14	1	4	4	0	0	0	2	3	16	0
Nowgong	0830	229	1017·2	990·4	+0·5	14·5	11·8	9·3	11·7	72	+1	0·3	−0·9	3·2	0	0	24	0	1	0	0	13	10	0	0	6	0
	1730	"	1013·3	987·3	..	24·8	17·1	11·2	13·2	43	..	0·5	..	0·3	0	0	3	1	2	0	0	0	0	0	0	27	0
Madhya Pradesh (East)																											
Satna	0530	317	1015·5	978·0	..	11·6	10·1	8·7	11·2	83	..	0.9	..	1·1	0	0	9	1	1	0	0	0	2	5	0	21	0
	0830	"	1016·9	980·3	+0·7	17·6	13·2	9·1	11·5	58	−4	0·7	−0·5	1·5	0	0	15	1	0	0	0	2	1	11	0	15	0
	1130	"	1015·1	979·3	..	25·8	15·5	5·9	9·3	28	..	1·2	..	4·9	0	0	29	1	1	2	2	1	3	7	12	1	0
	1730	"	1013·0	977·1	..	23·9	15·7	8·8	11·1	39	..	1·6	..	2·6	0	0	25	16	0	0	0	0	1	1	7	5	0
	2330	"	1015·4	978·3	..	15·0	12·0	9·1	11·6	68	..	0·6	..	1·1	0	0	11	2	0	2	1	0	2	3	1	19	0
Sidhi	0830	272	1015.8	984·0	..	17·3	13·1	9 3	11·7	59	..	0 6	..	0·9	0	0	9	1	0	1	0	5	0	2	0	21	0
	1730	"	1011·6	980·9	..	24·2	15·9	8 6	11·4	38	..	1·1	..	0·8	0	0	8	4	0	1	0	0	0	0	3	22	0
Umaria	0830	459	1016·9	964·2	..	17·8	13·3	9·7	11 7	60	−2	1·4	−0·6	1·3	0	0	13	0	2	2	7	2	0	0	0	17	0
	1730	"	1012·6	961·1	..	23·2	16·4	11·5	13·2	48	..	2·3	..	0·7	0	0	7	1	0	2	1	0	0	1	2	23	0
Jabalpur	0530	393	1016·1	969·8	..	11·1	10·1	9·0	11·6	87	..	0·8	..	1·8	0	0	18	0	0	1	16	1	0	0	0	12	0
	0830	"	1017·2	971·8	+0·9	16·8	12·9	9·2	11·8	61	−11	1·3	0	1·9	0	0	19	0	0	0	14	4	1	0	0	11	0
	1130	"	1015·0	971·0	..	26·0	16·3	7·9	10·7	32	..	1·2	..	3·6	0	0	25	5	9	2	4	1	2	0	2	5	0
	1730	"	1012·3	968·4	..	25·3	16·8	10·0	12·3	39	..	1·5	..	2·4	0	0	20	6	10	2	0	0	1	0	1	10	0
	2330	"	1015·6	969·9	..	14·6	12·3	10·2	12·6	75	..	0 5	..	1·5	0	0	12	0	1	3	7	1	0	0	0	18	0
Mandla	0830	443	1017·9	966·4	..	15·0	12·4	10·1	12·4	73	..	1·1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	"	1012·3	962·7	..	23.8	15·9	9·1	11·8	40	..	1·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Pendra	0530	625	1015·8	943·9	..	13·4	9·8	6·3	9 5	63	..	0·7	..	5·4	0	0	30	15	0	0	0	0	0	5	10	0	0
	0830	"	1016·8	946·0	+0·3	18·2	12·7	7·9	10·6	51	−11	1·3	−0·7	4·0	0	0	24	15	1	0	0	0	0	1	7	6	0
	1130	"	1014·8	945·5	..	23·8	14·4	6·1	9·5	33	..	1·6	..	6·5	0	0	30	15	7	0	0	0	0	2	6	0	0
	1730	"	1012·5	943·0	..	22·2	14·6	8·3	11·0	41	..	2·4	..	3·7	0	0	28	12	0	1	0	1	2	2	10	2	0
	2330	"	1015·9	944·5	..	15·6	11·2	7·1	10·1	57	..	1·0	..	3·2	0	0	26	10	1	0	0	1	0	7	7	4	0
Ambikapur	0830	611	1017·2	947·5	..	16·9	13·0	9.9	12·1	64	..	1·3	..	2·0	0	0	12	2	1	2	0	0	6	0	1	18	0
	1730	"	1012·7	944·5	..	22·2	14·8	8·7	11·4	42	..	1·8	..	6·5	0	0	29	25	3	0	0	1	0	0	0	1	0
Champa	0830	245	1016·8	988·3	..	18·5	14·9	11·9	14·0	65	..	2·2	..	3·5	0	0	26	17	0	0	0	0	0	0	9	4	0
	1730	"	1012·7	984·9	..	25·1	17·5	11·6	14·1	44	..	2·9	..	2·5	0	0	22	14	0	0	0	1	0	1	6	8	0
Raigarh	0830	220	1016·1	990·7	..	20·1	15·3	11·7	13·6	58	..	2·5	..	3·1	0	0	21	3	12	4	2	0	0	0	0	9	0
	1730	"	1012·3	987·1	..	25·4	17·6	11·6	13·9	43	..	2·5	..	0·9	0	0	9	3	4	1	0	0	0	0	1	21	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, Km. per hour	Wind speed, (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(*Contd.*)																											
Raipur	0530	298	1014·8	980·1	..	15·7	13·4	11·3	13·6	75	..	2·7	..	1·0	0	0	8	2	3	1	0	1	0	0	1	22	0
	0830	"	1016·6	982·1	+0·6	19·6	15·6	11·4	14·6	60	−5	1·5	−0·2	2·6	0	0	17	8	7	1	0	0	0	0	0	13	1
	1130	"	1015·0	981·4	..	26·1	16·6	8·4	11·2	34	..	2·4	..	5·8	0	0	25	8	14	1	1	0	0	1	0	5	0
	1730	"	1012·6	978·7	..	25·4	16·9	9·8	11·9	38	..	3·4	..	1·8	0	0	12	4	8	0	0	0	0	0	0	18	0
	2330	"	1014·8	980·5	..	19·7	14·6	10·1	12·0	55	..	2·1	..	3·0	0	0	16	1	3	5	4	3	0	0	0	14	0
Kanker	0830	402	1016·2	970·2	+0·7	17·8	15·1	13·0	14·9	74	−2	2·3	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	"	1011·8	967·0	..	25·6	18·1	12·3	14·6	45	..	1·8	..	1·2	0	0	11	1	9	0	0	0	0	0	1	19	0
Jagdalpur	0530	553	1014·3	951·0	..	15·2	14·3	13·7	15·7	91	..	4·1	..	0·7	0	0	7	2	0	1	0	0	0	2	2	23	0
	0830	"	1015·6	953·0	+0·6	18·9	16·0	14·0	16·1	74	−5	4·5	+1·7	3·5	0	0	21	6	9	2	0	0	0	2	2	9	0
	1130	"	1013·0	952·0	..	25·7	18·0	12·8	15·1	46	..	4·3	..	7·0	0	0	28	3	20	4	0	0	0	0	1	2	0
	1730	"	1011·3	949·9	..	23·5	17·8	14·1	16·3	56	..	5·2	..	4·2	0	0	28	10	14	2	0	0	0	0	2	2	0
	2330	"	1014·5	951·7	..	17·5	15·6	14·4	16·3	82	..	2·7	..	1·0	0	0	9	0	5	2	0	0	0	1	1	21	0
Gujarat																											
Deesa	0830	136	1015·9	999·9	+0·4	17·3	10·8	3·4	7·8	39	..	0·8	..	3·8	0	0	28	3	20	3	1	0	0	0	1	2	0
	1730	"	1012·0	996·7	..	30·7	16·3	1·6	6·9	16	..	0·9	..	3·4	0	0	28	4	10	1	0	1	0	3	9	2	0
Radhanpur	0830	30	1015·3	1011·7	..	20·2	14·5	9·5	11·9	50	..	0·6	..	5·5	0	0	25	5	10	8	1	0	0	1	0	5	0
	1730	"	1011·7	1008·3	..	31·3	21·1	13·7	15·7	36	..	0·4	..	4·7	0	0	20	10	2	6	0	0	0	0	2	10	0
Idar	0830	219	1015·1	990·1	..	23·9	13·4	1·4	6·8	24	..	0·7	..	5·7	0	0	25	1	17	5	1	0	0	0	1	5	0
	1730	"	1011·3	987·0	..	29·4	16·3	3·5	7·9	20	..	1·0		3·5	0	0	20	2	4	7	0	0	0	5	2	10	0
Ahmedabad	0230	55	1013·0	1006·5	..	17·3	11·7	5·7	9·1	47	..	0·3		8·1	0	0	24	3	17	1	2	0	0	0	1	6	0
	0530	"	1013·2	1006·7	..	16·1	10·9	5·1	8·8	49	..	0·3	..	7·4	0	0	23	3	14	5	1	0	0	0	0	7	0
	0830	"	1015·1	1008·6	−0·1	20·5	12·6	4·1	8·2	34	−21	1·3	+0·3	11·9	0	2	23	0	7	17	1	0	0	0	0	5	0
	1130	"	1015·0	1008·7	..	29·9	16·9	4·8	8·6	21	..	0·9	..	15·6	0	4	26	1	2	21	4	1	0	0	0	0	1
	1730	"	1011·6	1005·3	..	31·1	17·3	4·4	8·4	19	..	1·1	..	9·0	0	1	25	3	9	7	1	0	0	1	5	4	0
	2330	"	1013·7	1007·3	..	19·4	12·9	6·3	9·5	43	..	0·3	..	5·1	0	0	16	3	10	2	0	0	0	0	1	14	0
Dohad	0830	333	1015·6	977·2	..	18·8	11·5	3·0	7·6	35	−29	0·5	−1·0	5·1	0	0	23	1	4	7	4	5	2	0	0	7	0
	1730	"	1010·6	973·7	..	29·6	15·9	0·9	6·5	16	..	0·5	..	8·2	0	0	30	5	7	4	3	4	2	4	1	0	0
Baroda	0530	34	1012·9	1008·8	..	15·4	12·5	9·7	12·0	69	..	0·3	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	"	1015·0	1010·9	..	18·0	13·7	9·7	12·0	59	−5	0·9	−0·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	"	1014·8	1010·8	..	30·8	18·5	8·6	11·2	25	..	0·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	1011·3	1007·4	..	30·0	19·8	12·7	14·7	35	..	0·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	"	1013·6	1009·5	..	19·1	14·5	10·5	12·7	58	..	0·4	..	..	..	..	..	..	..	..	..	..		..	..	..	..
Baroda (Aerodrome)	0830	38	1014·8	1010·3	..	20·8	14·8	9·6	11·9	50	..	1·8	..	5·6	0	0	24	14	2	4	1	0	0	0	3	6	0
	1130	"	1014·4	1010·1	..	30·7	19·7	11·0	13·1	33	..	1·5	..	11·7	0	12	16	3	6	11	3	1	2	0	2	2	0
	1730	"	1011·1	1006·9	..	30·8	26·1	12·1	14·1	35	..	1·7	..	5·5	0	0	25	3	5	8	0	0	0	2	7	5	0
Broach	0830	17	1013·8	1011·7	..	18·7	14·3	10·5	12·7	59	..	1·7	..	4·5	0	0	30	1	14	4	10	1	0	0	0	0	0
	1730	"	1010·5	1008·6	..	32·7	20·3	11·6	13·7	28	..	0·9	..	4·3	0	0	28	2	14	3	9	0	0	0	0	2	0
Surat	0530	12	1012·1	1010·7	..	20·0	14·9	10·9	13·0	55	..	0·9	..	6·3	0	0	25	3	9	12	1	0	0	0	0	5	0
	0830	"	1014·2	1012·8	+0·1	22·4	15·9	10·6	12·8	48	−10	1·4	0	7·9	0	0	27	3	6	18	0	0	0	0	0	3	0
	1130	"	1014·0	1012·7	..	31·7	19·7	10·7	12·9	28	..	(b) 1·9	..	(b) 9·3	0	0	28	2	14	12	0	0	0	0	0	1	0
	1730	"	1010·7	1009·4	..	31·2	20·6	13·2	15·2	33	..	0·9	..	3·9	0	0	27	5	10	6	0	0	0	2	4	3	0
	2330	"	1012·9	1011·5	..	23·3	16·6	11·2	13·3	47	..	1·1	..	7·1	0	0	27	5	15	7	0	0	0	0	0	3	0
Saurashtra and Kutch																											
Naliya	0330	21	1014·9	1012·4	..	17·9	11·9	5·1	8·8	46	..	1·1	..	6·4	0	0	27	6	19	1	0	0	0	0	1	3	0
	1730	"	1011·8	1009·4	..	31·0	17·1	2·6	7·4	16	..	1·3	..	15·6	0	3	27	4	10	0	0	0	4	5	7	0	0
Bhuj (Aerodrome)	0230	80	1013·6	1004·2	..	18·5	14·9	11·7	13·7	66	..	0·2	..	1·1	0	0	3	0	1	0	1	0	0	1	0	27	0
	0530	"	1013·7	1004·1	..	16·0	13·2	10·5	12·7	71	..	0·1	..	1·0	0	0	3	0	0	0	0	0	1	1	1	27	0
	0830	"	1015·3	1005·9	+0·3	20·1	15·6	11·8	13·8	60	+11	1·1	+0·2	1·7	0	0	6	0	3	0	1	0	2	0	0	24	0
	1130	"	1015·3	1006·2	..	29·1	21·8	17·2	19·6	51	..	1·0	..	11·6	0	1	27	7	10	4	6	0	0	0	1	2	0
	1730	"	1011·9	1002·9	..	31·3	23·0	17·8	20·4	47	..	1·3	..	15·4	0	4	25	7	16	1	3	0	1	0	1	1	0
	2330	"	1014·3	1004·9	..	20·8	16·7	13·3	15·3	64	..	0·4	..	2·8	0	0	10	0	2	0	1	0	3	2	2	20	0
Bhutakia Bhimasar	0830	47	1014·8	1009·2	..	21·0	16·1	12·5	14·5	60	..	0·5	..	16·2	0	8	22	10	11	4	2	0	0	0	3	0	0
	1730	"	1011·8	1006·5	..	31·2	23·0	18·7	21·6	50	..	0·7	..	19·2	0	10	20	13	9	4	1	0	0	0	3	0	0
New Kandla	0830	14	1015·5	1013·8	..	21·3	15·0	9·2	11·6	47	..	1·5	..	9·2	0	1	29	16	9	1	1	0	1	0	2	0	0
	1730	"	1012·3	1010·7	..	29·8	18·3	8·9	11·4	28	..	1·8	..	11·3	0	1	28	8	10	5	4	0	1	1	0	1	0
Mandvi	0830	9	1014·7	1013·6	..	22·0	16·1	10·2	12·9	51	..	2·1	..	14·6	0	3	27	11	16	1	0	1	0	0	1	0	0
	1730	"	1012·3	1011·2	..	28·6	21·6	17·3	19·7	53	..	2·2	..	15·2	0	4	26	1	9	0	2	2	15	0	0	0	1
Dwarka	0830	11	1014·6	1013·3	−0·2	22·9	18·6	15·6	17·7	65	−2	1·2	−0·1	11·2	0	1	29	6	15	9	0	0	0	0	0	0	0
	1730	"	1011·6	1010·3	..	29·7	19·6	11·9	13·9	38	..	1·5	..	17·6	0	6	24	8	8	6	0	0	0	2	6	0	0

(b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal.	Mean wind speed Km. per hour.	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —(*Contd.*)																											
Porbander	0830	7	1014·6	1013·8	..	24·1	17·0	11·3	13·4	47	..	2·0	..	(b) 9·1	0	0	29	11	10	4	1	0	0	0	3	0	0
	1730	"	1010·9	1010·1	..	30·0	23·2	19·5	22·7	54	..	2·8	..	17·0	0	3	27	1	1	1	0	0	3	15	9	0	0
Porbander (Aerodrome)	0830	7	1014·2	1013·4	..	25·8	17·8	11·0	13·1	43	..	1·1	..	(b) 10·3	0	3	20	3	14	5	0	1	0	0	1	6	0
	1130	"	1014·2	1013·4	..	32·6	20·5	11·2	13·3	30	..	0·9	..	19·3	0	15	15	1	14	11	1	0	0	0	3	0	0
	1730	"	1010·9	1010·1	..	30·8	22·0	16·3	18·5	45	..	1·4	..	16·4	0	2	28	1	3	0	0	0	4	19	3	0	0
Jamnagar	0530	23	1012·9	1010·3	..	17·9	12·6	7·1	10·1	51	..	0·7	..	5·4	0	0	24	0	4	11	4	2	3	0	0	6	0
	0830	"	1014·7	1012·1	0	21·5	14·3	7·3	10·2	41	−22	1·6	+0·7	7·2	0	0	25	0	6	14	4	1	0	0	0	5	0
	1130	"	1014·9	1012.3	..	29·2	17·6	7·9	10·7	27	..	1·1	..	16·5	0	7	23	8	16	6	0	0	0	0	0	0	0
	1730	"	1011·4	1008.9	..	30·1	17·9	7·7	10·5	26	..	1·9	..	17·5	0	8	22	15	13	0	0	0	0	0	2	0	0
	2330	"	1013·7	1011·1	..	22·6	16·8	12·1	14·1	53	..	0·8	..	9·9	0	2	25	3	10	5	2	3	0	2	2		0
Rajkot (Aerodrome)	0830	138	1014·8	998·9	+0.1	21·8	14·9	8·3	10·9	44	−7	0·4	−0.7	6·0	0	0	21	2	14	3	1	0	1	0	0	9	0
	1130	"	1014.3	998·9	..	30·9	18·9	9·2	11·6	27	..	0·6	..	17·4	0	12	18	1	19	7	0	0	0	1	2	0	0
	1730	"	1010·9	985·6	..	31·9	19·3	9·1	11·5	26	..	0·7	..	15.2	0	4	26	7	11	10	0	0	0	0	2	0	0
Surendranagar	0830	74	1015·0	1006·9	..	22·0	13·5	4·4	8·4	34	..	1·0	..	5·2	0	0	29	7	15	2	0	0	0	1	4	1	0
	1730	"	1011.3	1003·0	..	31·6	17·8	5·1	8·8	20	..	1·2	..	4·5	0	0	29	7	16	3	4	0	0	0	3	1	0
Bhavnagar	0830	17	1015·0	1013·0	+0·4	21·3	14·9	9·1	11.5	47	−2	0·9	−0·6	2·2	0	0	21	1	3	0	1	0	0	2	14	9	0
	1730	"	1010·7	1008·9	..	31·6	20·0	11·5	13·6	30	..	1·1	..	5·8	0	0	26	0	12	10	4	0	0	0	0	4	0
Bhavnagar (Aerodrome).	0830	11	1014·6	1013·3	..	22·4	16·2	11·1	13·2	49	..	1·4	..	9·5	0	0	24	4	3	4	0	0	0	2	11	6	0
	1130	"	1014·7	1013·5	..	28·5	19·9	14·1	16·1	42	..	1·1	..	16·1	0	5	25	0	13	16	1	0	0	0	0	0	0
	1730	"	1011·3	1010·1	..	31·0	20·4	13·1	15·1	35	..	1·1	..	13·7	0	3	27	2	17	7	4	0	0	0	0	0	0
Mahuva	0830	9	1014·3	1013·3	..	23·4	16·2	10·2	12·4	44	..	1·6	..	6·7	0	0	29	11	16	2	0	0	0	0	0	1	0
	1730	"	1011·3	1010·3	..	30·0	20.9	14·8	16·8	41	..	1·2	..	6·2	0	0	30	0	3	16	11	0	0	0	0	0	0
Keshod	0830	51	1014·4	1008·5	..	22·2	14·6	7·1	10·1	39	..	1·0	..	12.9	0	4	24	0	10	18	0	0	0	0	0	2	0
	1130	"	1014·2	1008·4	..	31·3	18·3	7·1	10·1	23	..	0.8	..	20·8	0	12	18	2	17	10	0	0	0	0	0	0	1
	1730	"	[illegible]	1005·1	..	32·8	19·5	8·7	11.2	24	..	0·8	..	16·2	0	8	21	6	7	0	1	3	7	4	1	1	0
Veraval	0230	8	1011·9	1011·0	..	20·7	16·8	13·6	15·6	66	..	0·8	..	8·4	0	1	26	14	10	1	0	0	0	0	2	3	0
	0530	"	[illegible]	1010·8	..	20·1	15·1	10·7	12·9	57	..	0·8	..	10·6	0	2	26	16	11	0	1	0	0	0	1	2	0
	0830	"	1013·5	1012·6	−0·4	23·2	16·2	10.1	12·3	45	−7	1·8	+0·7	12·2	0	3	25	9	19	0		0	0	0	0	2	0
	1130	"	1013·8	1012·9	..	32·4	20·8	12·5	14·5	32	..	1·8	..	16·8	0	10	20	2	9	7		8	1	1	1	0	0
	1730	"	1011·0	1010·1	..	28·4	24·0	21·9	26·3	68	..	1·8	..	18·2	0	11	19	0	0	0	8	8	8	3	3	0	0
	2330	"	1013·3	1012·4	..	22·4	19·0	16·2	18.4	70	..	0·7	..	5·5	0	1	21	11	9	0	0	0	0	0	2	8	0
Konkan Dahanu.	0830	5	1013·0	1012·5	+0.3	23·7	18·3	14·3	16·3	58	−18	3·0	+0·4	6·3	0	0	26	0	1	12	9	4	0	0	0	8	0
	1730	"	1010·4	1009.9	..	28·5	23·4	21·1	25·0	65	..	2·7	..	14·8	0	3	27	18	2	1	0	0	0	2	7	4	0
Bombay (Colaba)	0830	11	1013·0	1011·8	−0·3	24·9	21·8	20·0	23·4	75	+2	3·3	+1·5	5·5	0	0	28	1	13	12	2	0	0	0	0	2	0
	1130	"	1013·0	1011·8	..	24·9	22·9	19·1	22.1	53	..	2·9	..	4·0	0	0	20	0	7	7	4	0	0	0	2	10	0
	1730	"	1010·1	1008·9	..	28·7	23·6	21·0	24.9	64	..	2·9	..	8.2	0	0	29	2	1	1	1	0	0	6	18	1	0
Bombay (Santacruz Aerodrome).	0230	15	1011·0	1009·3	..	21·7	18·9	17·1	19·5	76	..	1·1	..	(b) 5·2	0	0	18	1	6	11	0	0	0	0	0	12	0
	0530	"	1011·0	1009·3	..	21·0	18·0	16·1	18·3	75	..	1·2	..	(b) 4·3	0	0	17	0	4	13	1	0	0	0	0	12	0
	0830	"	1013·0	1011·3	−0·4	25·7	19·6	15·4	17·5	54	−6	3·0	+1·2	(b) 9·0	0	0	26	0	6	18	3	0	0	0	0	3	0
	1130	"	1012·9	1011·3	..	31·5	21·1	14·4	16·4	36	..	2·8	..	(b) 10·2	0	0	26	1	1	13	8	2	0	1	1	3	0
	1730	"	1010·2	1008·5	..	29·2	22·3	18·3	21.7	53	..	2·8	..	10·0	0	0	29	5	0	1	2	0	0	2	19	1	0
	2330	"	1012·3	1010·6	..	23·0	19.8	17·9	20·5	74	..	1·4	..	(b) 1·8	0	0	10	1	6	3	1	0	0	0	0	19	0
Alibag	0830	7	1012·7	1011·9	−0.3	24.6	20·1	17·3	19·7	65	−2	1·3	−1·0	3·2	0	0	19	2	4	11	2	0	0	0	0	11	0
Harnai	0830	20	1012·6	1010·3	+0·5	26·8	21.6	18·6	21·4	62	+1	4·3	..	6·8	0	3	16	3	3	9	3	1	0	0	0	11	0
	1730	"	1009·7	1007·3	..	28·3	24·2	22·0	26·4	69	..	3·6	..	18·1	0	11	19	2	0	1	0	0	0	8	19	0	0
Ratnagiri	0830	35	1012·6	1008·6	0	25·1	21·4	19·3	22·4	71	..	3·1	..	..	..	..	..	0	0	30	0	0	0	0	0	0	0
	1730	"	1009·4	1005·4	..	29·3	24·4	22·0	26·4	65	..	3·8	..	..	..	..	..	0	0	0	1	0	0	29	0	0	0
Devgad	0830	36	1012·3	1008·3	+0·2	25·4	22·4	20·7	24·4	76	+1	3·9	+0·7	7·3	0	0	28	1	2	23	1	0	0	1	0	2	0
	1730	"	1009·2	1005·2	..	29·5	24·8	22.6	27·4	68	..	4·3	..	16·8	0	6	24	0	0	4	0	0	2	10	14	0	0
Vengurla.	0230	9	1010·5	1009·5	..	23·5	22·2	21·2	25·8	89	..	2·4	..	0·9	0	0	7	5	2	0	0	0	0	0	0	23	0
	0530	"	1010.5	1009·5	..	22·7	21·6	21·0	24·9	90	..	2·3	..	2·0	0	0	11	7	3	1	0	0	0	0	0	19	0
	0830	"	1012·7	1011·7	..	24·7	22·3	21·0	24·9	80	..	3·2	..	2·4	0	0	14	8	2	3	1	0	0	0	0	16	0
	1130	"	1012·3	1011·3	..	31.6	23·5	19·2	22.2	49	..	3·4	..	6·2	0	0	28	2	2	9	8	2	5	0	0	2	0
	1730	"	1009·4	1008·4	..	29·1	24·6	22·4	27·1	68	..	4·5	..	4·7	0	0	24	1	1	0	0	1	5	7	9	6	0
	2330	"	1011·9	1010·9	..	24·4	22·9	22·1	26·6	87	..	3·0	..	1·3	0	0	9	6	1	1	0	0	0	0	1	21	0
Maharashtra (Including Marathwada)																											
Nandurbar	0830	206	1015·2	991·5	..	22·7	14·3	5.8	9·2	34	..	0·4	..	8·0	0	0	28	0	10	15	2	0	1	0	0	2	
	1730	"	1010·6	987·7	..	31·3	17·9	6·6	9·7	22	..	0·3	..	4·6	0	0	24	2	11	5	1	0	1	3	1	6	0

(b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars. At station level	Mean pressure in millibars. Departure from normal.	Mean Temperature in °C. Dry bulb	Mean Temperature in °C. Wet bulb	Mean Temperature in °C. Dew Point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas). Mean amount	Cloud amount (Oktas). Departure from normal.	Mean wind speed Km. per hour.	Wind speed, (Km.p.h.) 62 or more	Wind speed, (Km.p.h.) 20 to 61	Wind speed, (Km.p.h.) 1 to 19	No. of observations. Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Maharashtra (including Marathwada) —(*Contd.*)																											
Jalgaon	0830	201	1016·1	992·7	..	20·0	14·0	8·5	11·1	48	..	1·7	..	13·4	0	2	28	0	1	25	4	0	0	0	0	0	0
	1730	"	1011·2	988·6	..	30·5	18·6	9·3	11·7	28	..	1·6	..	7·9	0	0	25	0	0	20	1	0	0	2	2	5	0
Malegaon	0830	437	1015·6	965·6	+0·1	18·5	12·3	5·9	9·3	44	−14	2·3	+0.4	1·2	0	0	9	1	1	0	0	0	2	1	4	21	0
	1730	"	1009·8	961·9	..	30.3	17·4	6·0	9·3	22	..	1·8	..	7·5	0	0	27	0	17	6	2	1	0	0	1	3	0
Deolali	0830	571	1016·0	951·2	..	19·3	14·8	11·3	13·4	61	..	3·1	..	4·8	0	0	28	18	6	2	2	0	0	0	0	2	0
	1730	"	1010·5	948·2	..	29·0	19·0	12·5	14·5	37	..	2·4	..	5·2	0	0	27	1	7	9	5	0	1	3	1	3	0
Aurangabad	0830	581	1015·3	950·3	0	22·6	14·8	8·4	11 0	41	−13	2.9	+0.7	5·6	0	0	25	0	1	24	0	0	0	0	0	5	0
	1730	"	1010·3	946·9	..	28.4	16·9	7·9	10·7	28	..	2·6	..	5·9	0	0	25	1	3	15	1	2	0	3	0	5	0
Aurangabad (Chikalthana Aerodrome)	0230	579	1014·2	947·8	..	14·8	11·7	9·0	11·5	60	..	1·2	..	0·6	0	0	3	0	0	3	0	0	0	0	0	27	0
	0530	"	1014·6	947·7	..	13·2	10·7	8·4	11·0	73	..	1·0	..	1·1	0	0	4	0	0	4	0	0	0	0	0	26	0
	0830	"	1015·0	950·0	..	21·5	16·1	12·4	14·4	57	..	2·4	..	2·3	0	0	11	0	0	9	2	0	0	0	0	19	0
	1130	"	1013·5	949·7	..	27·1	19·6	15·1	17·1	49	..	2·3	..	11·9	0	4	23	0	1	18	8	0	0	0	0	3	0
	1730	"	1009·9	946·5	..	27·9	19·6	14·4	16·4	45	..	2·4	..	6.3	0	0	22	0	2	14	2	2	0	2	0	8	0
	2330	"	1014·7	948·7	..	17·3	13·4	10·2	12·4	63	..	1·3	..	1·2	0	0	4	0	1	2	1	0	0	0	0	26	0
Ahmednagar	0830	657	1015·3	941·3	−0·1	19·3	14·9	11·6	13·7	61	+2	2·6	+0·3	0·1	0	0	1	0	0	0	0	1	0	0	0	29	0
	1730	"	1009·7	938·1	..	27·1	17·9	11·3	13·4	40	..	2·3	..	2·0	0	0	18	0	5	6	5	1	0	1	0	12	0
Bhir*	0830	519																									
	1730	"																									
Parbhani	0830	423	1016·0	967·8	..	20·7	14·8	9·5	11·9	50	..	3·1	..	6·0	0	0	27	1	13	8	3	1	0	0	1	3	0
	1730	"	1011·1	964·3	..	27·2	17·5	9·7	12·0	33	..	4·2	..	7.6	0	0	30	0	15	14	1	0	0	0	0	0	0
Nanded	0830	358	1015·6	974·6	..	20·7	16·3	12·9	14·9	62	..	1·6	.	1·7	0	0	12	0	11	0	1	0	0	0	0	13	0
	1730	"	1011·2	971·4	..	29·4	21·1	15·9	18·1	45	..	1·3	..	1·9	0	0	14	0	11	0	2	0	1	0	0	16	0
Poona	0530	559	1013·3	949·5	..	16.6	14·9	13·7	15·7	83	..	1·6	..	0·1	0	0	1	0	0	0	1	0	0	0	0	29	0
	0830	"	1015·0	951·7	−0·1	19·3	16.3	14·3	16·3	74	+1	2·9	+1·0	0·4	0	0	3	0	2	1	0	0	0	0	0	27	0
	1130	"	1012·5	951·1	..	27·4	19·3	14·2	16·2	46	..	2·9	..	5·4	0	0	24	1	7	8	6	0	0	0	2	6	0
	1730	"	1009·4	948·1	..	27·9	19·5	14·3	16·3	45	..	2·9	..	1·4	0	0	9	0	3	4	0	0	0	2	0	21	0
	2330	"	1013·4	950·4	..	20·2	17·1	15·1	17·1	73	..	1·6	..	0·3	0	0	2	0	0	2	0	0	0	0	0	28	0
Poona (Lohagaon Aerodrome)	0230	593	1012·9	946·0	..	19·3	15·5	12·7	14·7	67	..	1·9	..	1·8	0	0	8	0	0	5	0	0	0	1	2	22	0
	0530	"	1013·4	946·0	..	17·4	14·5	12·1	14·1	72	..	1·8	..	3·4	0	0	15	0	0	5	0	0	0	8	1	15	0
	0830	"	1014·7	948·0	..	20·7	15·9	12·3	14·3	60	..	3·4	..	4·7	0	0	19	0	3	11	2	0	0	2	1	11	0
	1130	"	1012·9	947·7	..	27·1	18·1	12·3	14·3	40	..	3·6	..	13·6	0	5	24	0	0	16	12	1	0	0	0	1	0
	1730	"	1009·7	944·7	..	27·6	18·0	10·9	13·0	37	..	3·1	..	8·8	0	1	26	0	1	22	1	0	0	3	0	3	0
	2330	"	1013·5	946.9	..	21·0	16·2	12·9	14·9	61	..	2·2	..	5·0	0	1	20	0	1	10	0	0	2	5	3	9	0
Baramati	0330	551	1014·8	952·8	..	20·5	16·9	14.4	16·4	69	..	3·0	..	4·1	0	0	26	3	2	11	3	2	0	3	2	4	0
	1730	"	1009·7	949·3	..	27·5	20·0	15·6	17·7	50	..	3.5	..	5·8	0	0	30	1	12	14	2	0	0	0	1	0	0
Jeur	0830	521	1014·8	955·7	..	19·4	15·8	13·1	15·1	68	..	3·8	..	1·4	0	0	10	1	1	6	0	0	0	1	1	20	0
	1730	"	1009·4	952·3	..	28·3	19·4	13·5	15·5	44	..	4·0	..	4·6	0	0	20	0	5	12	1	0	0	0	2	10	0
Sholapur	0530	479	1013·1	958·7	..	19·0	15·7	13·3	15·3	70	..	3·2	..	3·0	0	1	17	1	6	7	4	0	0	0	0	12	0
	0830	"	1014.6	960·6	+0·2	21·8	17·2	14·0	16·0	62	+5	4·5	+2·3	4·1	0	0	20	0	12	6	2	0	0	0	0	10	0
	1130	"	1013·0	960·2	..	27·9	19·9	15·0	17·0	46	..	3·5	..	11·2	0	3	26	0	3	9	14	2	1	0	0	1	0
	1730	"	1009·5	957·0	..	28·8	19 8	13·8	15·8	44	..	4·2	..	5·2	0	0	29	2	10	8	4	0	0	0	5	1	0
	2330	"	1013·3	959·4	..	22·3	16·9	13·0	15·0	58	..	3·0	..	4·9	0	0	23	1	11	8	3	0	0	1	0	7	0
Miraj	0830	554	1013·6	951·5	−0·4	21·3	17·7	15·3	17·4	69	+7	3·6	+0·8	..	..	..	..	0	1	5	1	0	0	1	0	22	0
	1730	"	1008·4	948·0	..	28·4	19·4	13.5	15·5	43	..	4·4	..	..	..	..	..	0	2	4	2	0	1	0	1	20	0
Kolhapur	0530	570	1012·2	947·8	..	18·5	16·6	15·3	17·4	83	..	3·2	..	4·1	0	0	22	0	7	14	0	0	1	0	0	8	0
	0830	"	1013·6	949·9	−0·2	21·9	18·1	15·7	17·8	69	+2	3·8	+1·9	8·4	0	1	21	0	16	5	1	0	0	0	0	8	0
	1130	"	1011·8	949·3	..	27·4	20·2	15·6	17·7	50	..	4·2	..	17·3	0	9	20	0	5	18	4	1	1	0	0	1	0
	1730	"	1008·6	946·4	..	27·9	19·5	14·9	16·9	46	..	4·5	..	10·3	0	1	27	1	17	8	0	0	0	1	1	2	0
	2330	"	1012.5	948·7	..	21·5	18·1	15·9	18·1	72	..	3·1	..	5·6	0	0	25	0	7	8	2	1	4	3	0	5	0
Vidarbha																											
Buldhana	0830	650	1015·0	942·4	..	21·3	13·9	7.6	10.8	42	..	1·7	..	2·7	0	0	22	0	5	0	6	0	0	0	11	8	0
	1730	"	1010·6	939·5	..	27·0	16·3	7·8	11·0	31	..	1·3	..	1·5	0	0	14	0	9	0	0	0	0	0	5	16	0
Akola	0830	282	1016·0	983·4	+0·4	19·2	13·5	8·1	11·1	49	−8	2·3	+0·5	1·7	0	0	14	0	1	9	4	0	0	0	0	16	0
	1130	"	1014·3	982·7	..	27·9	17·1	7·9	10·7	29	..	1·9	..	3·3	0	0	25	1	2	18	4	0	0	0	0	5	0
	1730	"	1010·9	979·6	..	29·0	17·7	8·4	11·1	28	..	2·5	..	1·0	0	0	10	0	1	3	0	0	0	6	0	20	0
Akola (Aerodrome)	0530	309	1013·8	977·7	..	15·2	11·3	7·2	12·2	60	..	1·4	..	2·8	0	0	23	0	3	18	2	0	0	0	0	7	0
	2330	"	1013·8	978·2	..	19.6	14·0	8·2	13.7	51	..	1·1	..	3.2	0	0	23	0	4	13	6	0	0	0	0	7	0

*Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 61	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—(Contd.)																											
Amraoati	830	370	1015·7	973·4	+0.1	22·0	14·8	8·4	11·1	42	−8	1·5	−0·3	11·1	0	2	28	0	20	10	0	0	0	0	0	0	0
	1730	,,	1010·9	969·8	..	28·2	17·2	7·7	10·8	28	..	1·8	..	7·5	0	0	30	0	4	13	8	2	1	1	1	0	0
Pusad.	0830	334	1016·3	978·1	..	18·9	15·6	13·1	15·0	69	..	1·9	..	1·9	0	0	8	1	1	3	1	0	0	0	2	22	0
	1730	,,	1011·1	973·7	..	29·1	22·7	19·2	22·4	56	..	2·9	..	9·1	0	0	27	0	20	7	0	0	0	0	0	3	0
Yeotmal	0830	451	1015.4	964·2	..	21·1	14·6	8·8	11·3	46	..	1·3	..	4·3	0	0	29	1	12	15	0	1	0	0	0	1	0
	1730	,,	1012.0	961·6	..	26·8	17·0	8·8	11·4	33	..	1·8	..	4·1	0	0	29	1	15	11	1	1	0	0	0	1	0
Nagpur	0230	310	1014·2	978·0	..	15·3	12·5	10·0	12·3	71	..	0·9	..	4·6	0	0	23	12	0	1	0	0	0	0	10	7	0
	0530	,,	1014·8	978 4	..	13·9	11·9	9·9	12·4	77	..	1·3	..	4·5	0	0	27	16	0	0	0	0	0	0	11	3	0
	0830	,,	1016·5	980·7	+0·5	19·1	14·3	10.0	10·5	56	0	2·3	+0.3	4·8	0	0	28	17	11	0	0	0	0	0	0	2	0
	1130	,,	1014·8	980·0	..	27·3	17·3	9·1	11·7	32	..	2·1	..	8·0	0	0	27	0	11	13	3	0	0	0	0	3	0
	1730	,,	1012·0	977·2	..	25·8	16·8	9·3	12·0	36	..	2·6	..	5·9	0	0	29	2	10	14	2	1	0	0	0	1	0
	2330	,,	1014·9	978·9	..	16·8	13·4	10·4	12·8	66	..	1·1	..	3·3	0	0	22	15	1	0	0	0	0	0	6	8	0
Gondia	0830	313	1016·9	980·6	..	18·0	14·5	11·5	13·7	66	..	1·9	..	1·1	0	0	11	3	3	0	1	0	2	0	1	19	1
	1730	,,	1012·4	977.3	..	26·3	17·0	9·4	11·8	35	..	2·5	..	1·5	0	0	13	2	6	0	2	1	0	0	1	17	1
Brahmapuri	0830	229	1017·0	990·5	..	18·9	15·3	11·9	14·5	64	..	1·9	..	2·7	0	0	19	7	7	2	0	0	0	1	2	10	0
	1730	,,	1012.7	986·9	..	26·3	17·5	10·2	15·2	36	..	2 3	..	(b) 2.6	0	0	21	5	10	4	0	1	0	1	0	9	0
Chanda	0830	193	1016·1	993·6	+0.5	19·4	15·8	13·0	15·1	67	−3	3·0	+0·9	3·3	0	0	19	8	4	2	0	1	0	1	3	11	0
	1730	,,	1011·7	989·9	..	25·6	18·7	13·9	15·9	49	..	3·4	..	1·7	0	0	14	4	7	3	0	0	0	0	0	16	0
Sironcha	0830	123	1015·8	1001·5	..	20·1	17·8	16.3	18·7	79	..	3·4	..	2·9	0	0	22	6	6	1	0	0	1	1	7	8	0
	1730	,,	1011·7	997·8	..	27·2	20.7	16·7	18·9	54	..	3·7	..	2·5	0	0	23	5	15	3	0	0	0	0	0	7	0
Coastal Andhra Pradesh																											
Nellore	0530	20	1011·0	1008·7	..	22·8	22·4	22·2	26·7	96	..	5·4	..	1·3	0	0	12	1	3	1	1	0	0	0	6	18	0
	0830	,,	1013·4	1011·0	+0.1	23·8	23·1	22·6	27·4	93	+10	6·4	+1·4	2·8	0	0	23	0	6	1	0	0	0	0	16	7	0
	1130	,,	1012·7	1010·5	..	26·1	23·9	22·9	27·9	83	..	6·6	..	3·7	0	0	24	7	11	1	0	0	0	0	5	6	0
	1730	,,	1010·6	1008·4	.	25·4	23.5	22·5	27·3	85	..	6·6	..	2·9	0	0	27	3	20	1	0	0	0	0	3	3	0
	2330	,,	1012·3	1010·0	.	23·2	22·7	22·4	27·1	95	..	4·5	..	0·9	0	0	8	0	3	0	0	0	0	0	5	22	0
Ongole	0830	12	1013·6	1012 3	..	24·4	22·3	21·0	24·9	82	..	(b) 6·1	..	(b) 3.5	0	0	24	2	20	0	0	1	0	1	0	5	0
	1730	,,	1010·5	1009·2	..	26.4	23·2	21·4	25·5	75	..	5·9	..	0·9	0	0	8	0	4	3	1	0	0	0	0	22	0
Remtachintala	0830	106	1014·6	1002·5	..	24·5	20·8	18·7	21·6	71	−1	5·3	+0·6	0·8	0	0	7	0	2	4	0	0	0	0	1	23	0
	1730	,,	1010·5	988·5	..	28·9	21·0	15·9	18·1	48	..	5·2	..	2·4	0	0	21	3	4	14	0	0	0	0	0	9	0
Gannavaram	0230	24	1011·6	1008·8	..	22·6	21·0	20·1	23·5	86	..	4·5	..	8·5	0	1	24	2	14	6	3	0	0	0	0	5	0
	0530	,,	1012·1	1009·3	..	22·2	20·3	19·4	22·5	85	..	5·1	..	9·1	0	3	20	5	13	3	2	0	0	0	0	7	0
	0830	,,	1014·4	1011·6	..	25·1	21·4	19·0	22·0	71	..	4·7	..	12·7	0	5	25	7	12	11	0	0	0	0	0	0	0
	1130	,,	1013·4	1010·7	..	28·7	22·3	18·7	21·6	56	..	4·8	..	17·8	0	16	14	2	7	21	0	0	0	0	0	0	0
	1730	,,	1001·1	1008·4	..	27·6	21·8	18·1	20·8	59	..	5·5	..	8·8	0	0	29	4	4	17	4	0	0	0	0	1	0
	2330	,,	1013·3	1010·5	..	23·3	21·0	19·6	22·8	80	..	4·3	..	7·1	0	1	24	1	12	9	3	0	0	0	0	5	0
Masulipatam	0830	3	1014·7	1013·6	+0·1	24·6	22·0	20·5	24.1	79	+1	4·6	+1·5	5·0	0	0	30	10	19	0	0	1	0	0	0	0	0
	1730	,,	1013·9	1012·9	..	25·9	22·0	21.5	25·6	76	..	4·9	..	7·2	0	1	27	2	4	9	10	3	0	0	0	2	0
Nidadavolu	0830	12	1014·3	1012·9	..	24·4	21·5	19·8	23·1	76	..	5·7	..	8·7	0	0	29	0	26	2	0	0	0	0	1	1	0
	1730	,,	1011·1	1009·7	..	26·7	22·6	20·4	24·0	69	..	5·8	..	9·2	0	0	27	1	1	21	4	0	0	0	0	3	0
Kakinada	0830	8	1014·4	1013·5	+0·5	27·5	23·0	20·5	24·1	67	−6	3·9	+0·3	13·7	0	1	29	0	30	0	0	0	0	0	0	0	0
	1730	,,	1011·3	1010·4	..	26·8	22·5	20·1	23·5	68	..	4·5	..	13·1	0	0	30	0	30	0	0	0	0	0	0	0	0
Visakhapatnam	0230	3	1012·0	1011·6	..	22·9	20·3	18·8	21·7	78	..	3·3	..	4·2	0	0	22	5	4	1	0	0	0	0	12	8	0
	0530	,,	1012·3	1011·9	..	22·4	19·6	17·9	20·5	77	..	3·7	..	3·3	0	0	18	4	4	0	0	0	0	1	7	12	2
	0830	,,	1014·6	1014·2	+0·4	26·6	21·1	17·6	20·1	59	−7	3·4	−0·3	6·6	0	0	25	4	8	6	0	0	0	2	4	5	1
	1130	,,	1013·6	1013·2	..	29·3	21·4	16·7	19·0	47	..	4·5	..	13·2	0	4	26	4	14	10	0	0	0	0	2	0	0
	1730	,,	1011·6	1011·2	..	26·7	21·2	18·0	20·6	59	..	4·2	..	12·7	0	4	26	0	6	24	0	0	0	0	0	0	0
	2330	,,	1013·4	1013·0	..	23·8	20·5	18·5	21·3	73	..	3.0	..	5·5	0	0	28	1	8	6	0	0	0	1	12	2	0
Calingapatam	0830	6	1014·9	1014·2	+0.8	24·5	22·5	21·5	25·6	84	+5	1·9	−1.0	6·7	0	0	27	7	3	1	0	0	0	2	14	3	0
	1730	,,	1012·1	1011·4	..	26·7	23·6	22·0	26.4	76	..	4·1	..	14·4	0	4	26	0	23	6	1	0	0	0	0	0	0
Telangana																											
Ramagundam	0830	156	1015·1	997·1	..	22·5	17·5	13·9	15·9	59	..	3·0	..	5·1	0	0	26	19	4	1	0	0	0	0	2	4	0
	1730	,,	1011·1	993·6	..	28·4	19·6	13·2	15·2	40	..	3 5	..	5·1	0	0	30	19	9	1	0	0	0	0	1	0	0
Nizamabad	0830	381	1015·2	972·0	+0·6	23·8	17·5	13·2	15·2	53	−15	2·9	+0·7	4·5	0	0	4	6	1	3	0	0	0	0	0	26	0
	1730	,,	1010·9	968·5	..	26·9	19.0	13·0	15·0	44	..	2·6	..	3·7	0	0	6	1	3	1	1	0	0	0	0	24	0
Mahbubnagar	0830	505	1014·0	957.4	..	23·3	18·6	15·5	17·6	64	..	5·1	..	8·9	0	0	29	0	8	20	1	0	0	0	0	1	0
	1730	,,	1009·8	954·1	..	26·9	19·0	13·8	15·8	47	..	6·2	..	6·8	0	0	30	0	10	19	1	0	0	0	0	0	0
Nagarjunkonda	0830	..	..	..	..	25·1	21·0	18·4	21·1	67	..	4·4	..	4·3	0	0	22	5	4	5	4	0	0	1	3	8	0
	1730	..	..	..	..	27.8	21·2	16·9	19·3	54	..	6·0	..	9·9	0	1	28	4	10	9	4	1	1	0	0	1	0
Hyderabad (Begumpet Aerodrome)	0230	545	1012·9	951·1	+0·6	18·0	16·3	15·2	17·3	84	..	3·6	..	2·6			16	1	8	5	2	0	0	0	0	14	0
	0530	,,	1013·4	951·4	..	17·0	15·7	14·8	16·8	87	..	3·8	..	2·4	0	0	16	2	7	5	2	0	0	0	0	14	0

(b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—*Contd.*																											
Hyderabad (Begumpet Aerodrome)—*Contd.*	0830	545	1014·7	953·6	+0.6	21.7	17·9	15·3	17·4	68	+3	5·0	+2.0	6·4	0	1	22	1	7	9	6	0	0	0	0	7	0
	1130	,,	1013·1	952·9	..	26·3	18·9	14·0	16·0	49	..	4·8	..	10·2	0	0	30	0	14	12	4	0	0	0	0	0	0
	1730	,,	1010·5	950·5	..	26·2	18.3	12·8	14·8	45	..	5.4	..	9·5	0	0	30	1	16	10	3	0	0	0	0	0	0
	2330	,,	1004·1	952·5	..	19·4	17·1	15·5	17·6	79	..	3·9	..	3·7	0	0	20	3	7	7	2	1	0	0	0	10	0
Hakimpet	0530	613	1013·2	944·1	..	18·4	16·4	14·7	16·7	80	..	5·3	..	3·6	0	0	22	1	8	9	4	0	0	0	0	8	0
	0830	,,	1014·0	945·6	..	21.9	17·7	14·9	16·9	67	..	5·3	..	8·1	0	0	30	1	10	9	16	0	0	0	0	0	0
	1130	,,	1012·7	945·3	..	25·9	18·9	14·1	16·1	51	..	5·1	..	13·1	0	3	27	0	12	11	6	1	0	0	0	0	0
	1730	,,	1010·2	943·2	..	25·7	18·2	13·5	15·5	45	..	5·2	..	8·6	0	0	30	3	12	12	3	0	0	0	0	0	0
Hanamkonda	0830	269	1014·9	984·6	+0·4	22·7	18·4	15.4	17·5	64	−5	2·6	−0·5	3·0	0	0	25	13	5	1	0	3	0	1	0	5	0
	1730	,,	1011·2	981·1	..	27·3	19.6	14·1	16 1	47	..	3·1	..	3·2	0	0	27	8	9	8	1	1	0	0	0	3	0
Bhadrachallam	0830	111	1014 9	1002 1	..	22·3	20·1	18·8	21·7	80	..	5·7	..	2·7	0	0	22	4	15	0	1	1	0	1	0	8	0
	1730	,,	1010·8	997.9	..	28·3	21·5	17·5	20·0	53	..	4·6	..	2·5	0	0	28	2	20	3	3	0	0	0	0	2	0
Khammameth	0830	112	1014·6	1001·7	..	23·4	20·4	18·1	21·6	75	..	5·8	..	1·5	0	0	13	5	2	4	1	0	0	0	1	17	0
	1730	,,	1010·6	997·9	..	28·8	20·7	15·1	17·1	45	..	5·6	..	4·6	0	0	26	6	4	14	1	1	0	0	0	4	0
Rayalaseema Arogyavaram	0830	701	1013·7	935·6	..	20·4	18·9	18·0	20·6	87	..	6·6	..	2·7	0	0	20	6	7	3	1	0	0	0	3	10	0
	1730	,,	1010·3	932·9	..	22·2	19·4	17·6	20·1	78	..	6·7	..	5·0	0	0	25	12	8	4	1	0	0	0	0	5	0
Guddapah	0830	130	1014·1	999·1	+0·4	24·0	22·2	21·2	25·2	85	+9	5·1	+1·3	0·1	0	0	1	0	0	1	0	0	0	0	0	29	0
	1730	,,	1010·6	995·8	..	25·7	23·1	21·8	26·1	80	..	5·8	..	3·1	0	0	18	0	4	13	0	0	0	1	0	12	0
Anantapur	0530	350	1011·7	971·8	..	20·8	19.6	18·8	21·7	89	..	5·0	..	2.7	0	1	10	0	1	10	0	0	0	0	0	19	0
	0830	,,	1013·6	974·0	..	22·7	20·4	19·0	22·0	80	..	5·4	..	4·3	0	0	20	1	4	14	0	0	0	0	1	10	0
	1130	,,	1012.8	973·6	..	25·8	21·0	18·0	20·6	64	..	5·7	..	10·1	0	2	26	0	11	16	0	0	0	0	1	2	0
	1730	,,	1009·9	970·8	..	26·3	21·1	17·7	20·2	61	..	5·3	..	11·8	0	4	24	0	11	16	1	0	0	0	0	2	0
	2330	,,	1012·6	973·0	..	22·8	20·4	18·9	21·8	79	..	4·4	..	6·8	0	1	22	0	2	19	2	0	0	0	0	7	0
Kurnool	0830	281	1014·3	982·3	+0.5	22·6	19·8	18·1	20·8	76	+5	4·9	+1·9	1·1	0	0	10	0	0	6	0	0	0	3	1	20	0
	1730	,,	1010·0	978·7	..	28·2	20·8	15·9	18·1	50	..	4·5	..	3·3	0	0	16	0	0	9	1	0	0	6	14	0	0
Madras State Palayamcottai	0830	51	1012·2	1006·4	..	25·3	23·3	22·3	26·9	84	..	7·3	..	3·0	0	0	25	13	0	0	0	6	0	1	5	5	0
	1730	,,	1009·1	1003·3	..	26·0	23·9	22·7	27·6	81	..	7·3	..	4·2	0	0	26	8	2	3	5	1	0	7	0	4	0
Tuticorin	0830	4	1012·4	1012·0	..	25·7	23·9	22·9	27·9	85	..	6·9	..	7·6	0	0	29	8	5	1	1	1	1	2	10	1	0
	1730	,,	1009·1	1008·7	..	27·2	24·4	23·1	28·3	78	..	6·7	..	14·8	0	7	22	6	6	5	7	2	1	1	1	1	0
Pamban	0830	,,	1011·9	1010·6	+0·1	25·8	24·3	23·7	29·3	88	+5	6·2	+2·2	7·2	0	1	27	9	0	0	1	1	2	2	13	2	0
	1730	,,	1008·8	1007·5	..	26·4	24·5	23·5	28·9	84	..	6·0	..	4·8	0	0	24	12	3	0	1	1	0	0	7	6	0
Tondi	0830	5	1012·0	1011·4	..	24·7	23·2	22·4	27·1	87	..	6·7	..	3·7	0	0	10	2	0	0	1	0	0	0	7	20	0
	1730	,,	1009·0	1008·4	..	29.6	23·7	22·2	26·7	76	..	6·8	..	11·6	0	2	22	5	9	6	1	1	0	0	2	6	0
Mathutai	0830	133	1012·0	996.9	−0.4	24·6	22·9	22·1	26·6	86	+6	7·1	+2·0	3·6	0	0	23	4	10	0	0	0	2	1	6	7	0
	1730	,,	1008·6	993·6	..	26·9	23·7	22·1	26·6	76	..	7·4	..	6·5	0	0	29	6	14	3	4	1	0	0	1	1	0
Mathutai (Aerodrome)	0530	131	1010·1	995·1	..	22·8	22·2	21·8	26·1	94	..	6·9	..	3·3	0	0	18	4	9	1	0	2	1	1	0	12	0
	0830	,,	1012·1	997·2	..	24·7	22·9	22·0	26·4	85	..	6·8	..	7·4	0	1	26	9	13	0	0	0	4	0	1	3	0
	1130	,,	1011.3	996.1	..	27.1	23·5	21·6	25·8	72	..	6·4	..	7·3	0	2	28	7	17	2	0	1	1	1	1	0	0
	1730	,,	1008.8	994.0	..	26·4	23·1	21·4	25·5	76	..	6·7	..	8.4	0	3	24	4	13	7	2	0	0	0	0	3	1
Adhirampattinam	0830	6	1011·6	1010.9	..	24·3	23·2	22·7	27·6	91	..	7·3	..	9·2	0	1	29	7	8	0	1	0	1	1	12	0	0
	1730	,,	1008·9	1008·2	..	26·0	24·0	23·0	28·1	84	..	7·6	..	9.1	0	1	28	4	16	0	0	1	1	0	7	1	0
Vadaraniyam	0830	4	1011·4	1010·9	..	24·9	23·6	22·9	27·9	89	..	7·5	..	8·6	0	0	30	6	7	2	3	0	0	1	11	0	0
	1730	,,	1008·5	1008·0	..	25·8	24·0	23·1	28·3	86	..	7·5	..	9·7	0	0	29	10	12	1	0	1	0	0	5	1	0
Nagapattinam	0830	9	1012·1	1011·0	0	24·5	23.3	22.6	27·4	89	+7	7·2	+1.8	9·1	0	1	28	3	7	1	1	0	0	3	14	1	0
	1730	,,	1009·1	1008·0	..	25.9	23·9	23·0	28·1	84	..	7·3	..	14·6	0	5	25	10	9	3	1	0	1	1	5	0	0
Tiruchirapalli	0230	88	1010·1	1000·0	..	23·2	22·3	21·8	26·1	92	..	6·5	..	10·1	0	3	26	8	11	2	0	0	0	3	5	1	0
	0530	,,	1010·5	1000·5	..	22·6	21·9	21·6	25·8	94	..	6·8	..	6·4	0	0	24	5	8	1	0	0	0	4	6	6	0
	0830	,,	1012·7	1002·6	−0·1	24·1	22·6	21·8	26·1	87	+6	6·5	+2.0	8·8	0	0	29	9	3	1	0	0	0	5	11	1	0
	1130	,,	1011·9	1001·9	..	26·2	22·9	21·1	25·0	76	..	6·5	..	12·7	0	4	26	6	7	3	1	0	0	3	10	0	0
	1730	,,	1009·5	999·5	..	25·7	22·8	21·3	25·3	79	..	7·0	..	10·8	0	0	30	4	16	3	0	2	1	1	3	0	0
	2330	,,	1011·9	1001·8	..	23·8	22·6	22·0	26·4	87	..	6·2	..	8·5	0	1	26	7	12	4	0	1	0	0	3	3	0
Coimbatore	0830	409	1012·7	966·7	−0·1	22·9	20·8	19·6	22·8	82	0	6·8	+2.5	6.8	0	0	26	1	11	10	2	0	1	1	0	4	0
	1730	,,	1008·9	963·6	..	26·0	22·2	20·1	23·5	72	..	6·5	..	8·1	0	0	30	2	8	10	4	3	2	0	1	0	0
Coimbatore (Peelamedu Aerodrome)	0530	399	1011·0	965·9	..	21·1	20.5	20·2	23·7	94	..	5.8	..	4·8	0	1	17	1	5	1	0	0	1	6	4	12	0
	0830	,,	1012·8	967·9	..	22·9	21·2	20·3	23·8	86	..	5·9	..	5·8	0	0	25	1	11	5	1	1	2	3	1	5	0
	1130	,,	1011·8	967·3	..	25·5	21·8	19·6	22·8	70	..	6·3	..	11·3	0	3	24	4	17	6	0	0	0	0	0	3	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Coimbatore (Peelamedu Aerodrome)—*contd*	1730	399	1008·9	964·6	..	25·8	21·8	19·5	22·7	70	..	6·0	..	9·1	0	2	26	1	16	5	2	1	2	0	1	2	0
	2330	"	1012·3	967·2	.	22·3	21·1	20·4	24·0	89	..	5·4	..	5·7	0	0	21	1	8	2	0	4	1	3	2	9	0
Salem	0530	278	1010·4	978·8	..	21·7	20·6	19·9	23·2	90	..	6·9	..	0·7	0	0	7	0	4	2	0	0	0	1	0	23	0
	0830	"	1012·5	981·0	−0·2	23·3	21·3	20·3	23·8	83	+5	6·3	+2·1	2·2	0	0	13	0	6	6	0	0	0	1	0	17	0
	1130	"	1011·6	980.4	..	26·2	22·2	20·0	23·4	71	..	6·7	..	2·6	0	0	20	2	4	6	1	0	0	5	2	10	0
	1730	"	1008·9	977·7	..	25 7	22·0	20·0	23·4	73	..	7·1	..	2·8	0	0	21	0	4	14	0	0	0	3	0	9	0
	2330	"	1011·8	980·3	..	23·0	21·1	20·1	23·5	84	..	6.5	..	2·0	0	0	13	1	6	6	0	0	0	0	0	17	0
Kallakurichi	0830	127	1012·3	997·9	..	24·1	22·3	21·4	25·5	84	..	6·1	..	5·4	0	0	23	16	0	0	0	1	0	0	6	7	0
	1730	"	1009·8	995·1	..	25·3	22·5	21·0	24·9	79	..	6·3	..	5·1	0	0	22	11	8	0	0	0	0	0	3	8	0
Cuddalore	0530	12	1009·7	1008·4	.	23·2	22·6	22·3	26·9	95	..	7·5	..	3·0	0	1	12	7	3	1	0	0	0	0	2	17	0
	0830	"	1012·3	1010·9	−0.3	24·3	23·1	22·5	27·3	90	+6	7·4	+2·5	4·7	0	0	23	16	0	1	0	0	0	0	6	7	0
	1130	"	1011·6	1010·3	..	26·0	23·7	22·5	27·3	82	..	7·1	..	6·3	0	0	22	11	10	1	0	0	0	0	3	5	0
	1730	"	1009·4	1008·7	..	25·3	23·6	22·8	27·7	86	..	7·4	..	2·8	0	0	20	11	7	1	0	0	0	0	1	10	0
	2330	"	1011·5	1010·1	..	24·0	23·0	22·5	27·3	92	..	7·2	..	2·9	0	0	15	10	3	0	0	0	0	0	2	15	0
Tiruppattur	0830	390	1012.9	968·7	..	21·5	20·8	20·3	24·6	93	..	6·8	..	3·9	0	0	16	12	3	0	0	0	0	1	0	14	0
	1730	"	1009·4	965·8	..	24·6	21·5	19 7	22·9	76	..	6·6	..	5·5	0	0	22	10	6	4	0	1	0	1	0	8	0
Vellore	0530	214	1011·2	986·7	..	21·8	21·3	21·1	25·0	96	..	6·7	..	2·0	0	0	16	0	13	3	0	0	0	0	0	14	0
	0830	"	1013·1	988·6	+0·2	22·9	21 8	21·2	25·2	90	+6	6·5	+2·4	0·6	0	0	3	0	2	1	0	0	0	0	0	27	0
	1130	"	1012·2	987·9	..	25·7	22·3	20·4	24·0	74	..	6·5	..	5·9	0	0	28	5	21	1	0	0	0	1	0	2	0
	1730	"	1009·8	985·6	..	25·0	22·0	20·3	23·8	77	..	6·7	..	2·8	0	0	22	0	18	3	0	0	0	0	1	8	0
	2330	"	1012.3	987·9	..	22·8	21·8	21·3	25·3	91	..	6·6	..	2·4	0	0	18	0	16	2	0	0	0	0	0	12	0
Tambaram (Aerodrome)	0830	29	1012·4	1009 1	..	24·1	23·3	22·8	27·7	93	..	7·0	..	12·4	0	2	28	15	1	1	1	0	0	1	10	0	1
	1730	"	1009·7	1006·3	..	25·3	23·6	22·7	27·6	87	..	7·0	..	15·7	0	7	21	12	9	3	0	0	0	0	4	2	0
Madras	0230	16	1010·1	1008·3	..	23·6	22·8	22·3	26·9	93	..	6·1	..	8·3	0	1	26	9	1	0	1	0	0	1	15	3	0
	0530	"	1010·4	1008 6	..	23·3	22·5	22·0	26·4	93	..	6·9	..	9·5	0	3	26	10	2	0	1	0	0	3	13	1	0
	0830	"	1012·8	1011·0	−0·2	24·3	23·1	22·5	27·3	90	+7	6·9	+2·1	11.4	0	4	24	14	2	1	0	1	0	0	10	2	0
	1130	"	1011·9	1010·2	..	26.1	23·7	22·5	27·3	82	..	7·1	..	17·0	0	9	21	19	4	2	0	0	0	0	5	0	0
	1730	"	1010·0	1008·2	..	25·3	23·2	22·1	26·6	33	..	7·2	..	13·5	0	3	26	17	6	4	0	0	0	0	2	1	0
	2330	"	1011·9	1010·1	..	24·0	23·1	22·5	27·3	92	..	6·4	..	10·4	0	4	24	10	4	0	1	0	2	0	10	2	1
Madras (Nungambakkam).	0830	6	1012·7	1012·0	..	24·5	23·4	22·9	27·9	90	..	6·7	..	5·3	0	0	25	11	6	1	0	0	0	0	7	5	0
Coastal Mysore																											
Karwar	0830	4	1012·0	1011·5	−0·3	26·0	23:2	21·8	26·1	78	..	3·0	..	4·3	0	0	22	0	6	13	3	0	0	0	0	8	0
	1730	"	1009·3	1008·8	..	28·5	25·0	23·3	28·6	74	..	3·0	..	7·2	0	1	21	0	2	1	3	1	1	5	9	8	0
Honavar	0830	26	1012·2	1009.2	−0·2	25·1	22·1	20·5	24·1	76	+6	5·2	+1·1	5·3	0	0	25	6	6	13	0	0	0	0	0	5	0
	1730	"	1009·0	1006·0	..	29·1	24·5	22·0	26·4	66	..	5·0	..	6·5	0	0	29	1	2	2	1	3	4	12	4	1	0
Mangalore	0830	22	1011·9	1009.4	−0·3	26·3	23·6	22·3	26·9	79	+4	4·9	+1·5	6·0	0	0	30	1	3	22	3	1	0	0	0	0	0
	1730	"	1008·8	1006.3	..	28·4	24·9	23·3	28·6	74	..	6·0	..	5·9	0	0	30	5	0	2	1	3	5	5	9	0	0
Mangalore (Bajpe Aerodrome)	0230	102	1009·7	998·1	..	23·6	22·9	22·5	27·3	94	..	4·8	..	3·8	0	1	18	0	1	13	4	0	0	0	1	11	0
	0530	"	1009·9	998·2	..	23·0	22·3	22·0	26·4	94	..	4·8	..	5·5	0	0	27	1	0	20	4	1	0	1	0	3	0
	0830	"	1011·9	1000·3	..	25·0	23·3	22·4	27·1	86	..	4·8	..	4·7	0	0	24	1	0	13	10	0	0	0	0	6	0
	1130	"	1011·3	999·9	..	29·2	24·1	21·6	25.8	64	..	4·6	..	4·7	0	0	24	2	2	6	10	2	0	1	1	6	0
	1730	"	1008 7	997·2	..	27·3	24·1	22·5	27 3	76	..	5·7	..	6·8	0	0	28	3	0	0	1	1	2	9	12	2	0
	2330	"	1011·3	999·8	..	24·4	23·3	22·7	27·6	90	..	5·2	..	4·4	0	0	23	1	4	9	5	1	0	1	2	7	0
Interior Mysore (North)																											
Bidar	0830	664	1014·3	940·1	..	21·0	16·4	13·1	15·1	62	+2	4·9	+2·4	11·3	0	2	28	1	13	6	10	0	0	0	0	0	0
	1730	"	1010·0	937·0	..	25·1	17·3	11·4	13·5	46	..	5·0	..	9·9	0	1	29	0	28	0	0	0	0	0	2	0	0
Gulbarga	0830	458	1014·5	963·1	+0·4	23·7	18·0	14·3	16·3	55	−6	4·0	+1·9	11·2	0	2	24	0	8	18	0	0	0	0	0	4	0
	1730	"	1009·6	959·2	..	28·4	18·9	12·3	14·3	39	..	6·1	..	22·2	0	10	18	3	14	9	1	1	0	0	0	2	0
Bijapur	0830	594	1014·4	947 7	+0·2	20·9	17·8	15·7	17·8	73	+11	4·5	+1·8	2·1	0	0	18	3	5	3	3	2	0	1	1	12	0
	1730	"	1009·2	944·2	..	27·1	19·5	14·7	16·7	50	..	5·0	..	1·8	0	0	20	7	6	5	1	0	0	0	1	10	0
Belgaum	0830	753	1013.3	929·9	−0·1	20·9	18·3	16·6	18·9	77	+11	3·4	+0·6	6·1	0	0	22	0	2	20	0	0	0	0	0	8	0
	1730	"	1008·1	926·7	..	27·0	19·9	15·7	17·8	52	..	4·9	..	7·1	0	0	30	1	8	16	2	1	0	1	0	0	1
Belgaum (Sambre Aerodrome)	0530	747	1012·3	928·8	..	18·4	16·3	14·9	16·9	81	..	3·8	..	3·6	0	0	22	0	1	21	0	0	0	0	0	8	0
	0830	"	1013·3	930·7	..	22·0	18·1	15·3	17·4	68	..	3·9	..	8·3	0	0	23	0	1	21	1	0	0	0	0	7	0
	1130	"	1011·9	930·4	..	26·0	19·2	14·9	16·9	52	..	4·5	..	13·4	0	0	30	0	3	23	4	0	0	0	0	0	0
	1730	"	1008·6	927·6	..	26·9	19·1	14·1	16·1	48	..	4·7	..	8.8	0	0	27	3	3	19	1	0	0	0	1	3	0
Gadag	0530	650	1012·0	939·3	..	19·7	18·0	16·1	19·3	84	..	2·7	..	4·6	0	0	19	0	4	13	2	0	0	0	0	11	0
	0830	"	1013·5	941·4	+0·4	22·8	19·5	17·4	19·9	72	+7	5·1	+2·3	5.3	0	0	19	0	7	10	2	0	0	0	0	11	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (north)—*contd.* **Gadag**—*contd.*																											
	1130	650	1012·1	941·0	..	27·2	20·5	16·4	18·6	54	..	4·8	..	9·9	0	0	28	0	9	17	2	0	0	0	0	2	0
	1730	,,	1008·5	937·8	..	27·5	20·2	15·7	17·8	51	..	5·0	..	7·3	0	0	28	4	14	9	1	0	0	0	0	2	0
	2330	,,	1012·5	940·3	..	22·1	18·5	16·2	18·4	69	..	3·8	..	8·7	0	1	27	1	0	21	6	0	0	0	0	2	0
Raichur	0830	400	1013·9	968·9	+0·1	24·0	19·7	17·0	19·4	69	+4	4 9	+2·5	5.7	0	0	29	0	3	1	6	5	5	7	2	1	0
	1730	,,	1009·8	965·7	..	28·1	20·4	15·1	17·1	48	..	5·3	..	7·6	0	0	27	0	15	2	10	0	0	0	0	3	0
Interior Mysore (South)																											
Bellary	0830	449	1013·6	963·1	0	22 6	20·3	19·0	22·0	80	+12	6·1	+2·6	2·0	0	0	12	0	4	0	8	0	0	0	0	18	0
	1730	,,	1009·2	959·6	..	27·4	21·6	17·8	20·4	59	..	6·3	..	4·1	0	0	25	0	7	0	18	0	0	0	0	5	0
Chitaldrug	0830	733	1013·2	931·7	+0.3	20·1	18·6	17·4	19·9	84	+14	5·6	+1·7	5·2	0	0	26	0	0	25	1	0	0	0	0	4	0
	1730	,,	1008·0	928·2	..	25·4	18·9	14·6	16·6	55	..	4·7	..	4·8	0	0	29	0	5	24	0	0	0	0	0	1	0
Shimoga	0830	571	1012·8	948·8	..	21·2	19·4	18·4	21·1	85	..	5·6	..	5·8	0	0	22	2	8	8	2	0	1	1	0	8	0
	1730	,,	1007·8	945·2	..	26·2	20·9	18·0	20·6	63	..	5·9	..	6.7	0	0	23	2	6	11	2	1	1	0	0	7	0
Balehonnur	0830	..	..	..	..	18·2	17·3	16·7	19·0	92	+7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1519·1	907·3	..	19·7	17·9	16·8	19·1	84	+8	5·7	+1·7	4·1	0	0	25	0	2	12	9	0	1	0	1	5	0
	1730	,,	1500·0	904·6	..	23·2	19·0	16·4	18·6	68	..	5·9	..	4·5	0	0	28	3	4	9	11	0	1	0	0	2	0
Mysore	0830	767	1012·7	927·8	−0·1	21·2	19·1	17·8	20·4	82	+5	6·0	+1·4	5·7	0	0	27	1	4	21	1	0	0	0	0	3	0
	1730	,,	1008·9	925·3	..	24·9	21·3	19·4	22·5	72	..	5·6	..	8·3	0	0	28	0	2	25	0	0	1	0	0	2	0
Bangalore (Central Observatory).	0230	921	1497·5	909·5	..	18·3	17·6	17·1	19·5	93	..	6·0	..	7·1	0	0	28	0	13	15	0	0	0	0	0	2	0
	0830	,,	1520·5	911·7	0	19·8	18·0	16·8	19·1	84	+6	6·5	+2·0	8·6	0	0	30	1	11	18	0	0	0	0	0	0	0
	1130	,,	1523·2	911·3	..	22·6	18·7	16·1	18·3	69	..	6·6	..	10·7	0	1	29	2	13	13	2	0	0	0	0	0	0
	1730	,,	1500·4	909·1	..	21·7	18·3	16·1	18·3	73	..	6·4	..	7·9	0	0	30	3	14	13	0	0	0	0	0	0	0
Bangalore (Aerodrome)	0530	897	1498·2	912·3	..	18·1	17·6	17·3	19·7	95	..	6·0	..	5·6	0	0	17	4	9	3	1	0	0	0	0	13	0
	0830	,,	1520·7	914·2	..	20·1	18·4	17·4	19·9	85	..	6·6	..	9·8	0	0	26	2	11	13	0	0	0	0	0	4	0
	1130	,,	1524·1	913·9	..	23·2	19·3	16·9	19·3	70	..	6·5	..	14·3	0	1	29	2	13	15	0	0	0	0	0	0	0
	1730	,,	1501·6	911·7	..	22·3	19·1	17·1	19·5	75	..	6·5	..	11·0	0	0	27	5	13	8	1	0	0	0	0	3	0
	2330	,,	1515·0	913·8	..	19.2	18·2	17·5	20.0	90	..	5·9	..	5·7	0	0	20	3	10	7	0	0	0	0	0	10	0
Kerala																											
Kozhikode	0530	5	1010·0	1009·4	..	23·6	22·9	22·5	27·3	94	..	5·6	..	7.1	0	0	29	0	6	22	1	0	0	0	0	1	0
	0830	,,	1012·0	1011·4	−0·3	25 2	23·5	22·7	27·6	86	+4	5·1	+0·9	5·5	0	0	27	1	4	20	2	0	0	0	0	3	0
	1130	,,	1011·5	1010·9	..	28·2	24·8	23·1	28·3	74	..	5·0	..	10·0	0	3	27	0	0	0	0	3	11	12	4	0	0
	1730	,,	1008·9	1008·3	..	27·8	24 8	23·4	28·8	78	..	6·2	..	11·9	0	3	27	0	3	2	1	4	8	4	8	0	0
	2330	,,	1011·6	1011·0	..	24·7	23·6	23.0	28·1	91	..	5·6	..	7·9	0	1	28	2	10	15	1	0	0	2	0	0	0
Palghat	0830	97	1012·2	1001·1	..	25·6	23·1	21·8	26·1	80	..	5·6	..	7·4	0	0	25	0	0	20	4	1	0	0	0	5	0
	1730	,,	1008·7	997·8	..	27·6	24·0	22·3	26·9	74	..	6·4	..	6·6	0	1	27	1	0	8	6	0	0	8	5	2	0
Port Cochin	0830	3	1011·9	1011·6	−0·1	26·1	24·3	23·5	28·9	85	+6	6·4	+2·4	3·8	0	0	21	4	5	5	3	1	0	1	2	9	0
	1730	,,	1008·8	1008·5	..	27·1	24·5	23·3	28·6	80	..	7·2	..	6·1	0	0	25	1	1	0	1	2	4	8	8	5	0
Cochin (Naval Air Station).	0230	3	1010·0	1009·7	..	24·3	23·5	23·1	28 3	93	..	6·3	..	5·9	0	1	22	3	1	13	4	1	0	0	1	7	0
	0530	,,	1010·0	1009·7	..	24·1	23·3	22·9	27·9	94	..	5·8	..	3·2	0	0	17	1	2	8	4	0	0	0	2	13	0
	0830	,,	1012·0	1011·7	..	25·8	24·0	23·1	29·8	85	..	5·8	..	5·8	0	0	25	3	4	9	8	1	0	0	0	5	0
	1130	,,	1011·7	1011·4	..	28·7	24·8	23·1	28·3	72	..	6·1	..	9·3	0	1	24	4	0	2	5	3	4	2	5	5	0
	1730	,,	1009·0	1008·7	..	27·5	24·4	22·9	27·9	77	..	6·4	..	13·8	0	6	22	1	1	0	1	4	7	8	6	2	0
	2330	,,	1011·7	1011·4	..	24·9	23·7	23·2	28·4	90	..	6·6	..	6·6	0	0	24	2	3	9	7	0	1	0	2	6	0
Alleppey	0830	4	1011·6	1011·2	..	25·9	24·6	24·5	30·7	90	..	6·0	..	5·5	0	1	29	1	4	9	13	0	1	1	1	0	0
	1730	,,	1008·5	1008·1	..	27·2	24·9	23·9	29·7	83	..	6·3		11·7	0	1	29	3	3	0	5	0	1	4	14	0	0
Punalur	0830	34	1011·7	1007·8	..	24·1	23·4	23·1	28·3	94	..	6·2	..	0·3	0	0	3	0	0	1	0	1	0	0	1	27	0
	1730	,,	1008·6	1004·9	..	26·5	24·2	23·2	28·4	83	..	7·1	..	2·4	0	0	20	0	0	0	5	0	5	2	8	10	0
Trivandrum	0230	64	1009·8	1002·4	..	23·5	23·1	22·9	27·9	96	..	5·7	..	3·4	0	1	19	5	7	5	1	0	0	0	2	10	0
	0530	,,	1010·0	1002·6	..	23·2	22·8	22·6	27·4	96	..	6·6	..	2·8	0	0	16	5	5	4	1	0	0	0	1	14	0
	0830	,,	1012·0	1004·7	+0·2	24·9	23·8	23·3	28·6	91	+6	6·0	+1·0	3·1	0	0	25	6	2	1	12	1	0	0	3	5	0
	1130	,,	1011·3	1004·0	..	27·4	24·5	23·2	28·4	78	..	6·7	..	5·1	0	0	27	0	1	2	3	6	6	1	8	3	0
	1730	,,	1009·3	1002·0	..	26·0	24·2	23·3	28·6	85	..	6·9	..	4·2	0	0	26	1	4	1	4	4	2	4	6	4	0
	2330	,,	1011·5	1004·2	..	23·9	23·4	23·1	28·3	95	..	6 6	..	4·0	0	0	23	7	7	6	2	0	0	0	1	7	0
Trivandrum (Aerodrome)	0830	8	1011·9	1011·0	..	25·8	23·9	23·0	28·1	85	..	6·4	..	5·0	0	0	26	6	12	3	1	0	1	0	2	4	1
Arabian Sea Islands																											
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									

*Data given as addenda in "December, 1960" issue.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure millibars: At station level	Mean pressure millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Okts): Mean amount	Cloud amount (Okts): Departure from normal	Mean wind speed, Kms. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—																											
Walong (R) Kohima	0830	1406	1570.4	866·9	..	15·8	12·6	10·0	12·3	71	..	2·1	..	1·9	0	0	28	6	5	5	3	2	0	2	5	2	0
	1730	„	1544·0	864·2	..	15·5	13·6	12·8	14·3	84	..	4·2	..	2·0	0	0	30	3	2	0	2	0	6	9	8	0	0
Aijal	0830	..	..	..	..	19·0	16·1	13·9	16·2	75	..	..	..	2·5	0	0	25	0	0	15	4	1	1	2	2	5	0
	1730	..	..	..	..	20·8	16·9	14·6	16·5	70	..	..	..	2·2	0	0	22	0	0	0	0	0	7	15	0	8	0
Shillong	0830	1500	1534·3	853 6	+0.5	16·1	11·7	7·4	10·5	59	—9	2·4	+0·3	0·5	0	0	4	0	3	1	0	0	0	0	0	26	0
	1730	„	1506·3	850·8	..	15·7	13·2	11·7	13·3	81	..	7·0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Cherrapunji (R)	0830	1313	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	„	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Darjeeling (Raj Bhawan)	0830	2128	1555·9	794·2	+2·8	10·2	8·1	5·9	9·4	76	+15	3·5	+0·6	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	„	1530·2	792·0	..	10·2	8·9	7·8	9·6	86	..	3 1	..	0·1	0	0	1	0	0	0	0	0	0	0	0	29	0
Kalimpong	0830	1209	1477·3	877·5	—5·7	14·6	12·9	12·0	13·6	84	+10	1·0	—1·2	3·6	0	0	28	3	0	0	0	0	0	4	21	2	0
	1730	„	1474·5	877·2	..	15·3	13·7	13·2	14·5	85	..	2·0	..	3·9	0	0	30	0	0	0	24	6	0	0	0	0	0
Mukteshwar (Kumaon)	0830	2311	3142·8	774·9	—0·1	9·1	4·1	—3·6	4·5	44	0	0·4	—0·9	8·9	0	1	25	0	3	6	1	0	0	8	8	4	0
	1730	„	3126·7	773·4	..	9·3	6·0	2·4	7·5	63	..	0·8	..	9·5	0	0	27	0	0	0	1	1	3	13	9	3	0
Nainital	0830	1953	1524·5	807·3	..	10·1	5·4	—0·9	5·7	47	..	0·4	..	3·4	0	0	11	3	1	6	1	0	0	0	0	19	0
	1730	„	1499·8	805·5	..	9·4	6·2	2·7	7·4	64	..	0·9	..	6·9	0	0	29	1	0	0	0	1	1	26	0	1	0
Joshimath	0830	..	..	..	..	9·5	4·3	—2·7	4·9	45	..	0·6	..	6.8	0	0	29	0	1	21	6	1	0	0	0	1	0
	1730	..	..	..	..	11·6	6·3	0·4	6·3	46	..	2·1	..	5·1	0	0	30	0	0	1	3	16	8	2	0	0	0
Badrinath*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpal	0830	..	..	..	..	—5·0	—6·9	—10·7	2·4	64	..	0·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooree	0830	2042	1513·1	798·5	—1·1	11·2	5·5	—1·8	5·3	42	—5	0·8	—0·4	1·5	0	0	16	2	0	0	5	6	2	0	1	14	0
	1730	„	1503·8	797·4	..	9·6	6·7	3·5	7·9	65	..	0·4	..	2·8	0	0	27	1	0	0	10	12	4	0	0	3	0
Simla	0830	2202	1519·8	784·1	+0 1	11·0	3·6	—8·5	3 0	27	—7	0·7	—0 6	2·4	0	0	24	1	3	2	7	6	4	1	0	6	0
	1730	„	1513·9	783·3	..	9·6	4·7	—2·1	5·1	45	..	0·5	..	3·0	0	0	30	3	3	1	5	7	7	0	4	0	0
Dalhousie	0830	1959	1473.3	802·6	..	12·0	6·0	—0·2	6·0	41	..	0·3	..	0·2	0	0	1	0	1	0	0	0	0	0	0	29	0
	1730	„	1450.2	801·4	..	11·5	11·2	3·9	8·1	55	..	0·3	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Dharamsala	0830	..	..	..	..	15·1	9·4	3·2	7·7	45	..	1·6	..	0·7	0	0	11	5	2	2	0	0	0	0	2	19	0
	1730	..	..	..	..	17·4	11·0	4·6	8·5	43	..	1·7	..	2·0	0	0	30	0	0	0	1	0	16	12	1	0	0
Abu	0830	1195	1534·8	834·5	—0·4	16·1	9·5	1·9	6·9	40	—5	0·3	—0·7	0·4	0	0	4	0	0	0	0	0	0	2	2	26	0
	1730	„	1526·3	883·3	..	21.4	11·8	1·8	6·9	28	..	0·5	..	1·4	0	0	6	2	2	0	0	0	1	1	0	24	0
Pachmarhi	0830	1075	1542·9	898·2	+0 6	17·1	12·0	7·1	10 4	54	—3	1·5	0	1·2	0	0	12	0	8	2	1	1	0	0	0	18	0
	1730	„	1527·4	895·9	..	21·5	14·4	8·6	10·8	44	..	1·9	..	2·2	0	0	22	2	11	3	1	0	0	0	5	8	0
Mahabaleshwar	0830	1382	1529·4	865·0	+0·3	18.2	13·9	10 2	12.4	62	—4	3·1	+0·9	11·9	0	1	29	0	0	25	4	1	0	0	0	0	0
	1730	„	1513·4	863·3	..	20·1	15·3	11·8	13.8	60	..	3·0	..	9·1	0	0	30	0	8	12	2	0	1	0	7	0	0
Mercara	0830	1152	1515·0	887·0	+0·2	18·1	16·7	15·6	17 7	86	+3	4·3	—0·5	5·5	0	0	30	1	14	15	0	0	0	0	0	0	0
	1730	„	1497·8	885·1	..	21·0	18·1	16·2	18·4	77	..	4·8	..	3·8	0	0	29	0	14	15	0	0	0	0	0	1	0
Kodaikanal	0830	2343	3153·5	771·9	+0·4	12·1	11·0	9·2	11·6	88	+9	6·9	+2·0	12·7	0	7	16	3	2	2	4	2	0	2	8	7	0
	1130	„	3156·0	772·1	..	14·0	12·4	10·7	12·9	85	..	6·8	..	11·4	0	4	25	3	4	4	6	3	0	2	7	1	0
	1730	„	3136·4	770·1	..	12·6	11·9	11·3	13·3	93	..	7·2	..	7·5	0	4	16	4	3	2	3	1	0	2	5	10	0
Ootacamund	0830	2249	1515·9	780·1	+0·2	12·9	11·8	10·9	13·0	89	+1·3	5·1	+0·5	1·4	0	0	3	0	1	1	1	0	0	0	0	27	0
	1730	..	1495·8	778·6	..	13·5	12·2	11·2	13·1	86	..	6·0	..	0·6	0	0	1	0	0	0	1	0	0	0	0	29	0
Coonoor	0830	1747	1520·2	828·1	..	16·0	14·5	13·1	15·1	87	+11	6·6	+1·5	3·4	0	0	26	1	1	2	16	4	0	0	2	4	0
Nepal																											
Katmandu	0830	1324	1532·3	871·6	..	10·9	10·1	9·2	11·6	91	..	4·0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1130	„	1521·4	870·2	..	19·4	13·2	7·7	10·5	48	..	1·4	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	..	1501·9	868·1	..	15·7	12·4	9·5	11·9	67	..	1·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Sikkim																											
Lachen	0830	..	..	..	..	7·7	3·9	—1·1	5·7	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet																											
Yatung (Chumbi) (R)	0830																										
Ceylon																											
Colombo	0830	7	1012·1	1011·3	+0·3	25·0	23·4	22·5	27·3	88	+1	6·3	+1·3	6·1	0	0	24	2	8	6	2	2	0	3	1	6	0
	1730	..	1009·3	1008·4	..	26·2	23·8	22·6	27·4	81	..	6·5	..	9·5	0	0	27	7	3	1	1	0	2	4	9	3	0
Trincomalee	0830	3	1011·1	1010·7	+0·2	25·8	23·8	23·0	28·1	84	—2	6·7	+2·1	12·4	0	6	24	4	0	0	0	3	9	3	11	0	0
	1730	..	1008·4	1008·0	..	26·7	24·2	23·1	28·3	81	..	7·2	..	16·5	0	9	21	10	2	1	3	0	6	2	6	0	0
Batticoloa	0830	3	1011·5	1011·2	..	26·1	24·2	23·3	28·6	85	..	5·1	..	9·1	0	1	26	0	0	0	0	5	1	9	6	3	0
	1730	..	1008·8	1008·4	..	26·9	24·5	23·4	28·8	81	..	6·6	..	12·8	0	3	27	4	4	4	4	1	1	4	8	0	0

(R) Register not received.

*Closed during winter months.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Ceylon—*Contd.*																											
Hambantota	0830	15	1011·5	1009·7	+0·6	26·1	23.8	22·7	27·6	82	−5	5·4	+1.3	8·5	0	0	27	5	1	1	0	3	5	8	4	3	0
	1730		1008·5	1006·8	..	27·4	24·2	22·7	27·6	76	..	6·3	..	14·1	0	2	28	1	0	3	2	6	6	8	4	0	0
Mannar	0830	4	1011·8	1011·4	..	25·9	24·3	23·7	29·1	89	..	7·3	..	..	..	..	..	7	2	1	5	0	2	1	5	7	0
	1730		1009·0	1008·6	..	26·2	24·1	23·3	28·4	85	..	7·1	..	..	..	..	..	12	4	2	1	0	0	1	3	6	0
Hydrometeorological Observatories																											
Damodar Catchment																											
Bokaro	0830	242	1016·6	988 5	..	17·9	14·6	11·9	13·8	68	..	1·5	..	..	0	0	23	0	0	0	0	1	8	12	2	7	0
	1730	,,	1013·4	985·5	..	19·0	15·5	12·7	14·5	67	..	1·5	..	..	0	0	17	4	1	0	0	0	1	1	10	13	0
Hazaribagh	0830	615	1015·6	946·2	..	19·5	13·8	9·2	11·9	52	..	1·2	..	2·9	0	0	20	4	0	1	0	0	0	3	12	10	0
	1730	,,	1012·8	943·4	..	18·9	14·1	10·2	12·7	58	..	1·6	..	1·1	0	0	11	2	0	0	0	0	1	2	6	19	0
Tilaiya	0830	..	..	..	..	21·4	14·7	9·0	11·4	45	..	1·0	..	5·2	0	0	26	0	0	3	0	1	6	10	5	4	1
	1730	..	..	..	..	21·6	15·0	9·0	11·7	45	..	0·9	..	2·6	0	0	22	0	0	0	0	0	0	20	2	8	0
Ramgarh	0830	..	..	..	..	18·1	14·6	12·0	13·5	67	..	1·3	..	1·9	0	0	19	1	0	0	0	0	12	3	3	11	0
	1730	..	..	..	..	21·6	17·0	13·1	15·5	57	..	1·9	..	0·5	0	0	5	1	0	0	0	0	2	2	0	25	0
Panchet Hills	0830	..	..	..	..	20·9	16·7	13·3	15·6	63	..	2·2	..	4·0	0	0	30	0	1	0	0	0	27	1	1	0	0
	1730	..	..	..	..	22·7	16·9	12·3	14·6	53	..	3·1	..	3·9	0	0	25	9	0	0	2	0	3	2	9	5	0
Durgapur	0830	..	..	..	..	22·0	18 0	15·2	17·5	66	..	2·6	..	7·0	0	0	30	7	4	0	0	0	0	1	18	0	0
	1730	..	..	..	..	24 5	18 9	15·0	17.3	57	..	1·7	..	4·0	0	0	29	8	6	3	2	2	0	0	8	1	0
Maithon	0830	..	..	..	..	..	..	..	..	..	..	2·0	..	2·8	0	0	19	4	3	1	0	0	0	2	9	11	0
	1730	..	..	..	..	..	..	..	..	..	..	2·4	..	2·9	0	0	22	7	4	0	0	0	0	2	9	8	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	1·4	..	7·2	0	0	30	1	0	0	0	0	0	29	0	0	0
	1730	..	..	..	..	..	..	..	..	..	..	2·1	..	5·0	0	0	30	5	0	2	0	1	0	17	5	0	0
Mahanadi Catchment																											
Hirakud	0830	159	1016·1	997·8	..	22·4	17·9	14 7	16·9	62	..	2·5	..	6·1	0	0	28	14	4	1	2	1	1	0	4	2	1
	1730	,,	1012 5	994·4	..	24·6	18·5	14·2	16 3	53	..	2·4	..	1·9	0	0	16	4	0	0	0	2	0	0	10	14	0
Khijrawan	0830	..	..	..	..	18 9	15·8	13·6	15·5	72	..	1·3	..	2·7	0	0	16	1	3	5	3	1	2	1	0	14	0
	1730	..	..	..	..	23·6	17·5	12·8	15·3	52	..	0·9	..	(e) 1·5	0	0	9	2	1	4	0	0	0	0	2	17	0
Sonepur	0830	..	..	..	..	21·9	18·8	16·7	19·2	72	..	..	..	3·3	0	0	29	1	3	6	1	3	5	5	5	1	0
Gimbahar	0830	..	..	..	..	18·5	14·9	11·8	14·0	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhimkund	0830		..	..		18.7	16·3	14·3	16·6	76	..	2·1	..	1·1	0	0	10	3	0	0	0	0	0	0	7	20	0
	1730	..	..	..	..	23·3	17 8	14·0	15·9	56	..	2·8	..	0·6	0	0	5	1	2	0	0	0	0	0	2	25	0
Narmada Catchment																											
Punasa	0830	..	..	..	..	21·0	14·7	9·0	11·6	46	..	..	..	5·1	0	0	27	1	19	7	0	0	0	0	0	3	0
	1730	..	..	..	..	27·9	17·9	9·8	13·4	33	..	..	..	2·2	0	0	17	5	11	1	0	0	0	0	0	13	0
Bagra Tawa	0830	..	..		..	17 9	13·4	8·8	12·2	57	..	0·8	..	2·5	0	0	15	1	5	1	2	2	4	0	0	15	0
	1730	..	..		..	24·8	17·3	11·2	13·6	43	..	1·0	..	0·5	0	0	4	0	2	1	0	0	1	0	0	26	0
Thiki	0830	..	..		..	21·8	16·0	11·6	13·5	52	..	0·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Jhadol*	0830																										
Dharoi	0830	..	.	..	..	22·9	14.8	7·3	10·2	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	.	..	..	..	29·7	18·3	9·0	11·5	28	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	.	..	..	10·6	5·9	0	6·1	48	..	0·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730		.	..	..	12·2	6·9	1·0	6·6	47	..	0·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830		..	.	..	13·9	8·7	6·5	9·7	75	..	0·6	..	0.2	0	0	2	0	0	0	2	0	0	0	0	28	0
	1130	.			..	19 6	12·5	5·9	9·3	41	..	0·4	..	0·4	0	0	4	0	2	0	0	1	0	1	0	26	0
	1730	..	..	..	..	21·6	14·9	9·4	11·8	48	..	0·4	..	2·6	0	0	17	0	1	0	8	52	2	0	0	13	4
Gandak Catchment																											
Gorkha (R)	0830																										
(R)	1730																										
Pokhara	0830	..	..	..	..	17·3	14 0	11·6	13·7	69	..	1·2	..	2·0	0	0	17	2	1	0	1	2	4	1	6	13	0
	1130	..	..	..	..	21·1	15.7	11.8	13.8	55	..	1·9	..	6·5	0	0	30	0	0	0	22	7	1	0	0	0	0
	1730	..	..	..	..	17·9	15 0	13·0	15·0	73	..	3·5	..	0·8	0	0	7	2	1	2	2	0	0	0	0	23	0
Nawakot	0830	..	..	..	..	16·7	14·8	13·5	15·5	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	.	..	..	..	18·9	15·1	12·4	14·4	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom	0830	..	..	..	..	6·4	2·7	−1·7	5·3	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	.	..	..	..	7·9	5·4	3·0	7·6	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	16·7	12·5	9·6	11·9	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·0	15·0	12·7	14·7	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	7·0	4·0	0·3	6·2	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13.1	9 ·7	6,7	9.8	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(e) Mean of 26 days. *Data not reliable. (R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1960 (KARTIKA 10, —AGRAHAYANA 9, 1882 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories— *Contd.*																											
Gogra Catchment (Trans-Himalayan Region)																											
Dailekh (R)	0830																										
(R)	1730																										
Gogra Catchment																											
Dandeldhura	0830	..	..	..	..	11·7	8·5	5·7	9·0	66	..	0·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·7	8·0	5·4	9·0	68	..	0·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Munsiyari*	0830																										
	1730																										
Butwal	0830	..	..	..	..	23·5	18.1	14·4	16·4	57	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..
	1730	..	..		..	22·2	18.7	16.5	18.8	70	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..	.
Bagmati Catchment Katmandu†	0830	1324																									
	1130																										
	1730																										
Kosi Catchment Chautara	0830	..	..	..	..	13·6	10·8	8·6	11·2	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·2	11·7	8·2	10·9	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Chepua	0830	..	..	..	..	10·1	7·1	4·9	8·4	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·7	9·4	8·0	10·6	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..
Okhaldunga	0830					13·4	10·8	8·7	11·2	73	..	1·3	..	0	0	0	0	0	0	0	0	0	0	0	30	0	0
	1130					16·2	12·0	8·8	11·3	62	..	1·8	..	0	0	0	0	0	0	0	0	0	0	0	30	0	0
	1730					12·1	10·1	8·4	11·0	78	..	3·7	..	0·2	0	0	2	0	0	0	0	0	0	2	28	0	0
Barahkshetra	0830	146	1016·7	999·7	..	18·1	15·6	13·8	15·8	76	..	0·6	..	7·0	0	0	30	0	13	3	3	1	5	1	4	0	0
	1130	,,	1014.6	997·9	..	24·7	19·1	15·3	17·4	56	..	0·9	..	6·4	0	0	30	0	1	0	0	0	21	2	6	0	0
	1730	,,	1012·6	995·7	..	19·8	17·7	16·3	18·5	80	..	1·1	..	5·6	0	0	30	0	5	11	13	0	1	0	0	0	0
Angbung	0830	..	..	..	..	16·3	12·7	9·7	12 0	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	1730	..	..	..	..	18·9	13·2	8·4	11·0	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	13·1	9·9	7·1	10·1	67	..	3·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	16·6	11·7	7·8	10·6	57	..	1·7	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..
	1730	..	..	..	..	13·4	10·0	7·1	10·1	66	..	4·0	..	..	..	..	..	..	..	..	..	..		..	..	..	..
Taplethok	0830	..	..	..	..	14 9	10·9	7·2	10·1	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..
	1730	..	..	..	..	16·6	12·3	8·6	11·2	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	7·5	3·4	−1·3	5·1	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	3.5	1·9	0	6·1	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	14·8	11·9	9·7	12·0	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·8	11·1	9·8	12·1	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	16·1	13·2	10·9	13·0	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·2	13·5	11·5	13·6	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment Gangtok	0830	1812	1531·3	822·4	..	12·0	9·0	6·0	9·3	69	..	3·0	..	0·3	0	0	3	1	2	0	0	0	0	0	0	27	0
	1130	,,	1516·3	821·2	..	15·8	11·9	9·0	11·5	64	..	3·5	..	3·0	0	0	25	0	0	0	0	7	16	1	1	5	0
	1730	,,	1506·1	819·9	..	11·7	10·0	8·6	11·2	82	..	5·0	..	1·1	0	0	11	0	0	0	1	8	2	0	0	19	0
Geyzing	0830	..	..	..	..	15·9	12·3	9·7	12·0	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·6	11·5	9·9	12·2	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received. *Data not available. †Data Included under 'Nepal'.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons and the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the Table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9·0 km. a. m. s. l. are given under Table IV and data above 9.0 km. a. m. s. l. under Table V.

In Tables IV and V :

n—represents the number of observations ;

V—represents the mean wind speed in metres per second* irrespective of direction ;

v—represents the resultant mean velocity in metres per second* ;

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a. g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a. m. s. l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a. m. s. l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

*Values obtained by converting the original data in knots.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flights (I.S.T.)			
1. Agartala	23°53′	91°15′	17	28th November, 1951	0530	1730	2330	
2. Ahmedabad	23°04′	72°38′	61	19th May, 1928	0530	1730	2330	
3. Amausi	26°45′	80°53′	133	20th November, 1950	0530	1730	2330	
4. Ambala	30°23′	76°46′	279	1st April, 1941	0530	1730	2330	
5. Anantapur	14°41′	77°37′	365	12th February, 1946	0530	1730	2330	
6. Asansol	23°41′	86°59′	135	29th May, 1942	0530	1730	2330	
7. Baghdogra	26°38′	88°19′	140	7th June, 1953	0530	1730	2330	
8. Bairagarh	23°17′	77°21′	532	26th February, 1943	0530	1730	2330	
9. Bajpe	12°55′	74°53′	104	25th May, 1959	0530	1730	2330	
10. Bamrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
11. Bangalore	12°58′	77°35′	936	19th May, 1915	0530	1730	2330	
12. Bareilly	28°22′	79°24′	181	12th January, 1943	0530	1730		
13. Begumpet	17°27′	78°28′	543	1st September, 1929	0530	1730	2330	
14. Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1730		
15. Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530	1730	2330	
16. Bhuj	23°15′	69°48′	90	14th September, 1937	0530	1730	2330	
17. Bikaner	28°00′	73°18′	229	18th October, 1946	0530	1730	2330	
18. Chikalthana	19°51′	75°24′	583	7th October, 1951	0530	1730	2330	
19. Cochin†	09°56′	76°14′	13	16th March, 1942	0530	1730	2330	
20. Darjeeling	27°03′	88°16′	2115	21st May, 1956	0830	1730		
21. Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530	1730		
22. Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
23. Gadag	15°25′	75°38′	650	3rd May, 1943	0530	1730	2330	
24. Gannavaram	16°32′	80°48′	32	8th April, 1942	0530	1730	2330	
25. Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
26. Gaya	24°45′	84°57′	119	19th March, 1937	0530	1730	2330	
27. Gopalpur	19°16′	84°53′	24	15th February, 1946	0530	1730	2330	
28. Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530	1730		
29. Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1730	2330	
30. Imphal	24°51′	93°58′	805	8th March, 1952	0530	1730	2330	
31. Jabalpur	23°10′	79°57′	402	30th July, 1928	0530	1730	2330	
32. Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530	1730	2330	
33. Jaipur	26°49′	75°48′	403	6th June, 1953	0530	1730	2330	
34. Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1730		
35. Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530	1730	2330	
36. Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
37. Madras	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38. Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1730	2330	
39. Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1730	2330	
40. Nagpur	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41. Nanpara	27°50′	81°30′	142	23rd April, 1957	0530	1730		
42. New Delhi	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
43. Poona	18°32′	73°51′	593	5th January, 1925	0530	1730	2330	
44. Port Blair	11°40′	92°43′	93	29th October, 1945	0530*	1130	1730*	2330
45. Raipur	21°14′	81°39′	308	15th July, 1944	0530	1730	2330	
46. Raxaul	26°59′	84°51′	83	28th October, 1957	0530	1730		
47. Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
48. Tiruchirapalli	10°46′	78°43′	96	22nd June, 1936	0530	1730	2330	
49. Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50. Udaipur	24°35′	73°42′	587	24th June, 1947	0530	1730	2330	
51. Vengurla	15°52′	73°38′	8	22nd November, 1941	0530	1730	2330	
52. Veraval	20°54′	70°22′	17	13th October, 1941	0530*	1130	1730*	2330
53. Visakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radiowind ascents.

†Naval Meteorological office.

5—5 D. D. G. Obs.P/65

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November, 1960 (Kartika 10— Agrahayana 9, 1882 Saka)

Station	AGARTALA												AHMEDABAD											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·3	0·3	076	30	0·8	0·6	325	30	0·5	0·1	051	30	1·7	1·7	045	30	2·7	1·8	043	30	0·9	0·7	050
0·15 a. g.. .	29	3·3	2·3	017	30	2·4	1·5	325	30	3·1	2·0	343	30	7·8	7·0	067	30	3·7	2·5	031	30	5·8	4·7	050
0·3 a.m.s.l. .	29	3·4	2·7	013	30	2·3	1·3	333	30	2·9	2·4	337	30	7·0	5·8	073	30	3·7	2·5	035	30	5·6	4·5	054
0·6 ,, .	29	3·3	2·8	013	30	1·7	0·9	333	30	2·9	2·2	332	30	5·6	4·2	073	30	3·7	2·6	037	30	4·5	3·5	049
0 9 ,, .	29	3·4	2·3	009	30	2·2	0·9	313	30	3·0	1·7	321	30	4·2	2·7	057	30	3·9	2·6	036	30	3·7	2·7	051
1·5 ,, .	29	4·0	1·6	274	30	3·5	1·7	272	30	3·8	1·9	248	30	3·8	1·9	341	30	4·1	2·6	027	30	4·0	1·5	057
2·1 ,, .	29	5·9	4·8	255	30	5·0	4·3	272	30	6·2	5·1	253	30	4·3	2·4	310	30	5·1	2·7	352	30	5.2	0·7	022
3·0 ,, .	28	10·0	9·7	260	29	9·7	9·1	270	27	10·8	10·4	265	29	5·9	4·5	299	30	6·4	4·7	303	29	5·1	3·1	297
3·6 ,, .	26	12·3	12·1	264	26	12·6	12·1	271	10	13·5	13·4	273	1	4·1	4·1	300	30	7·3	6·5	289				
4·5 ,, .	22	14·8	14·5	271	22	16·4	16·2	270	2	13·4	13·4	260					30	8·9	8·1	284				
5.4 ,, .	12	16·0	15·5	269	20	19·6	19·2	273									30	11.4	10·5	281				
6·0 ,, .	3	18·3	17·7	272	18	20·5	20.4	272									30	13·2	12·2	275				
7·2 ,, .					13	24·2	23·2	276									27	16·7	15·9	269				
9·0 ,, .					4	29·6	28·8	280									8	20·8	19·9	267				

Station	AMAUSI												AMBALA											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·7	1·2	279	30	2·5	2·2	299	30	1·6	1·2	282	30	0·6	0·1	335	30	2·5	2·0	308	30	1·6	1·0	316
0·15 a. g.. .	30	4·4	3·7	300	30	3·8	3·4	299	30	3·9	3·4	300	30	5·7	2·8	345	30	5·2	4·6	304	30	7·8	7·0	330
0·3 a.m.s.l.	30	4·4	3·5	298	30	3·8	3·4	299	30	4·3	3·5	300	30	2·5	1·0	354	30	3·2	2·6	305	30	3·2	2·6	335
0·6 ,, .	30	4·4	3·8	314	30	4·3	4·1	300	30	4·2	3·9	306	30	6·4	4·9	330	30	5·8	5·0	307	30	7·8	6·9	329
0·9 ,, .	30	4.8	4·1	311	30	4·7	4·5	300	30	4·8	4·2	307	30	6·6	5·1	327	30	5·7	4·8	308	30	7·6	6·5	326
1·5 ,, .	30	7·0	6·4	308	30	6·3	5·7	309	30	5·9	5·1	303	30	6·2	4·8	317	30	5·7	4·6	317	30	5·6	4·4	318
2·1 ,, .	30	8·2	6·8	312	30	7·9	7·3	311	29	6·6	5·8	299	30	5·8	3·9	304	30	5·7	4·1	324	30	5·3	4·1	305
3·0 ,, .	26	8·0	7·1	302	30	8·0	7·6	301	24	7·5	6·8	293	30	6·8	5·0	301	30	5·9	4·0	310	30	6·2	4.7	292
3·6 ,, .	21	9·5	8·4	288	30	9·9	9·7	291	5	7·6	7·2	264	30	7·1	5·5	291	30	6·5	5·3	297	17	6·9	5·8	287
4·5 ,, .	14	11.9	10·4	281	30	12·9	12·1	286	1	4·2	4·2	290	26	8·7	7·7	279	30	9·7	9·0	288	4	12.1	11.3	305
5·4 ,, .	4	15.8	12·4	264	23	15·6	15·0	273					27	11·6	10·7	274	29	13·3	12·3	280	1	9·8	9·8	270
6·0 ,, .	1	11·3	11·3	260	17	17·9	17·5	265					16	12·4	12·1	265	26	16·4	14·4	279				
7·2 ,, .					10	24·2	23·7	272					6	15·3	13·8	266	11	24·5	24·0	268				
9·0 ,, .					1	48·9	48·9	260					1	27·2	27·2	250	4	39·7	39·1	266				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Station	ANANTAPUR												ASANSOL											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·6	1·3	066	30	4·5	4·1	068	30	2·7	2·6	092	30	1·0	0·9	301	30	0·3	0·3	327	30	0·8	0·7	348
0·15 a.g. . .	29	3·9	3·4	073	30	6·2	5·8	074	30	5·3	5·2	096	30	4·3	3·9	326	30	3·3	2·7	332	30	5·3	4·1	347
0·3 a.m.s.l. .													30	6·1	3·8	342	30	3·4	2.8	334	30	5·3	4·4	346
0·6 ,, .	29	4·6	4·2	078	30	6·2	5·9	078	30	6·0	5·9	094	30	6·2	3·9	350	30	3·7	3·3	333	30	4·8	4·1	341
0·9 ,, .	29	6·6	6·3	080	30	6·5	6·0	073	30	7·3	7·0	087	30	4·7	4·1	336	30	3·8	3·5	331	30	4·0	3·2	329
1·5 ,, .	28	8·4	7·5	072	30	7·8	6·6	068	29	8·0	7·1	069	30	5·5	4·6	319	30	4·3	3·7	319	30	4·9	4·1	306
2·1 ,, .	23	6·7	5·7	065	29	8·3	6·3	067	28	7·5	6·2	065	30	6·2	5·1	294	30	6·9	6·1	296	29	6·4	5·3	298
3·0 ,, .	21	6·2	5·5	075	25	6·9	5·3	073	24	5·7	4·7	075	26	10·1	9·1	276	29	10·0	9·6	286	28	9·6	8·9	281
3·6 ,, .	18	6·4	5·6	073	22	7·4	6·2	078	18	6·1	5·0	080	16	11·6	9·6	276	25	12·0	11·6	286	14	11·1	10·6	271
4·5 ,, .	16	7·5	6·4	081	22	8·2	6·9	081	16	7·1	6.4	087	11	13·8	13·2	261	20	15·1	14·5	277	9	14·7	13·5	260
5·4 ,, .	12	7·3	5·9	073	21	8·6	6·7	081	10	6·8	5·7	086	5	17·7	16·5	260	13	18·0	17·5	262	4	14·9	14·5	263
6·0 ,, .	11	7·1	5·7	071	21	8·2	6·8	086	8	7·7	6·1	076					7	20·1	19·2	287	1	16.5	16·5	260
7·2 ,, .	7	6·4	3·5	065	16	9·0	7·6	081	1	7·7	7·7	055					4	19·3	18·2	266	1	19·6	19·6	285
9·0 ,, .	6	6·2	1·1	058	12	8·3	4·4	081																

Station	BAGHDOGRA												BAIRAGARH											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1.0	0·9	007	30	1·2	0·8	246	30	1·1	0·9	354	30	1·7	1·3	090	30	1·9	1·1	055	30	2·1	1·4	089
0·15 a.g. . .	30	2·4	1·9	037	30	2·6	2·0	246	30	2·0	1·3	251	25	4·8	3·7	104	26	2·7	1·6	838	25	5·3	3·8	088
0·3 a.m.s.l. .	30	2·4	1·5	066	30	2·7	2·0	247	30	2·1	0·8	295												
0·6 ,, .	30	1·9	1·2	082	30	2·6	2·1	240	30	2·5	1·8	272	25	4·5	3·4	101	26	2·7	1·6	036	25	5·0	3·6	091
0·9 ,, .	30	1·6	0·7	092	30	2·3	1·6	232	30	1·9	1·1	268	25	3·9	3·3	088	36	3·1	2.1	035	25	4·4	3·3	077
1·5 ,, .	29	2·3	1·6	095	30	2·1	0·9	205	30	2·4	0·9	113	25	3·3	1·4	007	26	2·9	1·6	022	25	3·4	1·7	057
2·1 ,, .	29	2·7	1·7	100	29	2·8	0·5	143	28	2·8	1·1	092	25	5·0	3·1	043	26	3·8	1·5	331	25	4·6	1·3	307
3·0 ,, .	27	4·1	2·9	268	28	4·9	3·5	305	26	4·0	1·5	312	25	5·9	4·4	307	26	5·6	4·8	297	25	5·9	5·1	298
3·6 ,, .	26	9·4	9·3	275	28	9·8	9·0	285	20	9·1	8·1	280	22	5·9	4·6	288	26	7·2	6·3	285				
4·5 ,, .	23	17·3	17·3	277	23	16·3	15·9	280	8	17·5	71·1	275	21	8·2	7·4	271	26	10·7	9·9	274				
5·4 ,, .	11	18·3	17·9	276	20	20·9	15·4	281					20	11·4	10·7	265	24	13·2	12·5	272				
6·0 ,, .	8	20·5	19·8	272	14	22·1	21·3	278					19	13·6	13·3	261	24	15·1	14·5	267				
7·2 ,, .					3	26·6	25·6	283					18	18·7	18·0	260	15	18·2	15·6	260				
9·0 ,, .													12	25·6	25·2	254	8	24·7	23·4	249				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Station	BAJPE												BAMRAULI											
Time in I. S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·6	1·3	098	30	2·9	2·0	294	30	1·6	0·8	072	30	0·3	0·2	258	30	1·2	0·9	298	30	0·5	0·5	306
0·15 a. g.	30	4·3	2·1	078	29	4·0	2·6	278	29	4·2	1·0	017	30	3·7	2·6	295	29	2·1	1·5	277	30	3·9	3·7	308
0·3 a.m.s.l.	30	4·5	1·9	072	29	4·2	2·5	279	29	4·5	1·1	003	30	3·7	2·6	295	29	2·1	1·6	289	30	3·9	3·7	308
0·6 ,,	30	4·8	2·4	075	29	3·3	0·8	337	29	4·5	1·3	026	30	4·3	3·4	320	29	3·1	2·7	305	30	3·7	3·4	308
0·9 ,,	30	5·3	3·7	082	29	3·3	1·6	056	27	4·6	2·5	058	30	4·8	4·1	319	30	4·3	3·8	314	30	4·5	3·8	300
1·5 ,,	27	6·8	5·8	091	25	6·4	5·7	072	26	6·5	5·6	082	30	6·4	5·9	311	30	6·3	5·7	313	30	5·3	4·9	310
2·1 ,,	25	6·9	5·5	082	23	7·5	6·5	076	25	7·8	6·8	081	30	7·4	6·6	309	30	7·3	6·4	312	30	6·5	6·0	310
3·0 ,,	22	6·3	5·0	073	21	6·1	4·8	069	20	7·0	5·7	072	30	8·4	5·9	302	29	8·3	7·3	298	30	8·0	5·9	305
3·6 ,,	11	6·3	5·5	064	19	6·8	5·3	069	14	6·3	4·7	082	29	8·9	7·8	286	29	10·2	9·6	284	30	10·4	9·8	285
4·5 ,,	3	5·5	5·5	082	15	7·2	5·8	068	9	7·2	5·8	092	29	12·3	11·4	277	29	13·1	12·5	275	30	12·8	12·2	279
5·4 ,,					11	6·8	6·0	064	3	6·8	4·9	047	29	15·7	14·9	269	27	16·5	16·0	271	30	15·8	15·4	272
6·0 ,,					10	7·1	5·9	078	2	7·5	0·8	033	29	17·0	17·0	269	26	18·8	18·3	269	30	18·8	18·1	271
7·2 ,,					7	6·7	5·6	055					29	22·9	22·1	264	19	23·5	22·8	268	29	23·7	22·9	268
9·0 ,,					5	5·3	1·7	027					25	30·8	30·8	260	6	38·2	37·4	257	25	33·2	32·0	260

Station	BAMRAULI				BANGALORE												BAREILLY							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·2	0·2	259	30	2·7	2·5	060	30	2·6	2·0	060	30	2·6	2·4	064	30	0·4	0·4	307	30	1·0	0·8	313
0·15 a. g.	30	3·9	2·9	316	16	7·4	6·9	052	25	6·1	5·1	057	13	6·7	6·5	050	30	3·7	2·7	317	30	3·7	3·2	297
0·3 a.m.s.l.	30	3·9	3·0	315													30	3·5	2·5	324	30	3·4	3·0	297
0·6 ,,	30	4·2	3·4	310													30	4·6	3·8	308	30	4·3	3·9	297
0·9 ,,	29	5·1	4·8	301													29	4·8	3·8	308	30	4·7	4·4	297
1·5 ,,	30	6·3	5·7	306	16	8·5	7·7	054	25	7·2	6·2	060	13	8·3	7·8	038	29	5·7	4·5	305	30	5·9	4·7	310
2·1 ,,	29	6·8	6·2	309	16	7·1	5·7	054	24	6·4	5·5	066	13	7·9	6·9	033	29	7·2	5·5	314	30	6·5	5·4	307
3·0 ,,	23	8·5	7·6	293	15	5·9	5·2	064	22	6·8	5·0	071	12	6·5	5·7	048	29	8·3	6·5	305	30	7·6	6·6	303
3·6 ,,	3	8·2	6·2	289	14	5·9	5·0	066	15	6·6	5·2	060	9	5·7	5·3	055	25	7·4	6·1	297	30	8·2	7·7	300
4·5 ,,	1	13·9	13·9	260	11	6·2	5·6	080	13	6·6	5·8	053	8	6·7	6·7	057	22	10·4	9·7	271	30	11·5	11·0	289
5·4 ,,					9	7·4	6·3	057	12	8·2	7·4	058	6	7·9	7·4	054	17	13·1	11·9	275	29	14·9	13·4	281
6·0 ,,					8	8·3	7·0	059	12	8·7	7·6	064	5	6·7	6·6	065	13	16·2	15·6	266	29	17·9	17·0	289
7·2 ,,					6	7·4	6·3	056	8	11·0	9·4	058	3	6·0	3·3	074	7	19·4	19·0	262	23	21·1	20·5	271
9·0 ,,					5	5·8	3·4	007	7	8·4	4·9	033	2	3·3	0·3	231	1	23·7	23·7	245	6	25·7	23·8	254

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Station	BEGUMPET												BHAGALPUR								BHUBANESHWAR			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·9	0·8	066	30	2·2	2·0	073	30	1·0	0·9	079	30	0·8	0·7	244	30	1·1	0·9	280	30	2·2	1·9	357
0·15 a. g.	30	4·7	4·2	076	30	4·9	4·4	070	30	6·0	5·4	078	30	3·3	2·7	283	30	3·2	2·9	290	30	3·9	3·2	007
0·3 a.m.s.l.													30	3·7	2·9	306	30	3·3	2·9	290	30	3·8	3·2	037
0·6 ,,	30	3·2	2·5	071	30	4·1	3·6	071	30	3·8	3·5	076	30	3·2	2·6	328	30	3·4	3·0	293	30	4·2	3·5	040
0·9 ,,	30	5·8	5·2	085	30	5·1	4·6	068	30	6·5	6·0	083	30	3·0	2·4	335	30	3·4	3·0	292	30	4·8	4·1	034
1·5 ,,	26	6·0	5·1	062	30	5·6	4·9	062	27	6·3	5·3	065	30	4·0	2·7	323	30	3·6	2·6	293	30	4·2	1·8	009
2·1 ,,	24	5·8	4·6	035	29	5·8	5·0	056	24	5·5	4·1	050	30	4·8	3·5	302	30	5·1	4·5	292	30	3·6	2·4	281
3·0 ,,	24	4·9	2·5	046	29	5·0	2·9	059	20	5·1	2·6	047	29	9·0	8·3	278	30	9·3	8·9	290	30	4·6	3·7	263
3·6 ,,	24	5·0	1·2	089	28	4·9	2·2	070	14	4·4	1·9	067	29	11·8	11·3	275	30	11·6	11·3	283	29	5·2	4·6	261
4·5 ,,	22	5·3	0·8	080	24	5·4	2·5	084	2	4·9	3·6	119	25	15·1	14·7	272	30	14·6	14·2	278	25	6·3	5·2	259
5·4 ,,	22	6·3	1·5	082	20	5·4	2·7	075					10	16·8	16·3	266	26	19·0	18·5	275	21	7·6	6·3	265
6·0 ,,	20	6·6	1·3	088	18	5·8	1·9	093					7	18·7	18·3	260	21	21·6	21·0	274	20	8·0	6·5	271
7·2 ,,	13	6·5	3·3	150	12	7·8	1·5	215					1	19·6	19·6	255	3	19·2	18·8	264	10	9·8	9·1	280
9·0 ,,	7	6·5	4·3	193	8	6·7	5·0	260													2	8·7	6·1	307

Station	BHUBANESHWAR								BHUJ												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·0	1·4	032	30	1·5	0·8	012	30	0·2	0·1	315	30	2·7	2·2	027	30	1·4	0·8	014	30	0·6	0·6	157
0·15 a.g.	30	3·9	3·1	033	30	4·7	2·2	079	30	5·6	4·2	046	30	4·3	3·4	034	30	5·0	3·8	043	30	5·6	3·0	134
0·3 a.m.s.l.	30	4·0	3·4	025	30	4·5	2·4	064	30	5·8	4·6	050	30	4·4	3·4	035	30	5·3	4·4	045	30	4·6	3·0	138
0·6 ,,	30	3·7	3·3	018	30	4·0	2·5	031	30	5·9	4·7	055	30	4·5	3·7	039	30	5·6	4·9	050	30	4·6	0·3	025
0·9 ,,	30	3·8	3·3	013	30	4·3	3·3	011	30	4·3	3·4	060	30	4·4	3·3	038	30	5·5	4·4	056	30	4·1	1·0	310
1·5 ,,	30	4·5	3·3	348	29	4·9	4·0	355	30	3·9	1·2	067	30	4·4	1·7	031	29	4·6	1·7	059	30	4·5	3·2	306
2·1 ,,	30	4·8	3·4	312	29	4·6	2·6	330	30	3·9	1·1	287	30	4·8	1·2	004	30	5·3	0·7	302	30	5·2	4·0	302
3·0 ,,	29	5·2	4·3	276	29	5·0	3·9	266	30	5·7	3·2	293	30	5·7	3·0	287	30	5·9	3·6	279	30	6·0	4·9	312
3·6 ,,	28	5·9	4·9	268	13	6·7	5·3	259	3	3·4	3·2	279	30	7·5	5·5	278	20	6·2	4·6	277	20	6·8	5·2	301
4·5 ,,	24	6·7	5·8	264	4	8·5	7·1	250					29	10·0	8·3	272	5	8·1	7·4	289	22	8·2	8·1	280
5·4 ,,	18	8·1	7·2	261									29	11·1	10·0	272					13	11·6	10·5	263
6·0 ,,	16	7·9	7·0	264									28	11·7	10·6	270					6	13·8	12·5	274
7·2 ,,	6	9·4	8·9	270									10	13·2	11·5	276					1	21·6	21·6	250
9·0 ,,	2	9·3	9·1	250									1	20·6	20·6	295								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9·0 Km. above mean sea level

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Station	BIKANER								CHIKALTHANA												COCHIN			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·7	0·6	327	30	0·4	0·3	008	30	0·7	0·7	090	30	1·9	1·6	093	30	0·7	0·6	078	30	1·1	0·6	070
0·15 a.g.	30	2·5	1·9	332	30	5·3	3·2	042	30	6·0	5·7	098	30	3·5	2·5	089	30	6·3	6·0	077	28	3·4	1·4	074
0·3 a.m.s.l.	30	2·4	1·9	332	30	4·7	2·8	050													28	3·8	1·2	059
0·6 ,,	30	3·0	2·2	328	30	4·2	2·3	039													28	4·0	1·2	029
0·9 ,,	30	2·9	2·3	333	30	3·0	0·5	024	30	6·9	6·5	109	30	3·8	2·7	082	30	7·0	6·5	085	28	4·5	1·6	047
1·5 ,,	30	3·3	2·1	328	30	3·1	1·9	255	30	5·2	4·5	088	30	3·7	2·7	064	30	5·5	5·0	087	28	5·0	2·5	075
2·1 ,,	30	3·8	2·6	305	28	4·8	3·5	375	29	3·9	1·6	052	30	4·0	3·0	042	30	3·4	2·0	076	27	5·6	3·2	078
3·0 ,,	30	6·0	4·7	286	29	6·2	5·6	285	29	4·8	1·9	322	29	4·5	2·7	352	29	4·9	1·3	340	20	5·3	2·7	076
3·6 ,,	30	7·6	6·4	278	14	7·1	6·3	303	14	4·6	1·9	273	27	5·2	2·7	307	23	4·5	1·6	314	17	6·0	2·9	071
4·5 ,,	29	10·3	9·8	279	2	6·9	6·9	298					27	5·2	3.2	276	5	4·8	3·1	260	7	6·0	4·9	042
5·4 ,,	28	13.9	12·9	276									26	6·6	4.0	258					4	7·2	6·1	040
6·0 ,,	26	16·3	15·8	276									25	7·4	4·7	268					3	5·3	5·1	052
7·2 ,,	14	21·5	21.1	271									18	9·7	7·2	279					2	6·7	5·4	053
9·0 ,,	3	33·4	32·8	264									2	11·1	9·3	247					1	10·3	10·3	130

Station	COCHIN								DARJEELING								DEHRA DUN							
Time in I.S.T.	1730				2330				0830				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·5	1·6	290	30	1·9	0·9	052	30	0·1	0·1	131	30	0·8	0·8	222	30	0·7	0·6	023	30	1·5	0·9	280
0·15 a.g.	23	5·0	2·8	275	27	4·4	0·6	070	20	1·4	0·6	129	18	2·3	1·4	210	30	1·3	1·0	060	30	2·6	2·0	279
0·3 a.m.s.l.	23	5·5	3·3	281	27	5·1	0·2	041																
0·6 ,,	23	4·9	2·0	302	27	4·9	0·8	333																
0·9 ,,	23	4·6	1·7	350	27	4·9	1·1	032									30	1·2	0·8	084	30	2·8	2·1	275
1·5 ,,	21	4·9	2·8	047	25	5·3	3·2	082									30	2·2	0·6	275	30	2·9	2·2	284
2·1 ,,	18	4·5	2·9	033	18	6·9	4·6	066									30	4·1	1·8	302	30	3·5	2·3	292
3·0 ,,	14	4·9	2·9	024	10	5·9	3·9	056	20	2·1	0·4	160	18	2·1	1·0	335	30	5·3	3·3	295	30	4·6	1·7	307
3·6 ,,	9	5·3	3·9	020	7	3·8	2·6	051	20	6·7	5·5	284	17	5·2	4·0	293	30	5·5	3·4	283	30	4·9	1·8	304
4·5 ,,	6	6·3	5·7	056	1	3·1	3·1	075	10	11·9	11·5	280	13	13·9	13·8	271	28	7.6	5·7	279	30	7·3	5·6	296
5·4 ,,	4	6·8	6·7	050	1	8·2	8·2	065	9	16·9	16·4	270	8	19·4	19·0	271	26	12·6	11·4	278	29	11·0	9·8	281
6·0 ,,	4	5·5	5·5	049	1	14·4	14·4	050	8	19·1	18·3	268	5	26·0	25·8	271	22	16·4	15·0	275	27	15·6	14·8	281
7·2 ,,	1	6·2	6·2	040					3	26·2	25·4	280					14	25·4	23·5	269	24	22·9	21·8	273
9·0 ,,																	3	33·0	33·0	253	6	34·1	33·0	259

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 KM. above mean sea level

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Station	DUM DUM																GADAG							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·1	0·1	011	30	1·2	1·0	003	30	0·2	0·2	360	30	0·6	0·4	342	30	3·3	3·0	101	30	4·8	4·5	076
0·15 a.g.	30	4·1	3·7	006	30	2·9	2·5	355	30	3·5	3·0	334	30	3·8	2·7	343	30	6·4	5·9	103	30	6·4	5·9	079
0·3 a.m.s.l.	30	4·0	3·6	009	30	3·0	2·8	356	30	3·3	3·0	337	30	3·4	2·7	343								
0·6 ,,	30	3·9	3·3	007	30	3·6	3.2	353	30	2·9	2·6	348	30	3·2	2·8	342								
0·9 ,,	30	4·3	3·7	348	30	4.0	3·4	352	30	2·9	2·4	345	30	3·3	2·8	339	30	7·7	7·4	097	30	6·7	6·3	078
1·5 ,,	30	5·0	3·7	314	30	5·1	4·0	325	30	4·1	2.9	317	30	4·7	3·7	308	28	8·9	8·2	083	29	7·0	6·5	075
2·1 ,,	30	6·1	4·5	281	29	7·1	5·7	287	30	5·3	4·3	289	28	6·7	5 5	282	27	7·9	6·9	069	27	7·4	6·8	073
3·0 ,,	30	8·1	7·7	266	26	9·8	9·3	276	30	8·5	7·8	273	20	7 6	6·7	267	24	7·7	5·6	076	24	6·7	5·8	076
3·6 ,,	29	9·7	9·0	266	24	10·8	10·4	271	29	9·3	8·9	269	4	7·2	6·9	265	21	7.3	5·0	077	19	7·3	5·9	076
4·5 ,,	29	11·6	11·0	268	21	13·4	13.2	272	27	11·2	10·8	267					21	7·1	5·0	077	15	7·8	6·3	073
5·4 ,,	26	14.0	13.3	265	20	14·4	14·3	274	27	12·5	12·4	266					17	7·1	4·5	074	12	8·6	7·1	071
6·0 ,,	26	16·1	14·8	262	19	15·6	15·4	273	27	13·5	12·8	264					14	7·2	3.3	076	11	9·0	7·3	070
7·2 ,,	26	18·5	17·3	266	6	19·3	18·4	274	27	17·2	16·2	260					12	6·4	2·2	100	8	6·1	5·3	071
9·0 ,,	24	21·6	20·1	262					22	20·5	11·0	254					7	5·7	2·0	270	7	7·7	2·0	295

Station	GADAG				GANNAVARAM												GAUHATI							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·7	4·1	102	30	2·9	2·7	034	30	3·1	2·5	075	30	2·4	2·2	067	30	0·3	0·2	020	30	1·7	1·6	035
0·15 a.g.	30	8·6	8·1	093	29	6·3	6·2	057	30	5·3	4·6	074	30	6·7	6·3	082	30	2·0	0·9	066	30	2·5	2·1	040
0·3 a.m.s.l.					29	6·9	6·7	073	30	5·7	4·9	071	30	7·4	7·1	082	30	2·1	1·0	078	30	2·7	2·3	056
0 6 ,,					29	7·3	6·8	075	29	5·6	5·1	067	30	7·7	7·3	074	30	3·2	2·4	085	30	3·1	2·9	078
0·9 ,,	30	9·3	8·7	093	29	6·9	6·1	067	29	5·9	5·3	061	30	6·9	6·5	066	30	4·2	3·3	083	30	4·0	3·8	089
1·5 ,,	30	9·4	8·5	077	29	6·2	5·3	068	26	6·0	5·3	050	28	6·4	5·5	059	30	4·1	3·4	081	28	4·7	3·8	106
2·1 ,,	30	7·9	6·9	067	28	5·6	4·6	070	26	5·2	4·4	057	28	5·4	4·2	067	30	3·4	2·3	089	28	3·8	1·9	130
3·0 ,,	27	7·4	5·7	065	26	5·0	3·5	091	23	5·3	4·2	069	27	4·7	3·5	087	30	5·3	3·3	265	26	6·7	5·6	249
3·6 ,,	22	6.8	5·3	075	24	5·4	3·7	095	22	5.2	3·7	084	18	4·5	3·1	097	30	10·1	9·3	265	26	9·3	8·1	256
4·5 ,,	14	8·1	6·4	078	18	5·3	4·3	093	21	5·7	4·1	087	13	5·0	2·9	100	30	16·3	15·9	267	26	18·8	18·8	263
5·4 ,,	8	6·7	4·4	061	17	5·7	3·7	101	18	6·2	4·3	080	10	5·6	2·8	111	30	18·8	18·4	270	25	21·5	21·1	265
6·0 ,,	5	6·2	2·1	158	16	6·3	3·8	109	18	6·7	5·0	103	10	5·7	3·2	108	30	22·5	21·7	268	24	24·5	24·0	268
7·2 ,,	1	5·1	5·1	325	10	4·9	3·3	113	14	7·6	5·3	111	3	5·8	1·6	132	30	27·8	27·4	269	17	31·4	30·7	272
9·0 ,,					8	6·3	1·9	234	11	4·7	1·6	109					29	38·8	37·2	265	12	39·6	37·3	267

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Station	GAUHATI								GAYA												GOPALPUR			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·1	0·1	022	30	0·5	0·5	191	30	1·2	1·0	182	30	2·0	1·9	311	30	0·7	0·6	187	30	2·5	2·5	329
0·15 a. g. .	30	2·3	1·4	045	30	1·9	7·0	181	30	4·3	4·0	246	30	3·8	3·4	308	30	3·3	2·1	289	30	6·0	5·6	355
0·3 a.m.s. l. .	30	2·2	1·4	053	30	2·3	1·0	092	30	4·3	3·8	266	30	3·9	3·5	305	30	3·4	2·8	305	30	4·2	3·9	034
0·6 ,, .	30	2·8	2·0	063	30	3·0	1·5	070	30	4·1	3·5	313	30	4·2	4·0	298	30	4·3	4·0	310	30	4·4	4·1	043
0·9 ,, .	30	2·3	1·4	081	30	3·0	1·6	073	30	4·6	4·3	311	30	4·2	4·0	295	30	4·9	4·7	301	30	5·0	4·6	038
1·5 ,, .	30	2·5	0·8	150	29	2·6	1·0	056	30	6·0	5·5	303	30	5·3	4·8	296	30	6·4	5·8	294	30	4·9	3·2	033
2·1 ,, .	30	2·7	1·8	197	25	3.1	1·0	110	30	7·0	5·7	299	30	6·9	6·1	297	30	7·7	6·2	296	30	3·2	0·8	325
3·0 ,, .	30	4·7	3.7	257	16	5·5	2·5	244	27	9·3	8·4	288	30	10·0	9·5	290	21	7·9	7·0	277	29	3·6	2·4	258
3·6 ,, .	30	9·3	8·6	266	10	10·7	9·0	260	19	11·1	10·4	279	30	12·1	11·7	284	3	10·8	10·0	277	28	3·8	2·4	264
4·5 ,, .	29	16.4	16·2	267	3	12·4	12·4	264	13	14·7	14·2	258	28	15·2	14·9	280	2	13·9	13·9	274	20	3·9	2·2	244
5·4 ,, .	30	20.2	19·3	272	1	15·4	15·4	300	6	18·2	17·0	257	22	19·1	18·5	277					15	5·5	3·0	236
																					12	6·3	4·0	250
6·0 ,, .	29	24·9	24·4	269	1	19·0	19·0	280	4	23·5	22·4	262	16	21·7	21·0	273					6	8·9	7·5	249
7·2 ,, .	30	30·8	29·8	269					2	38.6	37·4	284	10	27·6	26·5	266					1	7·7	7·7	260
9·0 ,, .	29	37·6	36·6	269																				

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I. S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·0	2·6	083	30	1·5	1·0	347	30	0·7	0·3	293	30	1·2	1·0	273	30	0·4	0·3	220	30	0·6	0·5	335
0·15 a. g. .	30	4·0	3·4	065	30	3·8	2·9	049	30	3·9	3·1	304	30	2·7	2·2	279	30	3·8	1·4	307	30	2·8	2·5	346
0·3 a.m.s.l. .	30	4·1	3·7	055	30	3·6	2·8	065	30	4·0	3·2	300	30	2·8	2·4	276	30	3·1	1·5	274	30	2·6	2·3	345
0·6 ,, .	30	4·2	3·9	033	30	3·9	3·3	055	30	4·0	3·2	300	30	3·0	2·7	282	30	3·7	1·8	333	30	3·1	2·7	342
0·9 ,, .	29	4·3	3·8	010	29	4·3	3·9	038	30	4·2	2·6	307	30	3·4	2·9	283	30	3·3	2·5	327	30	3·1	2·8	337
1·5 ,, .	29	5·0	3·8	357	28	4·3	2·9	022	30	4·2	3·0	309	30	4·3	2·8	292	30	5·3	4·4	310	30	4·2	3·7	312
2·1 ,, .	29	3·7	2·0	330	24	3·7	1·4	304	30	6·6	5·7	303	30	5·3	4·3	304	30	7·3	6·1	310	30	6·0	5·0	298
3·0 ,, .	29	4·1	3·0	278	23	3.3	2·1	269	27	10·1	8·9	285	30	8·6	7·4	297	30	7·7	6·7	300	30	7·8	7·2	292
3·6 ,, .	26	4·6	3·3	275	7	4·7	3·5	260	19	10·7	9·7	275	30	10·4	9·6	312	30	8·9	7·8	290	30	9·9	9·4	287
4·5 ,, .	22	4·3	2·6	268	3	4·6	2·5	236	15	12·9	12·0	265	30	13·8	13·1	282	30	11·5	10·4	277	30	13·1	12·6	283
5·4 ,, .	16	6·3	3·9	269	1	4·6	4·6	175	8	15.2	14·1	267	30	17·5	16·9	278	30	15·2	14·5	274	30	17·0	16·4	278
6·0 ,, .	16	6·1	3·8	256	1	6·2	6·2	190	3	17.2	15·3	270	30	20·7	20·0	276	30	18·0	17·1	273	29	18·1	17·5	273
7·2 ,, .	7	10·5	8·2	263					3	27·9	25·2	265	28	27·2	26·4	272	30	23·7	22·7	271	27	23·0	22·4	272
9·0 ,, .	1	19·0	19·0	265									13	40·4	38·4	236	19	30·9	29·8	261	16	31·4	29·3	262

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Station	GWALIOR				IMPHAL												JABALPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·3	0·1	193	30	0·1	0·1	276	30	0·9	0·8	236	30	0·1	0·1	270	30	0·8	0·8	135	30	1·2	0·9	025
0·15 a. g. .	30	3·7	1·5	041	28	0·9	0·4	118	30	2·1	1·6	227	30	1·2	0·4	126	30	3·4	2·3	107	30	3·2	2·6	014
0·3 a.m.s.l. .	30	3·3	1·0	056																				
0·6 „ . .	30	2·9	1·4	354													30	4·0	2·6	087	30	3·4	2·8	014
0·9 „ . .	30	3·0	2·2	327	28	0·9	0·3	146	30	1·9	1·5	229	30	1·2	0·7	107	30	4·0	3·0	043	30	3·5	3·0	009
1·5 „ . .	30	4·7	4·1	300	27	1·8	0·9	100	30	2·4	2·0	226	30	2·2	1·2	229	30	4·8	3·8	006	30	4·2	3·5	360
2·1 „ . .	30	6·1	5·1	296	24	4·6	3·5	214	30	4·3	3·7	242	23	4·4	3·4	238	30	6·2	5·0	233	30	5·3	4·1	337
3·0 „ . .	30	7·3	6·5	299	18	9·4	9·0	249	29	9·9	9·5	254	15	9·0	6·1	272	30	6·9	5·3	302	30	6·5	5·8	301
3·6 „ . .	19	6·8	6·2	291	15	12·0	11·7	262	27	13·5	12·8	264	12	12·9	10·0	272	29	8·0	6·9	285	30	8·3	7·7	289
4·5 „ . .					6	15·5	15·4	265	25	18·1	17·7	267	3	19·0	13·5	263	28	10·0	9·4	275	30	10·1	9·5	277
5·4 „ . .					3	15·8	15·7	268	20	22·3	22·0	271					22	11·9	11·3	269	29	13·6	12·8	273
6·0 „ . .					1	20·6	20·6	260	16	27·4	26·9	270					21	14·4	13·6	262	29	15.5	14·7	270
7·2 „ . .									13	28·6	28·0	270					11	15·8	15·5	254	22	18·9	17·5	263
9·0 „ . .									5	33·4	31·7	273									8	20·3	19·7	259

Station	JABALPUR				JAGDALPUR												JAIPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·5	0·4	123	30	0·5	0·4	025	30	1·8	1·5	030	30	0·5	0·3	052	30	1·1	0·8	035	30	1·1	0·5	328
0·15 a. g. .	30	4·5	3·9	063	30	4·3	3·9	045	30	5·1	4·6	029	30	5·9	5·8	059	30	4·2	1·2	057	30	2·5	1·3	318
0·3 a.m.s.l. .																								
0·6 „ . .	30	4·5	4·0	055	30	1·8	1·6	045	30	3·4	3·1	030	30	2·8	2·6	056	30	4·1	0·7	074	30	2·6	1·4	316
0·9 „ . .	30	3·9	3·5	043	30	5·7	5·3	060	30	5·2	4·8	029	30	6·2	6·1	059	30	3·3	0·5	354	30	2·7	1·7	312
1·5 „ . .	30	3·8	2·9	010	30	4·7	3·8	051	30	4·2	3·6	035	29	3·7	2·9	055	30	3·9	2·6	302	30	2·8	2·0	325
2·1 „ . .	29	4·3	2·7	329	27	3·3	1·8	353	26	3·3	2·5	030	28	2·7	1·1	025	30	4·9	4·0	297	30	4·2	3·1	311
3·0 „ . .	29	6·6	5·6	305	27	3·6	2·0	283	24	3·5	1·6	325	25	3·4	1·6	263	28	6·5	5·7	286	30	6·9	5·3	296
3·6 „ . .	26	7·2	6·1	280	25	4·1	2·0	252	23	4·1	2·4	276	18	4·6	2·9	256	19	8·0	6·3	285	29	8·5	7·9	288
4·5 „ . .	9	11·3	11·1	268	25	4·6	2·3	222	19	4·3	2·6	283	2	2·6	2·1	148	8	9·9	8·8	275	29	11·6	11·1	280
5·4 „ . .					21	5·7	3·1	250	17	4·9	2·2	280	2	6·9	6·9	179	1	9·8	9·8	265	28	15·2	14·8	277
6·0 „ . .					20	7·0	3·3	229	16	5·9	2·3	246									28	18·5	17·7	274
7·2 „ . .					7	9·3	5·9	263	9	6·5	4·9	270									15	23·2	22·0	270
9·0 „ . .									1	6·7	6·7	230									4	39·8	38·0	255

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Station	JAIPUR				JAMSHEDPUR								JHARSUGUDA											
Time in I.S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·3	1·0	040	30	1·6	1·5	287	30	1·5	1·2	328	30	2·0	1·9	012	30	1·2	0·5	024	30	1·0	0·7	357
0·15 a.g. . .	30	4·4	0·7	068	29	3·8	3·5	302	30	2·7	2·2	334	30	4·7	4·6	032	30	2·1	1·0	016	30	2·7	1·0	359
0·3 a.s.l. .					29	3·8	3·3	320	30	2·8	2·4	340	30	4·4	4·3	030	30	2·3	1·1	018	30	2·6	1·4	007
0·6 ,, .	30	4·4	0·5	078	29	3·8	3·2	352	30	3·4	3·0	343	30	4·3	3·9	032	30	2·3	1·3	356	30	2·7	1·5	002
0·9 ,, .	30	3·0	0·2	357	29	4·9	4·3	350	30	3·9	3·1	340	30	4·0	3·3	022	30	2·5	1·7	351	30	3·1	2·1	355
1·5 ,, .	30	2·7	1·4	300	29	5·6	4·7	327	30	4·8	3·8	319	30	4·1	2·9	344	30	3·9	3·0	341	30	3·1	2·2	016
2·1 ,, .	30	4·2	2·5	300	28	7·7	5·8	297	29	7·8	6·3	307	29	5·8	3·9	304	28	5·7	4·4	332	29	4·6	3·0	307
3·0 ,, .	25	6·1	5·1	290	27	8·6	7·9	275	29	9.2	8·6	283	27	6·3	5·8	282	28	7·3	6·3	290	27	7·2	6·3	280
3·6 ,, .	21	7·7	7·1	289	27	10·6	10·1	271	28	11·8	11·5	276	23	7·2	6·5	280	28	8·2	7·5	279	25	7·7	6·5	277
4·5 ,, .	9	8·7	8·2	276	25	13·2	12.7	263	24	13·6	13.2	271	15	7·4	6·8	276	24	8·7	8·3	273				
5·4 ,, .	3	10·1	9·4	292	17	16·1	15·7	266	17	15·8	15·6	273	2	8.5	8·5	263	6	10·4	10·2	276				
6·0 ,, .	1	7·2	7·2	245	11	17·9	17·3	266	15	19·0	18·3	273	2	11·6	10·3	247	2	18.8	18.3	279				
7·2 ,, .					4	19·0	19·0	267	10	20·1	20·1	265	2	10.8	10·6	252								
9·0 ,, .					1	24·2	24·2	255																

Station	JODHPUR																MADRAS							
Time in I.S.T.	0530*				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·5	2·4	040	30	1·4	1·0	062	30	2·3	1·4	034	30	2·4	2·1	026	28	3·1	2·8	359	30	5·1	4·4	008
0·15 a.g. . .	30	6·0	3·2	042	29	2·6	1·6	074	30	5·1	4·1	032	30	7·4	4·1	050	28	7·6	6·8	022	23	6·6	5·5	026
0·3 am.s.l. .	30	4·7	4·4	040	29	2·3	1·6	066	30	3·9	3·1	028	30	6·0	3·9	046	28	7·2	6·4	030	23	7·2	6·3	034
0·6 ,, .	30	4·8	2·5	045	29	3·0	1·6	074	30	3·7	2·4	018	30	6·3	3·7	063	28	7·6	6·5	048	21	8·1	7·3	047
0·9 ,, .	30	3·4	0·1	168	29	3·3	1·7	055	30	2.4	1·2	006	30	4·4	2·4	076	28	8·3	6·8	056	18	9·2	8·3	051
1·5 ,, .	30	3·4	1·7	286	30	3·6	1·5	360	30	2·9	2·1	358	30	3·6	1·0	083	28	8·4	7·5	066	15	8·6	7·9	060
2·1 ,, .	30	4·8	3·1	300	30	4·4	2·2	308	30	3·6	2·2	328	30	4·3	0·3	330	28	7.4	6·4	078	11	8·0	6·8	068
3·0 ,, .	30	6·1	4·0	310	30	6·6	3·0	311	30	6·1	4·7	284	26	4·7	2.4	280	28	6·7	5·8	086	5	6·3	4·7	095
3·6 ,, .	30	7·7	6·4	290	30	7·1	4·0	275	29	7·5	3·3	070	7	6·2	4·4	280	28	8·3	5·6	091	4	5·4	3·8	102
4·5 ,, .	30	9·3	8·7	275	30	10·8	9·3	274	29	10·8	10·4	276					28	7·8	6·0	093	4	6·8	5·5	091
5·4 ,, .	29	14·3	13·1	268	29	14·7	13·1	272	27	13·6	13·0	272					27	8·3	5·7	093	3	9·8	8·4	096
6·0 ,, .	26	16.8	16·2	270	26	16·1	14·6	270	25	17·0	16·3	268					27	8·2	5·3	096	3	9·3	6·0	092
7·2 ,, .	26	22·8	21·8	266	14	21·2	20·4	265	25	20·9	20·0	261					27	7·5	5·3	101	2	8·2	6·5	105
9·0 ,, .	24	30·1	29·0	263	1	26·2	26·2	265	22	28·5	27.0	257					25	8·9	4·9	114	2	12·6	11·7	116

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Station	MADRAS								MINICOY												MOHANBARI			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	4·0	3·2	026	30	3·2	2·3	005	30	2·6	2·1	293	30	3·0	2·1	286	30	2·8	1·8	289	30	0·4	0·4	037
0·15 a. g. . .	29	8·2	7·5	033	25	6·9	5·9	029	27	4·9	3·5	287	29	5·2	3·7	283	26	4·6	3·2	295	27	3·9	3·6	062
0·3 a'm.s.l. . .	29	8·1	7·5	034	25	7·8	6·8	041	27	4·9	3·5	292	29	5·8	4·1	284	26	4·9	3·3	292	27	4·0	3·7	050
0·6 „ . .	29	7·8	7·1	042	25	8·6	7·3	048	27	5·2	3·8	294	29	6·6	4·7	280	26	5·7	3·8	300	27	3·4	1·7	034
0·9 „ . .	29	8·3	7·5	051	25	8·9	7·2	050	25	5·1	3·5	297	29	6·4	4·4	285	26	5·5	3·7	293	26	2·9	2·9	043
1·5 „ . .	29	8·1	7·2	059	22	8·5	6·7	056	22	5·2	2·5	311	29	5·8	3·5	282	26	4·8	2·7	305	26	1·8	0.9	087
2·1 „ . .	29	6·8	5·4	078	19	7·3	5·1	065	22	4·8	2·2	224	26	5·0	2·5	291	22	5·5	2·4	207	25	2·1	0·9	172
3·0 „ . .	29	6·7	5·6	086	14	6·8	5·6	072	20	4.0	1·9	311	22	4·6	2·3	315	20	4·6	1·9	332	22	1·5	1·5	180
3·6 „ . .	29	7·1	5·8	090	5	6.0	4·5	037	16	4·3	1·0	017	20	4.5	1·3	287	16	4·2	1·5	005	20	4·3	2·2	242
4·5 „ . .	29	7·0	5·4	087	3	6·7	5·8	049	14	4·5	1·8	068	15	5·0	2·4	034	6	4·6	3·8	048	15	12·1	11·8	262
5·4 „ . .	29	8·0	6·1	095	2	5·1	4·7	014	12	4·8	3·7	060	13	6·2	3·7	037					12	16·8	15·9	265
6·0 „ . .	28	8·9	6·6	100	2	6·2	4·9	349	11	5·1	3.8	072	12	5·8	2·4	064					7	17·3	16·8	276
7·2 „ . .	28	9·4	6·3	110	1	6·7	6·7	355	8	6·9	5·6	080	8	5·8	5·1	070					4	20·6	20	283
9·0 „ . .	24	9·3	6·6	110	1	6·2	6·2	310	3	10·8	10·5	096	6	9·1	8·7	086								

Station	MOHANBARI								NAGPUR															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·3	0·2	029	30	0·2	0·1	112	30	1·5	1·4	340	30	1.6	1·3	060	30	1·8	1·6	052	30	1·1	8·[illegible]	022
0·15 a. g. . .	30	1·8	1·3	038	30	2·7	2·4	049	30	5·9	5·4	055	30	2·4	2·0	057	30	4·5	3·6	045	30	4·4	3·9	085
0·3 a.m.s.l. .	30	1·8	1·3	046	30	2·6	2·3	049																
0·6 „ . .	30	1·6	1·2	056	30	2·3	2·0	050	30	5·3	4·9	060	30	3·0	2·6	068	30	4·4	3·6	046	30	4·6	4·1	083
0·9 „ . .	30	1·8	1·4	061	30	2·4	2·1	054	30	4·5	3·9	066	30	3·7	3·0	060	30	4·0	3·2	050	30	4·6	4·1	074
1·5 „ . .	30	1·8	0·6	154	30	1·8	0·9	076	30	4·7	3·5	029	30	5·5	3·8	029	30	4·1	3·1	030	30	5·0	4·0	035
2·1 „ . .	29	3·5	3·1	189	29	2·7	2·0	232	30	5·6	4·1	336	80	5·0	3·9	346	30	5·7	4·7	358	30	4·8	3·1	344
3·0 „ . .	29	4·6	3·9	204	27	4·3	3·4	232	30	5·8	4·5	293	30	4·9	3·2	290	30	6·4	5·1	307	30	5·3	3·4	286
3·6 „ . .	26	6·1	4·4	244	12	5·8	3.8	259	30	6·2	4·9	280	28	5·3	4·2	272	30	6·7	5·3	273	22	5·5	4·8	276
4·5 „ . .	24	13·8	12·9	252	4	14.8	14.7	262	30	7·1	6·2	271	29	7·1	6·0	267	30	6·7	5·9	265	8	5·5	5·3	250
5·4 „ . .	21	19·8	19·6	262					29	8·7	7·5	268	28	9·7	8·4	259	30	9·2	8·1	268	2	6·7	6·4	234
6·0 „ . .	20	23·6	23·3	265					29	10.8	9·1	258	27	12.0	10.5	257	30	11·5	10·[illegible]	265	1	10·8	10·8	215
7·2 „ . .	17	29·0	28.4	273					29	13·8	12·3	254	26	14.2	12.3	259	30	14·2	12·6	264				
9·0 „ . .	6	34·6	33·3	274					29	17·5	15·7	260	21	15·6	14.2	261	27	19·5	17·5	261				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Station	NANPARA								NEW DELHI															
Time in I. S. T.	0530				1730				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·1	0·1	315	30	0·6	0·6	301	30	1·5	1·4	290	30	2·3	1·6	296	30	2·0	1·7	305	30	1·4	1·1	295
0·15 a. g. .	29	3·2	2·7	323	30	3·0	2·6	291	30	4·6	3·5	317	30	3·4	2·3	315	30	5·1	4·4	316	30	5·0	3·8	331
0·3 a.m.s.l. .	29	3·3	2·8	313	30	3·1	2·6	291	30	3·9	2·9	315	30	3·1	2·0	313	30	3·2	2·9	313	30	4·8	3·8	314
0·6 „ . .	29	3·8	3·4	303	30	3·5	3·1	292	30	4·6	3·6	321	30	4·4	3·5	318	30	5·0	4·4	312	30	5·3	4·4	325
0·9 „ . .	29	4·0	3·4	310	30	3.9	3·2	293	30	5·0	4·4	313	30	5·5	4·7	315	30	4·8	4·2	306	30	5·5	4·8	310
1·5 „ . .	29	5·1	2·9	309	30	5·3	3·0	297	30	8·2	5·8	305	30	7·1	6·1	310	30	5·3	4·6	308	30	6·3	5·5	325
2·1 „ . .	28	6·0	3·3	310	30	6·2	3·4	312	30	6·5	5·8	300	30	7·5	6·1	309	30	5·9	5·3	308	30	6·1	5·6	296
3·0 „ . .	28	6·9	5·6	305	30	6·8	5·7	306	30	6·3	5·6	297	30	7·6	5·7	303	30	7·0	6·0	302	28	6·7	6·0	296
·6 „ . .	26	7·5	5·8	295	30	8·3	7·6	302	30	7·5	6·2	293	30	8·1	6·1	292	30	8·7	7·9	296	8	5·7	5·2	292
4·5 „ . .	23	9·8	9·2	280	29	12.4	11·9	288	30	10·2	9·3	282	29	10·6	9·3	275	30	11·4	10·7	286	1	10·3	10·3	260
5·4 „ . .	18	14·9	14·0	278	29	16·5	15·8	281	30	14·4	13·9	281	29	14·5	13·1	272	30	14·7	13 9	283				
6·0 „ . .	14	15·6	15·1	268	29	19·4	18·6	277	30	17·4	16·8	275	28	16·5	14·5	270	30	18·0	16·9	278				
7·2 „ . .	11	21·0	20·1	266	27	25·2	24·4	273	30	23·9	23·2	275	19	19·5	18·5	266	30	24·5	23·1	273				
9·0 „ . .	2	34·3	34·1	244	22	36·9	35·0	264	30	33·7	31·4	270	9	24·1	22·7	268	30	32·8	32·6	268				

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·2	0·1	156	30	1·1	0·9	088	30	0·2	0·2	090	30	2·2	1·3	083	30	2·8	2·2	086	30	2·8	2·0	09
0·15 a.g. .	30	3·7	3·3	099	30	3·7	2·8	083	30	3·9	2·5	086	30	4·9	3·6	084	30	5·0	4·2	088	30	5·8	4·7	093
0.3 a.m.s.l. .													30	5·0	3·8	085	30	5·1	4·3	088	30	5·8	4·8	091
0·6 „ . .	30	1·9	0·5	144	30	2·5	2·0	083	30	1·6	0·5	138	30	6·5	5·1	089	30	5·9	5·0	097	30	6·0	4·5	092
0·9 „ . .	30	5·6	5·0	106	30	4·0	3·0	084	30	5·5	4·1	081	30	6·7	5·8	096	29	6·1	5·3	100	30	6·4	5·3	093
1·5 „ . .	28	6·1	5·2	107	30	4·9	3·8	080	30	6·0	5·6	090	30	7·5	6·4	101	25	6·5	6·1	098	30	6·1	5·2	099
2·1 „ . .	27	4·5	3·3	089	29	4·5	3·2	089	27	5·3	4·6	089	29	6·6	5·8	100	21	6·1	5·6	095	30	6·6	5·5	098
3·0 „ . .	27	5·1	1·9	036	27	5·0	2·9	053	27	5·1	2·5	087	29	7·4	6·4	096	17	6·3	5·7	094	30	6·8	6·1	092
3·6 „ . .	22	4·4	1·4	344	26	5·2	1·9	035	21	4·6	0·6	046	29	7·7	6·8	097	14	7·4	7·1	092	29	7·5	6·1	096
4·5 „ . .	9	4·2	0·5	314	24	4·5	0·4	357	16	5·1	1·6	248	28	8·1	7·6	097	9	7·6	7·4	089	26	8·4	7·5	090
5·4 „ . .					24	5·9	1·2	219	6	6·3	4·0	246	27	9·6	9·1	096	5	7.5	7·3	096	25	9·4	8·0	090
6·0 „ . .					21	5·9	1·8	242	3	8·1	3·6	217	27	9·6	9·3	098	5	8·7	8·4	098	25	9·5	7·6	096
7·2 .					16	6·7	3·4	255					27	9·0	8·2	096	3	10·8	10·8	102	25	9·1	8·1	099
9.0 . .					9	8·7	5·8	259					26	8·4	7·3	095	2	11·6	11·6	095	23	7·7	6·4	100

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·7	2·1	100	30	1·5	1·2	030	30	1·4	1·2	028	30	2·2	1·7	087	30	0·1	0·1	145	30	0·3	0·2	249
0·15 a.g.	30	4·8	3·7	100	30	5·0	4·5	039	30	2·2	2·8	038	30	4·2	3·1	078	28	2·6	0·4	341	30	3·7	3·2	257
0·3 a.m.s.l.	30	4·9	3·6	101													28	2·5	1·2	279	30	3·7	3·2	259
0·6 „	30	5·4	4·3	105	30	5·6	5·3	049	30	3·0	3·0	040	30	4·0	3·4	069	28	2·7	2·1	272	30	3·3	3·0	259
0·9 „	30	5·7	4·8	111	30	4·7	4·4	041	30	3·3	3·0	038	30	3·9	3·5	049	28	2·5	1·3	262	30	2·9	2·5	268
1·5 „	27	5·5	4·1	112	30	4·8	3·5	024	30	8·0	3·3	020	30	4·8	4·2	020	28	2·7	0·3	029	30	2·6	0·6	234
2·1 „	19	4·9	4·0	093	30	4·6	3·0	325	30	1·8	3·0	346	29	5·3	2·9	349	27	3·1	0·7	066	30	3·2	0·8	047
3·0 „	13	5·3	5·1	088	30	6·1	4·4	283	28	6·1	4·1	285	28	6·7	4·4	287	24	6·1	4·7	289	26	6·1	5·0	292
3·6 „	3	6·0	6·0	105	28	7·3	5·2	272	28	7·2	4·9	268	19	7·1	4.6	286	23	9·3	7·9	282	24	9·5	9·2	283
4·5 „	3	5·7	5·6	102	19	7·8	7·1	255	26	8·1	5·9	268	5	5·3	4·5	241	20	11·9	9·7	274	17	13·0	12·8	284
5·4 „					6	7·6	6·2	250	22	9·5	8·5	281	2	6·2	5·8	225	12	16·2	15·5	266	6	17·5	17·1	271
6·0 „					2	9·5	8·9	223	20	11·4	9·3	268	1	8·7	8·7	220	6	15·2	14·5	269	2	15·2	15·2	252
7·2 „					1	7.7	7·7	205	9	12·7	11·3	272					2	17·5	14·4	279				
9·0 „									3	15·8	15·6	247												

Station	SANTA CRUZ																TIRUCHIRAPALLI							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·9	1·6	075	30	1·9	1·7	085	30	3·1	2·4	310	30	1·2	1·1	025	30	2·2	1·4	317	30	3·1	1·9	044
0·15 a.g.	30	6·7	5·7	070	30	3·1	2·7	089	30	5·8	4·4	322	30	4·0	2·9	018	26	5·8	4·0	344	27	5·5	4·3	040
0·3 a.m.s.l.	30	5·9	4.9	082	30	4·1	3·5	100	30	4·6	3·1	342	30	4·2	1·9	022	26	6·1	4·4	351	27	5·9	4·8	038
0·6 „	30	5·5	4·4	097	30	4·8	4·2	104	30	2·9	1·8	037	30	4·1	3·0	038	26	7·3	5·3	014	26	7·1	5·9	039
0·9 „	30	5·8	4·5	098	30	5·2	4·5	105	30	3·3	2·5	068	30	3·9	3·0	035	23	7·8	5·7	019	26	7·2	5·9	037
1·5 „	30	4·5	3·1	120	30	3·7	2·1	090	30	4·6	3·3	075	30	4·1	3·5	085	19	6·5	4·1	008	26	6·9	5·2	032
2·1 „	30	3·3	1·4	123	30	4·1	1·7	039	30	5·6	4·1	065	30	4·9	3·6	088	13	4·8	3·9	356	24	6·5	4·5	037
3·0 „	30	5·0	1·6	004	28	5·1	2·3	019	30	5·0	2·0	077	30	4·9	1·2	093	13	4·4	2·6	015	18	5·1	3·6	036
3·6 „	29	5·3	2·2	325	27	4·8	1·7	021	30	4·8	1·3	012	23	4·6	0·5	019	11	4·3	2·8	313	16	5·6	3·4	037
4·5 „	29	5·1	2·0	281	26	4·6	1·3	248	30	4·3	1·6	270	20	5·1	0·9	265	5	5·9	5·0	061	13	6·0	3·2	048
5·4 „	29	6·0	3·3	252	25	5·3	1·9	224	30	5·7	2·7	243	9	5.7	0·3	335	5	7·7	7·0	063	10	6·6	4·9	034
6·0 „	29	7·2	3·8	273	25	6·6	2·1	256	30	6·5	3·9	255	6	5·4	2·0	360	5	7·5	6·5	062	8	7·3	6·0	031
7·2 „	29	9·3	6·2	262	22	7·7	3·9	263	30	8·3	3·1	269	1	9·3	9·3	335					6	6·7	3·8	055
9·0 „	25	12·9	10·1	277	21	9·9	6·5	255	26	12·4	9·8	261									2	6·9	6·9	003

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Station	TIRUCHIRAPALLI				TRIVANDRUM																UDAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·5	1·9	026	30	1·4	0·6	004	30	1·9	0·6	265	30	2·2	0·6	288	30	1·7	1·1	032	30	0·1	0·1	282
0·15 a.g. .	28	6·1	4·9	036	24	3·7	1·9	342	28	3·4	0·9	212	29	4·1	1·2	277	25	3·6	1·9	002	29	2·3	1·7	016
0·3 a.m.s.l. .	28	6·7	5·5	037	24	3·8	1·9	340	28	3·5	1·0	218	29	4·3	1·3	275	25	3·7	1·6	344				
0·6 „ . .	28	8·0	6·9	037	24	4·0	1·4	324	27	4·2	1·0	233	29	4·6	2·2	266	25	4·1	1·6	327				
0·9 „ . .	27	7·2	6·0	039	24	4·0	1·1	351	25	5 0	0·3	242	29	4·4	1·5	283	24	3·8	1·3	338	29	3·1	1·4	063
1·5 „ . .	23	6·7	4·8	044	24	4·5	0·6	045	17	5·6	1·2	002	29	4·6	1·0	347	20	4·5	1·8	044	29	4·3	1·9	186
2·1 „ . .	16	6·7	4·6	046	24	4·1	1·1	005	10	4·1	0·8	117	27	4·1	1·1	319	19	4·4	1·4	017	29	5·1	3·1	229
3·0 „ . .	13	5·0	4·0	062	23	4·4	1·2	355	7	4·2	0·7	154	26	3·8	0·9	309	16	4·5	0·7	349	28	6·7	5·0	257
3·6 „ . .	9	5·5	4·3	046	23	4·5	1·6	335	5	4·1	1·2	186	26	4·4	1·3	306	13	4·8	1·3	014	27	8.7	7·1	260
4·5 „ . .	3	5·3	5·3	058	23	4·9	0·8	021	5	4·2	2·0	138	26	5·1	1·5	339	8	5·9	2·8	003	14	9 8	9·1	268
5·4 „ . .					21	4·5	0·8	121	4	4·1	2·8	095	26	5·0	0·9	014	6	5·0	3·5	076	7	12·9	12·1	268
6·0 „ . .					21	4·7	1·7	046	4	6·0	5·1	076	26	5·2	1·5	066	6	4.5	3·5	066	5	16·2	15·8	269
7·2 „ . .					21	5·3	2 7	100	1	8·7	8·7	070	26	6.0	3·5	0·95	1	2·1	2·1	060				
9·0 „ . .					18	7·7	6·9	099	1	12·9	12·9	035	20	10·8	7·9	0·96								

Station	UDAIPUR								VENGURLA												VERAVAL			
Time in I.S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·5	0·1	178	30	0·1	0·1	270	30	0·8	0·5	031	30	1·5	1·1	268	30	0·6	0·6	014	30	3·4	3·2	033
0·15 a.g. .	30	2·4	0·9	109	30	2·6	1·3	045	30	4·2	2·7	065	30	3·1	2·2	268	30	4·4	3·5	017	30	6·0	5·6	051
0·3 a.m.s.l. .									30	4·7	3·3	077	30	3·5	1.7	272	30	4·4	3.3	021	30	5·5	5·3	059
0 6 „ . .									30	5·3	4·1	087	30	3·3	0·8	033	30	4·2	2·7	0·48	30	5·0	4·5	073
0·9 „ . .	30	2·5	0·7	110	30	3·8	2·0	068	30	6·3	5·5	095	30	4·0	3·0	060	29	4·7	3·4	071	30	4·5	3·8	083
1·5 „ . .	30	2·9	0·1	271	30	4·3	2·1	118	30	6·9	6·4	093	30	6·8	6·3	070	29	7·4	6·7	080	30	4·1	2·7	088
2·1 „ . .	30	3 8	1·4	264	30	4·2	1·8	171	30	6·0	5·0	085	30	8·7	7·9	075	29	8·5	8·0	081	30	3·6	1·5	100
3·0 „ . .	29	6·4	4·8	266	29	6·4	4·9	279	30	7·0	5·0	074	28	7·5	6.1	072	27	7·4	6·2	090	30	3·9	1·4	290
3·6 „ . .	29	9·1	8·0	262	29	8 0	6 8	261	16	6·4	2·9	078	27	6·8	5·5	081	19	6·6	4·7	087	29	3·7	2·3	070
4·5 „ . .	28	10·8	10·2	267	22	10·4	9·5	266	2	3·6	2·7	127	22	6·0	3·7	084					29	4·4	3·2	281
5·4 „ . .	24	13·7	12·6	268	12	14·0	12·5	261					16	6·5	3·0	065					28	5·9	4·4	282
6·0 „ . .	24	16·6	16·0	268	7	15·0	14·2	271					16	6 6	2·5	075					28	7·5	5·9	264
7·2 „ . .	21	19·6	19·1	271	3	18·4	17·5	264					13	8·0	1·4	063					28	10 7	9·4	274
9·0 „ . .	14	28·8	28·0	267									2	5·7	3·2	358					24	14·9	13·7	266

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Station	VERAVAL												VISAKHAPATNAM											
Time in I.S.T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	4·6	3·4	072	30	5·3	2·9	185	30	1·7	1·3	005	30	1·9	1·6	034	30	3·2	2·8	051	30	2·9	2·8	048
0·15 a. g. .	30	4·6	4·0	073	30	5·3	3·0	168	30	4·0	1·6	031	30	12·3	12·0	024	30	4·8	4·5	066	30	11·1	10·7	046
0·3 a.m.s. l. .	30	4·9	4·4	073	30	4·9	2·8	158	30	4·8	2·2	057	30	10·8	10·5	029	30	4·5	4·4	058	30	9·7	9·3	048
0·6 ,, .	30	5·3	4·8	077	30	4·1	2·2	121	30	6·4	4·4	075	30	7·1	6·6	059	30	4·4	4·3	049	30	6·8	6·5	061
0·9 ,, .	30	5·1	4·4	079	30	3·9	2·5	073	30	6·8	5·3	077	30	6·3	6·0	056	30	4·5	5·2	051	30	6·4	5·9	044
1·5 ,, .	30	4·0	2·6	075	30	4·6	3·8	057	30	5·8	5·5	074	30	5·8	5·0	066	26	5·1	4·4	061	30	4·8	3·6	029
2·1 ,, .	30	3·8	1·4	071	30	4·8	3·9	037	30	5·9	4·6	058	30	3·8	2·2	067	25	4·2	2·7	062	30	3·8	2·5	018
3·0 ,, . .	29	3·7	0·8	330	30	4·5	2·2	343	30	5·2	0·7	036	30	3·7	0·6	099	23	3·4	1·2	097	29	3·6	1·3	054
3·6 ,, .	29	4·0	2·0	285	29	4·8	2·9	293	28	6·1	0·8	293	30	3·8	1·3	150	22	4·2	1·5	136	29	4·2	1·4	141
4·5 ,, .	29	5·7	3·9	269	29	5·7	4·7	275	23	6·0	2·5	266	30	4·7	0·6	095	21	4·4	1·8	134	29	4·6	1·6	156
5·4 ,,	29	7·2	5·6	265	29	6·3	5·6	278	11	6·2	2·9	275	30	5·4	1·3	143	19	5·5	1·7	121	29	5·3	2·3	146
6·0 ,, .	29	8·4	7·3	265	29	7·6	6·4	277	7	6·7	1·5	253	29	6·5	2·5	170	18	5·7	2·4	113	29	6·1	1·5	175
7·2 ,, .	29	11·6	9·8	270	29	11·2	9·9	273					29	4·2	3·1	195	15	6·1	2·7	148	29	6·4	2·1	265
9·0 ,, .	22	17·2	15·7	263	26	16·3	15·0	267					24	8·0	5·3	235	14	6·2	1·7	231	23	7·3	3·8	245

Station	VISAKHAPATNAM			
Time in I.S.T.	2330			
Ht. in Km.	n	V	v	D
Surface . .	30	2·0	1·9	061
0·15 a. g. .	30	4·6	4·2	065
0·3 a.m.s. l. .	30	5·6	5·5	068
0·6 ,, .	30	6·1	5·9	066
0·9 ,, .	29	6·2	5·9	055
1·5 ,, .	28	5·6	4·9	050
2·1 ,, .	26	4·5	3·2	078
3·0 ,, .	25	3·6	1·7	106
3·6 ,, .	20	3·6	1·5	103
4·5 ,, .	15	4·6	2·5	097
5·4 ,, .	10	5·5	2·3	087
6·0 ,, .	6	5·0	3·2	128
7·2 ,, .	4	5·1	3·4	118
9·0 ,, .				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 Km. above mean sea level

November, 1960 (Kartika 10— Agrahayana 9, 1882 Saka)

Ht. in Km.	n	V	v	D
		AGARTALA		
		1730 hrs.		
10·5	3	30·3	29·2	284
12·0	1	54·0	54·0	295
		AHMEDABAD		
		1730 hrs.		
10·5	2	25·2	25·0	270
12·0	1	25·7	25·7	275
		ANANTAPUR		
		0530 hrs.		
10·5	5	6·9	4·5	135
12·0	1	2·6	2·6	170
		1730 hrs.		
10·5	9	8·6	3·7	145
12·0	7	9·4	7·5	148
14·1	6	7·8	6·2	164
16·2	3	6·8	5·0	162
18·0	1	2·6	2·6	200
		BAIRAGARH		
		0530 hrs.		
10·5	10	26·9	26·4	258
12·0	3	25·1	24·9	254
14·1	1	19·0	19·0	270
		1730 hrs.		
10·5	4	27·4	27·1	257
12·0	1	21·0	21·0	250
		BAJPE		
		1730 hrs.		
10·5	3	6·2	4·7	134
12·0	2	9·0	9·0	168
		BAMRAULI		
		0530 hrs.*		
10·5	19	36·3	34·2	258
12·0	11	36·2	34·2	254
14·1	4	38·6	38·0	239
		1130 hrs.		
10·5	2	38·9	38·2	241

Ht. in Km.	n	V	v	D
		1730 hrs.*		
10·5	17	35·8	33·7	260
12·0	9	34·5	33·8	266
14·1	2	36·8	36·8	270
		BANGALORE		
		0530 hrs.		
10·5	2	8·0	7·7	126
12·0	1	5·1	5·1	190
		1730 hrs.		
10·5	7	7·6	6·0	133
12·0	7	12·9	12·3	128
14·1	1	8·6	7·8	156
16·2	4	3·9	2·5	218
18·0	2	5·9	4·1	076
21.0	1	16·0	16·0	095
		2330 hrs.		
10·5	1	4·1	4·1	085
		BEGUMPET		
		0530 hrs		
10·5	3	9·1	7·4	216
12·0	3	13·4	8·4	198
14·1	3	7·6	6·6	216
16·2	2	12·6	12·2	244
18·0	1	16·5	16·5	265
		1730 hrs.		
10·5	5	7·4	5·8	209
12·0	4	10·7	10·0	187
14·1	2	11·8	11·7	167
16·2	1	3·1	3·1	185
		DEHRA DUN		
		0530 hrs.		
10·5	1	19·0	19·0	265
		DUM DUM		
		0530 hrs.*		
10·5	18	21·4	20·2	263
12·0	18	22·1	19·7	259
14·1	10	20·6	18·8	256
16·2	3	14·6	14·3	253
		1730 hrs*		
10·5	17	19·1	18·1	252
12·0	15	22·3	21·6	259
14·1	8	19·9	19·6	268
16·2	4	17·0	16·6	270

Ht. in Km.	n	V	v	D
		GADAG		
		0530 hrs.		
10·5	5	10·2	5·5	182
12·0	4	11·2	9·2	181
14·1	4	6·8	4·0	203
16·2	1	25·7	25·7	230
		1730 hrs.		
10·5	6	9·2	8·6	200
12·0	5	13·4	12·7	180
14·1	4	8·1	6·8	224
16·2	4	4·8	1·3	234
18·0	2	11·8	9.9	113
21·0	2	13·9	12·8	119
		GANNAVARAM		
		0530 hrs.		
10·5	5	6·8	5·1	196
12·0	3	7·7	6·0	197
14·1	1	7·7	7·7	270
		1730 hrs.		
10·5	8	5·7	2·1	175
12·0	5	10·7	9·5	169
14·1	2	9·3	9·2	150
16·2	1	3·1	3·1	115
		GAUHATI		
		0530 hrs.*		
10·5	27	43·0	41·3	267
12·0	22	42·2	40·6	265
14·1	9	39·4	38·2	266
16·2	6	36·8	35·9	263
18·0	4	42·5	40·6	268
21·0	2	34·0	33·8	281
		1130 hrs.		
10·5	3	41·1	40·2	270
		1730 hrs.*		
10·5	25	42·0	40·8	269
12·0	17	41·4	41·2	257
		GOPALPUR		
		0530 hrs.		
10·5	1	7·7	7·7	260

Ht. in Km.	n	V	v	D
		GORAKHPUR		
		1730 hrs		
10·5	6	47·7	45·0	259
12·0	2	47·8	47·8	242
		GWALIOR		
		0530 hrs.		
10·5	6	39·5	38·5	251
		1730 hrs.		
10·5	3	38·7	38·2	251
		IMPHAL		
		1730 hrs.		
10·5	4	38·2	36·6	276
		JABALPUR		
		1730 hrs.		
10·5	1	17·5	17·5	240
		JAGDALPUR		
		1730 hrs.		
10·5	1	5·7	5·7	235
		JODHPUR		
		0530 hrs.*		
10·5	23	34·6	31·3	260
12·0	18	36·4	31·5	254
14·1	9	31·8	30·8	259
16·2	1	30·4	30·4	240
		1730 hrs.*		
10·5	15	35·4	27·0	261
12·0	13	36·8	33·4	257
14·1	4	40·6	39·8	256
16·2	1	62·2	47·8	250
		MADRAS		
		0530 hrs.*		
10·5	22	9·8	7·8	128
12·0	20	11·3	10·7	131
14·1	20	10·2	8·3	141
16·2	13	8·0	4·7	114
18·0	6	7·3	6·5	079
21·0	1	11·8	11·8	090

Ht. in Km.	n	V	v	D
		1130 hrs.		
10·5	1	10·3	10·3	090
12·0	1	20·1	20·1	115
14·1	1	9·3	9·3	115
16·2	1	5·1	5·1	205
18·0	1	1·0	1·0	110
		1730 hrs.*		
10·5	24	10·1	9·0	130
12·0	22	11·7	10·6	133
14·1	18	15·9	8·6	124
16·2	4	5·9	5·3	133
18·0	2	10·8	3·8	022
21·0	1	17·5	17·5	100
		2330 hrs.		
10·5	1	3·6	3·6	300
12·0	1	2·6	2·6	205
14·1	1	9·3	9·3	055
16·2	1	13·9	13·9	040
		MINICOY		
		0530 hrs		
10·5	2	18·3	17·4	104
12·0	1	7·2	7·2	085
		1730 hrs.		
10·5	4	16·9	16·4	110
12·0	2	6·2	5·5	133
14·1	1	3·6	3·6	355
		MOHANBARI		
		1730 hrs.		
10·5	1	24·7	24·7	265
		NAGPUR		
		0530 hrs.*		
10·5	29	20·1	19·1	252
12·0	29	21·7	20·2	245
14·1	29	20·7	19·9	244
16·2	27	11·3	9·4	255
18·0	22	7·5	4·9	270
21·0	8	6·4	5·3	269
24·0	2	7·5	7·3	290

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9. Km. above mean sea level

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Ht. in Km.	n	V	v	D
	NAGPUR			
	1130 hrs.			
10·5	11	15·0	14·8	247
12·0	9	18·6	18·1	250
14·1	7	19·4	17·7	246
16·2	5	20·8	19·0	249
18·0	3	16·3	14·8	256
21·0	2	12·6	11·9	271
24·0	1	3·1	3·1	305
	*1730 hrs.**			
10·5	26	20·3	19·4	253
12·0	26	22·3	19·6	242
14·1	20	21·8	20·3	242
16·2	16	12·7	9·6	252
18·0	13	7·9	4·5	262
21·0	1	21·1	21·1	281
	NANPARA			
	1730 hrs.			
10·5	11	44·8	42·7	261
12·0	5	55·3	49·7	259
	NEW DELHI			
	*0530 hrs.**			
10·5	28	39·2	38·0	265
12·0	22	40·1	38·7	262
14·1	12	30·0	29·1	255
16·2	5	28·6	26·6	266
	1130 hrs.			
10·5	4	38·6	38·3	274
12·0	2	46·0	45·7	269
14·1	1	75·1	75·1	260
	*1730 hrs**			
10·5	25	37·2	36·4	263
12·0	19	42·1	40·3	263
14·1	14	37·1	36·1	260
16·2	5	30·2	29·8	261
18·0	2	27·1	26·9	264
	POONA			
	1730 hrs.			
10·5	5	10·3	9·3	267
12·0	2	15·4	14·6	235
14·1	1	7·2	7·2	250
16·2	1	1·5	1·5	295
18·0	1	12·4	12·4	295

Ht. in Km.	n	V	v	D
	PORT BLAIR			
	*0530 hrs.**			
10·5	21	8·9	7·9	108
12·0	16	11·5	10·6	107
14·1	10	14·4	12·9	086
16·2	5	10·0	9·1	092
18·0	2	12·9	12·3	091
21·0	1	18·0	18·0	025
	1130 hrs.			
10·5	2	11·6	11·4	089
12·0	1	13·4	13·4	100
	1730 hrs.*			
10·5	17	9·9	8·7	107
12·0	14	10·9	10·3	107
14·1	12	14·1	13·3	105
16·2	2	11·6	10·0	083
18·0	1	18·5	18·5	015
	RAIPUR			
	1730 hrs.			
10·5	1	20·6	20·6	250
	SANTA CRUZ			
	0530 hrs.*			
10·5	24	13·4	12·0	252
12·0	17	16·2	14·7	239
14·1	7	15·9	14·6	251
16·2	2	7·2	4·3	303
18·0	1	8·2	8·2	295
	1130 hrs.			
10·5	16	12·7	9·9	253
12·0	11	13·5	12·0	230
14·1	21	12·9	11·8	251
16·2	18	15·5	13·1	234
18·0	13	15·4	13·3	236
21·0	3	8·4	5·2	192
	TRIVANDRUM			
	0530 hrs.*			
10·5	16	11·1	10·1	091
12·0	13	14·7	13·9	090
14·1	9	13·8	12·6	098
16·2	6	11·6	8·7	086
18·0	3	13·5	13·4	104
21·0	2	12·9	11·9	108
	1130 hrs.			
10·5	1	17·0	17·0	055
12·0	1	17·0	17·0	100

Ht. in Km.	n	V	v	D
	*1730 hrs.**			
10·5	16	12·8	12·0	098
12·0	15	15·5	15·4	097
14·1	9	14·5	14·2	094
16·2	3	19·2	18·6	093
18·0	1	15·4	15·4	115
	UDAIPUR			
	1730 hrs.			
10·5	7	30·6	30·4	270
12·0	5	39·0	38·8	268
14·1	3	37·0	36·9	269
16·2	2	24·2	24·2	255
18·0	1	21·1	21·1	230
	VERAVAL			
	*0530 hrs.**			
10·5	22	17·4	15·8	259
12·0	19	17·6	15·7	262
14·1	16	18·4	16·4	258
16·2	6	13·9	13·4	252
18·0	3	9·6	9·6	254
	1130 hrs.			
10·5	16	19·0	17·3	254
12·0	10	16·8	14·2	249
	1730 hrs.*			
10·5	22	19·3	18·0	260
12·0	17	20·9	20·1	250
14·1	13	14·2	13·2	262
16·2	10	10·8	9·2	260
18·0	6	8·6	7·5	288
21·0	2	10·8	7·7	242
	VISAKHAPATNAM			
	0530 hrs.*			
10·5	23	10·3	5·0	226
12·0	21	12·7	10·8	220
14·1	18	11·5	8·8	209
16·2	17	8·1	2·7	179
18·0	7	8·2	3·4	180
21·0	2	7·5	4·6	210
	1130 hrs.			
10·5	12	8·3	5·6	227
12·0	10	9·4	7·0	214
14·1	9	11·6	8·2	219
16·2	6	7·7	4·9	192
18·0	3	5·8	3·1	119
21·0	2	12·6	5·0	262

Ht. in Km.	n	V	v	D
	1730 hrs.*			
10·5	17	9·4	8·0	225
12·0	15	11·7	10·5	204
14·1	12	12·9	11·0	216
16·2	8	10·2	9·5	188
18·0	2	9·3	8·9	166
21·0	1	10·8	10·8	230

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad	Clock type	1st October, 1944	00 and 12	
2	Bombay	Clock type	7th September, 1954	00 and 12	
3	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
4	Gauhati	Clock type	22nd July, 1955	00 and 12	
5	Gwalior	Clock type	28th June, 1960	00 and 12	
6	Jodhpur	Clock type	17th April, 1946	00 and 12	
7	Madras	Fan type	29th June, 1946	00 and 12	
8	Nagpur	Fan type	1st October, 1946	00 and 12	
9	New Delhi	Clock type	3rd December, 1943	00 and 12	
10	Port Blair	Fan type	4th December, 1949	00 and 12	
11	Trivandrum	Fan type	1st July, 1947	00 and 12	
12	Veraval	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 0000 hr. G. M. T.

November, 1960 (Kartika 10-Agrahayana 9, 1882 Saka)

Standard Pressure Surface mb.	ALLAHABAD Surf. Pr. (1003 mb.)						BOMBAY (1009 mb.)						CALCUTTA (1013 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	98	286·2	295	282	283·2	30	13	294·0	299	289	289·5	27	6	292·3	298	288	290·1
1000	30	124	..	..	..	..	30	93	..	..	..	..	27	118	..	..	..	..
900	30	1024	289·6	295	285	273·1	30	1014	295·4	299	283	279·1	27	1024	289·6	293	286	280·4
850	30	1508	286·2	292	282	268·6	30	15[illegible]8	29[illegible]·8	295	286	276·2	27	1509	286·8	290	283	275·1
800	30	2018	28[illegible]·34	289	279	265·4	3[illegible]	20[illegible]6	287·9	292	283	273·6	27	2020	285·7	287	283	269·1
700	30	3117	278·7	282	275	254·3	3[illegible]	3142	281·2	286	276	265·3	27	3133	281·6	285	279	264·5
600	30	4363	272·4	278	268	248·3	30	4[illegible]00	274·8	279	270	254·6	27	4392	274·7	279	270	255·9
500	30	5797	263·8	270	259	..	30	5848	266·5	270	263	..	26	5841	266·3	271	261	..
400	30	7488	253·3	260	250	..	30	756[illegible]	256·5	263	253	..	26	7548	256·2	262	251	..
300	29	9569	239·9	247	234	..	27	9671	242·5	247	238	..	21	9655	243·1	247	236	..
250	26	10832	23[illegible]·6	236	226	..	27	10942	232·8	237	226	..	19	10937	234·2	241	223	..
200	25	12313	220·9	225	219	..	25	124[illegible]9	221·5	226	212	..	17	12445	222·9	228	217	..
175	24	13168	215·0	220	207	..	22	13277	214·5	220	205	..	15	13315	217·7	222	213	..
150	21	14132	209·2	215	201	..	19	14230	2[illegible]8·2	213	198	..	14	14280	210·9	217	2[illegible]6	..
125	13	15220	203·5	210	197	..	12	15355	201·6	207	193	..	7	15410	203·9	211	200	..
100	9	16566	201·2	208	195	..	9	16684	196·3	201	191	..	..	..	..	..	..	..
80	5	17931	205·2	209	199	..	..	..	..	..	..	..	..	..	..	..	..	..

	GAUHATI (1008 mb.)						GWALIOR (991 mb.)						JODHPUR (989 mb.)					
Surface	30	49	290·7	296	287	289·6	30	203	284·5	289	281	280·5	30	218	289·1	300	282	272·7
1000	30	123	..	..	..	..	30	124	..	..	..	..	30	126	..	..	..	..
900	30	1024	288·4	293	285	283·7	30	1022	289·3	294	283	271·8	30	1033	292·8	297	287	270·9
850	30	1507	285·5	291	281	278·7	30	1507	285·7	290	280	268·4	30	1521	289·0	293	284	268·5
800	30	2013	282·4	289	278	274·2	30	2015	282·7	287	279	264·1	30	2033	285·0	289	280	266·8
700	30	3109	276·7	283	270	259·9	30	3115	276·6	282	272	250·6	30	3136	278·4	283	273	253·5
600	30	4348	271·3	277	268	247·0	30	4353	270·7	274	266	245·6	28	4377	271·5	276	263	249·5
500	30	5779	263·5	273	259	..	30	5779	262·4	268	256	..	28	5809	262·9	268	256	..
400	30	7470	253·4	261	247	..	30	7461	252·0	258	245	..	28	7497	252·2	258	243	..
300	29	9555	240·3	250	235	..	29	9536	239·2	246	231	..	27	9612	239·4	244	235	..
250	27	10815	231·7	243	226	..	26	10797	231·8	237	225	..	27	10839	231·1	238	223	..
200	26	12286	221·3	233	215	..	18	12289	222·4	228	213	..	26	12323	221·8	230	216	..
175	22	13155	216·1	229	203	..	15	13131	215·3	221	206	..	24	13179	216·3	227	210	..
150	20	14116	210·6	225	203	..	13	14088	209·1	216	197	..	23	14149	210·4	220	205	..
125	14	15228	204·2	212	198	..	9	15186	203·1	211	193	..	20	15290	206·6	219	197	..
100	13	16570	200·7	205	191	..	7	16462	200·1	209	191	..	12	16595	201·8	216	195	..
80	8	17899	202·0	206	197	..	..	..	..	..	..	..	6	18048	205·2	216	197	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 0000 hr. G. M. T.

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Standard Pressure Surface mb.	MADRAS Surf. Pr. (1009 mb.)						NAGPUR (978 mb.)						NEW DELHI (990 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	15	296·9	299	294	295·5	29	311	287·1	293	284	283·3	30	210	284·6	289	281	279·9
1000	28	92	..	..	..	..	29	125	..	..	..	..	30	219	..	..	..	..
900	28	1008	292·1	294	289	288·2	29	1030	292·1	295	289	277·3	30	1028	290·3	296	283	270·5
850	28	1498	289·9	293	286	284·3	29	1518	289·1	292	287	275·2	30	1512	286·7	292	280	265·7
800	28	2014	287·5	291	282	280·0	29	2031	286·3	291	283	271·4	30	2020	283·3	288	277	263·0
700	28	3132	281·7	285	276	274·5	29	3146	281·7	285	276	261·4	30	3117	276·7	283	271	250·3
600	28	4392	274·5	277	270	269·4	29	4409	275·1	279	272	253·5	30	4351	269·3	277	261	239·0
500	27	5838	266·4	271	262	..	29	5856	266·1	270	264	..	30	5769	260·8	270	256	..
400	27	7549	256·5	261	252	..	29	7564	255·4	259	250	..	30	7440	250·4	261	245	..
300	24	9653	241·2	247	234	..	29	9658	240·6	246	237	..	30	9494	236·9	248	231	..
250	23	10916	230·9	238	225	..	29	10917	229·8	235	226	..	28	10730	229·4	240	224	..
200	20	12378	217·9	226	211	..	29	12382	217·7	224	211	..	27	12201	220·5	231	214	..
175	20	13226	211·6	221	205	..	29	13214	212·1	219	206	..	25	13052	215·3	227	208	..
150	19	14159	204·9	216	196	..	28	14164	205·3	213	199	..	24	14013	210·7	224	201	..
125	16	15227	199·8	213	191	..	27	15233	199·7	205	191	..	19	15125	206·9	216	196	..
100	9	16523	197·4	201	193	..	26	16550	196·8	202	188	..	14	16502	205·6	213	195	..
80	7	17918	200·6	206	193	..	23	17856	199·0	207	193	..	..	..	..	..	..	..

	PORT BLAIR 1001 (mb.)						TRIVANDRUM (1002 mb.)						VERAVAL (1011 mb.)					
Surface	30	79	298·2	301	297	296·5	29	64	296·5	297	295	295·4	30	8	293·8	302	288	284·8
1000	30	89	..	..	..	..	29	85	..	..	..	..	30	104	..	..	..	..
900	30	1011	292·9	299	288	289·0	29	1003	291·7	295	289	289·7	30	1026	294·7	301	288	276·2
850	30	1503	289·9	293	285	285·1	29	1492	288·8	292	286	286·7	30	1519	290·8	297	287	273·9
800	30	2015	287·3	291	282	281·4	29	2007	286·7	289	283	283·8	30	2034	287·4	293	282	272·1
700	30	3138	281·8	289	277	271·0	29	3124	281·0	285	274	277·2	30	3148	280·7	286	276	263·7
600	29	4398	274·3	279	268	267·3	29	4382	273·9	279	270	271·6	29	4404	273·5	280	269	258·4
500	29	5843	265·9	274	261	..	29	5827	266·1	270	261	..	29	5844	264·2	269	257	..
400	29	7551	255·3	265	246	..	29	7536	255·2	261	251	..	29	7538	252·5	257	244	..
300	27	9641	239·3	254	229	..	26	9624	239·6	244	233	..	26	9619	239·0	248	233	..
250	23	10879	227·6	238	212	..	25	10876	229·3	238	217	..	23	10864	228·7	244	220	..
200	20	12321	216·2	226	208	..	22	12332	216·7	226	204	..	20	12339	218·1	238	208	..
175	20	13172	209·7	220	202	..	21	13162	210·8	220	198	..	19	13182	213·1	235	205	..
150	17	14106	203·6	214	198	..	18	14133	205·8	217	198	..	18	14136	207·4	223	199	..
125	15	15212	198·9	210	192	..	16	15197	200·1	212	191	..	11	15276	204·6	230	196	..
100	10	16568	198·3	207	191	..	15	16525	196·8	207	189	..	9	16635	201·1	227	193	..
80	7	17973	200·3	206	193	..	10	17819	197·8	205	191	..	7	17960	200·9	221	195	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 0000 hr. G. M. T.

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (1007 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	48	297·7	300	295	290·6
1000	30	110	..	..	..	..
900	30	1026	291·7	295	289	283·9
850	30	1517	289·6	293	286	277·3
800	30	2033	287·9	293	285	274·7
700	30	3154	282·5	288	278	269·4
600	30	4419	275·4	280	272	263·7
500	30	5871	267·2	270	264	..
400	30	7585	256·1	263	249	..
300	26	9683	240·2	248	233	..
250	23	10928	229·0	239	222	..
200	20	12378	215·5	230	210	..
175	19	13206	209·1	225	203	..
150	19	14143	201.5	219	193	..
125	17	15195	196·9	225	186	..
100	15	16493	193·6	216	184	..
80	11	17807	198·6	217	186	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 1200 hr. G.M.T.

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Standard Pressure Surface mb.	ALLAHABAD Surf. Pr. (1002 mb.)						BOMBAY (1008 mb.)						CALCUTTA (1011 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew point
Surface	30	98	297·9	301	294	285·6	30	13	303·6	307	302	291·5	27	6	298·0	301	295	291·0
1000	30	114	..	..	..	..	30	87	..	..	..	..	27	105	..	..	..	..
900	30	1027	291·2	295	287	273·0	30	1018	297·1	300	295	281·1	27	1020	291·7	294	289	280·7
850	30	1513	288·0	293	283	264·8	30	1515	293·3	297	290	276·6	27	1508	288·9	292	285	276·0
800	30	2024	285·3	289	282	258·3	30	2035	289·5	293	286	270·8	27	2021	287·4	292	284	267·6
700	30	3131	280·5	284	277	241·7	30	3157	283·0	287	278	262·2	27	3139	282·9	287	279	259·3
600	30	4385	274·1	277	272	237.8	30	4422	276·5	281	271	251·8	27	4403	275·9	283	271	255·6
500	30	5825	265.0	268	259	..	30	5881	268·3	272	263	..	27	5858	267·5	273	262	..
400	30	7522	254·2	259	250	..	30	7605	258·7	262	255	..	27	7573	257·1	264	251	..
300	29	9614	241·3	246	235	..	27	9729	244·5	251	241	..	25	9686	243·3	250	238	..
250	29	10882	232·9	239	227	..	25	11010	235·4	241	230	..	22	10969	234·2	239	229	..
200	27	12375	222·9	230	217	..	24	12516	225·3	232	221	..	18	12476	222·6	228	215	..
175	24	13226	216·9	225	211	..	21	13392	219·9	227	216	..	13	13367	216·5	221	210	..
150	21	14198	211·5	220	204	..	19	14379	214·4	221	210	..	10	14334	210·1	215	203	..
125	18	15323	206·4	215	199	..	16	15516	208·6	216	203	..	6	15470	204·7	208	197	..
100	13	16676	204·1	215	200	..	9	16793	201·9	211	197	..	..	..	..	..	..	..
80	9	18016	204·1	209	199	..	6	18087	201·8	207	197	..	..	..	..	..	..	..

Standard Pressure Surface mb.	GAUHATI (1006 mb.)						GWALIOR (990 mb.)						JODHPUR (988 mb.)					
Surface	30	49	296·6	299	293	294·4	30	203	298·4	303	294	282·5	30	218	301·3	305	295	275·4
1000	30	102	..	..	..	..	30	111	..	..	..	..	30	109	..	..	..	..
900	30	1015	291·2	298	288	285·7	30	1032	293·6	299	287	271·1	30	1036	295·3	300	286	271·1
850	30	1501	287·4	290	284	281·7	30	1523	289·4	296	283	266·3	30	1529	291·1	296	285	268.3
800	30	2011	283·9	286	281	277·0	30	2034	286·1	292	282	263·7	30	2044	286.5	291	283	266·3
700	30	3113	277·7	281	275	262·8	30	3148	280·3	284	276	246·7	30	3153	279·1	283	274	256·6
600	30	4356	272·5	276	268	245·9	30	4403	273·2	277	267	238·8	30	4402	272·4	278	268	256·4
500	30	5792	264·8	270	259	..	30	5843	264·6	271	261	..	29	5836	263·7	269	260	..
400	30	7488	253·7	260	249	..	30	7543	255·1	268	250	..	28	7527	253·2	259	249	..
300	28	9573	240·8	245	235	..	25	9642	241·6	247	235	..	24	9605	239·9	245	234	..
250	25	10831	232·8	243	227	..	23	10904	232·4	237	226	..	21	10865	231·9	237	227	..
200	24	12314	221·6	227	215	..	21	12396	222·0	229	217	..	18	12360	221·8	228	217	..
175	18	13175	215·6	221	207	..	18	13253	216·1	223	211	..	17	13222	216·3	223	211	..
150	13	14131	208·4	213	199	..	14	14198	209·9	217	205	..	15	14179	209·9	219	205	..
125	5	15302	202·4	207	198	..	9	15298	203·9	208	199	..	9	15282	206·2	216	201	..
100	5	16610	199·6	205	196	..	7	16637	201·3	207	195	..	5	16578	200·4	203	195	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 1200 hr. G. M. T.

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Standard Pressure Surface mb.	MADRAS Surf. Pr. (1008 mb.)						NAGPUR (977 mb.)						NEW DELHI (989 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	15	298·3	301	296	295·6	30	311	300·0	302	298	283.8	30	210	297.5	301	291	282·3
1000	29	87	..	..	..	..	30	104	..	..	..	..	30	115	..	..	..	..
900	29	1004	292·0	295	287	289·3	30	1028	294·6	297	289	278·4	30	1031	292·4	297	287	272·7
850	29	1494	290·2	297	283	286·3	30	1519	290.0	293	283	276·4	30	1519	288·4	293	283	267·9
800	29	2009	287·0	290	280	282·1	30	2033	286·0	288	281	271·6	30	2029	285.2	289	279	264·0
700	29	3126	281·9	285	277	276·1	30	3147	281·7	286	279	260·4	30	3134	277·9	282	271	252·1
600	29	4386	274·5	279	271	269.8	30	4407	275.3	278	270	257·5	30	4374	270.6	275	265	247·6
500	29	5834	266·7	271	260	..	30	5856	266.0	271	263	..	30	5798	261·5	265	257	..
400	28	7549	256·9	262	254	..	30	7559	254.8	259	250	..	30	7469	250·0	256	245	..
300	25	9648	241·4	246	237	..	27	9651	240.2	247	235	..	30	9524	237·5	243	232	..
250	23	10911	231·6	240	226	..	26	10906	229.4	235	223	..	27	10773	229·6	238	224	..
200	22	12380	218·7	231	211	..	25	12373	277.4	224	207	..	26	12248	220.3	228	214	..
175	20	13214	211·6	224	207	..	23	13210	211.2	218	200	..	23	13110	214·9	223	209	..
150	19	14153	204·3	220	197	..	22	14150	204.0	212	192	..	20	14078	210·1	218	201	..
125	14	15187	196·6	212	191	..	20	15239	200.2	208	196	..	15	15174	205·5	216	191	..
100						..	18	16554	197.6	204	191	..	10	16549	204·4	213	196	..
80						..	13	17845	200.4	206	196	..	7	17868	204·9	209	201	..

	PORT BLAIR (1000 mb.)						TRIVANDRUM (1001 mb.)						VERAVAL (1010 mb.)					
Surface	30	79	300·1	301	298	297·1	30	64	299·5	302	296	296·2	29	8	302·0	304	300	295·6
1000	30	80	..	..	..	..	30	75	..	..	..	..	29	96	..	..	..	..
900	30	102	293·3	297	289	290·5	30	998	292·7	297	289	289·7	29	1023	295·9	299	292	280·1
850	30	1494	290·6	295	287	287·1	30	1490	289.5	295	281	286·7	29	1518	292·1	297	287	278·2
800	30	2008	288·0	292	284	284·5	30	2006	287·2	291	283	284·7	29	2036	288·2	291	285	275·8
700	30	3128	282.6	287	278	277·2	30	3127	282·2	292	277	278·7	29	3154	281·1	286	273	267·1
600	29	4395	275·0	278	269	275·5	30	4389	274·4	279	269	271·2	29	4411	273·8	282	267	254·8
500	29	5842	266.6	271	259	268.0	30	5836	266·4	271	257	..	29	5853	264·3	271	257	..
400	29	7554	255·0	262	242	..	30	7545	255·4	262	249	..	29	7549	253·5	261	247	..
300	27	9651	239·9	249	228	..	29	9638	239·7	249	231	..	26	9628	239·4	250	229	..
250	26	10904	229·3	243	214	..	27	10886	229·0	240	219	..	25	10891	230·7	241	219	..
200	25	12356	216·6	234	203	..	26	12354	217·7	233	207	..	19	12354	219·9	233	207	..
175	24	13183	209·7	225	198	..	25	13181	211·8	225	200	..	17	13220	213·2	230	201	..
150	23	14121	202·8	216	192	..	25	14138	205·1	221	193	..	16	14145	206·7	226	197	..
125	16	15227	197·5	209	191	..	20	15208	200·7	219	189	..	15	15247	202·3	218	194	..
100	11	16568	195·2	202	189	..	14	16534	197·1	205	190	..	12	16525	201·8	211	196	..
80							9	17873	197·3	205	192	..	10	17867	204·6	212	197	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 1200 hr. G. M. T.

November, 1960 (Kartika 10—Agrahayana 9, 1882 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (1006 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	48	300·4	302	298	292·4
1000	30	102	..	..	..	..
900	30	1023	292·1	295	287	284.4
850	30	1513	289·7	293	286	279·7
800	30	2029	287·1	292	282	275·9
700	30	3147	281·7	287	278	270·9
600	30	4408	274·3	282	270	261·7
500	30	5855	265·7	272	261	..
400	30	7562	254·8	259	245	..
300	24	9661	239·5	250	233	..
250	21	10909	228·4	239	220	..
200	19	12368	216.6	231	204	..
175	17	13192	209·6	226	198	..
150	16	14148	203·0	222	192	..
125	14	15215	197·9	213	188	..
100	10	16225	195·7	213	187	..
80						

NOTE : Number of observations refer to those of dynamic height.

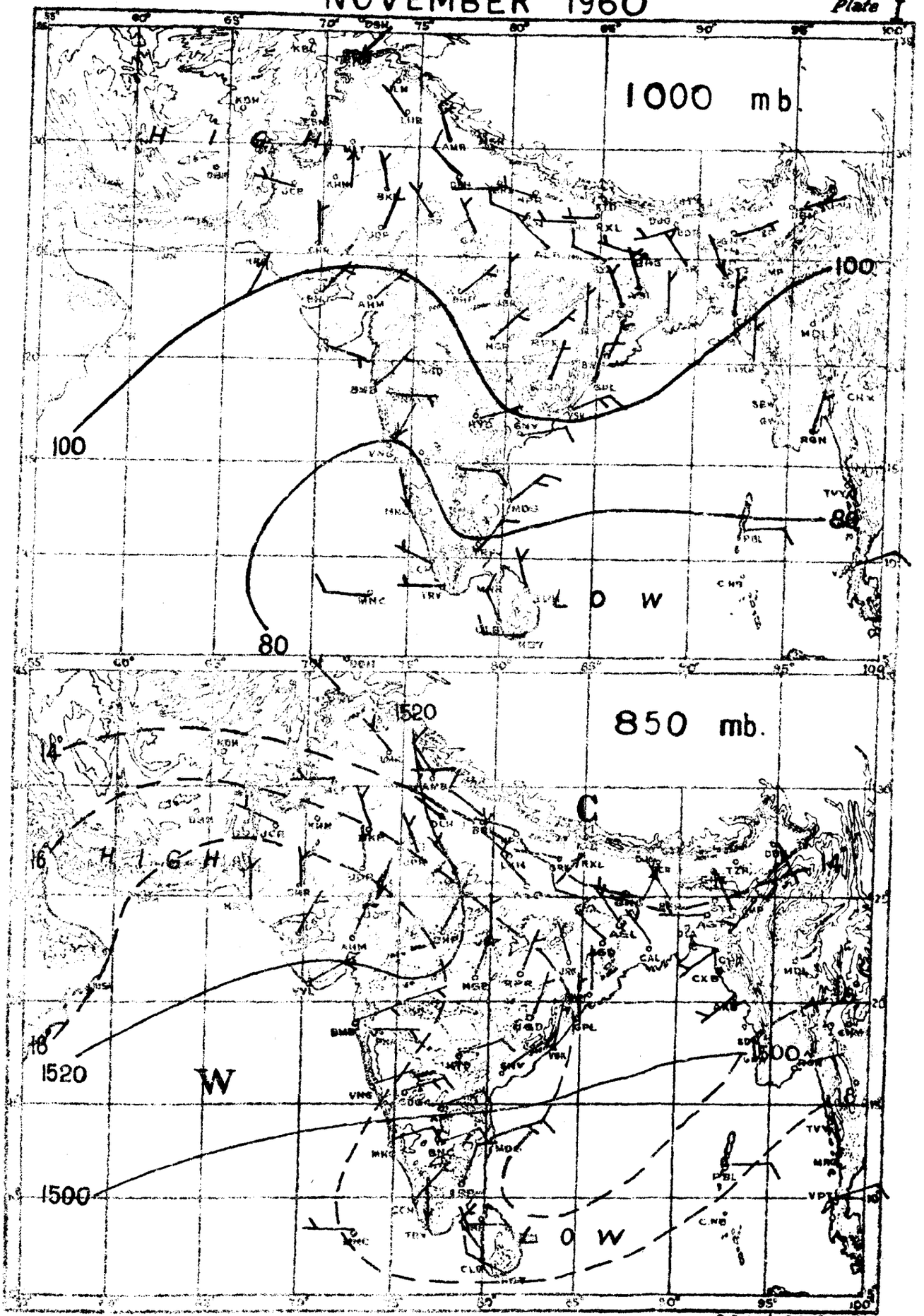
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273 °A.

Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S1—1 D.D.G. Obs P/64—5-8-65—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

NOVEMBER 1960



DDGC/2291(ii).11.6

RESULTANT WINDS —— 5 Knots, —— 10 Knots, —— 50 Knots.

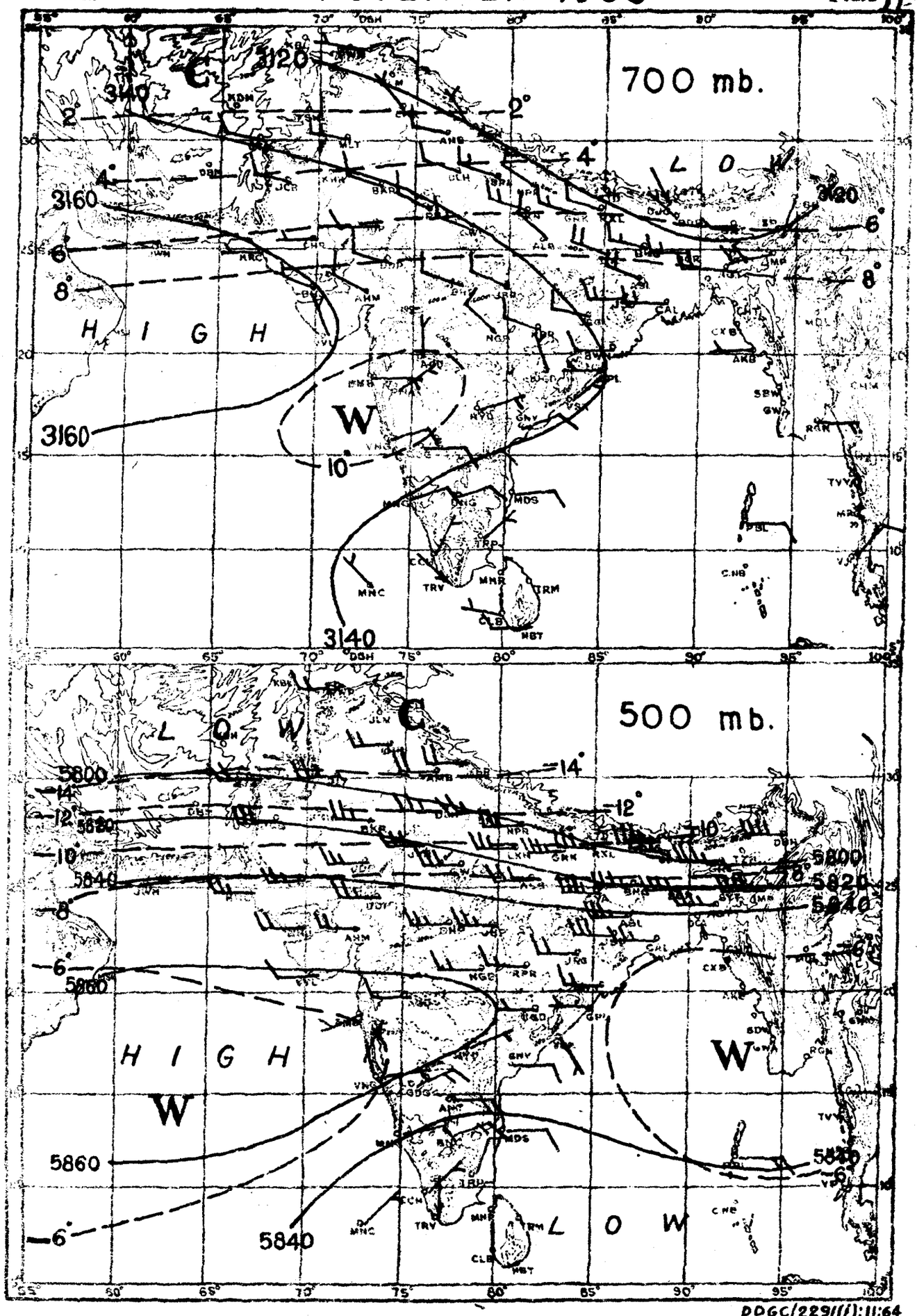
—— Isotherms in degrees centigrade —— Contours in geopotential metres.

G.P.E.M. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

NOVEMBER 1960

I. Met. D. Plate II



DDGC/2291(i):11:64

RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

---------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

G.P.Z.P. POONA, 1963

Registered No. B-3097

INDIA WEATHER REVIEW, 1960

Monthly Weather Report

December

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Chief features :

(i) Feeble activity of the western disturbance in north India and

(ii) A succession of relatively active easterly waves in the south Peninsula.

On the last day of November 1960, a depression in the Bay of Bengal was centred near Lat. 12½°N and Long 87½°E. It took a westnorthwesterly course and was centred near Lat. 13°N and Long. 85°E on the morning of 2nd December. It then weakened rapidly and entered inland across the south Circars coast as a low pressure wave by 4th morning. In association with this system, there was local rain in coastal Andhra Pradesh on 3rd and 4th December and in Telangana on 4th December. Scattered showers also occurred in Vidarbha on 5th, in Madhya Pradesh on 5th and 6th and in Orissa on 7th and 8th. Gopalpur reported 7 cm of rain on 7th and 6 cm on 8th.

An easterly wave entered the Andaman Sea on 5th December. Moving westwards, it crossed the south Peninsula on 9th and the Arabian Sea Islands on 10th. Under its influence, rainfall was fairly widespread in the Bay Islands on 7th, in the Madras State on 10th and 11th and in the Arabian Sea Islands on 11th. Pamban reported 7 cm of rain on 11th. Another easterly wave crossed the Andaman Sea on 9th, the south Peninsula on 13th and the Arabian Sea Islands on 14th. In association with it, showers occurred locally in the Bay Islands on 10th, in the Madras State on 13th and at a few places in Kerala and the Arabian Sea Islands on 14th. Mainly dry weather prevailed over the south Peninsula from 15th to 27th. In association with another easterly wave which moved across the Bay Islands 26th, a low pressure area developed over the extreme southwest Bay of Bengal on 28th. It moved in a northerly direction and weakened into a trough of low pressure which extended from west central Bay the adjoining southwest Bay of Bengal off the Circars-north Coromandal coast on 31st December. In association with this system, there was a spell of rain in the Bay Islands and along the east coast of India towards the close of the month. Rainfall was fairly widespread in coastal Andhra Pradesh on 31st December.

Three western disturbances moved across the northern parts of the country during the month. The first caused scattered rain or snow in Jammu and Kashmir on 13th and 14th. The second western disturbance was relatively more active and caused local rain or snow in the Punjab hills and Jammu and Kashmir on 16th and fairly widespread rain or snow in Jammu and Kashmir on 17th. Isolated very light rain also occurred in Assam from 20th to 22nd. The third western disturbance which was feeble caused scattered rain or snow in Jammu and Kashmir on 27th and 28th. An active western disturbance was approaching the northern parts of the country on the last day of the month. Already, in association with the approach of this disturbance, moist air had penetrated into northwest India and local or scattered rain occurred in Rajasthan from 29th to 31st. Rain or snow was fairly widespread in the Punjab hills on 30th, in Himachal Pradesh on 30th and 31st and in Jammu and Kashmir on 31st.

Night temperatures were below normal in northwest India during the first half of the month and over the Peninsula on 1st and 2nd December. They were above normal over the north Peninsula for the rest of the month, being appreciably to markedly above normal in Orissa, southeast Madhya Pradesh, Andhra Pradesh, and Marathwada from 4th to 10th December. Towards the close of this month, the temperatures were above normal practically over entire country, being appreciably to markedly so in northeast India, Uttar Pradesh and east Madhya Pradesh.

The rainfall for the month was in large excess in Orissa, Jammu and Kashmir and west Rajasthan, in moderate excess in coastal Andhra Pradesh and in slight excess in the Punjab(I). It was in slight defect in Assam, Telangana and Kerala, in moderate defect in east Gujarat State and Vidarbha and in large defect in the Bay Islands, west Uttar Pardesh, east Rajasthan, Madhya Pradesh, the Konkan, Deccan (including Marathwada), the Madras State and south Interior Mysore and the Arabian Sea Islands. There was no rain over the rest of the country outside Himachal Pradesh.

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1—7 D.D.G. Obs. Poona/65.

The mean maximum temperature was above normal in the Bay Islands, Assam, Gangetic West Bengal, Orissa, Bihar Plateau, west Uttar Pradesh, the Punjab(I), Madhya Pradesh, Gujarat State, Deccan (including Marathwada), Vidarbha,Telangana and the Arabian Sea Islands and normal over the rest of country outside Himachal Pradesh.

The mean minimum temperature was above normal in Assam, Sub-Himalayan West Bengal, Orissa, west Uttar Pradesh, Madhya Pradesh, Gujarat and Maharashtra States, Telangana and north Interior Mysore and was normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was below normal in Bihar Plateau, Jammu and Kashmir and above normal in the Arabian Sea Islands. It was normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount was above normal in Sub-Himalayan West Bengal, Orissa, Bihar State, Uttar Pradesh, east Rajasthan, Madhya Pradesh, Gujarat and Maharashtra States, Telangana, the Madras State and north Interior Mysore. It was normal over the rest of the country.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column. Similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

R. ANANTHAKRISHNAN
for *Director General of Observatories*

Poona 5,
The 31st March 1961.

Errata to M.V.R. for December 1960 (Agrahayana 10 - Pausa 10, 1882 Saka)

Page No.	Station	Hour	Column	For	Read
Table I					
625	West Bengal	-	3 (departure)	0	Blank
Table II					
626	Dhubri	-	12	+1.8	-1.8
626	Lumding	-	28	Blank	0
626	Cooch Behar	-	28	Blank	0
626	Sandheads	-	21 to 29	Blanks	All 0
626	Bankura	-	10	0	-
626	Bankura	-	21 to 29	All 0	All -
626	Balasore	-	10	0	1.0
626	Chandbali	-	6	14.8	14.3
627	Sabour	-	16	-0.4	0.1
627	Gonda	-	4	28.7	28.4
627	Allahabad (Bamrauli)	-	19	-1.8	-0.8
627	Agra (Aerodrome)	-	13	3.2	4.3
627	Foot Note	-	-	(k) Mean of 24 days	(k) Mean of 20 days.
628	Amritsar	-	8	0.1	-0.1
628	Srinagar	-	6	1.4	-1.4
628	Srinagar	-	19	0.4	+0.4
628	Srinagar (Aerodrome)	-	6	1.9	-1.9
628	Sonamarg	-	-	Sonamarg*	Sonamarg
628	Dras	-	-	Dras (R)	Dras
628	Guna	-	12	10.5	-10.5
629	Jagdalpur	-	22,24	1,0	0,2
629	Surat	-	2,4	36.6,36.0	33.5, 36.6
629	Porbander (Aerodrome)	-	-	Porbander* (Aerodrome)	Porbander (Aerodrome)
630	Amravati	-	16	+0.8	+0.2
630	Mahbubnagar	-	23	1	0
631	Tondi	-	1	Toddi	Tondi
631	Vedaraniyam	-	1	Vadaramiyam	Vedaraniyam
631	Madras (Nungambakkam)	-	4	80.8	30.8
631	Madras (Nungambakkam)	-	29	Blank	0
631	Karwar	-	29	Blank	0
631	Honavar	-	29	Blank	0
631	Bidar	-	5	67	6,7
631	Bangalore (Aerodrome)	-	22	Blank	0
631	Trivandrum	-	7	0.1	-0.1
632	Mussooree	-	9	Blank	1
632	Jhadal	-	4	30.	30.1
634	November	-	1	ovember	November
Table III					
635	Long Island	0830	4	103.5	1013.5
635	Port Blair	2330	8	23.9	22.9
635	Tangla	1730	4	1012.3	1012.8
635	Gauhati (Bhorjor)	0230	27	0	1
636	Gauhati (Bhorjor)	-	1	Gauhati (Kaikuchi Aerodrome)	Gauhati (Bhorjor)
636	Bagdogra	0230	4	1014.1	1014.5
637	Calcutta	1130	18	8	31
637	Barrackpore	-	1	Barrackpore (Aerodrome)	Barrackpore
637	Burdwan	1730	9	6.7	16.7
637	Asansol	2330	8	14.	14.3
637	Cuttack	1730	8	9.9	19.9
638	Motihari	0830	4	109.5	1009.5
638	Chapra	1730	10	15.0	15.6

Contd.2

Page No.	Station	Hour	Column	For	Read
639	Gaya	0830	12	+	+2
639	Sabour	1730	4	1013.4	1013.5
639	Azamgarh	-	1	Aamgarh	Azamgarh
639	Azamgarh	0830	10	12.4	12.5
639	Kanpur (Aerodrome)	0830	5	1002.6	1002.9
640	Lucknow	0830	3	,,	..
640	Lucknow	1730		,,	..
640	Agra (Aerodrome)	1130	8	13.	13.1
640	Dehra Dun	0830	28	9	29
640	Bareilly	0830	26	Blank	1
641	Hissar	0530	13	2.1	2.0
641	Ambala (P.B.O)	0530	10	8.5	8.4
641	Ambala (Aerodrome)	2330	9	Not clear	4.3
641	Halwara	0830	4	1019.1	1019.2
641	Bhatinda	0830	9	4.5	3.5
641	Bhatinda	1730	5	981.4	991.4
641	Amritsar	1130	21	Blank	1
641	Bilaspur	1730	15	0.0	0
642	Jammu (Aerodrome)	1130	13	2.2	3.2
642	Churu	1730	8	5.0	15.0
642	Jaisalmer	0830	4	017.8	1017.8
642	Jaisalmer	1730	24	1	2
642	Pilani	0830	7	Not clear	11.5
643	Erinpura (Jawai Dam)	0830	17	1	0
643	Shivpuri	0830	3	,,	..
643	Shivpuri	1730	3	,,	..
643	Gwalior	2330	17	2	0
644	Betul	0830	13	3.2	3.1
644	Raipur	1130	15	4.1	4.0
644	Jagdalpur P.B.O	-	1	Jagdalpur	Jagdalpur P.B.O
645	Mandvi	1730	18	Not clear	18
645	Jamnagar	1130	4	106.7	1016.7
645	Foot note	-	-	Not given	(a) Mean of 30 days
645	Foot note	-	-	Mean of or total for 24 days	(g) Mean or total for 24 days.
646	Harnai	-	1	Harni	Harnai
646	Harnai	1730	10	25.3	25.8
647	Nanded	-	1	Navded	Nanded
647	Nagpur	0830	17,20	Blanks	0,3
647	Foot note	-	-	Not given	(a)Mean of 30 days.
648	Gondia	0830	19	..	0
648	Gondia	1730	19	..	0
648	Rentachintala	0830	14	-0.3	+0.3
648	Hakimpet	1730	11	3	43
648	Foot note	-	-	(a)Mean of 23 days	(a)Mean of 30 days.
649	Anantapur	0530	18	6	0
649	Anantapur	2330	4	1014.5	1014.1
649	Tondi	1730	13	4.3	4.8
649	Vedaraniyam	-	1	Vadaraniyam	Vedaraniyam
649	Vedaraniyam	1730	5	1011.6	1010.6
649	Nagapattinam	0830	17	0	4
649	Tiruchirapalli	0830	14	0	+0.3
649	Tiruchirapalli	1130	19	3	8
649	Tiruchirapalli	2330	23	1	0
650	Vellore	0830	6	0.+5	+0.5
650	Honavar	1730	23	Not clear	2
651	Hassan	0830	11	66	76
651	Hassan	0830	15	3.3	3.4
651	Mysore	0830	28	Blank	0
651	Foot note	-	-	(a)Mean of 3 days	(a)Mean of 30 days.

Contd.3

Page No.	Station	Hour	Column	For	Read
652	Joshimath	0830	13	4.7	3.7
652	Mussoorie	-	1	Mussoole	Mussoorie
652	Simla	0830	6	+0.1	+1.0
652	Abu	1730	25	1	0
652	Pachmarhi	0830	25	0	1
652	Mercara	0830	12	6	-6
652	Kodaikanal	0830	4	3137.2	3167.2
653	Durgapur	0830	8	75.2	15.2
653	Maithon	-	1	Maithon*	Maithon
653	Mukhim	0830	9	5.1	-5.1
653	Pokhara	1130	1	1130	*1130
653	Jomosom	0830	9	7.2	-7.2
653	Katmandu	0830	10	13.8	16.8
653	Foot Note	-	-	Data not available	*Data not available.
655	Minicoy	0530	2	05.5	0530
655	Foot note	-	-	Blank	*Data not available.
656	Minicoy	0530	23	Blank	0
. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
Table III(A)					
658	Digboi	July	X	38.9	38.3
660	Halflong	July	R	199.9	119.9
661	Kailashar (C.W.O)	Dec.	R	1959	-
662	Berhampore	May	R	55.7	155.7
663	Sandhead	Dec.	R	1909	1906
663	Sandhead	Based on data from	Rainfall	1911	1906
667	Fatehpur	Oct.	N	195	1952
668	Agra (Aerodrome)	Apr.	X	42.2	42.9
668	Mainpuri	May	R	41.5	41.4
669	Agra (Aerodrome)	Aug.	N	1959	1960
669	Bareilly	Dec.	N	1913	1930
671	Bhatinda	Sep.	N	0.6	20.6
671	Ferozepur	Sep.	R	09.6	209.6
671	Amritsar	Oct.	R	90.5	190.5
671	Pathankot	Sep.	R	37.2	137.2
671	Pathankot (Aerodrome)	Dec.	R	Not clear	32.2
672	Skardu	-	-	Skardu	Skardu*
672	Gurez	-	-	Gurez	Gurez †
672	Gurez	Mar.	R	52.4	152.4
672	Jammu	Feb.	R	10.7	110.7
672	Jammu	Jun.	R	4.8	114.8
672	Jammu	Apr.	R	194	1914
672	Jammu	May	R	194	1914
672	Bikaner	Jul.	R	Not clear	134.1
672	Phalodi	Jul.	R	05.2	105.2
672	Jodhpur	Jul.	R	Not clear	194.1
672	Foot note	-	-	Not given	*Data not received.
672	Foot note	-	-	Not given	+ Data for 1960 not received.
673	Gurez	Oct.	R	Not clear	165.1
675	Tonk	Based on data from	Rainfall	190	1960
676	Umaria	Jun.	R	09.8	209.8
677	Sidhi	Oct.	N	Not clear	1960
677	Sidhi	Nov.	N	5.6	5.0
677	Jabalpur	Aug.	R	Not clear	320.5
677	Radhanpur	Oct.	N	1.38	13.8
678	Naliya	Jan.	N	3.8	3.3
678	Mandvi	Jul.	R	Not clear	168.0

Contd. 4

Page No.	Station	Month	Column	For	Read
678	Porbander (Aerodrome)	-	-	Porbander (Aerodrome)	Porbander (Adrodrome)
678	Foot note	..	-	Not given	+ Max and Min. Thermometer installed on 18.8.1960.
679	Bhuj (Aerodrome)	Nov.	R	1966	1960
679	Bhutakia Bhim	Based on data	Temp. Rainfall	Blank	1960
679	Kandla	Aug.	N	23.4	23.3
680	Bombay (Santacruz Aerodrome)	Jul.	X	39.8	34.8
680	Harnai	Feb.	X	39.2	34.2
680	Baramati	Apr.	R	22.2	22.6
681	Poona(Lohagaon Aerodrome)	Aug.	X	22.0	32.2
683	Amravati	Aug.	R	158.1	168.1
688	Alleppey	Apr.	R	Not clear	1950
689	Amini Divi	Aug.	X	960	1960
690	Kalimpong	Mar.	R	1949	1959
690	Nainital	Jul.	R	23.5	223.5
691	Joshimath	Based on data from	Temp.	1953	1959
695	Bagra Tawa	Nov.	R	1950	1956
695	Maithon	Based on data from	Temp.	Blank	1960
696	Mokhim	Feb.	R	32.2	32.1
696	Sallyana	Feb.	R	1957	..
696	Butwal	Jun.	R	16.0	126.0
696	Bagmati Catchment	-	Sub-division and station after Butwal	Blank	Bagmati Catchment
697	Kathmandu	Based on data from	Temp. Rainfall	—	1960

Page No.	Station	Time in I.S.T.	Ht. in Km.	Entry under column	Existing entry	Correct entry
701	Darjeeling	-	-	Approximate times of flights (IST)	0530	0830
701	Dehra Dun	-	-	-do-	0830	0530
702	Ahmedabad	0530	0.3	D	020	050
704	Bamrauli	2330	0.15	V	4.4	4.8
705	Bhagalpur	1730	9.0	D	351	251
706	Dehra Dun	0530	Surface	V	0.9	0.6
708	Gopalpur	2330	3.6	D	231	321
711	Nagpur	1730*	3.6	V	6.1	6.8
713	Raxual	1730	1.5	D	234	321
713	Tiruchirapalli	1730	Surface	D	061	067
714	Veraval	0530	7.2	D	156	256
RADIOSONDE						
719	Calcutta	00 GMT	700 mb.	Min.	287	278
720	Madras	00 GMT	900 mb.	Dew Point	286.9	286.0
720	New Delhi	00 GMT	500 mb.	Ht. gpm.	5768	5767
720	Port Blair	00 GMT	600 Surface	Mean	274.8	274.9
722	Gwalior	12 GMT	250 mb.	Min.	228	227
723	Nagpur	12 GMT	800 mb.	Dew Point	274.1	274.2

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	6·6	80	25·7	13·9	84	73	2·7	1·8
	−1·6		+1·9	+2·4	−5		+0·1	
2. West Bengal	0	0	26·5	13·6	70	57	1·4	1·6
	−4·3	0	+1·0	+1·1	−4		+0·1	
3. Orissa	20·6	375	28·3	15·7	71	56	3.0	3·7
	+15·1		+1·5	+1.4	−1		+1·5	
4. Bihar	0	0	25·8	10·3	67	56	1·6	1·5
	−4·7		+1·4	+0·3	−6		+0·4	
5. Uttar Pradesh	2·8	28	24·5	9·9	71	54	2·0	2·1
	−7·2		+0·9	+1·1	−2		+0·7	
6. Punjab (India) (Including Delhi)*	16·8	117	23·9	6·4	70	47	2·3	2·7
	+2·5		+1·2	−0·2	−1		+0·3	
7. Jammu and Kashmir.	33·6	176	5·7	−6·1	65	55	4·1	4·9
	+14·5		+0·3	−0·5	−9		−0·6	
8. Rajasthan	5·8	75	26·2	9·3	60	35	2·1	2·6
	−1·9		+0·9	+0·5	−1		+0·6	
Sub-Division								
1. Bay Islands	93·5	46	30·1	23·1	73	82	4·4	4·9
	−107·7		+1·4	+0·4	+2		+0·2	
2. Assam (Including Manipur, Tripura).	6·6	80	25·7	13·9	84	73	2·7	1·8
	−1·6		+1·9	+2·4	−5		+0·1	
3. Sub-Himalayan West Bengal	0	0	24·5	13·1	78	62	1·1	1·1
	−3·4		0	+1·5	−1		+0·3	
4. Gangetic West Bengal.	0	0	27·1	13.8	67	56	1·5	1·7
	−4·7		+1·3	+0·9	−5		+0·1	
5. Orissa	20·6	375	28·3	15·7	71	56	3·0	3·7
	+15·1		+1·5	+1.4	−1		+1·5	
6. Bihar Plateau	0	0	26·7	10·3	62	49	1·7	1·9
	−5·6		+2·3	+0·2	−7		+0·5	
7. Bihar Plains	0	0	24·8	10·3	73	64	1·4	1·1
	−3·9		+0·6	+0·5	−5		+0·4	
8. Uttar Pradesh, East.	0	0	24·8	8·9	74	54	1·8	1·8
	−7·7		+0·7	+0·4	−2		+0·7	
9. Uttar Pradesh, West.	6·0	47	24·3	9·7	68	55	2·2	2·4
	−6·7		+1·2	+2·0	−3		+0·7	
10. Punjab (India) (Including Delhi).	16·8	117	23·9	6·4	70	47	2·3	2·7
	+2·5		+1·2	−0·2	−1		+0·3	
11. Himachal Pradesh	44·5	..	22·5	2·9	87	50	3·1	3·9
	..		..	..	..		..	
12. Jammu and Kashmir.	33·6	176	5·7	−6·1	65	55	4·1	4·9
	+14·5		+0·3	−0·5	−9		−0·6	
13. Rajasthan (West)	9·6	300	26·1	8·6	53	36	1·9	2·5
	+6·4		+0·9	+0·5	−3		+0·1	
14. Rajasthan (East)	1·1	23	26·4	9·9	67	34	2·3	2·8
	−3·7		+0·9	+0·5	+1		+1·0	
15. Madhya Pradesh (West).	0·1	1	27·7	11·5	57	37	2·7	3·1
	−8·8		+1·9	+1·7	−2		+1·3	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
9. Madhya Pradesh	0·3	4	27·8	11·6	61	40	2·8	3·1
	−7·9		+2·1	+1·9	−3		+1·3	
10. Maharashtra	1·8	39	30·7	15·9	60	39	2·5	2·7
	−2·8		+1·3	+1·6	−1		+1·0	
11. Andhra Pradesh	19 9	110	29·3	17·9	74	57	2·9	3·1
	+1·7		+0·9	+0·6	+2		+0·3	
12. Madras State	40·3	35	29·4	21·3	80	65	4·8	5·0
	−75·4		+0·7	+0·6	−1		+0·8	
13. Mysore	0·1	1	29·5	14·6	69	45	3·3	3·7
	−8·5		+0·8	+0·4	+2		+0·8	
14. Kerala	32·4	75	30·8	22·7	51	66	3·3	4·2
	−10·6		+0.2	+0·1	0		+0·3	
Sub-Division—*Contd.*								
16. Madhya Pradesh (East).	0·6	9	27·8	11·8	66	45	2·8	3·2
	−6·4		+2·4	+2·1	−4		+1·2	
17. Gujarat	0.8	57	31·3	14·3	57	32	2·3	2·3
	−0·6		+1·3	+1·9	−4		+1·1	
18. Saurashtra and Kutch.	0	0	29·3	14·5	52	42	1·9	2·5
	−1·8		+0·7	+1·3	0		+0·6	
19. Konkan	0·1	3	31·1	20·7	67	54	2·7	2·2
	−2·9		+1·0	+1·5	0		+1·0	
20. Maharashtra (Including Marathwada)	2·3	40	30·9	14·5	57	31	2·5	3·1
	−3·4		+1·8	+1·5	−2		+1·0	
21. Vidarbha	6·8	62	30·2	14·1	63	36	3·0	2·9
	−4·1		+1·7	+1·7	+2		+1·4	
22. Coastal Andhra Pradesh.	42.0	142	28·7	19·2	77	71	3·1	3·5
	+12·4		+0·9	+0·4	+1		+0·3	
23. Telangana	5·5	83	29·4	15·9	71	40	2·8	2·5
	−1·1		+1·3	+1·3	+5		+0·7	
24. Rayalaseema	0	0	30·4	17·5	73	49	2·4	2·7
	−10·7		+0·3	+0·1	0		+0·1	
25. Madras State	40·3	35	29·4	21·3	80	65	4·8	5·0
	−75.4		+0.7	+0·6	−1		+0·8	
26. Coastal Mysore	0	0	32·9	20·7	64	59	3·1	3·1
	−7·9		+0·7	−0·7	−1		+0·4	
27. Interior Mysore (North)	0	0	29·8	16·7	65	38	2·9	3·4
	−6·4		+0·9	+1·1	+2		+1·2	
28. Interior Mysore. (South)	0·2	2	28·0	15·7	76	49	3·7	4·4
	−10·9		+0·6	+0·2	+3		+0·6	
29. Kerala	32·4	75	30·8	22·7	51	66	3·3	4·2
	−10·6		+0·2	+0·1	0		+0·3	
30. Arabian Sea Islands	17·0	28	31·5	23·3	78	72	3·3	4·0
	−44·7		+1·3	−0·1	+7		+0·1	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	29·1	...	30.6	1	23·6	...	19·4	25	7·0	74·6	...	58·0	7	3	...	13·1	9·8	...	0	8	0	0	1	0	0	0	0	0	0
Long Island	30·3	...	31·4	28	23.3	...	20·7	24,25	25·8	34·4	...	25·4	2	3	...	1.8	1·1	...	0	3	0	0	0	0	0	0	0	0	0
Port Blair	30·1	+1·4	31·1	6,28	23·1	+0·4	20·3	15	40·8	93·5	−107·7	25·6	30	7	−0·2	9.6	8.7	−5.9	0	11	0	0	2	2	0	0	0	0	0
Car nicobar	29.5	...	30·7	1	24.3	...	20·4	15	63.1	105·9	...	34·2	2	7	...	7·2	5·3	...	0	11	0	0	1	0	0	0	0	0	0
Nancowry	31·4	...	32·9	5	24·7	...	23·7	31	72·7	148.8	...	40.2	28	14	...	0·6	0·4	...	0	15	0	0	3	0	0	0	0	0	0
Kondul	28·3	...	29·4	1,2,28	24.6	...	22·8	25	68·9	219·6	...	48·0	18	15	...	...	..	...	0	23	0	0	1	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	24.7	...	28·6	1	14·4	...	9·4	21	2·2	10·4	...	4·4	10	2	...	6·9	12·2	...	0	4	0	0	1	0	0	0	0	0	0
Digboi	...	...	...	...	...	...	...	...	...	11·0	...	8·0	11	1	...	...	...	...	0	3	0	0	0	14	0	0	0	0	0
Dibrugarh	25.5	+2·2	28.8	2,3	13·4	+2·8	11·1	14,15	4·7	22·1	+6·1	13.4	10	2	+0.6	1·4	0·9	+0·1	0	2	0	0	1	12	0	0	0	0	0
Dibrugarh (Mohanbari Aerodrome).	25·0	...	28·1	2	10·9	...	9.1	4	7·8	21·8	...	13·8	10	1	...	3·5	1·4	...	0	3	0	0	1	18	0	0	0	0	0
North Lakhimpur	25·7	...	28.2	4	10.5	...	8.1	15	5·6	11·4	...	7·0	11	2	...	...	...	...	0	2	0	0	0	2	0	0	0	0	0
Sibsagar	26.0	+3.7	28.8	3,4	13·2	+2·7	11·3	26,27	1·5	21·0	+6·3	14·1	9	3	+1·5	1·5	0.8	−0.8	0	4	...	...	...	...	...	...	...	...	...
Jorhat	25·8	...	28.9	1	12·2	...	10·2	16	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	17	0	0	0	0	0
Golaghat	26.6	...	29.4	9	12.9	...	10.6	15	0	0·4	...	0·4	22	0	...	...	...	...	0	1	0	0	0	2	0	0	0	0	0
Gohpur	24.9	...	27·7	5 days	11·0	...	9·4	15,16	0	0	...	0	...	0	...	3·2	2·0	...	0	0	0	0	0	0	0	0	0	0	0
Tezpur	27.2	+3.2	28·9	4 days	14.2	+1·9	10·0	31	0	0	−6.3	0	...	0	...	3·6	3·3	+1·0	0	0	0	0	0	0	0	0	0	0	0
Majbat	...	...	...	...	...	...	...	...	0	2·8	...	2·8	22	1	...	4·4	2·7	...	0	1	0	0	0	2	0	0	0	0	0
Chaparmukh*.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tangla	27.3	...	29·5	5,7	13·0	...	10·9	15	0	0	...	0	...	0	...	0·8	0·2	...	0	0	0	0	0	0	0	0	0	0	0
Gauhati	26·1	+1·9	28·3	5	15·3	+3·8	12·9	14	3.0	3.0	−1·1	3·0	22	1	+0·5	0	0·6	−1·2	0	1	0	0	0	28	0	0	0	0	0
Gauhati (Bhorjor Aerodrome).	25·9	...	27·8	10	13.5	...	10·7	14	0	0	...	0	20	0	...	2·8	1·9	...	0	0	0	0	0	15	0	0	0	0	0
Rangiya	26·9	...	28.9	5,9	12·5	...	10.1	8	0	0	...	0	...	0	...	4·3	2·3	...	0	0	0	0	0	0	0	0	0	0	0
Goalpara	27·7	...	29·7	2	14.2	...	11.5	15	0	4·4	...	2.6	21	1	...	2·8	1·3	...	0	2	0	0	0	10	0	0	0	0	0
Dhubri	24·5	+1.1	26.6	3	15·7	+2·5	14·2	15	0	0	+1·8	0	...	0	−0·1	0.6	0·2	−5·4	0	0	...	...	...	...	...	...	...	...	...
Dhubri (Rupsi Aerodrome).	26·4	...	28.1	10	12·9	...	11·2	18	0	0	...	0	...	0	...	2·9	1·3	...	0	0	0	0	0	14	0	0	0	0	0
Tura	24·9	...	27.7	2	11·3	...	10·0	18	0	0	...	0	...	0	...	4·3	4·7	...	0	0	0	0	0	0	0	0	0	0	0
Agartala	26·9	...	30.0	2	12·4	...	9.6	20	0	0	...	0	...	0	...	0	2·2	..	0	0	0	0	0	7	0	0	0	0	0
Kailashar	27.5	...	31·5	2	12·4	...	9.9	21	0	0	...	0	...	0	...	1.8	1·7	...	0	0	0	0	0	9	0	0	0	0	0
Silchar	24·4	−2·2	28.4	3	14·5	+1·9	12.7	21	0	0	−10·7	0	...	0	−0·7	1·6	0·9	−0·5	0	0	0	0	0	0	0	0	0	0	0
Silchar (Kumbhigram Aerodrome)	27·2	...	31·2	2	14·3	...	11·9	1,9	0	0	...	0	...	0	...	4·4	6.7	...	0	0	0	0	0	0	0	0	0	0	0
Imphal	22·4	...	26·1	1	5·8	...	3·1	28	0	0	...	0	...	0	...	5·4	3·2	...	0	0	0	0	0	24	0	0	0	0	0
Haflong	22·8	...	25·2	2	13·0	...	11·8	21	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	2	0	0	0	0	0
Lumding	26·5	+3·2	28·8	8	11.3	+0·9	8·9	20	0	0	−3·6	0	...	0	−0·4	2·6	1·2	...	0	0	0	0	0	4	0	0	0		0
Sub Himalayan—West Bengal Cooch Behar	26·4	...	28.8	4	12·4	...	11·1	18,23	0	0	−4·1	0	...	0	−0·3	2·0	0·7	...	0	0	0	0	0	22	0	0	0		0
Jalpaiguri	23·4	−1·4	25·5	14	13·9	+2.1	12·1	23	0	0	−4·3	0	...	0	−0·4	3·6	2·5	+1·2	0	0	0	0	0	1	0	0	0	0	0
Bagdogra	26·2	...	28·3	8	10·8	...	9·5	23	0	0	...	0	...	0	...	6·3	5·7	...	0	0	0	0	0	5	0	0	0	0	0
Malda	25·7	+1·4	28·4	9	12·4	+1·0	9·4	23	0	0	−1·8	0	...	0	−0·2	5·9	4·6	+0·1	0	0	0	0	0	0	0	0	0	0	0
Gangetic West Bengal																													
Dum Dum	27·7	...	30·9	12	12·2	...	8·5	23	0	0	...	0	...	0	...	4·9	2·4	...	0	0	0	0	0	9	0	0	0	0	0
Calcutta	27·7	+1·4	30·6	12	14·1	+1·3	10·6	24	0	0	−4·6	0	...	0	−0·3	6·3	3·0	−0·1	0	0	0	0	0	7	0	0	0	0	0
Barrackpore (Arodrome)	26·5	...	29·4	12	12·3	...	8·3	23	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	4	0	0	0	0	0
Saugor Island	26.2	+1·3	27·9	30	17·5	+2·4	14·3	23	0	0	−5·3	0	...	0	−0·4	13·0	10·4	+1·5	0	0	0	0	0	5	0	0	0	0	0
Sandheads	29·2	...	34·2	6	22·8	...	21·1	22	0	0	−3·8	0	...	0	−0·3	...	...	...	0	0	...	...	...	...	...	...	...		...
Contai	27·5	...	30·3	12	14·9	...	11·8	24	0	0	...	0	...	0	...	4·3	3·1	...	0	0	0	0	0	0	0	0	0	0	0
Midnapore	27·3	+0·7	29·6	12	13·2	+0·1	9·8	21	0	0	−4·1	0	...	0	−0·3	4·7	2·7	+0·4	0	0	0	0	0	0	0	0	0	0	0
Purulia	26·0	...	28.9	11	13.0	...	9·9	23	0	0	...	0	...	0	...	4·3	3·1	...	0	0	0	0	0	0	0	0	0	0	0
Bankura	...	...	...	...	...	...	...	...	0	0	−2·8	0	...	0	−0·3	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Burdwan	28·7	−2·4	...	...	13·0	−0·3	10.0	25	0	0	−4·8	0	...	0	−0·3	3·4	2·3	+0·4	0	0	0	0	0	0	0	0	0	0	0
Krishnagar	27·9	+2·0	30·0	17	12·1	+0·4	8·4	23	0	0	−2·8	0	...	0	−0·2	1·3	(a) 1·1	−0·7	0	0	0	0	0	0	0	0	0	0	0
Asansol	26·8	+0·9	29·5	11	12·8	+0·9	9·8	23	0	0	−4·6	0	...	0	−0·4	8·8	6·1	+0·8	0	0	0	0	0	0	0	0	0	0	0
Suri	26·7	...	29·1	11	12·6	...	9·3	23	0	0	...	0	...	0	...	7·8	5·9	...	0	0	0	0	0	0	0	0	0	0	0
Berhampore	26·8	+1·7	29·7	10	13·0	+0·2	9.9	24	0	0	−4·1	0	...	0	−0·4	0·1	0	−1·4	0	0	0	0	0	11	0	0	0	0	0
Orissa																													
Baripada	28.2	...	30·7	12	13·0	...	9·4	24	0	0	...	0	...	0	...	3·3	1·6	...	0	0	0	0	0	0	0	0	0	0	0
Balasore	28·1	+1.4	30·5	11	14·8	+1·6	11·1	24	0	0	−4·1	0	...	0	−0·3	4·4	2·0	−0·6	0	0	0	0	0	0	0	0	0	0	0
Chandbali	28·1	+1·3	30·3	14	14·8	0	10·6	11	4·2	0	−0·8	0	...	0	−0·1	6·5	5·2	−0·1	0	0	0	0	0	1	0	0	0	0	0
Cuttack	30·0	+2.7	32·3	27	16·6	+1·8	12·7	1	3·2	3·8	−2·0	2·6	8	1	+0·6	4·2	2·9	+1·5	0	2	0	0	1	0	0	0	0	0	0

(a) Total or Mean of 30 days.

*Temporarily closed.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm or more)		Wind speed, km. per hour			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Orissa—*contd.*																													
Bhubaneswar	28·6	...	30·3	27	17·0	...	13·6	1	9.0	7·0	...	3·6	8	2	...	8·3	6·8	...	0	2	0	0	1	0	0	0	0	0	0
Puri	28·2	+1·3	30·0	25, 29	18·7	+1·8	14·6	1	6·0	1·6	−4·5	1·0	31	0	−0·4	11·2	10·1	+0·8	0	2	0	0	0	0	0	0	0	0	0
Gopalpur	27·8	+0·9	30.4	25	17·8	+1·7	12·9	1	13·0	138·8	+125·3	69.7	7	3	+2·3	11·0	9·1	−0·7	0	5	0	0	3	1	0	0	0	0	0
Koraput	23·6	...	27·8	27, 29	(k) 12·6	...	...	...	3·8	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Titilagarh	28·9	...	32·3	6	14·9	...	9·7	1	0	4·0	...	4.0	7	1	...	2·0	1·4	...	0	1	0	0	0	0	0	0	0	0	0
Bolangir	28.8	...	31·5	8	15·2	...	10·1	1	0	18·0	...	16·4	7	1	...	...	...	...	0	2	0	0	0	0	0	0	0	0	0
Phulbani	26·8	...	23·7	27	10·3	...	4·9	1	1·0	0	...	0	...	0	...	2·4	1·6	...	0	0	0	0	0	0	0	0	0	0	0
Angul	27·8	+1·1	29·8	6	15·0	+2·2	11·7	1,21	1·2	0	−3·6	0	...	0	−0·4	5.6	5·3	+0·5	0	0	0	0	0	0	0	0	0	0	0
Keonjhar	26·2	...	28.8	6	13·7	...	10·5	20	36·2	36·2	...	36·2	7	1	...	4·1	2·7	...	0	1	0	0	0	1	0	0	0	0	0
Sambalpur	28·4	+1·6	31·0	26	12·9	+0·8	8·9	21	0	0	−4·3	0	...	0	−0·3	3·4	2·3	−0·8	0	0	0	0	0	0	0	0	0	0	0
Jharsuguda	28·3	...	30·9	6	12·6	...	8·9	22	0	0	...	0	...	0	...	6·4	5·1	...	0	0	0	0	0	0	0	0	0	0	0
Bihar Plateau																													
Jamshedpur	27·8	+1·2	30·6	11	11·7	+0·9	8·1	23	0	0	−5·8	0	...	0	−0·4	4.7	3·0	+0·6	0	0	0	0	0	0	0	0	0	0	0
Jamshedpur (P.B.O.)	26·7	...	30·1	31	11·3	...	7·3	23	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Chaibasa	27·7	+2·0	31·1	31	12·0	+1·1	8·4	21	0	0	−4.6	0	...	0	−0·4	2·0	1·5	−0·3	0	0	0	0	0	0	0	0	0	0	0
Ranchi	27·0	+4·3	30·1	13	9·4	−0·9	7·1	23	0	0	−6·9	0	...	0	−0·6	(c) 0·3	(d) 0·3	−4·4	0	0	0	0	0	0	0	0	0	0	0
Ranchi (C.W.O.)	24.5	...	27·9	31	10·7	...	7·2	20	0	0	...	0	...	0	...	(h) 11·3	8·0	...	0	0	0	0	0	0	0	0	0	0	0
Daltonganj	26·5	+1·8	31·4	11	8·7	+0·6	4.8	22	0	0	−6·3	0	...	0	−0·5	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	24·9	+2·5	27·9	11	9·9	−0·1	5·6	21	0	0	−6·9	0	...	0	−0·5	10·2	7·2	0	0	0	0	0	0	0	0	0	0	0	0
Dhanbad	27·0	...	28.9	5 days	13·2	...	10·2	22	0	0	—	0	...	0	...	5.2	3·4	...	0	0	0	0	0	0	0	0	0	0	0
Dumka	26·4	+1·7	28·9	9,10,29	10·4	−0·5	8.2	14	0	0	−3·3	0	...	0	−0·3	3·4	2·6	+0·8	0	0	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Purnea	26·3	+1·7	29·0	9	9·5	−0·2	7·2	14,23, 25	0	0	−3·1	0	...	0	−0·3	2·5	1·0	−0·8	0	0	0	0	0	0	0	0	0	0	0
Forbesganj	27·3	...	30·8	2	11·1	...	9·6	18	0	0	...	0	...	0	...	4·7	2·5	...	0	0	0	0	0	9	0	0	0	0	0
Darbhanga	26·1	+1·4	36·6	25	12·1	+1·1	9·4	23, 26	0	0	−3·1	0	...	0	−0·3	1·7	1·3	−0·5	0	0	0	0	0	0	0	0	0	0	0
Motihari	21·5	−2·5	25·2	8	10·6	+1·7	8·5	17, 21	0	0	−3·8	0	...	0	−0·4	0·5	0·3	−1·8	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur	...	...	...	...	...	...	...	...	...	0	−3·1	0	...	0	−0·3	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Chapra	25·6	...	27·4	29	11·1	...	8·1	22	0	0	−3·6	0	...	0	−0·4	0·6	0·5	...	0	0	0	0	0	0	0	0	0	0	0
Arrah	...	...	...	...	...	...	...	...	...	0	−4·3	0	...	0	−0·5	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Patna	25·0	+1·3	27·6	31	11·5	+0·2	8·8	21,22	0	0	−5·6	0	...	0	−0·5	6·1	5·3	+2·6	0	0	0	0	0	0	0	0	0	0	0
Patna (Aerodrome)	24·8	...	27·1	29	9·7	...	7·4	23	0	0	...	0	...	0	...	7·0	3·0	...	0	0	0	0	0	0	0	0	0	0	0
Dehri	25·8	...	28·9	11	11·7	...	8·7	2, 21	0	0	−4·6	0	...	0	−0·5	6·5	4·4	...	0	0	0	0	0	0	0	0	0	0	0
Gaya	25·5	+1·8	28·9	30	9·2	0	6·7	23	0	0	−4·6	0	...	0	−0·4	7.5	5·4	+0.4	0	0	0	0	0	0	0	0	0	0	0
Jamui	26·2	...	28·8	29	9·7	...	7·3	23, 24	0	0	...	0	...	0	...	6·9	3·5	...	0	0	0	0	0	0	0	0	0	0	0
Bhagalpur	25·0	...	27·9	10	11·4	...	9·1	24	0	0	...	0	...	0	...	6·7	4·8	...	0	0	0	0	0	0	0	0	0	0	0
Sabour	24.4	+0·1	27·2	9	9·0	+0·2	6·1	23	0	0	−3·1	0	...	0	−0·4	5.0	2.8	−1·5	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (East)																													
Gonda	24·5	+0·2	28·7	29	9·4	+0·7	6·1	23	0	0	−8·1	0	...	0	−1·1	2·2	2·0	−1·4	0	0	0	0	0	1	0	0	0	0	0
Nautanwa	23·0	...	...	...	9·0	...	...	...	0	0	...	0	...	0	...	2·6	1·1	...	0	0	0	0	0	2	0	0	0	0	0
Gorakhpur	25·8	+2·2	28·9	29	11·6	+1·7	8·9	23	0	0	−4·8	0	...	0	−0·4	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Azamgarh	26·2	...	29·1	29	6·6	...	4·3	22	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Ballia	25·9	...	28·8	29	10.0	...	8·2	23	0	0	...	0	...	...	...	3·0	1·7	...	0	0	0	0	0	0	0	0	0	0	0
Varanasi (Banaras)	24·6	+0·6	27·6	29	9·8	+0·8	7·8	9	0	0	−6·9	0	...	0	−0·5	7·5	6·3	+3·4	0	0	0	0	0	0	0	0	0	0	0
Varanasi (Babatpur Aerodrome)	25·1	...	28·1	31	8·8	...	6·2	23	0	0	...	0	...	0	...	9·0	6·4	...	0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamrauli)	23·0	−1·3	29·1	28	...	...	...	...	0	0	−8·6	0	...	0	−0·7	4·9	2·6	−1·8	0	0	0	0	0	0	0	0	0	0	0
Sultanpur	25·5	...	28·9	29	9·8	...	5·4	22	0	0	...	0	...	0	...	3.1	2·3	...	0	0	0	0	0	0	0	0	0	0	0
Faizabad	25·1	...	28·4	29	7·5	...	4·7	22	0	0	...	0	...	0	...	4·4	2·5	...	0	0	0	0	0	3	0	0	0	0	0
Banda	26·5	...	30·5	31	9·4	...	6·2	22	0	0	...	0	...	0	...	2·5	1·2	...	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	25·3	+0·8	29·8	31	9·3	+0·7	6·0	21	0	0	−8·6	0	...	0	−1·1	4·8	2·2	−0·4	0	0	0	0	0	0	0	0	0	0	0
Kanpur	25·3	+2·0	30·1	31	8·4	+0·3	5·5	22	0	0	−7·1	0	...	0	−0·8	8·7	6.0	+2·6	0	0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	25·0	...	29·1	30	8·2	...	4·7	21	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Lucknow	24·5	+0·1	28·2	31	9·7	+1·2	7·0	21	0	0	−8·1	0	...	0	−0·7	3·2	1·7	+0·1	0	0	0	0	0	0	0	0	0	0	0
Lucknow (Amausi Aerodrome).	24·8	+0·4	28·4	31	7·5	+0·6	4·2	21, 23	0	0	−8·1	0	...	0	−0·7	7.0	4·9	...	0	0	0	0	0	2	0	0	0	0	0
Hardoi	24·6	...	29·4	30	8·8	...	6.0	21	0	0	...	0	...	0	...	5·7	3·2	...	0	0	0	0	0	0	0	0	0	0	0
Lakhimpur Kheri	24·8	...	28·8	29	9.3	...	6·2	21	0	0	...	0	...	0	...	3·4	2·1	...	0	0	0	0	0	0	0	0	0	0	0
Bahraich	25·2	+1·3	29·0	29	9.0	0	6·1	23	0	0	−8·6	0	...	0	−0·9	4·9	3·6	+1·7	0	0	0	0	0	1	0	0	0	0	0
Uttar Pradesh (West)																													
Orai	22·5	..	28·3	31	9·6	..	6·9	7	0	0	..	0	...	0	..	5·3	4·4	...	0	0	0	0	0	0	0	0	0	0	0
Jhansi	26·2	+0·6	28·0	24	13·4	+4·3	11·4	7, 14	0	0	−7·4	0	...	0	−0·8	3·2	2·9	+0.2	0	0	0	0	0	0	0	0	0	0	0
Agra	24·5	+0·4	28.0	17, 30	7·8	−0·1	5·0	22	0	6·0	−1·6	6·0	31	1	+0·2	3·3	2·3	−1·4	0	1	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	24·9	...	28·9	30	7·2	...	4·3	22	0·7	4·3	...	3·2	31	1	...	...	...	...	0	1	0	0	1	0	0	0	0	0	0
Mainpuri	25·5	+1·4	30.8	30	8·8	+0·9	5·1	2	0	0	−9·4	0	...	0	−0·8	5·0	2·6	+0·8	0	0	0	0	0	0	0	0	0	0	0

(h) Mean of 28 days only. (b) Total or Mean of 29 days. (c) Mean of 28 days. (d) Mean of 27 days. (k) Mean of 24 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm).	Precipitation (0·3 mm. or more)	Snow or Sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—*contd.*																														
Aligarh	24.1	+0.8	27.5	30	7.8	-0·6	5.2	12	2·6	7·3	−3.6	7.3	31	1	−0·2	6·1	5·6	+0.8	0	1	0	0	1	0	0	0	0	0	0
Bareilly	24·5	+1·7	30.0	30	19·0	+10.9	5.9	22	0	1·0	−9·4	1.0	31	0	−1.0	5·2	2·7	+0·8	0	1	0	0	1	3	0	0	0	0	0
Meerut	23·8	+1.1	26.4	28	7·0	0	4.7	3,26	...	4·0	−8.2	4·0	31	1	−0.2	...	..	...	0	1	0	0	0	0	0	0	0	0	0
Najibabad	24.0	...	29.7	30	11.1	...	6·0	21	0	8·4	...	8·4	31	1	...	4·7	2·8	...	0	1	0	0	1	1	0	0	0	0	0
Roorkee	22.9	+1.1	26.1	30	6·8	+0.5	3.0	22	1·3	11·7	−5.6	11·7	31	1	−0.3	5·1	3·8	+1·7	0	1	0	0	2	0	0	0	0	0	0
Dehra Dun	22.6	+2.2	27.2	30	7·3	0	3.5	18	2·1	17.7	−8.2	17.7	31	1	−0.7	3.2	2.9	+0.5	0	1	0	0	0	0	0	0	0	0	0
Punjab (India), (Including Delhi)																														
New Delhi	23·7	+0.6	27.4	17	8·5	+1·7	5.4	12	0	0.4	−10.5	0·4	31	0	−0.9	11·0	8.7	+0.3	0	1	0	0	0	2	0	0	0	0	0
New Delhi (Palam Aerodrome)	23.7	...	27.5	17	5·7	...	2.3	20	0	0	...	..	0	..	0	...	...	...	0	0	0	0	0	1	0	0	0	0	0
Hissar	24·3	+0.9	33·6	17	5·6	−0.6	2·2	8	0	10.8	+0·9	10.8	13	1	0	5.6	5.4	+0.6	0	1	0	0	0	0	0	0	0	0	0
Karnal	23.7	...	26.6	31	10.5	...	7·4	22	..	11.0	...	11.0	30	1	...	...	...	...	0	1	0	0	0	0	0	0	0	0	0
Patiala	23.9	...	25.9	17	6.1	...	2.8	12	0	21.0	+8.1	21.0	30	1	−0.2	6.6	7·0	...	0	1	0	0	0	0	0	0	0	0	0
Ambala	24.1	+1·7	26.7	29	7.1	+0·5	3·2	22	0	26.8	+7.5	26.8	30	1	−0.5	6.9	4 9	+1.5	0	1	0	0	1	0	0	0	0	0	0
Ambala (Aerodrome)	23.3	...	27.4	30	4.5	...	0.9	20	6.0	33·4	...	27.1	30	2	...	...	...	...	0	2	0	0	2	0	0	0	0	0	0
Chandigarh	23.9	...	27·8	30	6·3	...	2·4	20	4·2	41.3	...	32.0	30	2	...	...	...	...	0	2	0	0	0	0	0	0	0	0	0
Ludhiana	23·3	+1.7	25·7	1	4.5	−2·3	2.1	12,20	0	25.0	+6.7	25.0	30	1	−0.4	4·8	2·5	+0.7	0	1	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	22·7	...	25.0	29	3·0	...	0·3	7	2.5	29.1	...	29.1	30	1	...	...	...	...	0	1	0	0	2	0	0	0	0	0	0
Bhatinda	23·0	...	25.4	3	3·9	...	0·2	1	2.2	21·2	...	19·2	30	1	...	6.2	4·2	...	0	2	0	0	0	0	0	0	0	0	0
Ferozepur	22·5	...	25·4	1	4·4	...	1·5	24	0	13·8	...	13·8	30	1	...	4·0	1·8	...	0	1	0	0	0	0	0	0	0	0	0
Amritsar	22.5	...	24·5	3	2.2	...	0·1	20	1.2	21.2	...	21.2	30	1	...	7·1	4.9	...	0	1	0	0	0	1	0	0	0	0	0
Pathankot (Aerodrome)	22.0	...	24·0	28	5.8	...	3.5	21	1·6	33.8	...	32.2	30	1	...	6.2	4.8	...	1	2	0	0	2	0	0	0	0	0	0
Adampur Aerodrome (R)																														
Himachal Pradesh																														
Bilaspur	23.2	...	25.9	29	2 9	...	0	20	13·4	58·9	...	40.2	31	2	...	..	..	...	0	2	0	0	1	0	0	0	0	0	0
Mandi	21.7	...	24·5	29	2·9	...	0·2	20,21	19.6	30.2	...	26.0	31	2	...	1·3	1·0	...	1	2	0	0	0	0	0	0	0	0	0
Jammu and Kashmir																														
Srinagar	8.5	−0.5	14.2	15	1.4	−1.0	−5.7	11	18.5	58.8	+25·3	19.1	30	4	+0.6	4·0	3.6	0·4	0	4	2	0	2	1	0	16	0	0	0
Srinagar (Aerodrome)	8.1	...	12.9	15	1.9	..	−5.8	11	12.4	50.2	...	29.7	30	4	...	...	...	...	0	4	4	0	0	1	0	4	0	0	0
Gulmarg	closed during winter months																													
Sonamarg*	...	...	...	...	...	...	...	...	...	..	..	..	..	..	...	...	...	...	..	...	...	...	...	...	...	...	..	...	...
Dras (R)	...	...	...	...	...	...	...	...	...	..	..	..	...	..	..	...	...	...	...	...	...	...	..	...	...	...	..	...	...
Kargil (R)																														
Leh	2·8	+1·0	7.0	7	−10·7	0	−14·4	21	1·2	8.4	+3.6	8.4	31	1	+0.4	4.6	5.1	+2.8	0	1	4	0	0	0	0	0	0	0	0
Skardu (R)																														
Gilgit (R)																														
Misgar (R)																														
Jammu (Aerodome)	21.5	...	23.9	4	7·1	...	3.6	18	2.0	37.6	...	31.0	30	2	...	...	...	...	0	3	0	0	2	0	0	0	0	0	0
Rajasthan (West)																														
Sri Ganganagar	23·8	+0.7	26.0	4	4.6	+0.2	1.6	10	1.2	19.2	+16·1	17.8	30	1	0	3.7	2.1	−3.7	0	2	0	0	2	0	0	0	0	0	0
Churu	24·4	...	27·6	24	5·2	..	−0·8	10	0	11·0	...	8 2	30	2	...	6·4	4·6	...	0	2	0	1	1	0	0	0	0	0	0
Bikaner	25·4	+0·7	28·6	13	4·9	−0.7	−0 9	10	0	16·4	+11.3	8·5	30	2	+1.5	4·4	2·9	−1·1	0	2	0	1	2	0	0	0	0	0	0
Jaisalmer	25·7	...	27·9	7	7·6	..	3·1	11	0	0.4	..	0·4	29	0	...	7·9	6·8	...	0	1	0	0	0	0	0	0	0	0	0
Phalodi	25·3	...	28·6	23	8·3	...	3·8	10	1·4	7·7	+5.2	5·1	29	2	+1.8	9·5	7.0	...	0	2	0	0	1	0	0	0	0	0	0
Nagaur	24·3	...	26·9	6	8·3	...	3·2	10	0	15·4	..	14·0	30	1	...	6·4	5·3	...	0	2	0	1	1	0	0	0	0	0	0
Jodhpur	27·6	+1.5	31·0	23	11·9	+1.6	8·1	31	0	4·3	+1.5	3.5	30	1	+0.7	7·1	7·4	−2·4	0	2	0	1	2	0	0	0	0	0	0
Barmer	27·5	+0.8	30·8	23	12·9	+1.0	9·2	31	0·3	0·4	−2.1	0·3	30	0	−0·3	7·3	6·5	−0.1	1	1	0	1	1	0	0	0	0	0	0
Rajasthan (East)																														
Pilani	24·6	...	26·9	24	5·2	...	1·2	10	0	8·6	...	8.6	30	1	...	7·6	5·9	...	0	1	0	0	0	0	0	0	0	0	0
Alwar	24·7	...	26·8	17	9·9	...	7·7	3,22	0	0	...	0	..	0	...	3·7	2·1	...	0	0	0	0	0	0	0	0	0	0	0
Sikar	25.9	...	27·8	24	6·1	...	−0·1	3	0	11·2	...	11·2	30	1	...	7·6	5·0	...	0	1	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer Aerordome).	25·5	..	28·4	24	9·9	..	4·9	20	0·4	8·0	..	6·4	30	1	...	...	...	...	0	2	0	0	3	0	0	0	0	0	0
Dholpur	25·1	...	27.6	30	7·6	...	3·6	22	1·0	8·6	...	8·6	31	1	...	3.2	2.3	...	0	1	0	0	1	2	0	0	0	0	0
Tonk	26.7	...	30·5	30	8·4	...	3 4	4	0	2.8	...	2.8	30	1	...	5.4	4·0	...	0	1	0	0	2	0	0	0	0	0	0
Ajmer	25·9	+1·8	28·6	23	8·4	+0·3	3.9	3	0	2.6	−4.0	2·0	30	0	−0.4	5·3	3·8	+1·9	0	2	0	1	3	0	0	0	0	0	0
Kotah	24·8	−1·4	28·9	24	12·0	+0·8	8·5	1,14	0	0	−5·3	0	..	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Chambal	28·0	...	31·2	24	10·2	...	5·3	1	0	0	...	0	..	0	...	5·4	3·4	...	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	27·9	+2·2	32·2	30	11·0	+1·7	6 3	3	0	0	−4·8	0	..	0	−0·3	4·0	2·5	+0·1	0	0	0	0	0	0	0	0	0	0	0
Udaipur	26·9	+1·2	29·4	6,23	8·4	−0·8	3·8	1	0	2.0	−0·8	2·0	29	0	−0·3	3·1	1·3	...	0	1	0	0	1	0	0	0	0	0	0
Erinpura (Jawai Dam).	28·7	...	32·0	23	10·1	...	5·4	2	0	4.6	...	4·6	30	1	...	3·2	2·7	...	0	1	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																														
Gwalior	25.3	+0.7	28.5	24	7.5	+0.4	3·4	4	5·6	0.6	−5.5	0.6	31	0	−0.7	5.0	3.0	...	0	1	0	0	1	0	0	0	0	0	0
Sheopur Kalan	27.5	..	31.8	30	8.3	...	4.6	3	0	0.4	...	0.4	31	0	...	5.2	4.7	...	0	1	0	0	0	0	0	0	0	0	0
Shivpuri	26.3	..	31.0	13	7.9	..	3.0	3,4	0	2.2	..	2.2	31	0	...	...	...	...	0	1	0	0	0	0	0	0	0	0	0
Guna	27.4	+1.9	30.5	24,28,30	9.2	+1.7	3.7	3	0.2	0.2	10.5	0.2	31	0	−1.2	7.5	4.7	...	1	0	0	0	0	0	0	0	0	0	0

(R) Registered not received

*Temporarily closed

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm)	Precipitation 0.3 mm. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20b)	21	22	23	24	25	26	27	28	29
Madhya Pradesh (West) *(contd.)*																													
Rajgarh	29·0	...	32.4	9,28	10·7	...	5·1	1	0	1·2	...	1·2	31	0	...	4·7	3·4	...	0	1	0	0	0	0	0	0	0	0	0
Neemuch	27·6	+1·8	30·0	23	11·8	+2.1	6·8	3	0	0	−4·6	0	...	0	−0·5	5·8	4·7	−0·9	0	0	0	0	0	1	0	0	0	0	0
Ratlam	29·7	...	32·8	29	13·0	...	9·6	2	0	0	...	0	...	0	...	4·1	3·5	...	0	0	0	0	0	0	0	0	0	0	0
Alirajpur	30·3	...	33·4	9	12·4	...	6·6	3	0	0	...	0	...	0	...	5·1	2·5	...	0	0	0	0	0	0	0	0	0	0	0
Indore	28·9	+2·4	31 0	23,24,26	12·1	+2·3	5·2	2	0·5	0·5	−6·4	0·5	31	0	−0·6	9·8	6·5	...	0	1	0	0	0	0	0	0	0	0	0
Ujjain	29·4	...	31·6	23	10·3	...	5·0	3	..	5·3	...	5·3	31	1	...	...	5·0	...	0	1	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	27·9	+2·2	31·0	27	12·6	+2·8	7·1	2	0	0	−5·1	0	...	0	−0·5	(o) 4·7	(n) 3·3	−2·5	0	0	0	0	1	0	0	0	0	0	0
Khandwa	31·5	+2 6	34 5	24	13·6	+2·8	5 7	3	0	0	−8·1	0	...	0	−0·5	5·5	3·8	+0·3	0	0	0	0	0	0	0	0	0	0	0
Hoshangabad	28·8	+2·1	32·0	28	13·8	+1.6	8 6	2	0	0	−11·9	0	...	0	−0·7	4·1	3·5	+0·4	0	0	0	0	0	0	0	0	0	0	0
Betul	28·3	...	31·7	27	11·3	...	3·7	2	0	2·6	...	2·6	5	1	...	5·2	3·3	...	0	1	0	0	0	0	0	0	0	0	0
Chhindwara	27·9	...	30·1	27,28	10·6	...	5·3	2	0·7	6·3	...	6·3	5	1	...	3·7	1·7	...	0	1	0	0	0	0	0	0	0	0	0
Seoni	27·6	+2·2	30·5	27	12·4	+2·1	9.8	1	0	0	−13·2	0	...	0	−0·9	2·3	1·1	−2·1	0	0	0	0	0	0	0	0	0	0	0
Sagar	26.4	+1·0	30·0	27,28	13·9	+1.7	8·2	2	0	0	−12·9	0	...	0	−0·8	5·9	5·6	...	0	0	0	0	0	0	0	0	0	0	0
Nowgong	26·1	+2·5	30·1	24	7·6	−0·4	4·1	4	0	0	−10·2	0	...	0	−0·7	4·6	2·1	+0.7	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	26·8	+2 5	30·0	31	8·8	+0·2	5·0	13	0	0	−10·9	0	...	0	−0.9	5·2	3·0	+0·3	0	0	0	0	0	0	0	0	0	0	0
Sidhi	27·0	...	31 2	31	7·6	...	4·5	21,22	0	0	..	0	...	0	...	4·4	2·0	...	0	0	0	0	0	0	0	0	0	0	0
Umaria	27·8	+2 9	31·6	31	8·9	+1·2	4·9	2	0	0	−8·9	0	...	0	−0·9	4·5	2·5	−0·4	0	0	0	0	0	0	0	0	0	0	0
Jabalpur	28·7	+3 6	33·2	28	10·8	+2·7	6·4	2	0	4·3	−5·1	4·3	5	1	+0.3	3·5	2·0	+0·2	0	1	0	0	0	0	0	0	0	0	0
Mandla	27·5	...	31·2	28	9·2	...	4·5	2	0	0	...	0	...	0	..	1·3	0·5	...	0	0	0	0	0	0	0	0	0	0	0
Pendra	25·8	+2·6	28·6	28	12·2	+2·4	7·5	2	0	0	−7·4	0	...	0	−0.5	7·2	4·5	...	0	0	0	0	0	0	0	0	0	0	0
Ambikapur	25·2	...	28·8	31	8·9	...	5·0	23	0	0	...	0	...	0	...	8·5	6·0	...	0	0	0	0	0	0	0	0	0	0	0
Champa	28·4	...	31·2	26	13·6	...	10·8	1	0	0	...	0	...	0	...	4·4	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Raigarh	28·9	...	31·5	6,31	13·9	...	10·3	23	0	0	...	0	...	0	...	3·5	2·6	...	0	0	0	0	0	0	0	0	0	0	0
Raipur	28·7	+2·0	31.7	28	14·2	+1·7	11·0	2	0	0	−5·1	0	...	0	−0.3	4·3	2·8	−1·5	0	0	0	0	0	0	0	0	0	0	0
Kanker	28·2	+1·5	30.8	27	14·6	+4·2	10·0	1	0	0	−3·6	0	...	0	−0·4	2·7	1·4	−1·3	0	0	0	0	0	0	0	0	0	0	0
Jagdalpur	28·6	+1·9	31.1	7	13·1	+2·2	8.4	1	0	0	−4·1	0	0	0	−0·4	5·5	3·0	...	0	0	0	0	1	0	0	0	0	0	0
Gujarat																													
Deesa	30·2	...	32·5	22,29	10·9	...	7·4	1	0	2·0	...	2·0	30	0	...	7·4	6·5	...	0	1	0	0	0	0	0	0	0	0	0
Radhanpur	29·9	...	32·7	23	11·7	..	7·8	30	1·5	1·5	...	1·5	30	0	...	5·5	4 7	...	0	1	0	0	0	1	0	0	0	0	0
Idar	30·2	...	33.1	23	16·3	...	9·1	26	0	0	...	0	...	0	...	5·7	5.5	...	0	0	0	0	0	0	0	0	0	0	0
Ahmedabad	30·9	+1·6	33·7	23	13·2	+1·1	9·6	3	0	2·6	+1·6	2·6	30	1	+0·9	7·0	4·5	+1·3	0	1	0	0	1	0	0	0	0	0	0
Dohad	30 3	+1·2	32 8	10,23	14·0	+2.3	10·5	3	0	0	−2 0	0	...	0	−0·3	7·4	6 3	+2·3	0	0	0	0	0	0	0	0	0	0	0
Baroda	30 5	−0.2	34·6	23	13·6	+2·9	8·3	3	0	0·5	0	0·5	15	0	−0·1	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Baroda (Aerodrome)	32 1	...	34·4	8	13·9	...	7·8	3	0	0	...	0	...	0	...	6·7	5·2	...	0	0	0	0	0	0	0	0	0	0	0
Broach	33·6	...	36·0	22	14·9	...	11·0	31	0	0	...	0	...	0	...	5·3	4·5	...	0	0	0	0	0	0	0	0	0	0	0
Surat	36·6	+2·4	36·0	22	16·6	+1·4	12·2	3	0	0	−2·0	0	...	0	−0·1	(b) 7·0	(b) 6·6	+2·3	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Naliya	29·3	...	32·5	22	10·6	...	5·8	2	0	0·8	...	0·8	29	0	...	15·0	11·2	...	0	1	0	0	1	2	0	0	0	0	0
Bhuj (Aerodrome)	28 6	+0·9	31.3	22	11·7	+0·2	7·8	8	0	0	−1·8	0	...	0	−0·1	11·0	7.4	+0·5	0	0	0	0	0	0	0	0	0	0	0
Bhutakia Bhimasar	29·3	..	31·9	21,22,23	15·1	...	10·2	30	0	0	...	0	...	0	...	16·8	15·9	...	0	0	0	0	0	0	0	0	0	0	0
New Kandla	27·5	...	29·4	12,23	16·4	...	14·4	4	0	0	...	0	...	0	...	10·3	12·1	...	0	0	0	0	0	0	0	0	0	0	0
Mandvi	27·3	...	30·0	2	15·6	...	12·0	23	0	0	...	0	...	0	...	17·2	14·7	...	0	0	0	0	0	0	0	0	0	0	0
Dwarka	28·2	+0.9	31·2	12	17·5	+0·9	14·4	3	0	0	−2·3	0	...	0	−0·2	17·6	13·4	+1·3	0	0	0	0	0	0	0	0	0	0	0
Porbander	30·1	...	33·1	2	16.8	...	13·1	8	0	0	...	0	...	0	...	11·9	9.2	...	0	0	0	0	0	1	0	0	0	0	0
Porbander (Aerodrome). *	31·2	...	33·5	11	16·3	...	10·4	6	0	0	...	0	...	0	...	14·5	(a) 11.5	...	0	0	0	0	0	1	0	0	0	0	0
Jamnagar	27·8	−0·3	30·9	23	13·1	+2·3	9·7	2	0	0	−2·0	0	...	0	−0 1	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Rajkot (Aerodrome)	30·4	+0·9	32·9	29	13·2	+1·3	10·2	4	0	0	−1·5	0	...	0	−0·2	13·9	10·9	...	0	0	0	0	0	1	0	0	0	0	0
Surendranagar	30·6	...	33·2	23	15·1	...	11·7	30	0	0	...	0	...	0	...	8·4	7·5	...	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar	31·0	+1·5	33·0	9	14·1	+0·9	9.9	2	0	0	−1·5	0	...	0	−0·1	6·9	5·2	+0·2	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar (Aerodrome).	29·6	...	32·0	29	15·6	...	12·2	2,3	0	0	...	0	...	0	...	12.0	5·4	...	0	0	0	0	0	0	0	0	0	0	0
Mahuva	31·6	...	35·0	9	17.7	...	12·1	4	0	0	...	0	...	0	...	9·5	7·0	...	0	0	0	0	0	0	0	0	0	0	0
Keshod	32·0	...	34·4	22	14·3	...	10·7	5	0	0	...	0	...	0	...	14·0	12·0	...	0	0	0	0	0	0	0	0	0	0	0
Veraval	30·6	...	34·8	10	16·3	...	9·6	27	0	0	−1·8	0	...	0	−0·2	14.0	12·1	...	0	0	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu	30·7	+2·0	34·5	21	19·0	+1·7	15·7	3	0	0	0	0	...	0	0	13·9	9·6	−2·0	0	0	0	0	0	0	0	0	0	0	0
Bombay (Colaba)	31·9	+1 6	34·7	10	21·8	+1·4	19.6	27	0	0·6	−1·4	0·6	30	0	−0·2	8·0	6·3	−4.2	0	1	0	0	0	0	0	0	0	0	0
Bombay (Santacruz Aerodrome).	32·3	+1·2	34·4	18	18·9	+3·2	16·2	3,4	0	0	−1·0	0	...	0	−0·1	10·3	7.5	...	0	0	0	0	0	0	0	0	0	0	0
Alibag	30·2	+0·6	34·8	3	19·4	+1·0	16·9	4	0	0	−3 8	0	...	0	−0·4	...	7·1	−0·1	0	0	0	0	0	0	0	0	0	0	0
Harna	30·1	+0·6	33·4	10	23·7	+1.7	20.9	31	0	0	−1·3	0	...	0	−0·2	10·3	9·3	−1·8	0	0	0	0	0	0	0	0	0	0	0

(o) Mean of 16 days. (a) Mean of 30 days. (b) Mean of 29 days. (n) Mean of 17 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5mm or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation 0·1 and 0.2	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Konkan—(Contd.)																													
Ratnagiri	31·9	...	34·2	11	20·4	...	18·3	2	0	0	−3·8	0	...	0	−0.3	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Devgad	31·1	+0·2	33·7	9	21·5	+0·1	19·5	3	0	0	−8·9	0	...	0	−0·6	12·1	10·3	0	0	0	0	0	0	0	0	0	0	0	0
Vengurla	32·6	...	35·3	9	18·3	...	13·9	3	0	0	...	0	...	0	...	6.8	3·3	...	0	0	0	0	0	0	0	0	0	0	0
Maharashtra including Marathwada																													
Nandurbar	31·9	...	34·6	10	17·3	...	12·8	2	0	0	...	0	...	0	...	7·4	4.4	...	0	0	0	0	0	0	0	0	0	0	0
Jalgaon	32·2	..	34·5	27	13·8	...	9·4	3	0	0	−5·6	0	...	0	−0·4	10·1	8·7	...	0	0	0	0	0	0	0	0	0	0	0
Malegaon	31·8	+2·4	34·5	26	13·5	+2·2	7·1	3	0	0	−5·3	0	...	0	−0·4	6·6	4·7	0	0	0	0	0	0	0	0	0	0	0	0
Deolali	31·0	...	33·1	8,21	13·1	...	8·2	2	1·3	1·3	...	1·3	9	0	...	8·5	5·1	...	0	1	0	0	1	0	0	0	0	0	0
Aurangabad	30·2	+1·6	32·5	26	15·6	+2·4	10·2	3	0	0	−6.9	0	...	0	−0·5	7·2	5·5	−1·4	0	0	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome)	29.6	...	31·8	24	10·6	..	5·0	3	0	0	...	0	...	0	...	8·7	5·1	...	0	0	0	0	0	0	0	0	0	0	0
Khandala	...	...	...	...	...	...	...	..	..	14·8	+11·7	14·8	9	1	+1·0	...	...	...	0	1	...	...	...	...	...	...	...	...	...
Ahmednagar	30·9	+2·5	32·7	8,22,24	13·4	+1·8	9·9	3	0	0	−6.6	0	...	0	−0·5	6·0	4·2	−1·3	0	0	0	0	0	0	0	0	0	0	0
Bhir (*)																													
Parbhani	30·1	...	32·7	25	13·3	...	10·5	30	1·8	3·0	−2.6	3·0	5	1	+0·6	7·2	4·9	...	0	1	0	0	0	0	0	0	0	0	0
Nanded	30·8	..	33·5	25	..	..	.	..	0	0	...	0	...	0	...	4.2	3·1	...	0	0	0	0	0	0	0	0	0	0	0
Poona	31·1	+1·7	34·2	8	13·4	+1·7	8·3	3	1·1	1·2	−2.6	1·1	9	0	−0.5	4.3	2.0	−3·6	1	1	0	0	1	0	0	0	0	0	0
Poona (Lohagaon Aerodrome)	30·2	...	32·8	8	14·9	...	10·7	3	7·6	7·6	...	7·6	8	1	...	...	...	...	0	1	0	0	2	0	0	0	0	0	0
Baramati	29·3	...	32.1	22	14·0	...	9·3	3	0	0	...	0	...	0	...	7·5	6·0	...	0	0	0	0	0	0	0	0	0	0	0
Jeur	30.5	...	33·4	22	14·0	...	9·0	2	0	0	...	0	...	0	..	7·8	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Sholapur	31·0	+1·3	33·0	25	16·0	+1·3	11·2	2	0	0	−10·4	0	...	0	−0·7	7·7	6.0	−3·2	0	0	0	0	0	2	0	0	0	0	0
Miraj	30·8	+1·9	32·8	24	14·8	+0·9	10·1	3	0	0	−7.1	0	...	0	−0.6	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Kolhapur	30·8	+1·2	33·4	8	15·1	+0.5	12·0	3	0	3·8	+1.0	3·8	8	1	+0·8	12·3	8.0	−1.2	0	1	0	0	0	1	0	0	0	0	0
Vidarbha																													
Buldhana	28·9	...	31·8	25	16.0	...	11·0	26	0	0	...	0	...	0	..	7.1	6·5	...	0	0	0	0	0	0	0	0	0	0	0
Akola	30·9	+1·6	34·7	26	14·3	+2·5	8·8	3	0·5	0·5	−13.2	0·5	5	0	−0·9	5.1	3·6	−0.3	0	1	0	0	0	1	0	0	0	0	0
Amravati	30·3	+1·9	33·3	27	16.0	+1·3	13·9	2	0	26·6	+15.4	26·6	5	1	+0·8	6·9	6·3	+1·0	0	1	0	0	0	0	0	0	0	0	0
Pusad	31·5	..	35·6	30	13·0	..	10·6	17,28,30	0	0	...	0	...	0	...	7·1	4·5	...	0	0	0	0	0	0	0	0	0	0	0
Yeotmal	29·4	...	34·0	24	15·8	...	11·3	2	2·5	8·0	...	8·0	5	1	...	(a) 9·1	7·9	...	0	1	0	0	0	0	0	0	0	0	0
Nagpur	29·8	+1·4	32·9	26	12·9	+1·2	9·2	2	0	0	−11.9	0	...	0	−0.8	7.5	5·5	...	0	0	0	0	0	0	0	0	0	0	0
Gondia	29·1	...	32·9	18	13·8	...	10·4	1	0	0	...	0	...	0	...	..	..	...	0	0	0	0	0	0	0	0	0	0	0
Brahmapuri	29.5	...	32·3	26	14·3	...	11·0	1	0	0	...	0	...	0	...	1·1	0·7	...	0	0	0	0	0	1	0	0	0	0	0
Chanda	29·9	+1·8	32·2	26	13·2	+1·6	9·0	2	0	0	−6·9	0	...	0	−0·7	5.3	3·0	+0·9	0	0	0	0	0	0	0	0	0	0	0
Sironcha	30·6	...	33·0	6,7,26	14·8	...	10·7	1	0	0	...	0	...	0	...	3·8	1·8	...	0	0	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Nellore	29.1	+0·4	31·8	9	20.9	+0·7	18.9	22	26·0	33·1	−37·5	33·7	31	1	−2.0	(a) 7.9	(a) 4.7	−0.1	0	2	0	0	0	0	0	0	0	0	0
Ongole	29·5	..	31·7	6	20·4	...	18·4	2	0	7·8	...	5·2	3	2	...	(a) 6·3	4·3	0	0	2	0	0	0	0	0	0	0	0	0
Rentachintala	31·1	+1·2	33·5	7,8,9	17·8	+1·2	14·0	1	0	3·0	−0·1	3·0	3	1	+0·6	2·4	1·1	−4·0	0	1	0	0	0	0	0	0	0	0	0
Gannavaram	29·8	...	32·4	7	19·6	...	17·5	19,25	3·4	12·1	...	6·2	3	3	...	11·3	8·3	...	0	3	0	0	0	4	0	0	0	0	0
Masulipatam	28·0	−0·1	29	13	20·1	+0.9	17	1,2	26·0	36·4	+19·9	25·0	4	3	+2·1	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Nidadavolu	29·9	...	33.1	8	18·1	..	13.9	1	3·4	22·6	...	17·2	31	2	...	(a) 7·6	(a) 5·9	..	0	3	0	0	0	0	0	0	0	0	0
Kakinada	27·8	+0·9	29·8	8	18·8	−0 3	14·4	2	4·2	13·5	−4·3	7·2	31	2	+1·2	16·9	11·7	+1·4	1	3	0	0	1	0	0	0	0	0	0
Visakhapatnam	29.7	+0.6	32.0	6	18.8	+0.4	13.0	25	3·7	77·8	+63.3	56·0	8	3	+2.1	14.3	8.1	+2.6	0	4	0	0	1	0	0	0	0	1	0
Calingapatam	28·4	+1.6	31·4	25	18·2	+0·9	13.8	1	0	41·7	+28.0	31·2	31	2	+1.6	11.4	8·8	−0.1	0	2	0	0	2	0	0	0	0	0	0
Telangana																													
Ramagundam	31·1	...	34.1	7	15·9	...	11·7	1	0	2·8	...	2·8	4	1	...	3.8	1·8	...	0	1	0	0	0	0	0	0	0	0	0
Nizamabad	29·9	+1·2	32·4	26	4·9	+2·1	10·7	2	0	0	−21·0	0	...	0	−0·4	6·2	4·6	+1·8	0	0	0	0	0	0	0	0	0	0	0
Mahbubnagar	29·5	...	32·5	6	16·8	...	14·0	2	0	0	...	0	...	0	...	12·1	8·7	...	0	0	0	0	1	0	0	0	0	0	0
Nagarjumkonda	31·6	..	34·6	8	18·4	..	12·8	1	0	0	..	0	..	0	..	10·4	7·4	..	0	0	0	0	0	0	0	0	0	0	0
Hyderabad (Begumpet Aerodrome)	28·4	+0·7	30·2	6,25,26	14·8	+1·5	9·4	1	0	9·1	+1·5	9·1	4	1	+0·6	11·1	6·7	−0.1	0	1	0	0	0	3	0	0	0	0	0
Hakimpet	27·5	...	29·5	23	16·9	...	13·1	2	0	4·1	...	4·1	4	1	...	...	...	...	0	1	0	0	0	1	0	0	0	0	0
Hanamakonda	30·4	+2·0	32·9	28	16·9	+1·2	12·2	1	0	2·0	−3 8	2.0	4	0	−0·4	4·6	2·8	−1·4	0	1	0	0	0	0	0	0	0	0	0
Bhadrachallam	30·7	...	34·0	7	16·5	...	10·4	1	0	2·0	...	2·0	4	0	...	4·6	3·7	...	0	1	0	0	0	4	0	0	0	0	0
Khammameth	30·7	...	33·4	26	17·8	...	12·2	1	22·2	23.4	...	23·4	4	1	...	3·1	1·8	...	0	1	0	0	0	0	0	0	0	0	0
Rayalaseema																													
Arogyavaram	25·9	...	28·8	5	15·7	...	10·6	1	5·0	7·0	...	7·0	11	1	...	7·3	4·2	...	0	1	0	0	0	0	0	0	0	0	0
Cuddapah	29·3	−0·7	32·7	6	18·1	−0·6	14·6	26	0	0	−20·6	0	...	0	−1·5	6·4	4·7	−2·5	0	0	0	0	0	0	0	0	0	0	0
Anantapu	29·4	...	32·0	6,7	17·0	...	13·5	20	0	0	−6·3	0	...	0	−0·5	11·3	9·1	...	0	0	0	0	0	0	0	0	0	0	0
Kurnool	31·5	+1.3	34.1	8	16·8	+0·8	11·2	1	0	0	−5·1	0	...	0	−0·3	5·7	(a) 4·1	+0·2	0	0	0	0	0	0	0	0	0	0	0
Madras State																													
Kanyakumari*																													
Palayamcottai	30·5	...	32·8	31	22·5	...	20·0	26	12·9	20·4	−87·3	7·8	12	3	−2.4	12·4	8·3	...	0	6	0	0	0	0	0	0	0	0	0
Tuticorin	28·4	...	30·2	9,10	22·6	...	20·2	24,25,26	3·0	29·8	...	15·0	5	4	...	21·8	19·6	...	0	5	0	0	0	0	0	0	0	0	0
Pamban	29·1	+1·0	30·6	7	24·2	+0·4	22·6	11	29·1	126·5	−66·3	70·2	11	5	−4·4	(a) 10·4	(a) 14·4	−3.9	0	5	0	0	0	0	0	0	0	0	0

*Data not available.

(a) Mean of 30 days.

Division and Station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Madras State—(Contd.)																													
Toddi	29·9	...	31·9	31	22.7	...	20·7	24	4·0	23·8	...	15·0	13	2	...	16.7	13.5	...	0	4	0	0	0	0	0	0	0	0	0
Mathurai	30·8	+1.5	32.8	31	22·1	+0·9	19·1	25	1·6	7.6	−43·5	5.2	10	1	−2·6	(a) 8 8	6·4	−0·4	0	4	0	0	0	0	0	0	0	0	0
Mathurai (Aerodrome)	29.8	...	31 8	31	21.3	...	18·4	26	0	18.4	...	18·4	10	1	...	14·0	10.2	...	0	1	0	0	1	0	0	0	0	0	0
Adirampattinam	29·5	...	31·1	5,6	21·7	...	20·0	21,24	10·6	38·6	...	25·4	13	3	...	13·2	10·1	...	0	5	0	0	3	0	0	0	0	0	0
Vadaramiyam	28·6	...	29.8	6,7	22·4	...	20·3	24	6·8	80·3	...	21·4	8	6	...	13·1	11·0	...	0	8	0	0	0	0	0	0	0	0	0
Nagapattinam	28·4	+0·6	29 8	8	22·8	+0.4	21.0	24	26·4	64·1	−214·0	19·4	11	5	−4·1	19·3	18·2	+4·8	1	6	0	0	1	0	0	0	0	1	0
Tiruchirapalli	30·1	+0·6	31 7	9	21·5	+0·7	18·8	24,25	6·8	8·3	−62·8	4·0	12	1	−3·5	14·0	11·7	+3·0	1	5	0	0	0	0	0	0	0	0	0
Coimbatore	30·1	+1·0	32 6	31	19·7	+0.8	15 6	26	8·4	11·4	−23·1	8·4	7	1	−1·6	9·1	5·5	+1·5	0	3	0	0	1	0	0	0	0	0	0
Coimbatore (Peelamedu Aerodrome)	29.5	...	31·8	31	18·5	...	13·9	27	0	8·6	...	7·4	5	1	...	15·0	10·0	...	0	2	0	0	1	2	0	0	0	0	0
Salem	31·0	+0·9	33·3	7	19·6	+0·8	15·4	24	0	1·6	−24·6	0·8	11	0	−2·2	8·6	8·5	+3·2	1	1	0	0	0	0	0	0	0	0	0
Kallakurichi	29·0	...	31·9	6	20·7	...	17·4	24	7·4	8·6	...	8·4	11	3	...	11·6	8·6	...	0	4	0	0	1	0	0	0	0	0	0
Cuddalore	28.3	+0·2	30·1	6,7	21·6	+0.4	19·3	25	5.5	31·3	−159·0	13·1	9	3	−3·3	13·6	9·8	+2·1	0	4	0	0	0	0	0	0	0	0	0
Tirupattur	29·0	...	31·8	7	17·5	...	13·2	26	0	0	...	0	...	0	...	(a) 5·1	(a) 3·3	...	0	0	0	0	0	0	0	0	0	0	0
Vellore	28·7	+0·7	32·3	6	18·7	+0·5	15·1	26	6·0	15·6	−59·9	10·4	13	2	−1·9	7·2	6·0	+2·3	0	3	0	0	0	0	0	0	0	0	0
Tambaram (Aerodrome)	28·9	...	32·2	6	21·0	...	19·2	1	11·7	146·7	...	72·4	9	7	...	...	...	...	0	8	0	0	2	1	0	0	0	0	0
Madras	28·3	−0·6	31 4	6	21·4	+0.9	19 4	25	8·7	116·0	−22·4	41·7	9	6	+0·6	15·9	10·5	−3.2	0	9	0	0	3	0	0	0	0	0	0
Madras (Nungambakkam)	28 2	...	80·8	6	20 9	...	18.8	24,25	...	144 2	...	57·6	9	7	...	...	5·9	...	2	6	0	0	2	0	0	0	0	0	0
Coastal Mysore																													
Karwar	32·5	...	36·0	9	19.2	...	16 4	2	0	0	−5·8	0	...	0	−0·3	9·7	6·4	...	0	0	0	0	0	0	0	0	0	0	0
Honavar	33·4	+0·7	36.1	11	20·0	−0·9	16·6	2,3	0	0	−5·1	0	...	0	−0.4	8 6	8·8	+4·1	0	0	0	0	1	0	0	0	0	0	0
Mangalore	32·3	+0·6	34·9	10	21·3	−0·5	17·9	2	0	0	−12·9	0	...	0	−0·7	11.3	9·4	+1·2	0	0	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe Aerodrome)	31.8	...	34·0	10	20·3	...	16·3	2	0	0	...	0	...	0	...	9 7	6 8	...	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (North)																													
Bidar	28·1	+0·8	30·4	6,7	17·5	+1·1	14·3	1	0	0	−6·1	0	...	0	−0·5	12·7	10·1	+1 2	0	0	0	0	0	0	0	0	0	0	0
Gulbarga	30·5	+0·8	32·8	7	16.3	+1.5	10 8	2	0	0	−3·8	0	...	0	−0·3	10 8	9·6	+1·7	0	0	0	0	0	1	0	0	0	0	0
Bijapur	29.8	+0·8	32·0	8	16·5	+1·7	12·2	2	0	0	−6·3	0	...	0	−0·6	6·2	3.5	−0.2	0	0	0	0	0	0	0	0	0	0	0
Belgaum	30·0	+0.8	34·6	7	14·5	+0·6	9 5	3	0	0	−8·6	0	...	0	−0.5	9·2	6·7	+0·9	0	0	0	0	0	0	0	0	0	0	0
Belgaum (Sambre Aerodrome).	29·4	...	31·9	7	15·7	...	11·5	3	0	0	...	0	...	0	...	...	...	...	0	0	0	1	1	0	0	0	0	0	0
Gadag	30·4	+1·8	33·5	7	16·9	+0·6	14·1	2	0	0	−10·4	0	...	0	−0.6	10.8	7·7	+0·6	0	0	0	0	0	0	0	0	0	0	0
Raichur	30·0	+0·7	33·6	6	18·7	+1.1	14·3	2	0	0	−3·3	0	...	0	−0·3	8·5	8·9	+0·4	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	30·3	+0·5	33·5	6	...	...	...	...	0	0	−3·3	0	..	0	−0.3	9 5	5·9	+2·0	0	0	0	0	0	0	0	0	0	0	0
Chitaldrug	28·7	+0·7	31·6	4	17·0	+0·4	13 5	29	0	0	−13·2	0	..	0	−0·8	10 6	8·2	+0·8	0	0	0	0	0	0	0	0	0	0	0
Shimoga	29·7	...	32·2	8	13·7	...	9 0	2	0	0	...	0	...	0	...	(a) 8.2	(a) 4·6	...	0	0	0	0	0	1	0	0	0	0	0
Balehonnur	27·1	+1·0	28 6	7	14·3	−0·5	10 5	2	...	0	−11·9	0	..	0	−0·8	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Hassan	27·0	0	28·9	4,31	...	...	...	...	0	0	−16.8	0	...	0	−1.1	8·1	5·5	+0·7	0	0	0	0	0	3	0	0	0	0	0
Mysore	28·4	+0·7	30·8	8	16·5	+0·3	12·8	20	0	0·6	−9·6	0·6	10	0	−0·9	9·8	10·5	+0·4	0	1	0	0	0	4	0	0	0	0	0
Bangalore (Central Observatory)	26·4	+0·7	28·8	6	15·1	+0·5	11 0	1	0	0·4	−10 8	0·4	11	0	−1·2	11.3	8 4	+0 7	0	1	0	0	0	1	0	0	0	0	0
Bangalore (Aerodrome).	27·3	...	29·6	7	15·3	...	10 9	22	0	0·4	..	0.4	11	0	...	...	...	...	0	1	0	0	0	5	0	0	0	0	0
Kerala																													
Kozhikode	31·0	+0·1	32·3	14	21·7	−0·1	19·[illegible]	19	8·8	49.6	+23·9	36·4	2	2	+0 4	11 1	9·5	+3·1	0	4	0	0	3	0	0	0	0	0	0
Palghat	32·1	...	33·5	26	21·8	...	18·[illegible]	26	10·2	13·4	...	10·2	7	2	...	11·2	8·7	...	0	2	0	0	1	0	0	0	0	0	0
Fort Cochin	30·4	+0·1	31·9	9	24 0	+0·6	22 4	23	0	32·6	−8·0	22·2	5	2	−0·5	9 8	8·3	+2·5	0	2	0	0	2	0	0	0	0	0	0
Cochin (Naval Air Station)	31·4	...	33·7	10	22·6	...	20 2	27	0	25·9	...	23.9	5	1	...	10·3	7 6	...	0	2	0	0	5	0	0	0	0	0	0
Alleppey	31·4	...	33·4	11	22·9	...	20·5	18	0	62·0	...	62·0	5	1	...	12·6	9·2	...	0	1	0	0	2	0	0	0	0	0	0
Punalur	32·6	...	34·3	30	20·4	...	16·6	26	0	24·4	...	20·4	5	2	...	5·8	3·3	...	0	2	0	0	0	0	0	0	0	0	0
Trivandrum	31·0	+0·3	33·1	27	22·3	−0·1	19.7	26	5·0	15·0	−47·7	8·4	11	2	−1·7	6·8	5·0	+0·8	0	3	0	0	3	0	0	0	0	0	0
Trivandrum (Aerodrome).	30.5	...	31·5	10,12,26	21·7	..	18.4	26	...	15·1	...	5·0	11	3	...	...	5·2	...	0	4	0	0	2	0	0	0	0	0	0
Arabian sea Island																													
Minicoy*																													
Amini Divi*																													
Hill Station excluding Kashmir																													
Walong (R)																													
Kohima	16·4	...	19·5	3	10.5	...	9.3	11,12, 13	0	0	...	0	..	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Aijal	21·7	...	26·1	2	12·8	...	10·9	24	0	1·0	...	1·0	2	0	...	0·9	0·7	...	0	1	0	0	0	0	0	0	0	0	0
Shillong	16·8	+0·4	20·1	1	5·5	+1·1	3·9	10	0	0·6	−6·5	0·6	23	0	...	2·1	1·3	−0·6	0	1	0	0	0	1	0	0	0	0	0
Cherrapunji (R)			...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Darjiling Raj-Bhawan).	12·4	+1·2	16·0	2	5·6	+2·0	4·4	24	0	0	−6·9	0	...	0	−0·7	0·3	0·1	−1·2	0	0	0	0	0	14	0	0	0	0	0
Kalimpong	20·3	+3·5	26·2	17	10·6	+1·6	4·5	5	0	0	−8·1	0	...	0	−0·7	7·6	5·6	−5·3	0	0	0	0	0	0	0	0	0	0	0

*Data given as addenda.

(a) Mean of 30 days.

(R) Register not received.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830—1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 2·1mm.)	Precipitation (3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squal	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20(b)	21	22	23	24	25	26	27	28	29
Hill Stations																													
Mukteswar (Kumaon)	15·8	+4·0	20.6	5	6·7	+3·1	3·7	9	14·4	6·4	−20·3	6.4	31	1	−0·8	10·2	11·5	+3·1	0	1	0	0	0	1	0	31	0	0	0
Nainital	16·2	...	20·6	5	5·4	...	2·2	9	18·0	4·0	...	4·0	31	1	...	7·1	6·6	...	0	1	0	0	0	0	0	0	0	0	0
Joshimath	15·7	...	20·0	31	5·6	...	2·5	10	19·4	12·0	...	12·0	1	1	...	4·6	6·3	...	0	1	0	0	0	0	0	0	0	0	0
Lokpal	−2.7	...	1·8	12	−9·8	...	−12.1	26,28,31	...	50·4	...	25.4	31	4	...	...	...	...	0	4	4	4	0	14	0	29	0	0	0
Mussooree	15·5	+3·5	19·5	15	6·1	+1·9	1·8		2·0	14·4	−20·7	14·4	31	1	−1·6	8·7	7·3	+0·1	0	1	0	0	1	2	0	0	0	0	0
Simla	14·2	+3·9	20·4	5	6·4	+2·3	1·6	30	12·0	25·9	−5·6	19·4	31	2	−0·4	4·9	4·0	+1·9	0	3	2	1	1	0	0	0	0	0	0
Dharampur	...	...	...	...	...	...	...	...	...	46·2	+1·0	25.2	31	2	−0·5	...	...	...	0	2	...	...	...	...	...	...	...	...	...
Dalhousie	17·7	...	21.5	14	5·4	...	0·3	30,31	123·2	188.2	+90.4	174·2	31	3	−1·5	3·5	4·0	...	0	4	0	0	0	0	0	0	0	0	0
Dharamshala	17·8	...	20·9	29	9·0	...	6·2	31	28·0	81.8	...	56·6	31	3	...	5·3	4.8	...	0	3	0	0	0	0	0	0	0	0	0
Abu	22·4	+2·2	26·7	10	10·9	−0·5	6·3	31	0	8·6	+5·5	8·6	30	1	+0.7	(d) 2·9	(c) 1·7	...	0	1	0	0	0	0	0	0	0	0	0
Pachmarhi	24·6	+2·8	27.2	27	8·8	+1·1	2·4	3	4·0	7·4	−3·5	4·0	6	2	+1·2	4·1	2·2	−0.7	0	2	0	0	0	0	0	0	0	0	0
Mahabaleshwar	25·1	+2·5	27.8	25,26	14·6	+1·0	12·0	3	0	0·6	−6·0	0·6	9	0	−0·6	8·3	9·8	−1.6	0	1	0	0	1	0	0	0	0	0	0
Mercara	24·4	+0·6	27·0	25	14·1	−0·2	10·0	2	0	0	−18.3	0	..	0	−1·2	14·0	12·0	+4·6	0	0	0	0	0	1	0	0	0	0	0
Kodaikanal	17·8	+1·3	20·5	20	9·4	+1.0	5·9	18	5·3	21·0	−110·1	3·5	12	4	−3·1	11·8	12·3	−0·9	0	10	0	0	0	9	0	5	0	0	0
Ootacamund	20·8	+2·5	24·5	20	7·6	+1·0	4 4	16	0	2·6	−41·1	1·6	10	0	−3·7	0·9	0·3	−4·4	0	2	0	0	0	0	0	8	0	0	0
Coonoor	19·8	+1·1	22·8	24	10·2	+0·6	6·2	19	...	62·0	−89·7	13·0	5	7	+0 4	...	6·3	+1·2	0	7	0	0	1	0	0	0	0	0	0
Nepal																													
Kathmandu	20·0	...	22 9	28	3·5	...	0·4	18	0	0	...	0	..	0	...	1·7	1·1	...	0	0	0	0	0	24	0	0	0	0	0
Sikkim																													
Lachen	10·5	...	14·4	4	0.5	...	−2·1	24	...	1·0	...	1·0	10	0	...	...	...	...	0	1	...	...	...	...	...	...	...	...	...
Tibet																													
Yatung (Chumbi) (R)																													
Ceylon																													
Colombo	30·4	+0.2	32·1	1 8	22·6	+0·1	21·0	2	34·3	56·7	−85·0	16·5	9	7	−0·6	...	...	...	0	11	0	0	3	0	0	0	0	0	0
Trincomalee	28·0	−0·1	30.1	31	25.0	+1·4	22·5	28	61·7	115·0	−232·0	43·7	28	8	−5·6	...	...	...	0	11	0	0	1	0	0	0	0	0	0
Batticoloa	28·5	...	31·1	31	24·0	...	22·0	2,26	90·6	257·2	...	82·0	1	10	...	...	...	...	0	15	0	0	10	0	0	0	0	0	0
Hambantota	29·7	+0·5	31·1	23	23·4	+0·7	22·0	24	17·9	63·7	−63·0	29·2	14	4	−4·3	...	...	...	0	8	0	0	0	0	0	0	0	0	0
Mannar	28·9	...	30.7	10	24·8	...	22·2	11	27·2	75·9	...	33·0	28	5	...	..	...	...	0	12	0	0	3	0	0	0	0	0	0
Hydrometeorological Observatories																													
Damodar Catchment																													
Bokaro	26·7	...	30·1	31	7·7	...	4·2	22,23	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	23·3	...	26·6	10	9·0	...	5·0	21	0	0	...	0	...	0	...	9·5	5·7	...	0	0	0	0	0	0	0	0	0	0	0
Tilaiya	22·5	...	27·4	11	10·2	...	7·2	22	0	0	...	0	...	0	...	9·9	6.4	...	0	0	0	0	0	0	0	0	0	0	0
Ramgarh	26·9	...	30·3	31	8·4	...	5·1	12	0	0	...	0	...	0	...	3.0	1·5	...	0	0	0	0	0	0	0	0	0	0	0
Panchet Hills	27·4	...	29·7	11,30	12·2	...	9·8	21,23,24	0	0	...	0	...	0	...	8·3	5·2	...	0	0	0	0	0	0	0	0	0	0	0
Durgapur	26·8	..	29·6	11	12·6	...	10·0	22,23	0	0	...	0	...	0	...	10 8	7·3	...	0	0	0	0	0	0	0	0	0	0	0
Maithon	...	...	...	...	...	...	...	...	0	0	...	0	..	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Konar	...	...	...	...	...	...	...	...	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Hirakud	28·6	...	31·1	26	15·0	...	11.4	22	0·1	0	...	0·1	31	0	...	3.4	1·9	...	1	0	0	0	0	3	0	0	0	0	0
Khijrawan	27·9	...	31·4	9	12·1	...	5·1	1	0	0	...	0	...	0	...	...	(c) 2·4	...	0	0	0	0	0	0	0	0	0	0	0
Sonepur	28·6	...	31·4	7	...	...	..	...	...	0	...	0	...	0	...	..	2·4	...	0	0	...	...	...	...	...	...	...	...	...
Ginabahar	28·5	...	31·0	27	9·5	...	5·0	12	...	0	...	0	...	0	...	...	...	...	0	0	...	..	...	...	..	..	...	..	..
Bhimkund	27.7	...	30·8	4	12·0	...	7·4	24	0	0	...	0	...	0	...	1·5	0·6	...	0	0	0	0	0	0	0	0	0	0	0
Narbada Catchment																													
Punasa	32·2	...	34·4	27	13·4	...	6·4	3	0	0	...	0	...	0	...	3·4	2·3	...	0	0	0	0	0	0	0	0	0	0	0
Bagra Tawa	29·1	...	33·4	27,28	11·5	...	5·6	3	0	0	...	0	...	0	...	3·7	2·1	...	0	0	0	0	0	0	0	0	0	0	0
Thikri	32·1	...	34·8	10	12·9	...	7.3	3	...	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Jhadol	26·6	...	30.	28	2·4	...	1·1	5,12	...	0	...	0	...	0	...	...	...	...	0	0	...	...	...	...	...	..	...	...	..
Dharoi	30·3	...	32·3	29	...	...	...	...	0	0	...	0	...	0	...	...	...	...	0	0	...	...	...	...	...	...	...	..	..
Ganga Catchment																													
Mukhim	16·7	...	21·2	5	7·3	...	2·8	31	2·7	17·2	...	17·2	31	1	...	...	...	...	0	1	1	0	2	1	1	0	0	0	0
Tehri	22·9	...	25·7	30	4·5	...	2·8	24	0·9	15·9	...	15·9	31	1	...	1·8	1·3	...	0	1	0	0	1	1	0	0	0	0	0
Gandak Catchment																													
Gorkha (R)																													
Pokhara	21·4	...	27·5	30	9·0	...	6·2	16	0	0	...	0	...	0	...	5·4	5 0	...	0	0	0	0	0	0	0	0	0	0	0
Nawakot	21·8	...	23·7	2.29	9.5	...	7·8	18	0	0	...	0	...	0	...	...	...	...	0	0	...		...	...	...	...	...	...	...
Jomosom	15·8	...	19·8	6	0·7	...	1·8	27	0	0	...	0	...	0	...	...	..	...	0	0	...	...	...	...	...	...	...	...	...
Khudi Bazar	...	...	...	...	...	...	...	...	0	0	...	0	...	0	...	...	...	...	0	0	...	...	...	...	...	...	...	...	...
Timure	17·9	...	22·3	29	4·9	...	2·3	23	0	0	...	0	...	0	...	...	.	...	0	0	...	...	...	...	...	...	...	...	...
Gogra Catchment (Trans Himalayan Region)																													
Dailekh (R)																													

(c) Mean of 28 days. (d) Mean of 27 days. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—*Contd.*																													
Gogra Catchment																													
Dandeldhura	16·3	...	20.1	5	8·3	...	5·9	10	16·0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	1	0	0	0	0	0
Munsiyari(R) . .																													
Butwal . . .	25·9	...	28·5	8	15·8	...	12·9	24,25	0	0	...	0	...	0	...	...	...	...	0	0	...	...	...	...	...	...	...	...	...
Kosi Catchment																													
Chautare . .	19·8	...	23·6	29	8·5	...	6·9	13	0	0	...	0	...	0	...	...	...	...	0	0	...	...	...	...	...	...	...	...	...
Chepua	...	...	...	...	...	...	...	...	0	0	...	0	...	0	...	...	...	...	0	0	...	...	...	...	...	...	...	...	...
Okhaldunga	16·4	...	19.0	7	7·0	...	5·5	11	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Barahkshetra . .	25·2	...	27·6	3	12·7	...	11·1	16	0	0	...	0	...	0	...	...	...	...	0	0	...	...	...	...	...	...	...	...	...
Angbung . .	20·3	...	22·4	7	..	...	..	...	0	0	...	0	...	0	...	...	...	...	0	0	...	...	...	...	...	...	...	...	...
Taplejung . .	16·3	...	17·9	4	7·1	...	5.3	1	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Taplethok . .	20·6	...	23·2	6	9.3	...	6·7	2	0	0·2	...	0.2	22	0	...	...	...	...	1	0	...	...	...	...	...	...	...	...	...
Wallung Chung Gola	10·5	...	15·9	30	—1.2	...	—4·2	23,25	0	0	...	0	...	0	...	...	...	...	0	0	...	...	...	...	...	...	...	...	...
Bhojpur .	16.8	...	19.0	8	...	...	...	...	0	0	...	0	..	0	...	...	...	...	0	0	...	...	...	...	...	...	...	...	...
Chainpur . .	20·0	...	22·2	7	11·3	...	10·4	28	0	0	...	0	..	0	...	...	...	...	0	0	...	...	...	...	...	...	...	...	...
Tista Catchment																													
Gangtok . .	15·5	...	19·0	4	7.2	...	5·9	12	0	8·0	...	2·5	22	1	...	1 8	1 2	...	0	6	0	0	0	12	0	0	0	0	0
Geyzing . .	19·6	...	22.2	5	8.5	...	6·1	1	0	1·2	...	1·2	22	0	...	...	..	...	0	1	...	..	...	...	...	...	...	...	...

(R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, Km. per hour.			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0.3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Arabian Sea Islands																													
January																													
Minicoy . . .	29·8	+0·3	30·6	17	23·0	+0·2	20·0	15	5·0	27·8	—18·7	11·0	30	4	+1·4	8·5	6·3	—0·6	1	5	0	0	1	0	0	0	0	0	0
Amini Divi* . .																													
February																													
Minicoy . . .	30·1	+0·4	31·3	10	22·9	—0·8	19·8	6,18	31·6	40·0	—22·0	19·2	27	4	+2·8	8·2	5·9	—1·5	0	4	0	0	5	0	0	0	0	0	0
Amini Divi* . .																													
March																													
Minicoy . . .	31·1	+0·9	31·8	14	24·5	—0·4	22·0	9	1·0	6·6	—15·7	6·4	6	1	—0·5	10·1	7·1	0	1	1	0	0	2	0	0	0	0	0	0
Amini Divi . .	35·4	+3·3	36·9	21	26·3	+0·9	23·6	10	..	0	+7·1	0	6	0	—0·2	..	7·0	—1·2	0	0	0	0	0	0	0	0	0	0	0
April																													
Minicoy . . .	31·5	+0·7	33·4	6	24·7	—1·7	22·7	3	23·8	133·8	+15·4	31·2	4	7	+3·5	9·0	6·5	—2·8	2	7	0	0	9	0	0	0	0	0	0
Amini Divi . .	34·9	+1·8	37·7	30	26·3	—0·4	23 9	15	..	36·9	+7·7	24·9	27	3	+1·4	..	4·0	—5·2	0	3	0	0	0	0	0	0	0	0	0
May																													
Minicoy . . .	30.3	—1·0	3[illegible]3	1	24·9	—1·3	21·8	1	226·5	553·1	+315·3	188·2	9	17	+8·3	17·3	15·6	+3·5	1	23	0	0	13	0	0	0	0	0	0
Amini Divi . .	32·1	—0·8	37·3	1	26·1	—1·2	22·3	3	..	438·2	+325·2	85·2	20	15	+10·2	..	12·9	+0·7	0	18	0	0	0	0	0	0	0	0	0
June																													
Minicoy . . .	30·3	+0·3	31·4	30	25·4	+0·2	23·8	1,12	44·6	159·6	—135·0	40·8	11	13	—4·0	18·6	17·3	—1·7	0	16	0	0	1	0	0	0	0	0	0
Amini Divi . .	31·7	+1·1	33·4	10,19,20	26·5	+0·9	24·2	23	..	194·0	—74·5	47·6	23	14	—2·8	..	18·7	—1·1	0	16	0	0	0	0	0	0	0	0	0
July																													
Minicoy . . .	29·4	0	31·1	1,5	24·9	0	22·3	22	110·5	229·6	+4·6	63·0	20	14	+0·3	20·3	18·9	+0·1	0	20	0	0	1	0	0	0	0	0	0
Amini Divi . .	29·9	+0·2	32·1	16	25·7	+0·4	23·9	25	..	285·0	—15·0	69·0	18	17	+1·3	..	25·2	+2·7	0	19	0	0	0	0	0	0	0	0	0
August																													
Minicoy . . .	29·5	+0·2	30·3	14	24·4	—0·7	22·1	31	92·8	317·9	—119·5	51·8	8	19	+7·2	15·9	15·0	—1·1	1	23	0	0	0	0	0	0	0	0	0
Amini Divi . .	30·7	+1·1	33·3	21	25·7	+0·4	24·3	26,27	..	34·3	+162·8	10·4	3	4	—7·3	..	16·3	—4·8	0	10	0	0	0	0	0	0	0	0	0
September																													
Minicoy . . .	29·0	—0·4	29·9	6,7	24·1	—1·0	22·3	15	108·5	217·3	+57·3	36·6	15	17	+6·9	19·9	17·8	+3·6	1	25	0	0	0	0	0	0	0	0	0
Amini Divi . .	29·8	0	31·8	1	24·8	—0·4	21·7	29	..	228·2	+76·8	25·4	15	19	+8·9	..	19·6	+3·0	0	22	0	0	0	0	0	0	0	0	0
October																													
Minicoy . . .	29·5	—0·1	30·8	20	23·9	—0·5	21·3	9	131·7	261·3	+76·4	98·8	29	9	—1·6	7·3	8·1	—2·5	2	12	0	0	1	0	0	0	0	0	0
Amini Divi . .	31·6	+1·4	36·1	19	24·5	—0·5	21·9	9	..	75·5	—70·3	17·0	29	6	—2·6	..	5·6	—4·4	0	8	0	0	0	0	0	0	0	0	0
ovember																													
Minicoy . . .	29·1	—0·4	31·2	3,7	24·4	+0·9	22·1	16	91·5	266·6	+127·4	109·4	16	10	+2·3	8·4	9·0	+1·0	0	16	0	0	2	0	0	0	0	0	0
Amini Divi . .	30·9	+0·4	33·6	30	24·8	+0·5	23·1	5	..	205·2	+28·5	58·4	6	13	+8·1	..	3·3	—2·5	0	14	0	0	0	0	0	0	0	0	0
December																													
Minicoy . . .	29.9	+0·2	31·5	13	23·2	—0·1	20·1	25	11·8	34·0	20·0	20·4	6	2	—2·3	8·1	5·9	—1·0	0	4	0	0	1	0	0	0	0	0	0
Amini Divi . .	33·0	+2·4	35.1	9	23·4	0	21·1	20,29	0	0	—37·9	0	...	0	—2·0	6·9	2·7	—2·4	0	0	0	0	0	0	0	0	0	0	0

*Date not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed, (km. p.h.): 62 or more	Wind speed, (km. p.h.): 20 to 61	Wind speed, (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1013.8	1010.7	...	27.0	23.7	21.5	26.5	75	...	4.1	...	6.2	0	1	21	1	18	1	2	0	0	0	0	9	0
	1730	"	1011.4	1008.2	...	26.6	23.3	21.7	25.9	75	...	3.9	...	8.4	0	3	21	0	24	0	0	0	0	0	0	7	0
Long Island	0830	25	10 3.5	1010.7	...	27.2	24.6	23.3	28.8	80	...	4.0	...	0.8	0	0	6	0	0	0	0	1	2	0	1	25	2
	1730	"	1011.1	1008.3	...	26.2	24.1	23.2	28.4	83	...	4.3	...	0	0	0	2	0	0	0	0	0	0	0	0	29	2
Port Blair	0530	79	1012.0	1002.9	...	23.8	22.5	22.0	26.1	89	...	4.1	...	6.7	0	0	20	3	10	2	0	2	1	2	0	11	0
	0830	"	1013.7	1004.8	+0.7	28.2	24.5	22.9	27.7	73	+2	4.4	+0.2	9.3	0	1	30	4	21	4	1	1	0	0	0	0	0
	1130	"	1012.0	1003.2	...	29.0	25.1	23.2	28.7	71	...	5.1	...	10.7	0	1	29	1	20	7	0	2	0	0	0	1	0
	1730	"	1011.3	1002.4	...	25.6	23.4	22.3	27.0	82	...	4.9	...	7.9	0	0	29	2	19	5	0	2	1	0	0	2	0
	2330	"	1012.4	1003.4	...	24.7	23.9	22.0	26.5	85	...	4.0	...	8.3	0	0	22	0	15	5	1	0	0	0	1	9	0
Car Nicobar	0830	10	1013.0	1011.8	..	28.0	24.8	23.4	28.6	75	...	4.5	...	7.2	0	0	31	0	14	4	10	1	0	0	2	0	0
	1730	"	1010.6	1009.4	...	26.7	24.3	23.1	28.4	82	...	5.0	...	4.5	0	0	24	0	15	6	3	0	0	0	0	7	0
Nancowry	0830	26	1012.8	1009.9	...	28.6	25.9	24.9	31.2	80	...	4.6	...	0.6	0	0	2	0	0	0	1	0	1	0	0	29	0
	1730	"	1010.3	1007.4	...	26.5	24.8	24.0	30.0	86	...	3.6	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Kondul	0830	8	1012.6	1011.7	...	27.1	24.9	23.9	29.4	84	..	5.2	...	8.4	0	0	26	0	25	1	0	0	0	0	0	5	0
	1730	"	1010.1	1009.1	...	26.8	24.8	23.9	29.8	84	...	5.2	...	10.0	0	1	23	0	23	1	0	0	0	0	0	7	0
Assam (including Tripura)																											
Mazdpur, Pasighat	0830	157	1017.5	999.3	...	18.5	15.2	12.8	14.4	69	...	2.7	...	17.8	0	11	20	0	0	2	1	0	0	0	28	0	0
	1730	"	1013.9	995.7	...	17.8	16.1	14.9	17.0	83	...	3.5	...	2.1	0	0	10	0	0	0	0	0	0	0	10	21	0
Digboi	0830	..	...	...	...	15.7	13.9	12.6	14.4	79	...	1.1	...	...	...	...	..	10	3	1	3	4	0	4	6	0	0
	1730	..	...	...	...	19.7	16.5	13.9	16.2	70	...	1.2	...	...	..	..	..	5	10	0	5	3	1	3	4	0	0
Dibrugarh	0830	106	1017.2	1004.8	−1.3	19.3	16.7	14.9	16.8	78	−13	2.2	−0.4	2.6	0	0	24	6	2	14	1	0	0	0	1	7	0
	1730	"	1013.5	1001.2	...	19.8	17.1	15.3	17.2	76	...	2.6	...	0.6	0	0	6	2	2	2	0	0	0	0	0	25	0
Dibrugarh (Mohanbari Aerodrome).	0230	111	1015.1	1001.9	...	12.5	12.3	11.9	14.3	96	...	2.6	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0530	"	1015.8	1002.5	...	11.7	11.4	11.2	13.3	97	...	2.8	...	0.1	0	0	1	0	0	0	0	0	0	1	0	30	0
	0830	"	1017.7	1004.6	...	18.2	16.1	14.8	17.1	80	...	3.4	...	2.1	0	0	14	0	12	2	0	0	0	0	0	17	0
	1130	"	1014.7	1001.9	...	23.1	17.7	13.8	16.3	57	...	3.6	...	2.9	0	0	21	3	12	2	0	0	2	2	0	10	0
	1730	"	1013.9	1000.9	...	18.3	16.1	15.0	16.5	80	...	3.7	...	0.3	0	0	2	0	2	0	0	0	0	0	0	29	0
	2330	"	1015.7	1002.3	...	13.6	13.1	12.7	14.9	94	...	2.8	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
North Lakhimpur	0830	102	1016.9	1005.6	...	18.9	16.3	14.7	16.6	79	...	1.9	...	2.2	0	0	19	7	1	3	1	1	0	1	5	12	0
	1130	"	1015.1	1003.3	...	23.7	17.9	13.8	16.0	55	...	1.9	...	4.2	0	0	30	0	10	9	4	3	1	3	0	1	0
	1730	"	1014.0	1002.1	...	18.3	16.3	14.9	17.1	81	...	3.4	...	0.3	0	0	2	0	1	0	0	0	0	0	1	29	0
Sibsagar	0830	97	1017.2	1006.5	−0.7	17.5	16.6	15.7	16.9	85	−9	6.5	+0.6	0.6	0	0	6	0	2	0	1	0	3	0	0	25	0
	1730	"	1013.3	1002.5	...	22.3	18.2	15.9	17.3	65	...	3.8	...	0.6	0	0	4	1	2	0	1	0	0	0	0	27	0
Jorhat	0530	90	1015.2	1004.5	...	12.8	12.7	12.7	14.7	100	...	5.3	...	0.3	0	0	2	0	0	0	0	0	1	0	1	29	0
	0830	"	1017.2	1006.7	...	17.5	16.3	15.6	17.6	89	...	4.6	...	2.1	0	0	12	0	6	3	0	1	1	0	1	19	0
	1130	"	1014.5	1004.2	...	23.7	18.9	15.8	17.9	61	...	2.9	...	5.9	0	0	26	7	15	1	1	0	1	0	1	5	0
	1730	"	1013.2	1002.7	...	19.2	17.0	15.4	17.7	79	...	2.5	...	2.1	0	0	13	5	5	2	0	0	0	0	1	18	0
	2330	"	1014.8	1004.5	...	14.3	14.3	14.2	16.2	99	...	2.3	...	0.2	0	0	1	1	0	0	0	0	0	0	0	30	0
Golaghat	0830	...	...	...	...	18.7	16.8	15.1	17.6	81	...	2.9	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	†1730	...	...	...	...	21.7	18.9	16.9	19.6	75	...	3.9	...	0	0	0	0	0	0	0	0	0	0	0	0	22	0
Gohpur	0830	...	...	...	...	17.8	16.6	15.6	17.9	86	...	1.2	...	1.2	0	0	27	3	0	24	0	0	0	0	0	4	0
	1730	...	...	...	...	20.2	18.3	16.9	19.5	81	...	1.1	..	1.1	0	0	11	0	0	9	0	2	0	0	0	20	0
Tezpur	0830	79	1016.9	1007.7	−1.9	17.9	16.7	15.6	17.5	85	−3	1.8	−0.2	3.0	0	0	10	0	10	0	0	0	0	0	0	21	0
	1730	"	1013.1	1004.3	...	22.2	21.1	20.3	24.8	91	...	2.1	...	0.7	0	0	6	0	4	2	0	0	0	0	0	25	0
Majbat	0830	...	..	...	...	...	...	...	...	...	...	2.9	...	4.7	0	0	28	2	10	11	3	1	0	0	1	3	0
	1730	...	..	...	...	...	...	...	...	...	...	3.6	...	1.6	0	0	13	9	3	0	0	0	1	0	0	18	0
Chaparmukh*	0830	66																									
	1730	"																									
Tangla	0830	78	1016.7	1007.9	...	18.9	16.9	15.7	17.7	81	...	1.5	...	0.2	0	0	2	0	0	2	0	0	0	0	0	29	0
	1730	"	1012.3	1003.6	...	19.9	18.0	16.7	19.1	82	...	1.7	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Gauhati	0830	55	1017.3	1010.8	−0.8	18.2	16.9	16.1	18.2	87	−2	2.7	+0.8	0.1	0	0	1	0	1	0	0	0	0	0	0	30	0
	1730	"	1013.3	1006.9	...	22.4	18.9	16.6	18.5	71	...	0.6	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Gauhati (Borjor Aerodrome)	0230	54	1014.6	1008.2	...	15.1	14.8	14.6	16.6	98	...	1.5	...	0.3	0	0	2	0	1	0	0	0	0	0	0	29	0
	0530	"	1015.0	1008.6	...	14.2	14.1	13.9	16.0	98	...	2.1	...	0.4	0	0	4	0	1	1	0	1	1	0	0	27	0

(R) Register not received.

†Observations for 22 days.

*Temporarily closed.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (oktas): Mean amount	Cloud amount (oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam including Manipur Tripura—(*Contd.*) Gauhati (Kaikuchi) Aerodrome).—*Contd.*	0830	54	1017·2	1010·8	...	19·0	17·6	16·6	18·9	86	...	2·2	...	0·6	0	0	4	0	2	1	0	0	1	0	0	27	0
	1130	,,	1014·7	1008·4	...	23·5	19·5	17·1	19·4	67	...	2·9	...	3.5	0	0	26	10	9	0	0	0	0	3	4	5	0
	1730	,,	1013·1	1006·8	...	20·3	19·0	18·2	20·9	88	...	3·3	...	0·3	0	0	2	0	0	0	0	0	0	2	0	29	0
	2330	,,	1015·2	1008·8	...	16·1	15·9	15·7	17·9	97	...	2·0	...	0·5	0	0	4	0	1	0	0	0	0	0	3	27	0
Rangiya	0830	...	...	...	...	19·9	17·6	15·9	19·4	78	...	0·9	...	4·1	0	0	22	0	9	11	1	0	0	1	0	9	0
	1730	...	...	...	...	23·3	19·2	17·1	19·7	73	...	0·6	...	0·2	0	0	2	0	0	0	0	0	1	1	0	29	0
Goalpara	0830	38	1016.5	1012·3	...	18·3	16·6	15·2	17·6	82	...	3·2	...	1·5	0	0	15	0	7	0	3	0	2	0	3	16	0
	1730	,,	1011·0	1007·2	...	25·7	20·3	17·5	19·5	62	...	0·7	...	0·7	0	0	4	0	2	0	0	0	0	2	0	27	0
Dhubri	0830	35	1017·6	1013·4	−0·4	18·4	17·1	16·1	18·2	85	+2	0·7	−0·6	0·1	0	0	1	0	0	1	0	0	0	0	0	30	0
	1730	,,	1013·4	1009·3	...	22·0	18·2	16·5	17·9	71	...	0·3	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Dhubri (Rupsi Aerodrome).	0530	36	1014·2	1009·9	...	13·6	13·2	12·9	14·9	95	...	1·5	...	0·3	0	0	2	0	1	1	0	0	0	0	0	29	0
	0830	,,	1016·4	1012·2	...	18·7	17·0	15·9	18·2	84	...	1·9	...	2·1	0	0	13	0	5	7	1	0	0	0	0	18	0
	1130	,,	1014·3	1010.1	...	24·1	19·1	15·8	18·4	59	...	1·7	...	3·4	0	0	19	0	0	11	5	0	0	2	0	12	1
	1730	,,	1012·5	1008·3	...	19·1	17·5	16·1	18·7	82	...	1·0	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Tura	0830	370	1018·8	976·0	...	16·9	14·9	13·3	15·3	79	...	4·4	...	3·9	0	0	28	0	3	17	6	1	0	1	0	3	0
	1730	,,	1014·9	972·9	...	22·1	17·9	15·4	17·2	64	...	6·2	...	3·3	0	0	27	2	1	5	4	6	5	3	0	4	0
Agartala	0230	16	1013·7	1011·8	...	14·0	13·4	13·0	14·9	93	...	1·0	...	0.4	0	0	3	1	0	1	0	1	0	0	1	28	0
	0530	,,	1014·0	1012·1	...	13·0	12.5	12·1	14·3	95	...	1·2	...	1·1	0	0	10	0	0	2	4	4	0	0	0	21	0
	0830	,,	1016·0	1014·1	...	19·5	17·2	15·7	17·9	79	...	1·6	...	1·0	0	0	9	1	2	1	2	1	0	1	1	22	0
	1130	,,	1014·1	1012·3	...	25·3	18·7	14·3	16·3	51	...	2·4	...	5.8	0	0	31	8	5	0	0	1	3	3	11	0	0
	1730	,,	1012·7	1010·8	...	21·6	18·2	16·1	18·4	71	...	2·0	...	1·7	0	0	16	5	0	0	1	2	0	4	4	15	0
	2330	,,	1014·5	1012·6	...	15·4	14·7	14·0	16·1	92	...	1·5	...	0·6	0	0	6	0	1	2	1	2	0	0	0	25	0
Kailashar	0530	29	1015·4	1011·9	...	13·3	13.1	12·7	14.8	96	...	1·6	...	0·3	0	0	3	0	1	0	2	0	0	0	0	28	0
	0830	,,	1017·3	1013.9	...	18·0	16·4	15·3	17·3	84	...	2·0	...	2·0	0	0	20	2	1	0	4	1	7	2	3	11	0
	1130	,,	1015·1	1011·8	...	25·0	19·4	15·9	18·0	57	...	4·5	...	2·9	0	0	31	8	5	0	3	1	7	4	3	0	0
	1730	,,	1013·7	1010·3	...	21·6	18·7	16·9	19·4	75	...	2·5	...	0·1	0	0	1	0	0	0	0	0	0	0	1	30	0
Silchar	0830	29	1017·0	1013·6	−0·7	18·9	16·9	15·7	17·7	82	−1	2·2	+0·2	0·3	0	0	3	0	0	1	1	1	0	0	0	28	0
	1730	,,	1013·5	1010·1	...	21·8	18·4	16·2	18·5	65	...	1·2	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Silchar (Kumbhigram Aerodrome).	0530	97	1013·7	1002·2	...	14·5	13.9	13·3	15·4	93	...	1·7	...	8·3	0	0	31	0	3	28	0	0	0	0	0	0	0
	0830	,,	1015·5	1004·2	...	18·6	16·3	14·7	16.7	78	...	1·9	...	7·3	0	0	31	0	0	28	3	0	0	0	0	0	0
	1130	,,	1013·0	1001·9	...	24·1	18·4	14·5	16·7	55	...	2·1	...	5·7	0	0	29	0	0	10	11	4	3	1	0	2	0
	1730	,,	1011·7	1000·6	...	22·5	18·3	15.4	17·6	65	...	2.0	...	1.3	0	0	10	1	0	0	1	1	4	3	0	21	0
Imphal	0530	801	1020·2	926·8	...	6·5	6·4	6·3	9·6	99	...	3·5	...	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
	0830	,,	1019·8	928·4	...	13·1	11·7	10.5	12·7	85	...	4·6	...	1·9	0	0	19	0	0	0	3	12	4	0	0	12	0
	1130	,,	1014·5	925·6	...	19.8	15·0	11·5	13.6	58	...	3·4	...	5·5	0	0	31	1	2	2	12	9	3	2	0	0	0
	1730	,,	1015·0	924·7	...	15·2	12·9	11·1	13·3	77	...	2·9	...	2·7	0	0	13	1	0	0	0	0	5	2	5	18	0
	2330	,	1018·8	926·3	...	9·4	9·1	8·7	11·3	97	...	2·2	...	0·7	0	0	4	0	0	0	0	3	1	0	0	27	0
Haflong	0830	682	1016·5	939·4	...	17·6	15.1	13·2	15·3	76	...	2·2	...	...	0	0	31	7	9	1	1	7	5	0	1	0	0
	1730	,,	1011·6	935·2	...	18·4	15·5	13·5	14·9	73	...	3·0	...	...	0	0	31	2	1	1	1	1	20	0	5	0	0
Lumding	0830	149	1017·2	999·7	...	16·5	15·1	13·7	15·9	84	−7	1·8	...	0·3	0	0	3	0	0	2	0	0	0	0	1	28	0
	1730	,,	1012.4	995·2	...	22·4	19·0	16·9	19·2	70	...	2·3	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Sub-Himalayan West Bengal Cooch Behar	0830	43	1017·2	1012·2	...	18.2	16·4	15·1	17·2	82	...	1·3	...	3·1	0	0	20	0	7	10	2	0	0	0	0	11	1
	1130	,,	1015·0	1010·1	...	24·2	18·9	15·4	17·5	58	...	1·2	...	4·4	0	1	25	0	3	7	10	0	0	1	0	5	5
	1730	,,	1013·2	1008·3	...	20·3	17·8	16·0	18·3	76	...	1·9	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jalpaiguri	0830	83	1017·2	1007·5	−0·6	16·3	15·3	14·6	16·5	91	+7	0·5	−0·5	2·7	0	0	18	5	2	1	0	0	0	2	8	13	0
	1730	,,	1012·9	1003·4	...	22·7	18·2	15·2	17·4	63	...	0·8	...	1·1	0	0	10	0	0	0	0	1	8	1	0	21	0
Bagdogra	0230	131	1014·1	999.0	...	14·4	13·5	12·7	14·7	90	...	0·8	...	2·5	0	0	22	19	1	0	0	0	0	2	0	9	0
	0530	,,	1015·1	999·4	...	11·8	11·5	11·1	13·4	97	...	0·8	...	2·7	0	0	24	20	1	0	0	0	1	1	0	7	1
	0830	,,	1017·1	1001·8	...	18·5	16·2	14·6	16·6	78	...	1·5	...	2·3	0	0	19	3	4	3	2	0	4	2	1	12	0
	1130	,,	1014·7	999·8	...	24.8	18·7	14·4	16·7	53	...	2·0	...	5·7	0	0	30	0	1	3	5	7	11	3	0	1	0
	1730	,,	1013·0	997·8	...	19·1	17·2	15·8	18·0	81	...	3·6	...	2·4	0	0	19	2	0	0	0	0	5	12	0	12	0
	2330	,,	1015·1	999·7	...	16·1	14.8	13·6	15·9	86	...	1·8	...	3·5	0	0	25	21	0	0	0	0	0	3	1	6	0
Malda	0830	31	1017·5	1013·8	−0.6	18·6	14·9	12·1	14·1	65	−8	1·6	+1·0	7·0	0	0	27	5	2	1	0	0	0	6	13	4	0
	1730	,,	1013·5	1009·9	...	21·9	17·3	14·1	15·9	61	...	1·4	...	3·3	0	0	22	4	0	0	0	0	0	3	15	9	0
Gangetic West Bengal Dum Dum	0230	6	1014·3	1013.5	...	13·8	13.1	12·4	14·5	91	...	1.4	...	0·6	0	0	6	2	1	0	0	0	0	2	1	25	0
	0530	,,	1014·9	1014·1	...	13·0	12·4	11·9	14·0	93	...	1·5	...	1·1	0	0	11	3	1	0	0	0	0	1	6	20	0
	0830	,,	1017·1	1016·3	...	18·4	15.4	12·9	15·0	71	...	1·8	...	3·0	0	0	26	10	4	0	2	0	0	1	9	5	0
	1130	,,	1015·4	1014·6	...	24.9	17·2	11·2	13·3	43	...	1·7	...	4·4	0	0	30	11	5	0	0	0	0	3	11	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal—(Contd.)																											
Dum Dum—(Contd.)	1730	6	1013·5	1012·7	..	21·8	17·2	13·9	16·1	61	...	2·5	...	0·2	0	0	2	1	0	0	0	1	0	0	0	29	0
	2330	,,	1014·9	1014·1	...	15·1	14·1	13·2	15·3	88	...	1·5	...	0·6	0	0	4	1	0	0	0	0	1	1	1	27	0
Calcutta	0830	6	1016·9	1016·2	−0·7	18·9	15·2	12·2	14·0	66	−11	1·7	+0·3	3·6	0	0	26	9	3	0	0	1	0	3	10	5	0
	1130	,,	1015·1	1014·4	...	25·6	17·4	11·4	13·5	40	..	2·1	...	7·0	0	0	81	8	5	0	0	0	1	3	14	0	0
	1730	,,	1013·3	1012·6	...	22·4	17·1	13·1	15·2	56	...	2·3	..	1·2	0	0	12	2	0	0	0	0	2	3	5	19	0
Barrackpore (Aerodrome)	0530	7	1015·4	1014·6	...	13·3	12.4	11·3	13·6	89	...	1.1	...	2·3	0	0	12	3	0	1	0	0	1	3	4	19	0
	0830	,,	1016·9	1016.1	...	18·5	15·5	13·2	15·1	72	...	1.9	...	5·5	0	0	23	8	2	0	0	0	0	1	12	8	0
	1130	,,	1015.7	1014.9	...	24·3	17·8	13·1	15·3	50	...	2·0	...	9·7	0	0	30	8	1	0	0	0	1	5	15	1	0
	1730	,,	1013.9	1013·1	...	21·1	17·3	14·1	16·6	67	...	2·5	...	1·1	0	0	6	2	0	0	0	0	1	1	2	25	0
	2330	,,	1015·5	1014·7	...	18·0	15·9	14·2	16·5	79	...	1·3	...	0·4	0	0	2	0	0	0	0	1	0	0	1	29	0
Saugor Island	0830	3	1016·4	1016·1	−0·9	21·0	17·9	15·7	18·1	72	−5	2·5	+0·6	13.2	0	3	28	14	9	0	1	0	0	1	6	0	0
	1730	,,	1013·0	1012·7	...	23·0	18·9	16·5	18·4	66	...	3·3	...	7·7	0	0	27	5	7	0	0	5	8	1	1	4	0
Sandheads	0530	...	...	...	...	23·3	19·0	16·2	18·4	65	...	2·4	...	9·7	0	1	26	16	3	0	0	0	1	2	5	4	0
	0830	...	...	...	...	24·1	19·6	16·7	19·2	64	+6	2·3	+0·5	7·5	0	1	27	17	7	0	0	0	0	1	3	3	0
	1130	...	...	...	...	25·3	19·8	16·5	18·6	59	...	2·3	...	8·1	0	1	27	20	2	0	0	0	0	0	6	3	0
	1730	...	...	...	...	24·5	19·0	15·4	17·5	57	...	2·7	...	6·3	0	0	24	9	2	1	0	0	0	2	10	7	0
	2330	...	...	...	...	23·7	19·3	16·3	18·6	64	...	1·6	...	5·1	0	0	23	8	3	2	1	0	3	0	6	8	0
Contai	0830	11	1016·9	1015.6	...	20·2	15·7	12·1	14·1	60	...	1.3	...	2·8	0	0	27	19	4	0	0	0	0	0	4	4	0
	1730	,,	1013·3	1012.1	...	23·3	17·7	13·6	15·8	55	...	1·3	...	0.9	0	0	9	0	1	1	2	3	2	0	0	22	0
Midnapore	0830	45	1017·4	1012·0	−0.4	20·5	15·0	10·3	12·6	52	−11	1·4	+0·1	2·4	0	0	22	13	8	0	0	0	0	0	1	9	0
	1730	,,	1013·1	1007.9	...	25·5	16·8	9·6	12·0	37	...	1·3	...	1·3	0	0	12	5	5	0	0	0	1	0	1	19	0
Purulia	0830	255	1018.3	988.6	...	17·2	12·9	8·9	11.5	58	...	2.2	...	3·1	0	0	28	2	0	0	0	0	0	11	15	3	0
	1730	,,	1013·9	985.0	...	22·9	15.8	10·3	12.0	45	...	2·3	...	0·9	0	0	8	1	0	0	1	0	0	1	5	23	0
Burdwan	0830	32	1017·5	1013·6	−0·5	17·8	14.7	12.0	14.0	69	+1	1·8	+0·4	3·8	0	0	19	1	1	0	0	0	1	0	16	12	0
	1730	,,	1013·2	1009·4	...	22.6	18·9	6·7	19·0	70	...	1·2	...	0·4	0	0	3	0	0	0	1	0	0	0	2	28	0
Krishnagar	0830	15	1017.4	1015·7	−0·4	19·1	15·3	12·4	14·2	66	−8	0·7	−0·6	0·4	0	0	4	1	2	0	0	0	0	0	1	27	0
	1730	,,	1013·4	1011·7	...	22·1	16·9	13·4	15·0	57	...	0·8	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Asansol	0230	126	1015·2	1000·3	...	14·5	13·2	12·5	13·2	87	...	1·2	...	2·0	0	0	9	4	0	0	0	0	0	2	3	22	0
	0530	,,	1015·7	1000·7	...	13·3	12·6	11·9	14·0	91	...	1·4	...	3·9	0	0	17	3	0	0	0	0	0	7	7	14	0
	0830	,,	1017·8	1003·0	−0·1	17·8	15.1	13·1	14·9	74	+7	1·9	+0·5	7·7	0	0	28	3	0	0	0	0	0	9	16	3	0
	1130	,,	1015·9	1001·4	...	24·6	19·0	15·5	17·5	57	...	2·0	...	10·2	0	1	29	4	1	0	0	0	0	7	18	1	0
	1730	,,	1013·6	999·1	...	22·8	17·8	14·5	16·3	60	...	2·2	...	3·6	0	0	16	1	0	0	0	0	0	5	10	15	0
	2330	,,	1015·7	1001·0	...	16·3	14·	12·7	14·7	79	...	1·5	...	2·6	0	0	11	4	0	0	0	1	0	2	4	20	0
Suri	0830	77	1017·7	1008·7	...	17·9	13·6	9·7	12·1	59	...	2·1	...	5·5	0	0	30	3	1	0	0	0	1	11	14	1	0
	1730	,,	1013·9	1005·0	...	23·0	15·9	9·9	12·4	44	...	2·6	...	2·6	0	0	21	3	1	0	1	0	2	6	8	10	0
Berhampore	0830	19	1016·9	1014·8	−0·9	17·4	14·5	12·1	14·1	71	−5	1·0	−0·4	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1013·1	1011·0	...	23·1	17·4	14·0	16·1	60	...	0·6	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Orissa																											
Baripada	0830	54	1018·4	1012·1	...	19·5	14·5	10·3	12.5	56	..	2·3	...	1·5	0	0	15	9	2	0	0	0	0	0	4	16	0
	1730	,,	1013·8	1007·9	...	23·2	16·9	11·9	14·1	49	...	1·7	...	0.2	0	0	2	1	1	0	0	0	0	0	0	29	0
Balasore	0830	20	1016·9	1014·7	−0·8	19·1	15.0	11·6	13·8	62	−8	3·6	+2·1	2·4	0	0	24	15	3	0	0	0	1	0	5	7	0
	1730	,,	1013·5	1011·2	...	23·0	17·7	13·8	16·0	57	...	3·2	...	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
Chandbali	0830	6	1016·3	1015.6	−0·9	20·1	17·5	15·7	18·0	76	+1	2·5	+0·8	2·5	0	0	21	9	3	0	3	0	0	0	6	10	0
	1730	,,	1013·5	1012·8	...	24·2	18·5	14·7	16·4	56	...	3·4	..	2·2	0	0	16	0	1	7	7	1	0	0	0	15	0
Cuttack	0830	27	1016·9	1013·8	−0·9	19·0	17·2	15·8	18·8	80	+5	2·5	+0.7	0·2	0	0	1	0	1	0	0	0	0	0	0	30	0
	1730	,,	1013·1	1010·1	...	26·2	19·9	16·0	18·3	54	...	2·4	...	0·3	0	0	2	0	0	1	0	0	1	0	0	29	0
Bhubaneswar	0230	46	1014·4	1009·0	...	18·3	16·5	15·2	17·3	82	...	2·0	...	5·8	0	0	25	10	2	0	0	0	0	3	10	6	0
	0530	,,	1014·9	1009·5	...	17·6	15·9	14·4	16·7	79	..	2·6	...	7·2	0	0	29	12	5	1	0	1	0	1	9	2	0
	0830	,,	1017·1	1011·7	...	21·5	17·6	14·7	17·0	66	...	2·9	...	6·0	0	1	28	14	6	0	0	0	0	0	9	2	0
	1130	,,	1015·7	1010·4	...	26·4	18·4	12·3	14·6	43	...	2·7	...	8·2	0	0	30	10	9	2	0	1	1	1	4	1	2
	1730	,,	1013·7	1008·5	...	24.8	18·3	13·4	15·8	51	...	4·0	..	5.6	0	0	28	7	2	4	4	0	0	1	10	3	0
	2330	,,	1015·4	1009·9	...	19·9	17·3	15·5	17·5	77	...	2·5	...	4·5	0	0	24	5	2	5	0	2	2	6	2	7	0
Puri	0830	6	1016·9	1016·2	−0·3	22·3	18·5	15·9	18·2	68	−4	3·5	+2·1	11·3	0	0	31	14	10	1	2	0	0	2	2	0	0
	1730	,,	1013·2	1012·5	...	24·6	20·1	17·2	20·0	64	...	6·5	...	10.1	0	0	31	2	11	1	4	6	3	4	0	0	0
Gopalpore	0530	17	1014·9	1012·9	...	18·5	16·9	15·7	17·9	85	...	3·3	...	7.3	0	0	30	14	0	0	0	0	0	1	15	1	0
	0830	,,	1017·2	1015·2	−0·1	21·1	18·4	16·6	18·9	76	+4	3·3	+1·9	9·1	0	0	29	15	0	0	0	0	0	1	13	2	0
	1130	,,	1016·0	1014.0	...	26·5	20·0	15·8	18·1	54	...	3·4	...	8·2	0	0	31	13	3	6	4	0	0	1	4	0	0
	1730	,,	1013·7	1011·8	...	24·5	20·2	17·5	20·3	66	...	3·7	...	7·3	0	0	30	2	2	11	14	1	0	0	0	1	0
	2330	,,	1015·2	1013.2	...	20·7	18·8	17·5	20·1	82	...	2.8	...	5·2	0	1	29	11	0	0	1	1	0	3	14	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Okras): Mean amount	Cloud amount (Okras): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Koraput	0830	913	1556·7	916·3	...	19·7	15·0	11·2	13·6	60	...	1·6	...	3.5	0	0	31	2	0	5	9	3	12	0	0	0	0
	1730	,,	1537·1	913.8	...	21·3	14·4	8·5	11·3	47	...	2·6	...	4·5	0	0	31	24	0	1	1	2	0	0	3	0	0
Titlagarh	0830	211	1017.4	993·2	...	20·8	17·5	15·1	17·3	71	...	1 5	...	2·8	0	0	29	0	24	0	5	0	0	0	0	2	0
	1730	,,	1013·9	990·1	...	26·2	19·8	14·7	17·9	54	...	1·2	...	3·0	0	0	31	0	25	0	6	0	0	0	0	0	0
Bolangir	0830	190	1015.8	993.9	...	21·4	17·3	13·9	16.3	64	...	2·6	...	..	..	..	..	8	5	3	3	3	2	1	4	0	2
	1730	,,	1013·9	992.0	...	25·5	18·7	13·7	15·9	49	...	2·9	...	..	..	..	..	15	9	0	1	0	1	0	5	0	0
Phulbani	0830	464	1015·4	962·1	...	16·0	13·9	12·1	14.3	78	...	1·8	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1011·0	959 2	...	23.2	19·4	16·9	19·3	69	...	1·7	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Angul	0830	139	1017·6	1001·1	−0.3	18·2	15·5	13·4	15·4	74	+2	3·2	+1.6	3·7	0	0	28	0	1	1	2	0	2	4	18	3	0
	1730	,,	1013.5	997·8	...	25·6	18·1	12·6	14·7	48	...	2·5	...	3·2	0	0	26	1	7	5	1	4	1	1	6	5	0
Keonjhar	0830	463	1014·7	962·1	...	19·6	14·4	10.1	12·7	56	...	2·2	...	2 6	0	0	23	4	3	2	0	0	0	4	10	8	0
	1730	,,	1011·1	959·3	...	22·9	15·9	10·4	13·0	46	...	3·4	...	2·8	0	0	27	3	2	3	0	1	6	5	7	4	0
Sambalpur	0830	148	1017·5	1000·4	−0.4	20·4	16·2	13·0	15·1	63	−10	2·4	+1.0	0 9	0	0	9	4	5	0	0	0	0	0	0	22	0
	1730	,,	1013·2	996·4	...	25·2	18·2	12·4	15·2	46	...	3 0	...	0 4	0	0	4	1	0	0	0	1	0	0	2	27	0
Jharsuguda	0230	230	1015.2	988·2	...	14·4	13·1	11·9	13·9	86	...	2·9	.	2·4	0	0	22	16	4	0	1	1	0	0	0	9	0
	0530	,,	1015·9	988·7	...	13·3	12·3	11·4	13·4	89	...	3 1	...	3.5	0	0	26	17	5	0	2	0	0	0	2	5	0
	0830	,,	1017.9	991.0	...	17·3	14·1	11·0	13·6	68	...	3·8	...	4 5	0	0	26	11	15	0	0	0	0	0	0	5	0
	1130	,,	1015·8	989·7	..	24·3	17.9	10·7	13·3	42	...	3·6	...	4·8	0	0	28	8	10	3	1	2	2	0	2	3	0
	1730	,,	1013·4	987·2	...	23·6	17·2	12·1	14·4	49	..	4·1	...	3 9	0	0	26	2	6	3	0	5	9	1	0	5	0
	2330	,,	1015·6	988.8	...	16·8	14·6	12.8	14·7	78	...	2·8	...	3.2	0	0	21	7	6	1	4	1	1	0	1	10	0
Bihar Plateau																											
Jamshedpur	0830	129	1018·0	1002 8	−0·1	15·6	13·1	11·1	13·0	74	−.1	1·7	+0·1	2·6	0	0	23	1	0	0	0	0	3	12	7	8	0
	1730	,,	1013·4	998·6	...	22·9	17·1	12·6	14·7	53	...	2·3	...	0·6	0	0	6	0	0	0	0	2	0	2	2	25	0
Jamshedpur (F. B. O.)	0530	142	1016 1	999·2	...	12·1	11·1	10·1	12·3	88	...	1·5	...	3.7	0	0	24	0	0	0	0	1	2	7	14	7	0
	0830	,,	1018·2	1001·5	...	16 2	13·0	9·9	12·5	67	...	2.2	...	4·7	0	0	25	0	0	0	0	0	3	18	4	6	0
	1130	,,	1016·1	999.9	...	23·5	15·5	8.3	11·2	38	...	2·3	...	6·7	0	0	29	1	1	0	0	0	5	13	9	2	0
	1730	,,	1013·7	997·5	...	23.6	16.4	10·6	12.8	44	...	2·8	...	2·0	0	0	16	1	1	0	1	0	0	6	7	15	0
	2330	,,	1016·0	999·3	...	15·1	13·4	11·9	14·1	82	...	1·7	...	3·1	0	0	19	2	2	0	1	0	2	3	9	12	0
Chaibasa	0830	226	1017 8	991.3	−0·3	17·1	13·5	10·7	12.6	65	−.11	2·4	+0·9	0·6	0	0	6	0	0	0	0	0	5	1	0	25	0
	1730	,,	1013·3	987·2	...	23·0	16·0	10.2	12·5	45	...	2 9	...	0.2	0	0	2	0	0	0	0	0	2	0	0	29	0
Ranchi	0830	655	1015·8	941·8	−1·1	18.0	12.7	8·1	10.1	51	−7	(b) 1·3	−0·1	(a) 1·6	0	0	12	5	0	2	0	0	0	0	5	17	0
	1730	,,	1013.8	940.5	...	20 4	13.1	6·7	9·8	41	...	(a) 1·3	...	(a) 0·3	0	0	3	0	0	0	0	0	0	0	3	27	0
Ranchi (C W. O.)	0530	652	1017·0	941·7	...	11·6	8·5	5·5	9·0	66	...	2·6	...	2.3	0	0	20	4	1	0	0	0	2	4	8	11	1
	0830	,,	1017·5	943·3	...	16·8	11.0	5·4	9·0	47	...	2·7	...	5·3	0	0	27	9	0	0	0	0	0	2	8	4	6
	1130	,,	1015·0	942·4	–	22·0	12·7	4·0	8·1	30	...	3·0	...	7 8	0	0	29	6	2	0	1	0	0	2	12	2	8
	1730	,,	1013·4	940·6	...	21·3	12·6	4 2	8·2	33	...	(h) 3·7	...	(h) 7·5	0	0	23	6	0	1	0	1	0	1	13	0	1
Daltonganj	0830	221	1018·5	992·6	−0·2	16·6	13·1	10·0	12·3	65	−14	2·4	+1·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	,,	1013.8	988 5	...	22·0	16·5	12·2	14·3	55	...	2·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hazaribagh	0830	611	1017·7	946·7	−1·2	16·1	11.6	6·5	10·3	51	−10	1·9	+0·6	4·2	0	0	22	3	0	0	0	0	1	2	16	9	0
	1730	,,	1014·1	945 1	...	19·3	13·0	7·5	10·4	47	...	2.2	...	5.8	0	0	26	4	0	0	0	1	0	0	21	5	0
Dhanbad	0830	257	1017·6	987·8	..	18·8	13·0	7·4	10.3	48	...	1 9	...	2·5	0	0	22	3	0	0	0	0	3	6	10	9	0
	1730	,,	1013·4	984·0	...	22·3	15·2	8·3	11 4	41	...	1·2	...	1·6	0	0	15	3	0	0	1	0	0	4	7	16	0
Dumka	0830	149	1017·5	1000 0	−0.6	16·2	12·9	9·8	12·3	66	0	0·7	−0·2	0·7	0	0	6	1	0	1	0	0	0	2	2	25	0
	1730	,,	1013·6	996·4	...	21.7	15·7	11·0	12·9	52	...	0·8	...	0·5	0	0	4	0	0	1	0	0	1	2	0	27	0
Bihar Plains																											
Purnea	0830	38	1017.8	1013·3	−0.4	16·7	14·5	12·7	14·8	78	−7	1·2	+0·3	1·5	0	0	16	0	0	0	0	1	6	8	1	15	0
	1730	,,	1013·6	1009·2	...	19·5	16·9	15·1	17·3	76	...	0·5	...	0	0	0	0	.	0	0	0	0	0	0	0	31	0
Forbesganj	0830	61	1016·9	1009.7	...	16·2	14.7	13.4	15.6	84	...	1.0	...	2·0	0	0	20	0	3	2	0	0	0	9	6	11	0
	1730	,,	1012.8	1005.8	...	21·6	17.5	15.0	16.7	67	...	1.1	...	1·3	0	0	13	(	0	0	0	0	0	13	0	18	0
Darbhanga	0830	49	1017·7	1011·9	−0·4	18·7	15·3	12·4	14 8	68	−15	1·4	+0·5	3·0	0	0	30	0	1	2	1	0	6	8	12	1	0
	1730	,,	1014·1	1008·3	...	20·6	17·1	14·4	16·4	67	...	1·0	...	1·2	0	0	12	0	0	1	0	0	1	4	6	19	0
Motihari	0830	66	1017·3	1 09·5	−0.6	17·5	15·1	13·0	15·1	75	−5	0 5	−0.7	0·1	0	0	1	0	0	0	0	0	0	0	1	30	0
	1730	,,	1013·0	1005·3	...	20·8	17·2	14·7	16·7	68	...	0·2	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Chapra	0830	...	...	...	...	15·2	12·4	9·7	12·1	70	...	0·8	...	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
	1730	...	...	...	...	21·6	16 4	12·4	15·[illegible]	56	...	0·5	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Patna	0830	53	1017·7	1011·4	−0.7	15·9	12·7	9·8	12·1	67	−3	1·5	+0·5	7·6	0	0	29	0	0	0	0	2	16	9	2	2	0
	1730	,,	1013·8	1007·7	...	21·2	15·5	11.1	13·3	53	...	0·9	...	4.1	0	0	26	0	0	0	0	0	3	21	2	5	0
Patna (Aerodrome)	0530	60	1015·1	1007·9	...	10·5	9·7	8·9	11·4	90	...	0·3	...	1·0	0	0	7	0	0	0	0	1	2	3	1	24	0
	0830	,,	1017·3	1010·2	...	15·3	12·4	9·6	12·2	70	...	1·7	...	6·9	0	0	26	0	0	0	1	0	6	16	1	5	2
	1130	,,	1015·9	1009·0	...	22·4	15·5	9·8	12·1	45	...	2·0	...	6.1	0	0	22	1	0	0	1	0	1	7	12	9	0

(a) Mean of 30 days (b) Meanof 29 days (h) Mean of 23 days

Division and station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean windspeed, in km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*)																											
Patna (Aerodrome)—*contd.*	1730	60	1013·3	1006·4	...	20·5	15·5	11·5	13·5	56	...	1·4	...	0·5	0	0	4	0	0	0	0	0	0	2	2	27	0
	2330	52	1015·6	1009·4	...	14·7	12·3	10·3	12·5	76	...	0·5	...	0·8	0	0	4	1	0	0	0	0	0	0	3	27	0
Dheri	0830	107	1018·2	1005·5	...	16·1	13·5	11·2	13·4	74	...	2·3	...	2·9	0	0	30	0	0	0	2	11	15	1	1	1	0
	1730	,,	1014·4	1002·1	...	23·2	16·6	11·2	13·5	48	...	2·3	...	2·6	0	0	27	5	3	1	0	0	1	10	7	4	0
Gaya	0230	116	1016·1	1002·2	...	11·5	10·0	8·1	11·0	81	...	0·6	...	4·0	0	0	27	0	0	0	6	15	6	0	0	4	0
	0530	,,	1016·5	1002·5	...	10·1	9·1	7·7	10·8	85	...	0·6	...	5·6	0	0	31	0	0	0	8	17	6	0	0	0	0
	0830	,,	1018·4	1004·6	+0·4	15·6	12·6	9·9	12·1	69	+	2·0	+1·0	4·0	0	0	25	0	0	0	1	10	13	1	0	6	0
	1130	,,	1017·1	1003·7	...	23·4	16·4	10·8	13·1	45	...	2·2	...	10·1	0	2	27	0	1	0	2	0	3	10	13	2	0
	1730	,,	1014·4	1000·9	...	21·9	15·7	10·5	12·8	48	...	2·2	...	5·5	0	0	26	4	2	0	0	0	0	7	13	5	0
	2330	,,	1016·5	1002·6	...	13·7	11·2	8·6	11·3	72	...	0·5	..	4·7	0	0	29	0	0	1	5	12	7	3	1	2	0
Jamui	0830	82	1017·4	1007·5	...	14·3	13·0	11·6	13·9	85	...	0·8	...	1·7	0	0	17	1	2	0	1	1	0	12	0	14	0
	1730	,,	1013·7	1004·0	...	21·9	18·3	15·9	18·1	69	...	1·4	...	1·5	0	0	13	0	0	0	0	0	0	13	0	13	0
Bhagalpur	0530	49	1015·7	1009·9	...	13·4	11·6	9·7	12·3	80	...	1·5	...	3·9	0	0	19	0	0	0	0	7	9	3	0	12	0
	0830	,,	1018·1	1012·3	...	15·8	12·9	10·2	12·6	70	...	2·1	...	3·7	0	0	20	0	0	1	0	1	6	12	0	11	0
	1130	,,	1016·5	1010·8	...	21·5	16·1	11·5	14·0	54	...	2·1	...	7·2	0	0	30	2	0	2	0	0	1	17	7	1	1
	1730	,,	1014·1	1008·5	...	20·5	15·8	11·9	14·1	59	..	2·1	...	6·1	0	0	26	0	0	1	0	0	5	18	2	5	0
	2330	,,	1015·9	1010·1	...	16·2	13·5	11·2	13·4	73	...	1·2	...	4·1	0	0	23	0	0	1	1	3	11	7	0	8	0
Sabour	0830	37	1017·6	1013·1	−0·4	15·0	13·0	11·1	13·4	79	−3	1·9	+0·6	1·8	0	0	17	0	0	1	0	0	12	3	1	14	0
	1730	,,	1013·4	1009·1	...	20·2	17·2	14·6	17·1	71	...	2·0	...	1·3	0	0	12	0	0	0	0	0	0	4	8	19	0
Uttar Pradesh (East)																											
Gonda	0830	110	1017·7	1004·7	...	13·9	11·9	9·9	12·2	77	−5	1·5	0	2·4	0	0	21	0	1	1	0	0	0	8	11	10	0
	1730	,,	1013·9	1001·3	...	19·4	15·4	12·1	14·1	63	...	1·2	...	0·6	0	0	6	0	0	0	0	0	0	4	2	25	0
Nautanwa	0830	99	1017·1	1004·7	...	13·3	12·2	11·3	13·4	86	...	0·5	...	1·4	0	0	9	2	1	1	0	3	1	1	0	22	0
	1730	,,	1012·8	1001·5	...	22·0	17·2	13·7	15·7	59	...	0·5	...	2·1	0	0	12	0	0	0	1	2	3	4	2	19	0
Gorakhpur	0830	77	1017·3	1008·0	−0·7	18·8	14·3	10·5	12·7	58	−20	0·7	−0·2	3·0	0	0	31	3	4	1	0	1	5	13	4	0	0
	1730	,,	1013·2	1004·1	...	23·4	16·7	11·8	13·8	50	...	0·7	...	3·0	0	0	31	1	1	1	0	4	13	6	5	0	0
Gorakhpur (P.B.O.)	0230	78	1014·9	1005·6	...	14·6	12·5	10·8	12·9	79	...	0·5	...	2·0	0	0	17	4	0	0	0	2	6	4	1	14	0
	0530	,,	1015·1	1005·7	...	13·4	11·6	10·2	12·4	81	...	0·7	...	1·1	0	0	9	1	0	0	0	0	4	3	1	22	0
	1130	,,	1016·5	1007·4	...	21·1	16·0	12·7	14·7	59	...	1·4	...	4·9	0	0	30	1	2	1	1	11	5	4	5	1	0
	2330	,,	1015·2	1005·9	...	16·1	13·7	12·0	14·0	77	...	0·4	...	2·0	0	0	18	1	1	0	0	1	6	7	2	13	0
Azamgarh	0830	78	1017·5	1008·2	...	13·3	11·5	10·3	12·4	82	...	1·3	...	2·8	0	0	26	1	0	4	0	0	0	21	0	5	0
	1730	,,	1013·8	1004·8	...	20·6	17·1	14·8	16·8	70	...	1·0	...	0·9	0	0	9	0	0	3	0	0	0	6	0	22	0
Ballia	0830	64	1017·9	1010·3	...	16·7	12·8	9·1	11·5	60	...	0·8	...	1·6	0	0	16	0	0	0	0	0	1	10	5	15	0
	1730	,,	1014·1	1006·8	...	23·0	17·7	13·7	15·7	57	...	1·2	...	0·6	0	0	5	0	0	0	0	0	0	3	2	26	0
Varanasi (Banaras)	0830	76	1017·9	1008·8	−0·5	15·0	12·2	9·5	11·9	71	−5	1·7	+0·6	4·4	0	0	30	0	0	0	1	8	12	9	0	1	0
	1730	,,	1014·4	1005·5	...	21·7	15·9	11·3	13·4	52	...	2·1	...	3·4	0	0	31	2	2	0	0	2	18	6	0	0	1
Varanasi (Banaras) (Babatpur Aerodrome).	0530	85	1017·3	1006·9	...	9·7	8·8	7·8	10·6	87	...	1·0	...	2·3	0	0	16	0	0	0	1	1	13	1	0	15	0
	0830	,,	1019·1	1008·9	...	14·9	12·2	9·6	11·9	70	...	1·8	...	6·5	0	0	29	0	0	2	0	0	22	5	0	2	0
	1130	,,	1018·2	1008·2	...	22·5	15·3	8·9	11·4	42	...	1·8	...	9·1	0	0	30	1	0	1	1	2	8	13	3	1	1
	1730	,,	1015·5	1005·6	...	21·0	15·3	10·5	12·7	51	...	2·0	...	4·5	0	0	28	1	2	0	0	0	11	10	4	3	0
	2330	,,	1017·2	1006·9	...	12·7	11·0	9·3	11·7	80	...	0·6	...	2·9	0	0	16	0	0	0	0	1	7	6	2	15	0
Allahabad (Bamrauli)	0230	98	1015·8	1004·1	...	11·3	9·9	8·4	11·0	83	...	0·8	...	1·5	0	0	14	0	1	0	0	5	3	3	2	17	0
	0530	,,	1016·1	1004·3	...	10·1	9·1	8·0	10·7	87	...	0·9	...	1·1	0	0	11	1	0	0	0	1	5	4	0	20	0
	0830	,,	1018·2	1006·5	−0·4	14·3	11·5	8·7	11·2	69	−8	2·7	+1·2	2·5	0	0	21	1	0	1	0	2	8	8	1	10	0
	1130	,,	1017·4	1006·1	...	23·2	14·8	7·0	10·0	35	...	2·1	...	5·0	0	0	27	3	1	3	1	0	5	8	6	4	0
	1730	,,	1014·5	1003·2	...	21·5	15·6	10·7	12·9	50	...	2·5	...	0·7	0	0	6	0	1	1	0	0	0	2	2	25	0
	2330	,,	1016·2	1004·5	...	13·3	11·3	9·4	11·8	78	...	0·5	...	1·6	0	0	12	1	0	0	1	0	4	5	1	19	0
Sultanpur	0830	97	1017·5	1006·2	...	18·2	13·1	7·9	10·7	53	...	1·8	...	1·5	0	0	16	0	0	3	1	0	2	9	1	15	0
	1730	,,	1011·5	1000·4	...	21·6	14·8	8·1	10·8	43	...	(a) 0·4	...	(a) 0·2	0	0	2	0	0	0	0	0	0	2	0	28	0
Faizabad	0830	102	1017·8	1005·6	...	13·1	10·8	8·7	11·2	77	...	1·6	...	2·5	0	0	22	1	1	0	1	0	0	16	3	9	0
	1730	,,	1014·1	1002·2	...	18·8	15·1	12·1	14·1	66	...	2·0	...	0·6	0	0	6	0	1	0	0	0	1	4	0	25	0
Tanda	0830	121	1018·7	1004·3	...	15·6	13·5	11·7	13·7	78	...	1·9	...	1·0	0	0	9	0	0	0	2	0	5	0	2	22	0
	1730	,,	1014·6	1000·6	...	22·0	17·9	15·1	17·1	65	...	2·0	...	0·2	0	0	2	0	1	0	0	0	0	1	0	29	0
Fatehpur	0830	114	1018·4	1004·8	...	12·9	10·9	9·0	11·5	77	+8	1·7	+0·3	1·8	0	0	17	0	0	1	1	0	6	7	2	14	0
	1730	,,	1014·6	1001·3	...	20·5	15·7	11·9	13·9	58	...	1·8	...	0·4	0	0	3	1	0	0	0	0	0	1	1	28	0
Kanpur	0830	126	1018·7	1003·6	+0·2	10·1	8·9	7·5	10·4	84	+7	1·7	+1·0	3·1	0	0	31	1	0	3	0	1	2	23	1	0	0
	1730	,,	1015·4	1000·9	...	22·1	15·2	9·0	11·5	44	...	1·5	...	3·3	0	0	31	8	1	0	1	0	2	18	1	0	0
Kanpur (Aerodrome).	0530	126	1016·1	1000·9	...	9·3	8·0	6·5	9·7	83	...	0·7	...	...	0	0	13	1	0	1	0	0	0	11	0	18	0
	0830	,,	1017·9	1002·6	...	12·9	10·3	7·5	10·4	71	...	2·1	...	...	0	0	18	0	1	1	1	0	2	11	2	13	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—*Contd.*																											
Kanpur (Aerodrome)—(*contd.*)	1130	126	1017·4	1002·9	...	22·1	14·5	7·1	10·1	39	...	2·2	...	...	0	0	27	4	3	0	2	0	0	10	8	4	0
	1730	"	1014·4	999·9	...	21·2	14·7	8·7	11·2	45	...	2·0	...	...	0	0	12	1	0	1	0	0	0	7	3	19	0
	2330	"	1016·2	1001·2	...	12·9	10·5	8·1	10·8	73	0	0·8	...	...	0	0	10	0	3	0	0	0	0	7	0	21	0
Lucknow	0830	"	...	...	...	12·1	10·1	8·1	10·8	77	...	1·7	+0·7	1·9	0	0	19	1	0	0	1	2	0	13	2	12	0
	1730	"	...	...	...	20·7	15·0	10·1	12·3	51	...	1·9	...	1·5	0	0	16	2	0	0	0	0	0	11	3	15	0
Lucknow (Amausi Aerodrome).	0230	128	1015·8	1000·4	...	10·0	8·9	7·7	10·5	86	...	0·9	...	0·7	0	0	27	2	1	2	0	0	2	15	5	4	0
	0530	"	1015·8	1000·3	...	8·7	8·0	7·1	10·1	90	...	0·9	...	6·4	0	0	28	0	2	1	0	0	5	17	3	3	0
	0830	"	1017·7	1002·5	−0·6	12·6	10·7	8·6	11·2	77	+9	2·1	+1·1	6·6	0	1	22	0	0	2	0	0	3	12	6	8	0
	1130	"	1017·2	1002·4	...	21·6	14·8	8·8	11·3	45	...	2·3	...	11·7	0	1	30	1	1	1	1	0	2	10	15	0	0
	1730	"	1014·3	999·5	...	19·7	14·9	10·6	12·8	57	...	2·5	...	8·3	0	0	30	3	0	2	0	2	3	15	5	1	0
	2330	"	1016·0	1000·8	...	11·6	10·2	8·9	11·4	83	...	1·1	...	7·9	0	0	27	1	0	1	1	0	9	12	3	4	0
Hardoi	0830	142	1017·9	1000·8	...	11·6	9·9	8·0	10·7	79	...	2·1	...	3·8	0	0	19	2	0	1	0	0	1	15	0	12	0
	1730	"	1014·2	997·7	...	20·4	15·6	11·7	13·7	58	...	2·3	...	1·2	0	0	6	1	0	0	0	0	1	4	0	25	0
Lakhimpur Kheri	0830	147	1017·4	999·8	...	11·6	10·3	9·0	11·5	84	...	1·2	...	0·8	0	0	7	0	1	1	0	0	0	5	0	24	0
	1730	"	1013·9	996·9	...	19·7	15·5	12·1	14·1	62	...	2·3	...	0·5	0	0	4	0	0	1	0	0	1	2	0	27	0
Bahraich	0830	124	1018·1	1003·4	+0·5	14·3	11·8	9·5	11·9	74	−6	2·4	+1·4	3·3	0	0	24	1	0	2	0	0	1	16	4	7	0
	1730	"	1014·3	999·6	...	19·3	15·0	11·4	13·5	61	...	2·4	...	3·0	0	0	24	0	0	1	0	0	1	23	0	6	0
Uttar Pradesh (West)																											
Orai	0830	141	1020·1	1003·5	...	17·4	13·0	8·6	11·2	57	...	1·5	...	2·6	0	0	26	0	2	0	1	0	5	1	17	5	0
	1730	"	1015·4	999·1	...	22·9	16·1	10·3	12·5	47	...	0·6	...	2·8	0	0	28	1	1	0	0	0	1	0	25	3	0
Jhansi	0830	251	1018·6	989·1	−0·3	15·8	11·1	6·1	9·4	54	−6	1·5	+0·4	1·2	0	0	11	3	0	1	0	1	0	3	3	20	0
	1730	"	1014·6	986·1	...	22·8	15·2	8·3	10·9	41	...	1·6	...	1·1	0	0	11	7	2	1	0	0	0	1	0	20	0
Agra	0830	169	1018·7	998·5	−0·1	11·7	9·1	6·1	9·4	69	+7	1·2	−0·2	0·9	0	0	8	0	0	0	0	1	1	0	6	23	0
	1730	"	1015·1	995·6	...	21·8	15·4	9·7	12·0	47	...	1·8	...	1·3	0	0	10	0	2	0	0	0	1	0	7	21	0
Agra (Aerodrome)	0530	169	1017·2	996·6	...	8·2	7·1	6·0	9·3	86	...	1·6	...	...	0	0	3	1	0	0	0	0	0	0	2	28	0
	0830	"	1019·0	998·5	...	10·9	8·9	6·3	9·5	74	...	2·7	...	...	0	0	5	1	1	0	0	0	0	2	1	26	0
	1130	"	1018·4	998·6	...	20·2	13·	5·6	9·1	40	...	2·9	...	...	0	0	14	5	4	1	0	0	0	2	2	17	0
	1730	"	1015·6	995·8	...	19·6	13·9	8·9	11·4	50	...	2·8	...	...	0	0	10	5	2	0	0	0	0	0	3	21	0
	2330	"	1017·4	997·0	...	11·2	9·9	8·0	10·7	78	...	1·7	...	...	0	0	2	1	0	0	0	0	0	0	1	29	0
Mainpuri	0830	157	1017·4	998·2	−1·4	11·6	9·1	6·1	9·4	72	+1	1·9	+0·5	1·3	0	0	13	1	0	0	0	0	0	9	3	18	0
	1730	"	1014·7	996·8	...	21·5	15·4	10·2	12·4	53	...	1·1	...	3·2	0	0	11	0	0	0	1	0	1	6	3	20	0
Aligarh	0830	187	1018·6	996·0	...	10·9	8·4	5·5	9·0	70	+8	2·9	+1·5	2·6	0	0	26	1	0	1	0	0	0	16	8	5	0
	1730	"	1015·0	993·3	...	20·7	15·6	11·3	13·4	56	...	3·4	...	1·9	0	0	20	6	0	2	0	1	0	9	2	11	0
Bareilly	0830	173	1018·2	997·6	+0·1	12·2	10·1	7·9	10·7	75	−6	2·7	+1·3	2·2	0	0	17	2	0	0	1	0	5	8	.	14	0
	1730	"	1014·3	994·3	..	19·3	14·1	9·3	11·7	54	...	2·2	...	0·2	0	0	1	0	0	0	0	0	0	1	0	30	0
Bareilly (P. B. O.)	0230	172	1015·7	995·2	..	12·2	9·6	7·1	10·1	71	...	1·6	...	2·7	0	0	17	0	1	2	0	0	3	9	2	14	0
	0530	"	1015·6	995·0	...	11·1	9·0	6·9	9·9	76	...	1·5	...	2·5	0	0	16	2	0	1	0	0	0	11	2	15	0
	1130	"	1017·3	997·2	...	18·4	13·0	8·5	11·1	53	...	2·7	...	5·0	0	0	25	2	2	1	1	0	2	8	9	6	0
	2330	"	1015·9	995·5	...	14·1	11·2	8·7	11·2	71	...	1·5	...	2·8	0	0	16	1	0	2	0	0	0	9	4	15	0
Meerut	0830	222	1019·6	993·2	+1·2	11·8	8·8	4·9	8·7	63	−12	1·6	+0·2	3·1	0	0	18	2	0	1	0	0	4	1	10	13	0
Najibabad	0830	270	1018·5	986·1	...	8·6	7·6	6·3	9·5	86	...	1·1	...	1·2	0	0	9	0	1	2	1	0	0	0	4	23	0
	1730	"	1015·5	984·5	...	20·8	14·2	7·8	10·6	45	...	1·7	...	1·7	0	0	12	0	0	1	0	0	1	5	5	19	0
Roorkee	0830	274	1019·0	986·3	+0·5	10·9	8·9	6·5	9·7	75	−7	3·0	+1·2	0·8	0	0	8	0	1	0	2	0	0	0	5	23	0
	1730	"	1015·1	983·5	...	19·5	13·1	6·5	9·7	44	...	3·2	...	0·9	0	0	9	0	0	0	1	0	0	0	8	22	0
Dehra Dun	0530	682	1017·3	937·6	...	8·9	6·9	4·7	8·5	75	...	1·7	...	0·8	0	0	7	4	3	0	0	0	0	0	0	24	0
	0830	"	1018·2	939·2	−0·1	11·5	8·8	6·2	9·5	69	−6	2·8	+0·3	0·2	0	0	2	1	1	0	0	0	0	0	0	29	0
	1130	"	1016·7	939·8	.	19·2	12·9	7·1	10·1	47	...	2·2	...	2·1	0	0	18	1	0	0	1	4	3	7	2	13	0
	1730	"	1014·8	937·4	...	16·9	12·7	9·2	11·6	60	...	3·6	...	0·3	0	0	2	0	1	0	0	0	1	0	0	29	0
	2330	"	1017·4	938·4	...	11·3	8·8	6·1	9·4	71	...	1·9	...	3·5	0	0	23	10	8	0	0	0	0	3	2	8	0
Punjab (India) (Including Delhi)																											
New Delhi	0230	216	1017·0	991·1	...	10·9	8·1	4·9	8·7	66	...	1·3	...	6·0	0	1	26	2	0	1	0	0	1	12	11	4	0
	0530	"	1016·9	990·9	...	9·5	7·2	4·0	8·1	69	...	1·1	...	6·1	0	0	28	1	0	0	0	0	1	15	11	3	0
	0830	"	1018·9	992·9	−0·3	10·7	7·8	3·9	8·1	63	−2	2·7	+0·7	8·6	0	2	27	1	1	0	0	0	2	16	9	2	0
	1130	"	1018·4	993·2	...	19·7	12·3	4·3	8·3	37	...	2·5	...	10·5	0	2	27	4	2	0	1	0	0	5	17	2	0
	1730	"	1015·2	990·2	...	20·3	13·5	6·8	9·9	42	...	3·4	...	5·2	0	0	28	3	2	2	1	0	0	3	17	3	0
	2330	"	1017·2	991·4	...	12·3	9·3	5·8	9·2	65	...	1·8	...	5·0	0	0	26	0	0	0	2	0	1	10	13	5	0
New Delhi (Palam Aerodrome).	0230	233	1017·1	989·1	...	9·4	7·6	5·4	9·0	76	...	1·6	...	2·6	0	0	14	0	1	0	0	1	7	3	2	17	0
	0530	"	1017·3	989·1	...	7·3	6·0	4·3	8·3	82	...	1·5	...	4·7	0	1	17	0	0	0	0	3	10	3	2	13	0
	0830	"	1018·9	990·9	..	9·9	7·6	5·1	8·8	73	...	3·2	...	6·8	0	1	27	1	0	0	0	5	16	5	1	3	0

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—*Contd.*																											
New Delhi (Palam Aerodrome)—*Contd.*	1130	233	1018.6	991.4	...	18.9	13.3	7.4	10.1	48	...	2.8	...	11.7	0	2	29	3	1	0	1	1	5	8	12	0	0
	1430	,,	1015.5	988.8	...	23.0	14.5	5.8	9.2	35	...	2.8	...	14.1	0	6	25	4	3	0	1	1	0	6	16	0	0
	1730	,,	1015.2	987.9	...	19.5	13.9	8.8	11.3	50	...	3.2	...	7.3	0	0	27	4	1	2	0	0	0	5	15	4	0
	2030	,,	1016.8	989.4	...	14.1	10.9	7.4	10.3	65	...	2.3	...	4.8	0	0	19	3	0	2	1	0	4	6	3	12	0
	2330	,,	1017.3	989.6	...	11.5	9.2	6.7	9.8	73	...	2.0	...	3.6	0	0	16	2	0	1	1	1	7	3	1	15	0
Hissar	0530	221	1017.7	990.9	...	7.2	5.7	3.7	8.0	79	...	2.1	...	4.3	0	0	27	2	4	1	1	0	3	8	8	4	0
	0830	,,	1019.3	992.5	+0.2	8.5	6.5	4.4	8.8	71	+2	2.5	+0.8	4.4	0	0	28	0	0	2	3	6	7	5	5	3	0
	1130	,,	1018.8	993.1	...	19.7	13.4	7.3	10.2	46	...	2.2	...	4.2	0	0	22	5	2	0	3	0	3	4	5	9	0
	1730	,,	1015.6	990.0	...	19.5	14.1	9.2	11.6	52	...	2.8	...	4.8	0	0	24	3	1	3	2	2	1	7	5	7	0
	2330	,,	1017.8	991.3	...	10.9	8.4	5.2	8.8	69	...	1.7	...	4.3	0	0	28	4	3	0	2	0	2	8	9	3	0
Karnal	0830	249	1017.8	987.9	...	12.5	9.0	4.7	8.5	60	...	1.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	,,	1014.5	986.2	...	18.8	12.1	4.7	8.5	42	...	0.1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Patiala	0830	251	1018.7	988.7	...	9.4	6.9	3.9	8.1	69	...	2.4	...	3.1	0	0	18	0	1	0	1	0	0	0	16	13	0
	1730	,,	1015.8	987.0	...	17.4	11.9	6.4	9.6	49	...	3.0	...	1.0	0	0	7	0	0	0	0	0	0	0	7	24	0
Ambala	0830	272	1018.5	986.1	+0.2	9.7	7.5	4.5	8.4	72	−2	1.6	−0.6	1.6	0	0	13	0	0	0	7	0	1	0	5	18	0
	1730	,,	1015.0	983.5	...	18.8	12.3	5.9	9.3	46	...	1.6	...	1.2	0	0	10	0	3	0	7	0	0	0	0	21	0
Ambala (P. B. O.)	0230	278	1016.7	983.5	...	10.6	7.7	4.5	8.4	66	...	1.2	...	3.7	0	0	18	3	2	0	0	1	0	2	10	13	0
	0530	,,	1016.5	983.2	...	9.2	6.9	4.5	8.5	73	...	1.5	...	3.6	0	0	19	5	3	0	0	0	1	6	4	12	0
	1130	,,	1017.9	985.6	...	18.4	12.1	6.5	9.7	47	...	2.2	...	7.0	0	0	27	6	1	1	2	2	1	4	10	4	0
	2330	,,	1016.7	983.8	...	12.6	8.8	4.9	8.7	60	...	1.7	...	4.5	0	0	22	2	3	0	1	0	1	4	11	9	0
Ambala (Aerodrome)	0530	274	1016.8	983.6	...	5.3	4.6	2.9	7.5	81	...	1.8	...	...	0	1	4	0	0	0	0	0	0	0	5	26	0
	0830	,,	1018.4	985.3	...	7.6	5.8	3.8	8.0	77	...	2.6	...	...	0	0	10	0	2	0	0	0	0	2	6	21	0
	1130	,,	1017.8	985.9	...	19.0	11.9	3.7	8.0	38	...	2.7	...	...	0	8	18	2	0	1	2	0	0	4	17	5	0
	1730	,,	1014.7	983.0	...	18.9	11.7	5.4	7.8	37	...	3.6	...	...	0	2	18	0	1	0	0	0	0	5	14	11	0
	2330	,,	1017.1	984.2	...	9.4	7.2	4.5	8.3	72	...	2.0	...	...	0	1	7	0	0	0	1	0	0	0	7	23	0
Chandigarh	0830	347	1018.0	977.1	...	13.5	9.1	3.7	8.0	52	...	1.8	...	...	0	0	6	0	0	1	1	0	0	0	4	25	0
	1730	,,	1014.3	984.7	...	18.8	11.9	4.2	8.2	40	...	2.4	...	0.6	0	0	9	0	0	0	0	0	5	0	4	22	0
Ludhiana	0830	247	1018.8	988.9	−0.2	8.0	6.1	3.5	7.9	74	−1	2.2	+0.1	3.0	0	0	19	2	2	2	1	0	1	5	6	12	0
	1730	,,	1015.8	987.0	...	17.6	12.0	5.9	9.3	48	...	3.1	...	2.1	0	0	17	4	2	0	1	0	0	6	4	14	0
Halwara (Aerodrome)	0830	242	1019.1	989.9	...	7.0	5.4	3.2	7.7	77	...	2.4	...	...	0	0	19	2	1	0	4	1	0	3	8	12	0
	1730	,,	1015.1	988.0	...	17.5	11.0	2.2	7.2	37	...	3.2	...	...	0	0	31	3	3	0	0	2	1	5	17	0	0
Bhatinda	0830	211	1019.1	993.8	...	11.0	7.7	4.5	7.9	61	...	1.1	...	2.7	0	0	15	2	0	0	3	1	0	0	9	16	0
	1730	,,	1015.8	981.4	...	20.3	13.7	7.1	10.1	46	...	2.0	...	2.6	0	0	20	3	1	1	1	0	0	0	14	11	0
Ferozepur	0830	200	1018.9	994.5	...	6.6	5.1	3.1	7.6	78	...	1.2	...	0.6	0	0	6	1	1	0	1	0	1	0	2	25	0
	1730	,,	1015.9	992.4	...	18.9	12.6	5.9	9.3	46	...	1.4	...	1.0	0	0	9	1	0	0	1	0	1	0	6	22	0
Amritsar	0530	234	1017.8	989.1	...	3.5	2.6	0.8	6.5	84	...	0.8	...	4.7	0	1	23	4	3	5	2	0	2	5	3	7	0
	0830	,,	1019.4	990.7	...	4.4	3.4	2.0	7.1	85	...	2.0	...	3.5	0	0	19	3	2	1	2	1	3	3	4	12	0
	1130	,,	1018.8	991.4	...	17.6	10.9	2.9	7.5	39	...	2.0	...	8.2	0	1	27	5	1		2	1	0	7	11	3	0
	1730	,,	1015.7	988.6	...	17.6	11.2	3.7	8.0	41	...	2.2	...	6.8	0	1	26	6	1	0	1	1	0	4	14	4	0
Pathankot (Aerodrome)	0830	312	1018.8	931.5	...	8.6	6.8	1.3	8.3	75	...	3.4	...	2.9	0	1	18	3	4	1	3	0	3	2	3	12	0
	1130	,,	1018.3	982.2	...	18.4	11.6	3.7	8.0	38	...	3.6	...	3.7	0	1	20	0	3	1	4	1	8	3	1	10	0
	1730	,,	1015.7	979.5	...	17.9	11.4	4.3	8.3	41	...	3.4	...	3.5	0	1	24	1	3	0	0	0	7	11	3	6	0
Adampur (Aerodrome) (R)	0530	238																									
(R)	0830	,,																									
(R)	1130	,,																									
(R)	1730	,,																									
(R)	2330	,,																									
Himachal Pradesh																											
Bilaspur	0830	493	1021.3	962.4	...	6.1	5.1	3.8	8.0	86	...	2.9	...	0.1	0	0	1	0	0	0	0	0	0	1	0	30	0
	1730	,,	1015.2	958.9	...	17.4	11.8	6.5	9.5	49	...	3.3	...	0.0	0	0	0	0	0	0	0	0	0	0	0	31	0
Mandi	0830	761	1021.2	931.5	...	5.2	4.3	3.5	7.9	88	...	3.4	...	0.1	0	0	1	0	0	0	1	0	0	0	0	30	0
	1730	,,	1014.0	928.2	...	15.9	10.7	5.4	9.0	51	...	5.5	...	4.5	0	0	2	0	0	1	0	0	0	1	0	29	0
Jammu and Kashmir																											
Srinagar	0830	1587	1564.4	847.7	+1.2	−0.4	−1.0	−1.7	5.3	90	0	5.3	+0.4	1.1	0	0	11	0	0	1	6	0	1	1	2	20	0
	1130	,,	1567.5	848.1	...	4.7	2.2	−1.4	5.4	67	...	5.2	...	1.3	0	0	11	2	1	1	2	2	1	1	1	20	0
	1730	,,	1542.4	845.6	...	6.1	3.5	−0.4	6.3	68	...	5.5	...	1.4	0	0	10	1	0	0	4	1	0	3	1	21	0
Srinagar (Aerodrome)	0530	1666	1546.4	838.0	...	−0.6	−1.6	−3.0	4.8	84	...	4.0	...	...	0	0	13	0	2	4	2	1	0	3	1	18	0
	0830	,,	1558.7	839.4	...	−0.1	−1.1	−2.8	4.8	83	...	5.3	...	...	0	0	21	1	1	4	2	5	1	4	3	10	0
	1130	,,	1563.5	840.0	...	4.1	1.6	−2.2	5.1	65	...	5.3	...	...	0	0	20	4	2	2	3	3	0	1	5	11	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—*Contd.*																											
Srinagar (Aerodrome)	1730	1666	1537·6	837·4	...	5·1	2·4	−1·4	5·4	65	...	5.2	...	...	0	0	20	2	4	4	2	2	0	1	5	11	0
	2330	"	1549·0	838·4	...	1·9	0·3	−2·0	5·2	76	...	4·2	...	...	0	0	11	3	0	1	1	0	0	5	1	20	0
Gulmarg	0830	2655				closed during winter months																					
	1730	"																									
Leh	0530	3514	3134·2	666·9	...	−9·9	−11·9	−18·5	1·2	49	...	2·7	...	3·4	0	0	19	3	14	1	1	0	0	0	0	12	0
	0830	"	3146·3	668·2	+1·7	−6·8	−9·8	−18·1	1·2	40	−18	3·0	−1·6	2.0	0	0	14	1	4	1	0	2	6	0	0	17	0
	1730	"	3096·9	664·9	...	−0·1	−4·6	−11·3	2·3	43	...	4·4	...	4.1	0	0	22	0	1	0	1	1	18	0	1	9	0
Skardu (R)	0830	2288																									
(R)	1730	"																									
Gilgit (R)	0830	1491																									
(R)	1730	"																									
Misgar (R)	0830	3106																									
	1730	"																									
Jammu (Aerodrome)	0530	292	1017·2	982·0	...	9·2	6·8	3·5	7.9	69	...	1·9	...	...	0	0	19	2	14	1	0	0	0	0	2	12	0
	0830	"	1018·7	983·6	...	9·8	7·0	3·1	7·6	64	...	3·4	...	...	0	0	28	3	20	2	1	1	0	0	1	3	0
	1130	"	1018·7	984·5	...	17·4	11·5	3·7	8·0	41	...	2·2	...	...	0	1	21	0	6	1	4	4	2	2	3	9	0
	1730	"	1016·1	981·9	...	17·6	11·7	5·4	9·0	45	...	3·5	...	...	0	0	16	1	0	0	4	0	1	4	6	15	0
Rajasthan (West) Sri Ganganagar	0530	177	1017·6	996·2	...	6·8	4 9	2·3	7·2	74	...	0·8	...	0·8	0	0	8	0	2	2	1	1	0	1	1	23	0
	0830	"	1019·1	997·6	...	6·6	4·8	2·2	7·2	74	+9	1·2	−0.6	1 4	0	0	12	1	2	4	1	0	2	2	0	19	0
	1130	"	1019·1	998·4	...	19·6	11·6	2·9	7·5	35	...	2·2	...	2·0	0	0	18	1	2	3	2	2	3	1	4	13	0
	1730	"	1015·7	995·2	...	20·5	13·4	6·3	9·5	41	...	1·8	...	0·6	0	0	5	1	1	1	1	0	0	0	1	26	0
	2330	"	1017·8	996·5	...	10·1	7 4	3·8	8·0	66	...	1·0	...	0·7	0	0	7	3	0	2	1	0	0	0	1	24	0
Churu	0830	291	1019·5	984·4	...	9·1	6·5	2·9	7·5	66	...	2·6	...	2·5	0	0	19	1	0	7	7	3	0	1	0	12	0
	1730	"	1015·1	981·7	...	22·1	5·0	8·6	11·2	43	...	2·9	...	5·2	0	0	30	23	2	1	0	0	0	3	1	1	0
Bikaner	0830	224	1018·8	991·8	−0·1	8·6	5·8	1·2	6·7	61	+5	1·0	−0·8	3·1	0	1	18	1	3	5	8	1	0	0	1	12	0
	1730	"	1015·0	989·2	...	22·5	16 9	12·3	14·3	54	...	1·5	...	3·9	0	0	25	5	4	2	1	0	0	1	12	6	0
Bikaner (P.B.O.)	0530	224	1017·8	990·0	...	6·8	5·0	2·4	7·3	74	...	0·8	...	0.9	0	0	4	1	1	1	0	1	0	0	0	27	0
	1130	"	1018·8	992·3	...	20·1	15·1	11·0	13·1	57	...	2·0	...	5·2	0	0	26	3	10	5	3	3	1	1	0	5	0
	2330	"	1017·4	990·6	...	11·3	8·6	5·7	9·1	68	..	1·6	...	2·3	0	0	9	4	3	1	0	1	0	0	0	22	0
Jaisalmer	0830	242	017·8	988·9	...	10·8	6·3	−0·7	5·8	49	...	1·8	...	6·3	0	4	9	5	5	0	1	0	1	1	0	18	0
	1730	"	1014·1	986·7	...	23·3	12·8	−0·1	6.1	23	...	2 2	...	12·4	0	4	26	12	6	0	0	3	1	1	6	1	0
Phalodi	0830	234	1018·4	990·3	...	10·8	6·6	0·5	5·8	49	...	2 3	...	7.7	0	1	19	5	2	0	7	3	1	1	1	11	0
	1730	"	1015·5	989·0	...	25·7	14·7	5·9	9·3	34	...	2·8	...	9·1	0	3	24	9	6	2	1	1	1	0	7	4	0
Nagaur	0830	298	1018·2	983·1	...	14·7	8·0	−2·3	5·1	33	...	2·2	...	4·1	0	0	30	5	8	6	6	3	0	1	1	1	0
	1730	"	1013·9	980·0	...	23·4	12·5	−2·4	5·0	21	...	2·5	...	5·4	0	0	31	11	5	3	1	0	2	3	6	0	0
Jodhpur	0230	224	1016·1	989·7	...	15·1	9·1	0·7	6·4	40	...	1·1	...	11·2	0	1	30	5	25	0	0	0	1	0	0	0	0
	0530	"	1016·2	989·6	..	13·6	8·2	0·8	6·5	43	...	1·3	...	11·5	0	1	30	7	23	0	0	0	1	0	0	0	0
	0830	"	1017·9	991·3	+1.1	14·1	8·4	0.5	6·3	41	−9	2·6	+0.9	10.4	0	0	30	3	25	1	0	0	1	0	0	1	0
	1130	"	1017·6	991·8	...	22·1	13·0	3.1	7·6	29	...	2·5	...	8·1	0	0	26	0	18	6	1	0	0	1	0	5	0
	1730	"	1014·0	988·5	...	25·0	15·1	5.1	8·8	28	...	3·2	...	7·1	0	1	23	3	12	2	0	0	1	3	3	7	0
	2330	"	1016·4	990·1	...	17·2	10·3	1·6	6·9	37	...	1·1	...	12·1	0	2	28	7	21	1	0	1	0	0	0	1	0
Barmer	0530	194	1015.1	992·3	...	14·3	8·1	−1·3	5·5	36	...	1.1	...	7 8	0	0	31	3	1	0	0	1	1	0	26	0	0
	0830	"	1016·9	993·9	−0.4	14·0	8·1	−0·8	5·7	38	−15	2·6	+1·0	7·5	0	0	31	4	0	0	0	2	0	0	25	0	0
	1130	"	1017·0	994·5	...	21·3	11·7	−0·8	5.7	24	...	2.5	...	8·2	0	0	31	8	13	2	0	1	0	0	6	0	0
	1730	"	1013·3	991.2	...	25·2	14·1	1·2	6.7	22	...	3·5	...	6·3	0	0	28	13	6	3	0	1	0	1	4	3	0
	2330	"	1015·6	992·9	...	17·7	10·3	−0·5	5·9	31	...	1·7	...	6·6	0	0	31	5	0	0	1	0	0	3	22	0	0
Rajasthan (East) Pilani	0830	301	1019 5	983·8	...	1·5	7·3	1·2	6·7	50	...	1.4	...	9·1	0	0	30	12	3	7	2	0	1	2	3	1	0
	1730	"	1015·9	981·3	...	20·5	12·2	2.7	7·4	51	...	1.4	...	18 4	0	0	30	14	10	1	1	0	0	1	3	1	0
Alwar	0830	271	1017·8	985·5	...	11·0	9·5	7·8	10·6	81	...	2·9	...	0·5	0	0	4	0	2	1	1	0	0	0	0	27	0
	1730	"	1014·6	983·4	...	21·0	16·8	13 7	15·7	63	...	2·9	...	0·8	0	0	8	3	1	0	2	0	1	0	1	23	0
Sikar	0830	433	1019·1	968·8	...	14·6	10·2	5·3	8·9	54	...	1·8	...	2·3	0	0	23	0	0	11	4	0	0	8	0	8	0
	1730	"	1014·7	966·0	...	22·0	15·2	9·2	11·6	46	...	3·5	...	1·7	0	0	18	3	2	5	0	1	0	5	2	13	0
Jaipur (Sanganer Aerodrome)	0230	390	1016·4	970·7	...	12·7	9·0	4 2	8·2	59	...	1·3	..	...	0	0	27	5	10	9	0	0	0	0	3	4	0
	0530	"	1016·7	970·5	...	11·5	8·2	4·5	8·4	64	...	1·2	...	...	0	0	26	6	8	11	0	1	0	0	0	5	0
	0830	"	1018·2	972·5	...	14·0	10·0	5·6	9·1	58	...	2·3	...	...	0	0	20	0	5	13	1	0	0	0	1	11	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in a.p.m. of standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—*Contd.* Jaipur (Sanganer Aerodrome) (*contd.*)—	1130	390	1017·2	972.7	...	22·1	14·2	6·6	9·7	39	...	2·4	...	...	0	1	29	1	0	8	10	3	4	1	2	1	1
	1730	"	1013·9	969·7	...	21·0	14·6	7·5	10·4	39	...	3·5	...	...	0	0	26	1	4	5	3	2	2	2	7	5	0
	2330	"	1016·6	970·9	...	14·0	10·0	5·2	8·8	56	...	1·3	...	..	0	0	28	4	8	12	0	0	0	0	4	3	0
Dholpur	0830	176	1018.2	997·2	...	12·4	9·5	5·9	9·3	66	...	2·7	...	0·8	0	0	6	1	0	0	0	0	0	2	3	25	0
	1730	"	1014.5	994.2	...	21·5	14·8	8.6	11·2	44	...	2·8	...	0·5	0	0	5	2	1	1	0	0	0	0	1	26	0
Tonk	0830	272	1017·4	985·0	...	11·2	8·6	5·3	8·9	67	...	2·3	...	2·8	0	0	19	0	1	2	3	1	0	2	10	12	0
	1730	"	1013·4	982·3	...	21·8	15·2	9·5	11.9	47	...	3·2	...	3·2	0	0	19	6	4	4	1	0	1	0	3	12	0
Ajmer	0830	486	1019·2	962·1	−0·4	10·9	7·4	3·2	7·7	60	+3	2·8	+1·4	2·9	0	0	20	1	5	0	0	0	2	6	6	11	0
	1730	"	1013·5	959·0	...	23·1	13·1	3·1	7·6	28	...	3·6	...	6·4	0	0	27	2	7	2	4	3	2	4	3	4	0
Kotah	0530	257	1016·5	986·0	...	12·8	10·0	6·7	9·8	67	...	0·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0830	"	1018·3	988·1	−0·2	15·2	11·0	6·5	9·7	56	−1	1·8	+0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1130	"	1017·5	988·0	...	22·5	14.8	7·8	10·6	30	...	2·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	"	1014·1	984·9	...	24·2	16·3	9·4	11·8	41	...	2·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	2330	"	1013·0	983·2	...	16.7	12·4	8·2	10·9	58	...	0·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chambal	0830	351	1018·7	977·5	...	13·8	10·4	6·6	9·7	62	...	2·0	...	1·0	0	0	8	2	0	1	0	1	0	0	4	23	0
	1730	"	1013·9	974·3	...	24·6	14·6	4.5	8·4	28	...	2·1	...	5·4	0	0	28	5	12	6	1	1	1	0	2	3	0
Jhalawar	0830	321	1018·2	980.5	−0·1	13·9	10.6	7·1	10.1	64	+1	2·2	+0·7	0·6	0	0	6	3	2	0	0	0	0	0	1	25	0
	1730	"	1013·1	977·1	...	26·3	16·1	6·7	9·8	30	...	2·3	...	3·2	0	0	27	6	13	2	0	1	1	3	1	4	0
Udaipur	0230	582	1017·3	949·4	...	10.8	8·6	6·4	9·6	75	...	1·0	...	0·2	0	0	2	0	0	0	0	0	0	2	0	29	0
	0530	"	1017.7	949·5	...	9·4	7·7	5·8	9·2	79	...	0·8	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	"	1018·7	951·2	−0·1	13·0	9·2	5.2	8·8	59	+1	2·5	+1·5	0·6	0	0	5	1	0	0	0	0	0	2	2	26	0
	1130	"	1016·4	951·3	...	22·7	13·7	5·7	9·1	33	...	2·4	..	1·5	0	0	13	1	1	4	2	2	0	1	2	18	0
	1730	"	1013·3	948·3	...	22·9	14·2	6·6	9·7	36	...	3·0	..	0·7	0	0	6	1	0	0	2	2	1	0	0	25	0
	2330	"	1017·5	950·0	...	12.8	9·9	7·1	10·1	68	...	1·1	...	0·3	0	0	2	0	0	0	0	0	0	2	0	29	0
Erinpura (Jawai Dam)	0830	295	1017.7	982.8	...	12·8	11·2	9·4	11·8	79	...	3·0	...	2·9	0	1	18	0	0	1	3	14	0	0	0	13	0
	1730	"	1013·9	980·4	...	24.1	19·2	16·0	18.2	60	...	3·3	...	2·7	0	0	14	3	4	0	1	0	2	3	1	17	0
Madhya Pradesh (West) Gwalior	0230	207	1016·7	991·9	...	10·0	8·1	5·8	9·2	76	...	1·3	...	1·8	0	0	10	0	0	0	5	2	1	2	0	21	0
	0530	"	1016·8	991·9	...	8·8	7·2	5·3	9·0	79	...	1·6	...	2·1	0	0	16	1	0	0	10	1	3	1	0	15	0
	0830	"	1018·6	994·0	+0·5	13·4	9·9	6·0	9·5	62	+1	2·7	+1·4	1·9	0	0	11	2	0	0	5	0	1	0	3	20	0
	1130	"	1017·9	994·0	...	21·6	13·4	4·6	8·7	35	...	2·7	...	5·2	0	0	27	3	10	3	1	0	1	3	6	4	0
	1730	"	1014.8	991·0	...	21·4	14·5	8·0	10·9	43	...	2·5	...	0·7	0	0	6	2	2	1	0	0	0	0	1	25	0
	2330	"	1017·0	992·3	...	11·1	9·0	6·6	9·8	74	...	1·5	...	1·3	0	2	13	1	0	0	8	1	2	1	0	18	0
Sheopurkalan	0830	235	1018·5	990·6	...	12·8	10·1	7·3	10·2	70	...	2.7	...	2·2	0	0	16	4	5	0	3	2	0	1	1	15	0
	1730	"	1014·1	987·1	...	23·0	15·8	9·6	12·1	43	...	2·8	...	5·3	0	0	28	9	6	2	3	1	0	3	4	3	0
Shivpure	0830	"	...	...	...	15·0	10·9	6·4	9·8	58	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	"	...	...	...	22·3	14·6	7·1	10·3	40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Guna	0530	478	1016·8	960·6	...	10·8	8·2	5·5	9·0	70	...	1·6	...	2·2	0	0	16	2	2	0	7	3	0	0	2	15	0
	0830	"	1018·1	962·8	−0·1	16·2	11·2	6·3	9·7	53	−13	2·6	+1·2	2·2	0	0	16	1	1	4	4	3	0	2	1	15	0
	1130	"	1016·4	962·6	..	23·9	14·4	6·0	9.6	33	...	3·2	...	4·2	0	0	29	2	0	6	10	3	3	2	3	2	0
	1730	"	1013.5	959·8	...	23·5	14·7	7·1	10·4	36	...	3·7	...	3·3	0	0	20	4	3	5	1	0	0	0	7	11	0
	2330	"	1016·7	961·2	...	14·1	10·3	6·7	9·8	62	...	1·4	..	2·2	0	0	14	1	0	5	6	1	1	0	0	17	0
Rajgarh	0830	382	1017.7	973·0	...	13·7	9·7	5·1	9·0	56	...	2·1	...	3·6	0	0	27	20	0	0	0	1	0	5	1	4	0
	1730	"	1012·5	969·8	...	26·5	15·3	4·3	8·5	25	...	3·5	...	3·8	0	0	24	17	2	0	0	0	0	5	0	7	0
Neemuch	0830	496	1018·6	961·2	+0·1	15·5	10·1	4·6	8·6	49	−4	3·1	+1·7	3·1	0	0	22	3	11	5	2	0	0	0	1	9	0
	1730	"	1013·7	958·3	...	24·9	14·4	4.8	8.7	28	...	3·7	...	6·1	0	0	31	6	10	1	1	0	3	4	6	0	0
Ratlam	0830	486	1017·7	961·5	...	16·2	11·7	7·6	11·0	57	...	2·8	..	5.2	0	0	15	2	9	4	0	0	0	0	0	16	0
	1730	"	1012·6	958·6	...	26·7	16·9	9·7	11·1	35	...	3·6	..	3·4	0	0	22	1	7	4	0	0	3	4	3	9	0
Alirajpur	0830	293	1017·5	983·3	...	16.1	12·2	8·3	11·1	61	...	2·8	..	1·2	0	0	9	0	0	8	1	0	0	0	0	22	0
	1730	"	1012·3	979·6	...	28·1	17·3	8·2	10·9	29	...	2·8	...	4·2	0	0	24	2	0	2	1	0	1	7	11	7	0
Indore	0530	567	1016·0	950·5	...	13·5	9·9	6·3	9·6	62	...	1·3	...	4·3	0	0	22	2	6	0	5	6	3	0	0	9	1
	0830	"	1017·3	952·6	−0·1	17·7	12·2	7·3	10·1	51	−1	2·5	+1·1	4·6	0	0	20	1	4	2	2	7	3	1	0	11	0
	1130	"	1015·1	952·3	...	26·0	15·6	7.2	10·0	31	...	2·5	..	10·6	0	2	26	0	2	3	3	13	5	1	0	3	1
	1730	"	1012·3	949·5	...	25·6	15.7	7·8	10·4	33	...	2·9	...	8·3	0	0	30	6	6	2	2	2	6	3	3	1	0
	2330	"	1015·9	951·2	...	17·2	11·8	6·8	9·5	51	..	0·9	...	5·5	0	0	23	2	6	2	2	6	4	0	1	8	0
Ujjain	0830	..	...	...	...	15.5	11·4	7·6	10·5	60	...	...	...	3·5	0	0	17	2	3	6	4	1	0	1	0	14	0
Bhopal (Bairagarh)	0230	523	1015·5	955·4	...	15·8	11·7	8.1	10·7	59	...	1·2	...	5·0	0	0	19	1	6	3	5	2	1	0	1	12	0
	0530	"	1015·9	955·4	...	14·3	10·8	7·6	10·4	66	...	1·5	...	4·2	0	0	19	1	7	3	4	1	3	0	0	12	0
	0830	"	1017·5	957·7	−0·2	17·2	12·4	8·2	11·0	55	−5	2·8	+1·1	4·4	0	0	18	1	3	3	6	1	3	1	0	13	0
	1130	"	1016·2	957·7	...	24·5	15·4	8·2	10·9	36	..	3.0	...	1·3	0	1	28	0	4	3	10	6	2	1	3	2	0
	1730	"	1013·0	954·4	...	24·6	15·6	8·5	11·2	40	...	3·6	...	6·3	0	0	28	6	12	2	2	3	1	0	2	3	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of standard nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	[illegible]
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Bhopal (Bairagarh)—*contd.*	2330	523	1015·9	956·1	...	17·7	12·8	8·6	11·1	56	...	1·7	...	4·6	0	0	22	2	9	1	7	3	0	0	0	9	0
Khandwa	0830	318	1007·3	980·2	−0·2	18·8	13·9	9.4	12·2	55	−5	2·6	+1.2	2.0	0	0	20	0	2	5	9	1	2	0	1	11	0
	1730	"	1012·1	976·8	...	28·3	18·1	10·1	12·4	33	..	3·3	...	3·3	0	0	27	9	7	2	4	2	0	0	3	4	0
Hoshangabad	0830	302	1017·5	982·2	−0.9	16·9	13·1	9·6	11·9	64	+4	3·6	+2.2	3·7	0	0	25	0	0	24	1	0	0	0	0	6	0
	1730	"	1012·8	978·9	...	25·7	17·5	10.5	13·4	37	...	3·5	...	0·3	0	0	3	0	0	2	0	1	0	0	0	28	0
Betul	0830	653	1017.6	943·6	...	18·1	13·3	9.4	11·9	57	...	3·2	...	2·1	0	0	19	0	1	12	6	0	0	0	0	12	0
	1730	"	1012·3	940·2	...	24·8	16·0	9·3	11·8	38	...	3·3	...	3·7	0	0	27	3	16	3	2	0	3	0	0	4	0
Chhindwara	0830	685	1018.1	940·1	...	16·5	12·5	9·1	11·5	62	...	3·1	...	0·1	0	0	1	0	0	1	0	0	0	0	0	30	0
	1730	"	1012·6	936·9	...	24·1	15.1	7·5	10·7	35	...	3 8	...	2·7	0	0	19	1	7	1	4	1	2	1	2	12	0
Seoni	0830	619	1017·4	947·0	0	17·7	13·1	9·2	11·8	59	−1	3.1	+1.7	0·9	0	0	7	1	5	1	0	0	0	0	0	24	0
	1730	"	1012.5	944·0	...	24·5	16·5	10·7	13·1	42	...	2·5	...	1·7	0	0	17	2	10	1	4	0	0	0	0	14	0
Sagar	0830	551	1017.3	954 5	−0·2	18 3	12·1	6.1	9 6	45	−5	2·5	+1.1	4·4	0	0	25	0	9	11	2	0	2	1	0	6	0
	1730	"	1013·1	951 6	...	23·6	14.8	8·6	10 5	36	...	3·2	...	2·5	0	0	20	0	7	7	0	0	0	3	3	11	0
Nowgong	0830	229	1018·8	991·6	−0·1	11·2	9·7	8·0	10·9	81	+5	2·0	+0.5	1·9	0	0	20	0	1	1	1	8	9	0	0	11	0
	1730	"	1014.5	988·4	...	22·7	16·1	10·7	12·8	47	...	2·4	...	1·5	0	0	14	1	10	1	0	0	0	0	2	17	0
Madhya Pradesh (East)																											
Satna	0530	317	1016·5	978·8	...	10·0	8.6	7·0	10.0	82	...	2·9	...	0·4	0	0	4	0	0	1	0	0	1	1	1	27	0
	0830	"	1018·3	981 1	−0·2	15·0	11·3	7·5	10·5	61	−5	2·7	+1.3	1·6	0	0	17	0	0	4	1	1	0	10	1	14	0
	1130	"	1016·7	980 6	...	23·1	14·4	5·9	9·5	33	...	(a) 3·3	...	(a) 5·6	0	0	30	2	2	7	2	1	3	6	7	0	0
	1730	"	1014·1	977 8	...	22·0	14·8	8·2	11·0	42	...	2·8	...	3·0	0	0	31	13	4	3	0	0	0	2	9	0	0
	2330	"	1016·4	979·1	...	13·7	10·9	8·0	11·8	69	...	2·2	...	1·2	0	0	9	0	0	3	1	0	1	4	0	22	0
Sidhi	0830	272	1017·4	985·5	...	14·6	12·0	9·4	12·1	71	...	1·2	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	...	1013·2	982·3	..	23·2	16·9	12·0	14·5	51	...	1·9	...	0·5	0	0	5	1	2	1	0	0	0	0	1	26	0
Umaria	0830	459	1018.2	965·0	..	15·3	12·2	9·7	12·1	69	+2	3·4	+1·6	1·7	0	0	16	0	1	8	4	2	1	0	0	15	0
	1730	...	1013·4	961·7	...	22·7	16·9	12·9	15·0	54	...	3·3	...	1·6	0	0	17	1	5	2	1	1	3	2	2	14	0
Jabalpur	0530	393	1016·6	970·4	...	11 8	10·7	9·6	12·0	87	...	1·7	...	1·0	0	0	10	0	0	0	9	1	0	0	0	21	0
	0830	"	1018.2	972·5	+0.1	15·1	12·3	9·8	12·1	71	−2	2 4	+1·1	1·6	0	0	14	1	0	0	11	2	0	0	0	17	0
	1130	"	1016.0	971·7	...	24·2	16·6	10 4	12·7	42	...	2·3	...	2·2	0	0	19	3	5	0	6	4	1	0	0	12	0
	1730	"	1013·0	969·0	...	24·8	17·5	11·9	14·0	45	...	2·5	...	1·5	0	0	16	2	7	2	3	0	2	0	0	15	0
	2330	"	1016·2	970·5	...	15·3	13·1	11·2	13·3	77	...	1·3	...	1·0	0	0	8	0	2	0	5	1	0	0	0	23	0
Mandla	0830	443	1018·9	967·4	...	14·4	12·0	9·8	12·1	74	...	1·9	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	"	1013·1	963·4	...	23·4	16·1	10·1	12·1	43	...	2·1	...	0·6	0	0	4	2	0	0	0	0	0	0	2	27	0
Pendra	0530	625	1016·5	944·6	...	13·4	10·0	6·5	9·9	63	...	1·8	...	4·5	0	0	25	8	3	1	1	1	3	2	6	6	0
	0830	"	1018·0	946·7	−0.2	16·5	11·8	7·5	10·5	56	−8	2·8	+1.2	3·5	0	0	23	10	1	2	0	1	4	1	4	8	0
	1130	"	1015·7	946·1	...	23·3	14·5	7·2	10·1	36	...	2·7	...	5·4	0	0	30	12	5	2	0	3	2	0	6	1	0
	1730	"	1013·4	943·8	...	22·2	14·5	8·0	10·7	41	...	3·7	...	4·3	0	0	30	14	3	0	0	1	4	0	8	1	0
	2330	"	1016 0	945·2	...	15·5	11·3	7·2	10·4	58	...	1·9	...	4·4	0	0	29	7	0	0	0	1	4	8	9	2	0
Ambikapur	0830	611	1018·9	948·3	...	13·7	11·1	8·7	11 4	72	...	2·7	...	2·7	0	0	21	3	8	2	0	2	6	0	0	10	0
	1730	"	1013·5	945·2	...	21·8	14·3	8·2	11.3	42	...	2·1	..	6·1	0	0	31	21	5	1	1	1	0	0	2	0	0
Champa	0830	245	1018·1	989·4	...	16·9	13·5	10·4	12·8	66	...	3·0	...	3·1	0	0	28	25	1	1	0	0	0	0	1	3	0
	1730	"	1013·6	985·8	...	25·4	18·0	12·5	14·6	45	...	3·1	...	2·4	0	0	22	16	0	2	0	1	0	0	3	9	0
Raigarh	0830	220	1017·5	991·8	...	18·1	14·4	11·3	13·4	65	...	2·9	...	3·0	0	0	20	0	18	2	0	0	0	0	0	11	0
	1730	"	1012·9	987·9	...	25·3	17·5	11·4	13·8	43	...	2·6	...	0·6	0	0	6	3	1	0	0	0	0	1	1	25	0
Raipur	0530	298	1015·9	981·0	...	15·4	13·2	11·2	13·4	76	...	2·3	...	0·8	0	0	7	0	1	2	1	0	0	0	3	24	0
	0830	"	1017·8	983·3	+0·2	19·1	14·7	10·9	13·1	59	−5	2·6	+1·4	2·5	0	0	17	8	4	2	1	2	0	0	0	14	0
	1130	"	1015·9	982·3	...	25·8	17·2	10·3	12·7	38	...	2·9	...	4·1	0	0	18	2	9	4	0	3	0	0	0	13	0
	1730	"	1013·4	979·8	...	25·3	17·6	11·7	13·8	40	...	3.4	...	1·1	0	0	7	2	2	2	1	0	0	0	0	24	0
	2330	"	1015·6	981·4	...	19·8	14·7	10·9	12·4	57	...	1·9	...	3·5	0	0	15	0	0	3	6	3	2	0	1	16	0
Kanker	0830	402	1017·4	971·1	−0·1	17·1	14·4	12·0	14·5	72	−3	2·2	+0·5	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	"	1012·5	967·8	...	26·1	17·9	11·6	13·8	41	...	2·8	...	1·4	0	0	13	0	12	0	0	0	0	0	1	18	0
Jagdalpur	0530	553	1015·9	952·1	...	13·6	12·7	11·9	14·1	89	...	2·0	...	0	0	0	1	0	0	0	1	0	0	0	0	30	0
	0830	"	1017·4	954·3	+0·2	17·1	14·5	12·6	14·5	75	−6	3.3	+1·1	1·4	0	0	10	2	4	0	1	0	0	1	2	21	0
	1130	"	1014·3	953·2	...	25·3	17.4	11·8	14.2	44	...	3·5	...	5·7	0	0	30	3	17	4	1	0	2	2	1	1	0
	1730	"	1012·3	950·9	...	24·2	17·6	12·9	15·2	50	...	3·7	...	2·9	0	0	19	2	12	1	1	1	1	0	1	12	0
	2330	"	1015·6	952·6	...	17·1	14·7	13·1	15·0	78	...	2·2	...	1·0	0	0	7	0	1	1	0	0	1	2	2	24	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of the nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in Km. per hour	Wind speed (km. p. h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat																											
Deesa	0830	136	1017·0	1000·8	−0·1	14·1	9·5	4·4	8.4	52	...	2·3	...	3·5	0	0	28	2	19	5	2	0	0	0	0	3	0
	1730	,,	1013·4	907·9	...	27·3	16·1	5·7	9·1	26	...	3·3	...	3·1	0	0	28	6	5	1	1	0	1	3	11	3	0
Radhanpur	0830	30	1016·7	1013·1	...	15·6	11·2	6·6	9·7	56	...	2·2	...	4·0	0	0	18	10	5	3	0	0	0	0	0	13	0
	1730	,,	1013·3	1010·0	...	27·6	17·7	9·9	12·2	35	...	2·0	...	3·6	0	0	21	11	0	1	0	0	0	2	7	10	0
Idar	0830	219	1016·2	991·0	...	20·9	13·0	4·6	8 5	36	...	2·4	...	4·2	0	0	19	6	7	3	2	0	0	0	1	12	0
	1730	,,	1012 9	938·0	...	26·9	16·2	6.1	9·4	28	...	3 2	...	4·4	0	0	25	0	0	3	1	1	0	15	5	6	0
Ahmedabad	0230	55	1014·4	1007·8	...	16·4	11·7	6·9	9·9	53	...	1·0	...	5·8	0	0	23	10	10	3	0	0	0	0	0	8	0
	0530	,,	1014·4	1007·8	...	15·0	10·8	6·4	9·6	57	...	1·1	...	8·2	0	0	28	4	15	6	0	0	0	0	3	3	0
	0830	,,	1016·4	1009·8	−0·5	16·9	11·7	6·5	9·7	51	−9	2·2	+1·2	9·8	0	2	22	2	7	13	1	0	0	0	1	7	0
	1130	,,	1016·3	1010.0	...	26·5	16·3	7·4	10·3	30	...	2·1	...	13·3	0	5	26	2	6	15	3	2	0	2	1	0	0
	1730	,,	1012·9	1006.6	...	28·5	16·9	6·5	9·7	26	...	2.8	...	10·6	0	0	31	11	3	5	0	1	1	2	8	0	0
	2330	,,	1014·9	1008·4	...	18·5	12·9	7·2	10·1	49	...	1·3	...	7·5	0	0	27	11	5	2	1	0	1	0	7	4	0
Dohad	0830	333	1016·9	978·2	...	17·0	11·6	5·8	9·2	48	−17	2·5	−1·0	4·4	0	0	24	0	2	14	5	2	1	0	0	7	0
	1730	,,	1012·0	975·0	...	28·1	16·2	5·5	9 0	23	...	2·2	...	8·7	0	1	29	4	5	3	1	4	4	6	3	1	0
Baroda	0530	34	1014.2	1010·1	...	14·8	12·3	10·1	12·3	74	...	1·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0830	,,	1016·4	1012·2	...	15·5	12·6	10·1	12·3	71	+7	2·2	+1·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1130	,,	1015·1	1012·1	...	28·2	18·1	10 0	12·3	33	...	2·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	,,	1012·7	1008·7	...	23·6	19·5	13·1	15·1	39	...	2·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	2330	,,	1014·8	1010·7	...	18·3	14·5	11·3	13·4	64	...	0·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Baroda (Aerodrome)	0830	38	1016·0	1011·6	...	17·4	13·4	9·7	12 0	61	...	2·8	...	4·2	0	0	23	9	2	0	1	1	1	1	8	8	0
	1130	,,	1015·8	1011·5	...	28.0	18·2	10·6	12·8	35	...	2·6	...	8·2	0	1	27	5	7	10	1	0	1	1	3	3	0
	1730	,,	1012·4	1008·1	...	29·2	19·0	11·5	13·6	34	...	2·7	...	5 1	0	0	27	4	1	1	0	0	1	5	15	4	0
Broach	0830	17	1015·2	1013·1	...	16·1	13·1	10·4	12·6	69	...	2·3	...	3·7	0	0	29	3	9	3	5	2	0	0	7	2	0
	1730	,,	1011·8	1009·9	...	31·4	19·5	10.6	12·8	28	...	2·2	...	3 9	0	0	28	4	8	1	6	0	1	1	7	3	0
Surat	*0530	12	1013·5	1012·1	...	18·2	14·5	11·4	13·5	65	...	1·2	...	4·7 (c)	0	0	21	4	5	5	3	0	2	0	4	7	0
	†0830	,,	1015·7	1014·3	+0·1	19·3	14·9	10·9	13·0	60	+2	2·3	+1·0	5·2 (b)	0	0	26	5	14	3	2	1	0	0	3	3	0
	†1130	,,	1015·6	1014·2	...	28·7	19 0	11·9	13·9	36	...	2·5	...	18·5 (b)	0	0	25	4	9	10	2	1	1	0	0	4	0
	†1730	,,	1012·3	1010·9	...	29·0	20·0	13·9	15·9	40	...	2·4	...	4·9 (a)	0	0	27	4	3	2	1	1	1	5	11	3	0
	2330	,,	1014·1	1012·7	...	21·8	16·6	12·7	14·7	56	...	1·0 (g)	...	4·7 (g)	0	0	17	2	12	2	0	0	0	0	1	7	0
Saurashtra and Kutch																											
Naliya	0830	21	1017·0	1014.5	...	13·2	8·8	2·5	7·3	52	...	2·1	...	6·9	0	1	30	6	22	0	2	0	1	0	0	0	0
	1730	,,	1014·3	1011·8	...	26·6	15·3	2·7	7·4	25	...	2·5	...	16.0	0	5	26	5	8	1	0	0	6	6	5	0	0
Bhuj (Aerodrome)	0230	80	1015·3	1005.7	...	14·8	12.2	9·6	11·9	71	...	0·7	...	0.5	0	0	3	0	1	0	0	0	0	2	0	28	0
	0530	,,	1015·3	1005·7	...	13·0	10·9	8·6	11·2	75	...	0·7	...	1·4	0	0	7	0	1	0	0	1	1	2	2	24	0
	0830	,,	1017·0	1007·4	0	14·9	11·9	8·9	11·4	68	+19	2·1	+1·0	2·2	0	0	11	1	1	0	1	0	6	2	0	20	0
	1130	,,	1017·1	1007·8	...	23·5	17·5	12·9	14·9	52	...	1.9	...	10·0	0	2	25	8	13	3	0	0	0	2	1	4	0
	1730	,,	1013·7	1004·5	...	27·1	20·2	15·5	17·6	51	...	2·8	...	13·3	0	3	27	11	13	2	1	1	0	1	1	1	0
	2330	,,	1015 8	1006·4	...	17·4	13·8	10·5	12·7	65	...	0·9	...	2·8	0	0	9	5	1	0	0	0	1	1	1	22	0
Bhutakia Bhimasar	0830	47	1016·1	1010·4	...	16·4	13·7	11·3	13·4	73	...	2.2	..	17·5	0	9	22	11	10	1	1	0	0	2	6	0	0
	1730	,,	1013·3	1007·9	...	27·4	21·7	18·2	20·9	59	...	2·6	...	19·6	0	11	20	13	9	1	1	0	0	2	5	0	0
New Kandla	0830	14	1017·0	1015·3	...	17·2	12·2	6·4	9·6	50	...	2·5	...	10 6	0	1	29	19	3	0	1	0	0	2	5	1	0
	1730	,,	1014·1	1012·4	...	26·0	16·9	9·2	11.6	36	...	3.4	...	13·0	0	4	25	11	9	0	0	3	3	1	2	2	0
Mandvi	0830	9	1017·1	1016·0	...	17·5	12·2	6·2	9·5	50	...	2·6	..	14.8	0	2	29	0	28	0	0	0	0	0	3	0	0
	1730	,,	1013·6	1012·6	...	24·3	19·5	16·2	18·4	62	...	4·8	...	16·3	0	13	18	1	2	3	1	2	6	12	0	0	4
Dwarka	0830	11	1016.3	1015.0	−0 3	19·5	...	...	...	...	...	1·9	+0·4	11.3	0	2	29	7	18	4	0	0	0	1	1	0	0
	1730	,,	1013·6	1012.3	...	25·8	...	...	...	...	...	2·2	...	17.2	0	6	25	13	5	3	0	0	0	1	9	0	0
Porbander	0830	7	1016·0	1015·2	...	18·9	14 5	10·6	12·8	60	...	2.8	...	5·9	0	0	31	10	8	4	2	1	0	1	5	0	0
	1730	,,	1013·0	1012·3	...	27·0	20·8	17·0	19·4	56	...	3·8	...	14·5	0	0	31	2	3	1	0	0	4	14	7	0	0
Porbander (Aerodrome)	0830	7	1015·9	1015·1	...	20·6	14·6	8·9	11·4	49	...	2·1	...	8·1	0	5	16	4	5	9	2	0	1	0	0	10	0
	1130	,,	1016·0	1015·2	...	28·1	18·3	10·3	12·5	35	...	1·6	..	18·6	0	13	18	2	12	9	2	0	1	0	5	0	0
	1730	,,	1012·9	1012·1	...	27·4	19.3	13·3	15·3	43	...	2·8	...	19·1	0	12	19	5	3	1	0	0	1	17	4	0	0
Jamnagar	0530	23	1014·5	1011·8	...	15·0	11·3	7·4	10·3	62	...	1·7	...	8·9	0	2	28	0	7	7	6	6	1	3	0	1	0
	0830	,,	1016·4	1013·7	−0.3	16·6	12·2	7.4	10·3	55	−6	2·3	+1·3	8·5	0	1	29	0	6	12	3	8	0	1	0	1	0
	1130	,,	10 6·7	1014·1	..	23·9	15.8	8.8	11.3	39	...	2·3	...	16·5	0	7	24	6	2	1	1	1	0	1	1	0	0
	1730	,,	1013·3	1010·7	...	26·0	16·4	7·8	10·6	33	...	3·3	...	16·7	0	9	22	12	11	0	0	0	0	3	5	0	0
	2330	,,	1015·2	1012·6	...	19·3	15·1	11·7	13·7	63	...	1·6	...	10·5	0	2	29	4	9	5	2	3	1	5	2	0	0

*Wind directions for 30 days. (c) Mean of 28 days. (b) Mean of 29 days. †Wind directions for 31 days. Mean of or total for 24 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—*contd.*																											
Rajkot (Aerodrome)	0830	138	1016·4	1000.2	−0·1	17·3	12·5	7·5	10 4	53	+4	1.0	−0·4	5·7	0	0	21	4	8	3	3	0	0	1	0	10	0
	1130	"	1016·1	1000·5	...	26·2	17·6	10·2	12.4	40	...	1·3	...	14·5	0	9	20	7	15	3	2	0	0	0	2	2	0
	1730	"	1012·6	997·1	...	28·5	18·5	10·4	12·6	35	...	1·9	...	17·4	0	9	22	8	11	2	0	0	1	1	8	0	0
Surendranagar	0830	74	1016·5	1007·7	...	17·9	11·9	5·5	9·0	46	...	2·0	...	3·2	0	0	28	3	12	1	0	0	1	2	9	3	0
	1730	"	1012·8	1004·2	...	28·6	16·9	6·1	9·4	25	...	3·2	...	5·9	0	0	31	11	7	2	1	0	0	1	9	0	0
Bhavnagar	0830	17	1016·4	1014·4	+0·1	17.8	12·3	6·3	9 ·5	49	+1	1·8	+0·4	3·2	0	0	30	1	0	1	0	1	2	8	17	1	0
	1730	"	1012·7	1010·8	...	28·9	18·7	11·0	13·1	33	...	2·5	...	6·6	0	0	31	0	15	12	3	1	0	0	0	0	0
Bhavnagar (Aerodrome)	0830	11	1016·1	1014·8	...	18·1	12·6	6.9	9·9	49	...	2.0	...	9·5	0	0	25	8	0	0	0	0	0	3	14	6	0
	1130	"	1016·2	1015·0	...	24·9	17·5	11·4	13·5	45	...	1·9	...	11·9	0	0	31	14	15	2	0	0	0	0	0	0	0
	1730	"	1012·7	1011·5	...	28·1	18·9	12·1	14·1	38	...	2·3	...	12·6	0	0	31	1	23	3	3	1	0	0	0	0	0
Mahuva	0830	9	1015·7	1014·7	...	19·8	13.9	8·3	10·9	49	...	2·5	...	6· 5	0	0	29	17	7	0	0	0	0	0	5	2	0
	1730	"	1012·5	1011·5	...	27·4	20·0	15·2	17·3	48	...	2·4	...	5·8	0	0	31	0	2	12	13	2	2	0	0	0	0
Keshod	0830	51	1016·2	1010·1	...	18·6	12·4	5·6	9·1	45	...	1·7	...	14 6	0	6	25	1	10	18	0	0	0	0	0	0	2
	1130	"	1016·0	1010·2	...	27·0	16.5	6.3	9·5	28	...	1 6	...	18·3	0	11	20	7	14	7	0	0	1	1	1	0	0
	1730	"	1012·6	1006·9	...	30·2	17·7	6·9	9·9	24	...	1 9	...	16.1	0	11	19	11	4	1	0	0	3	8	3	1	0
Veraval	0230	8	1013·6	1012·7	...	18·7	14.0	9·4	11·8	57	...	0·7	...	11·8	0	1	28	12	13	0	0	0	0	0	4	2	0
	0530	"	1013·4	1012.5	...	18·1	13·0	7·8	10·6	54	...	1 1	...	11.5	0	2	28	12	15	0	0	0	0	1	2	1	0
	0830	"	1015·2	1014·3	−0.4	19·6	13·8	8 0	10·7	50	+1	2·5	+1.3	11·7	0	3	26	8	18	1	0	0	0	0	2	2	0
	1130	"	1015·5	1014·6	...	28·5	19·2	12·1	14 1	39	...	2 5	...	10·7	0	2	26	4	7	1	2	4	5	3	2	3	0
	1730	"	1012·6	1011·7	...	26·1	21·8	19·4	22·5	67	...	2 5	...	15·7	0	8	22	0	0	0	4	1	7	11	7	1	0
	2330	"	1014·5	1013·6	...	20 2	16·1	12·8	14·8	65	...	0·8	...	8·7	0	0	27	12	8	0	0	0	0	3	4	4	0
Konkan																											
Dahanu	0830	5	1012·8	1014.3	+1·1	21·6	17·4	14·4	16·4	64	−11	3·5	+1.5	6 6	0	0	30	1	2	14	12	1	0	0	0	1	0
	1730	"	1011·9	1011·4	...	26·6	22·3	20·0	23·4	68	...	3 5	...	17·1	0	7	24	24	2	0	0	0	1	1	3	0	0
Bombay (Colaba)	0830	11	1014·6	1013.4	−0.2	23·3	20·3	18·5	21·3	75	+5	2·9	+1.5	6 6	0	0	29	2	9	15	3	0	0	0	0	2	0
	1130	"	1014·6	1013·4	...	28·6	21·8	17·9	20·5	53	...	2·1	...	6 2	0	0	31	2	6	15	6	0	0	0	2	0	0
	1730	"	1011·7	1010.5	...	27·7	22·9	20·3	23·8	64	...	2·7	...	8 3	0	0	31	3	0	0	0	0	0	6	22	0	0
Bombay (Santacruz Aerodrome).	0230	15	1012·8	1011 1	...	20·4	17·9	16·2	18·4	77	...	1·2	...	4·4	0	0	20	1	13	5	1	0	0	0	0	11	0
	0530	"	1012 8	1011·1	...	20·0	17·4	15·5	17·6	76	...	1·3	...	5 8	0	0	25	1	9	14	0	1	0	0	0	6	0
	0830	"	1014·8	1013·1	−0.1	23·2	18 3	15·1	17·1	61	−4	2·3	+0.9	6 0	0	0	26	0	3	21	2	0	0	0	0	5	0
	1130	"	1014·6	1012.9	...	30·1	19·9	12·8	14·8	35	...	2·1	...	8 6	0	0	27	0	2	14	8	0	0	1	2	4	0
	1730	"	1011·8	1010·1	...	27·8	21.7	18·1	20·8	57	..	2·5	...	11 6	0	1	30	6	0	1	0	0	0	2	21	0	1
	2330	"	1013·8	1012·1	...	21·9	18·9	17 0	19·4	74	...	1·2	...	3·9	0	0	18	2	12	3	0	1	0	0	0	13	0
Alibag	0830	7	1014·5	1013·7	−0.1	22·7	18 8	16·3	18·5	68	+4	1·5	−0.3	4·3	0	0	25	4	7	11	3	0	0	0	0	6	0
Harni	0830	20	1014·3	1012·0	+1.4	25·9	20·4	17·0	19·4	59	+2	3·6	...	8·7	0	4	16	2	4	12	2	0	0	0	0	11	0
	1730	"	1011·3	1008·9	...	27·8	23·7	21·6	25·3	69	...	3·2	...	18 1	0	7	24	2	0	0	0	0	0	6	23	0	0
Ratnagiri	0830	35	1014·4	1010 4	+0.4	23·3	18·4	14 9	16·9	61	...	2·7	...	...	...	...	...	0	0	30	0	0	0	0	1	0	0
	1730	"	1011·0	1007·1	...	28·7	22 7	19·7	22·9	57	...	3·0	...	...	...	...	...	0	1	0	0	0	0	28	2	0	0
Devgad	0830	36	1014·2	1010·1	+1.3	23·2	20·0	17·9	20 5	73	+3	3·3	+1.4	8·0	0	0	31	0	1	29	1	0	0	0	0	0	0
	1730	"	1010 6	1006·6	...	29·2	24·1	21·5	25 6	64	...	2·8	...	29.5	0	11	20	1	0	0	0	0	0	9	21	0	0
Vengurla	0230	9	1012 3	1011·3	...	20.7	19 5	18·7	21·6	83	...	1·3	...	0.7	0	0	6	6	0	0	0	0	0	0	0	25	0
	0530	"	1012·4	1011.4	...	19·4	18·4	17·8	20·4	91	...	1·6	...	0·9	0	0	7	6	0	0	0	0	1	0	0	24	0
	0830	"	1014·6	1013·6	...	20•8	18·7	17·4	19 9	81	...	2·5	...	2·2	0	0	19	14	3	2	0	0	0	0	0	12	0
	1130	"	1014·0	1013·0	..	30·9	21 4	15.4	17·5	40	...	2·2	...	3·6	0	0	25	2	7	3	5	2	3	3	0	6	0
	1730	"	1010·9	1009 9	..	28·7	23·0	19 9	23 2	59	...	2·4	...	3·7	0	0	23	1	0	0	0	0	4	9	9	8	0
	2330	"	1013·3	1012·3	...	22·3	20·7	19·7	22·9	85	...	1 5	...	1·4	0	0	9	8	1	0	0	0	0	0	0	22	0
Maharashtra (Including Marathwada)																											
Nandurbar	0830	206	1016·5	992·8	...	21·8	14 9	8·8	11 3	44	...	1·5	...	8·2	0	0	26	0	8	17	0	0	0	1	0	5	0
	1730	"	1011·8	988·7	...	29.7	19·0	11·1	13·2	32	...	1·8	...	4·5	0	0	22	5	6	3	0	0	0	2	6	9	0
Jalgaon	0830	201	1017·2	993·7	...	17·4	13·1	9·1	11 5	59	...	2·3	...	8·9	0	0	31	0	2	23	4	0	1	1	0	0	0
	1730	"	1012·0	989·5	...	29·6	18·6	10·0	12·3	30	...	2·3	...	5·9	0	0	26	2	4	12	1	1	0	4	2	5	0
Malegaon	0830	437	1017·2	966·6	−0.1	16·0	11·1	5·7	9·1	50	−7	2.4	+0.8	1·9	0	0	15	1	0	0	0	0	2	5	7	16	0
	1730	"	1011·0	963·0	...	29·9	17·4	6·7	9·8	24	...	2·9	...	5·8	0	0	28	5	7	2	6	3	1	3	1	3	0
Deolali	0830	571	1017·7	952·3	...	16.8	13·4	10·6	12·8	68	...	2·8	...	4·9	0	0	26	21	4	1	0	0	0	0	0	5	0
	1730	"	1011·5	949·0	...	28·3	18·7	12·5	14·5	39	...	3·0	...	8·3	0	0	30	2	8	6	1	0	7	4	2	1	0
Aurangabad	0830	581	1016·8	951·4	+0·1	20·9	14.2	8.6	11·2	45	−8	2·6	+0.9	3·9	0	0	27	0	4	22	0	0	0	1	0	4	0
	1730	"	1011·5	947·8	...	27·9	16·8	8.1	10·8	29	...	3·1	...	3·6	0	0	22	0	1	11	5	2	2	1	0	9	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Maharashtra (Including Marathwada)—*contd.*																											
Aurangabad (Chikalthana Aerodrome).	0230	579	1015·8	949·0	...	13·7	10·7	7·8	10·6	69	...	1·0	...	0·2	0	0	1	0	0	0	0	0	0	0	1	30	0
	0530	"	1016·1	948·9	...	12.0	9·5	7·2	10·1	72	...	1·5	...	0·3	0	0	1	0	0	0	0	0	0	1	0	30	0
	0830	"	1016·8	951·0	...	18·7	14·0	10·2	12·4	59	...	2·2	...	0·4	0	0	2	0	0	2	0	0	0	0	0	29	0
	1130	"	1014·8	950·7	...	26·3	18·7	13·8	15·8	48	...	2·4	...	8.3	0	0	27	0	0	7	12	4	2	2	0	4	0
	1730	"	1011·1	947·5	...	27·4	18·7	13·1	15·1	42	...	3·0	...	5·6	0	0	20	0	1	10	6	1	2	0	0	1	0
	2330	"	1016·1	949·6	...	15·5	11·8	8·6	11·2	64	...	1·3	...	1·3	0	0	4	1	0	1	1	0	0	0	1	27	0
Ahmednagar	0830	657	1017·2	942·7	+0·4	17·7	13·1	9·1	11.5	57	+2	2·6	+1·2	0·6	0	0	6	0	0	0	3	0	0	0	3	25	0
	1730	"	1010·5	938·9	...	27·9	17·7	10·5	12·7	34	...	3·3	...	1·3	0	0	13	0	6	3	2	1	0	0	1	18	0
Bhir*	0830	519																									
	1730	"																									
Parbhani	0830	423	1017·4	968·8	...	18·3	13 5	9·0	11·5	55	...	3·2	...	3·7	0	0	25	2	11	6	3	0	0	1	2	6	0
	1730	"	1011·9	965·0	...	27·7	17·7	9·4	11·8	33	...	3·5	..	5·4	0	0	28	0	8	13	5	0	0	0	2	3	0
Nanded	0830	358	1017·0	975·7	...	18·7	14.9	11·8	13·8	64	...	1·6	...	0·6	0	0	6	0	4	0	2	0	0	0	0	25	0
	1730	"	1012·1	972·4	...	29·1	19·7	13·3	15.3	38	...	0·6	...	0·9	0	0	8	0	6	1	1	0	0	0	0	23	0
Poona	0530	559	1015·0	950·8	...	14·9	13·3	12·0	14·0	83	...	1.0	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	"	1016·8	952·8	0	16·7	14·1	12·1	14·1	75	+4	2·0	+0·6	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	"	1013·8	952·1	...	26·8	17·9	11·6	13·7	39	...	1·9	...	4·0	0	0	15	1	4	5	4	1	0	0	0	16	0
	1730	"	1010·3	949·1	...	27·9	18·2	11 5	13·6	37	...	3·0	...	1·8	0	0	9	1	5	0	1	0	1	0	1	22	0
	2330	"	1014·7	951·4	...	18·9	15·3	12·8	14·8	68	...	0·7	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Poona (Lohagaon Aerodrome)	0230	593	1014·1	946·9	...	18·5	14·5	11·4	13·5	64	...	1·5	...	1·0	0	0	7	0	0	3	0	0	0	3	1	24	0
	0530	"	1015·0	947·2	...	16·1	12·6	9 6	11·9	66	...	1·7	...	2·7	0	0	16	1	1	5	0	0	1	5	3	15	0
	0830	"	1016·4	949·1	...	18·7	14·0	10·1	12·3	58	...	2·9	...	3·7	0	0	20	0	2	11	1	0	0	6	0	11	0
	1130	"	1014·2	948·8	...	26·8	16·7	9·8	12·1	35	...	2·7	...	11·5	0	3	25	0	0	14	11	2	0	0	1	3	0
	1730	"	1010·7	945·6	...	27·5	17·0	8·4	11·0	33	...	3 4	...	12·1	0	5	24	0	2	13	4	1	1	5	3	2	0
	2330	"	1014·8	947·9	...	20·0	14·8	10·8	12·9	56	...	1·9	...	3·4	0	0	18	1	1	7	0	0	1	5	3	13	0
Baramati	0830	551	1016.7	954·0	...	18·3	14·8	12·3	14·3	68	...	1·7	...	4·9	0	0	29	4	1	8	6	3	0	2	5	2	0
	1730	"	1010·6	950·3	...	28·2	20·5	16·1	18·3	49	...	3·2	...	7·0	0	0	31	2	4	14	9	2	0	0	0	0	0
Jeur	0830	521	1016·6	957·0	...	17·1	13·0	9·8	12·1	62	...	2·9	...	1·2	0	0	11	5	2	2	0	0	0	1	1	20	0
	1730	"	1010·6	953·5	...	29·0	18·1	10·6	12·8	33	...	3·9	...	3·1	0	0	18	1	2	5	6	2	0	1	1	13	0
Sholapur	0530	479	1014.9	960.1	...	17.2	13·1	9·7	12.0	62	...	2·9	...	2·8	0	0	18	1	5	7	5	0	0	0	0	13	0
	0830	"	1016.5	962·0	+0·3	19·9	14.5	10·2	12·4	54	+1	3·1	+1·5	3·4	0	0	17	0	4	8	5	0	0	0	0	14	0
	1130	"	1014.5	961·4	...	27·0	18.6	13·0	15·0	43	...	2·8	...	10·4	0	1	30	0	2	6	12	9	2	0	0	0	0
	1730	"	1010·6	958·0	...	29·6	18·5	10·7	12·9	32	...	3·6	...	2·8	0	0	22	1	9	1	11	0	0	0	0	9	0
	2330	"	1014·4	960·4	...	21·9	15·0	9·5	11·9	46	...	3·2	...	6·5	0	0	27	1	9	8	6	2	0	0	1	4	0
Miraj	0830	554	1015·8	953·0	−0·2	18·7	14·4	11·1	13·2	62	+2	2 4	+0·6	...	...	...	...	0	0	5	1	0	0	1	0	24	0
	1730	"	1009·3	949·1	...	29·3	18·1	10·1	12·3	31	...	3·1	...	...	...	...	...	0	1	11	4	0	1	0	0	14	0
Kolhapur	0530	570	1014·3	949·3	...	16.4	13·1	10·4	12·6	68	...	1·9	...	3·3	0	0	20	0	4	10	1	0	4	1	0	11	0
	0830	"	1016·0	951·5	+0·5	19·1	14·4	10·6	12·8	58	−5	2.5	+1·3	5·0	0	0	22	2	12	4	1	0	1	1	1	9	0
	1130	"	1013·5	950·7	...	26·7	17·9	11·9	13·9	41	...	2·6	...	15.5	0	5	26	0	4	17	6	2	0	0	2	0	0
	1730	"	1009·6	947·5	...	28·7	17·5	9·2	11.6	30	...	3·0	...	13·2	0	1	29	0	8	8	7	1	0	5	1	7	0
	2330	"	1013·9	949·8	...	20·3	15·0	10·9	13.0	56	...	2·0	...	6·0	0	0	27	0	4	11	2	1	5	4	0	4	0
Vidarbha																											
Buldhana	0830	650	1016·0	942·9	...	19·9	14.1	9·4	11·8	52	...	2·6	...	1·8	0	0	15	0	2	0	5	0	0	0	8	16	0
	1730	"	1011·2	940.0	...	26·9	16·8	9·2	12·0	34	...	3·1	...	1·1	0	0	11	0	8	0	1	0	0	0	2	20	0
Akola	0830	282	1017·1	984·3	−0·2	17·4	13·0	8·9	11·4	58	+1	3·5	+1·9	2·1	0	0	17	0	1	11	3	1	0	1	0	14	0
	1130	"	1015·5	983·8	...	26·9	17·6	10·2	12·6	36	...	2·6	...	2·9	0	0	26	1	0	17	2	1	2	2	1	5	0
	1730	"	1011·7	980·6	...	29·0	18·0	9·1	11·8	30	...	3·0	...	1·4	0	0	11	1	6	1	0	0	0	2	1	20	0
Akola (Aerodrome)	0530	309	1014·4	978·4	...	14·8	10·8	6·8	9·8	56	...	2·2	...	2·3	0	0	24	0	0	23	0	0	0	0	1	7	0
	2330	"	1014·5	979·0	...	20·2	13·7	7·5	10·4	45	...	1·6	...	2·3	0	0	23	0	0	18	3	1	0	0	1	8	0
Amraoti	0830	370	1017·1	974·6	0	21·2	15·5	10·5	13·1	51	0	2·4	+0·8	6·9	0	1	28	0	17	10	1	0	1	0	0	2	0
	1730	"	1011·7	970·6	...	27·7	17·7	9·5	12·2	33	...	2·6	...	5·1	0	0	31	0	8	7	11	1	3	0	1	0	0
Pusad	0830	334	1017·5	978·5	...	17·3	13·4	10·4	12·3	65	...	0·7	...	0·6	0	0	4	0	0	0	0	0	0	0	4	27	0
	1730	"	1011·5	974·1	...	28·5	19·2	12·1	14·8	38	...	1·7	...	7·0	0	0	30	0	17	6	6	0	1	0	0	1	0
Yeotmal	0830	451	1016·5	965·3	...	21 0	14·9	9·3	12.0	47	...	1·5	...	3·1	0	0	31	0	10	15	4	1	1	0	0	0	0
	1730	"	1012·4	962·4	...	27·1	16·8	8·7	10·9	32	...	(a) 1·9	...	(a) 4·6	0	0	28	4	10	13	1	0	0	0	0	2	0
Nagpur	0230	310	1015·2	979·1	...	15·6	13 0	10·7	13·0	73	...	1·9	...	2·8	0	0	21	12	1	1	0	0	0	0	7	10	0
	0530	"	1015·7	979·3	...	14·1	12·2	10·4	13 0	79	...	2·1	...	3·7	0	0	25	11	1	1	1	0	0	0	11	6	0
	0830	"	1017·7	981·7	0	17.7	14·2	11·3	13.5	66	+4	3.2	+1·5	3·0	0		28	14		1	0	0	0	0	5	8	0

* Data not available

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in m.	Relative humidity %	Relative humidity %: Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidharbha—*Contd.*																											
Nagpur—contd.	1130	310	1015·9	980·9	...	26·4	17·4	10·3	12·6	37	...	2·6	...	4·8	0	0	25	1	8	9	6	0	1	0	0	6	0
	1730	"	1012·9	978·0	...	26·0	17·5	10 9	13·1	40	...	2 9	...	3·9	0	0	27	2	5	14	5	1	0	0	0	4	0
	2330	"	1015·7	979·7	...	17·5	14·2	11·2	13·4	67	...	2·4	...	1·9	0	0	17	8	0	0	1	0	1	2	5	14	0
Gondia	0830	313	1017 6	984·7	...	17·3	14·2	11·5	13·8	69	...	3·1	...	...	...	...	...	...	0	0	0	0	0	0	0	31	0
	1730	"	1013·1	978·0	...	26·6	18·6	11·3	14·6	39	...	3·3	...	...	...	...	...	...	0	0	0	0	0	0	0	31	0
Brahmapuri	0830	229	1018·0	991·3	..	18·2	15·0	12·5	14·7	70	...	2·4	...	1·5	0	0	11	2	3	3	1	0	0	0	1	20	0
	1730	"	1013·2	987.4	...	26·9	18·0	11·1	13·5	38	..	2·6	...	0·8	0	0	7	1	3	2	0	1	0	0	0	24	0
Chanda	0830	193	1017·2	994·6	−0·3	18·0	15·3	13·3	15·5	75	+3	2·9	+1·4	2·8	0	0	19	6	2	4	1	1	1	0	4	12	0
	1730	"	1012 0	990·3	...	27·3	18·8	12·7	15·4	42	...	3·3	...	2·2	0	0	20	4	10	3	2	0	0	0	1	11	0
Sironcha	0830	123	1017·5	1003·1	..	19·0	16·8	15·3	17·3	80	...	2·8	...	1·5	0	0	12	6	2	0	2	0	1	1	0	19	0
	1730	"	1012·7	998·8	...	27·6	20·2	15·4	17·6	48	...	2·7	...	1.8	0	0	18	3	8	4	2	0	0	0	1	13	0
Coastal Andhra Pradesh																											
Nellore	0530	20	1013·3	1011·0	...	20·9	20·6	20·4	24·0	97	...	2·4	...	0·2	0	0	2	0	2	0	0	0	0	0	0	29	0
	0830	"	1015·7	1013·4	+0·3	23·2	21·7	20·9	24·7	87	+3	4·1	+0·1	2·6	0	0	26	6	3	0	0	0	0	1	16	5	0
	1130	"	1014·9	1012·6	...	27·0	22·7	20·5	24·1	68	..	5·2	...	4·5	0	0	29	8	14	1	0	0	0	0	6	2	0
	1730	"	1012·7	1010·4	...	25·9	22·4	20·6	24·3	73	...	3·9	...	3·4	0	0	31	3	22	4	2	0	0	0	0	0	0
	2330	"	1014·3	1012·0	...	22·3	21·5	21·1	25·0	93	...	2·4	...	0·8	0	0	8	3	5	0	0	0	0	0	0	23	0
Ongole	0830	12	1015·8	1014·5	...	22·7	20·6	19·3	22·4	80	...	5.5 (a)	...	2·6 (a)	0	0	21	0	14	1	2	1	0	0	3	10	0
	1730	"	1012·4	1011·1	...	26·1	21·7	19·4	22·5	66	...	5·0	...	2·4	0	0	18	0	13	0	5	0	0	0	0	12	0
Rentachintala	0830	106	1016 6	1004·3	...	22·4	19·2	16·8	19·1	71	...	3·5	−0·3	0.2	0	0	2	0	0	2	0	0	0	0	0	29	0
	1730	"	1011·9	999·9	...	28·9	19·6	13·1	15·1	39	...	3·2	...	1·1	0	0	11	2	0	8	1	0	0	0	0	20	0
Gannavaram	0230	24	1013·8	1011·0	...	20·7	19·5	18·7	21·6	88	...	3·1	...	3.6	0	1	16	8	8	1	0	0	0	0	0	14	0
	0530	"	1014·1	1011·3	...	20•2	19·3	18·7	21·6	91	...	3·4	...	4·8	0	0	22	8	11	1	0	0	0	0	2	9	0
	0830	"	1016·5	1013·7	...	22·9	20·5	19·0	22·0	80	...	4·0	...	8·2	0	0	29	10	14	4	0	0	0	0	1	2	0
	1130	"	1015·5	1012·7	...	27·2	21·4	18·0	20·6	58	...	4·1	...	12·1	0	7	23	3	7	14	5	0	1	0	0	1	0
	1730	"	1012·6	1009·9	...	27·4	21·2	17·5	20 0	56	...	3·6	...	8·2	0	0	30	0	2	10	16	2	0	0	0	1	0
	2330	"	1014·9	1012·1	...	21 9	20·1	18·9	21·8	84	...	2·9	...	4·1	0	0	19	4	7	5	1	0	1	0	1	12	0
Masulipatam	0830	3	1016·0	1015·6	−0·3	22·4	20·7	19·7	22·9	85	+7	4·3	+2.3	4·3	0	0	31	22	8	0	0	0	0	0	1	0	0
	1730	"	1013·0	1012·6	...	25·0	21·5	19·6	22·8	72	...	3·5	...	5·4	0	2	28	2	2	6	14	6	0	0	0	1	0
Nidadavolu	0830	12	1016·4	1015·0	...	22·7	20·1	18·4	21·1	77	...	4·4	...	5·9	0	0	29	5	18	2	0	0	0	2	2	2	0
	1730	"	1012·5	1011·1	...	26·2	21·2	18·2	20·9	62	...	4·2	...	5·5	0	0	26	1	1	13	10	1	0	0	0	5	0
Kakinada	0830	8	1016·3	1015·4	0	25·5	21·3	18·9	21·8	67	−5	3.1	+0.5	11·0	0	3	28	0	30	0	0	0	0	0	1	0	0
	1730	"	1012·9	1012·0	...	25·5	21·4	19·1	22·1	68	...	3.2	...	13·0	0	3	28	0	18	3	10	0	0	0	0	0	0
Visakhapatnam	0230	3	1013·8	1013·4	...	20·5	18·5	17·2	19·6	83	..	2.5	...	2·6	0	0	17	3	1	1	0	0	1	2	9	14	0
	0530	"	1014·1	1013·7	...	19·4	17·6	16·4	18·6	84	...	2·1	...	2·2	0	0	13	0	0	0	0	0	0	2	10	18	1
	0830	"	1016·5	1016·1	0	23·6	19·5	16·9	19·3	67	0	3·2	+0·5	3·5	0	0	17	2	4	1	0	1	0	1	8	14	0
	1130	"	1015·2	1014·8	...	27·9	20 1	14·8	16·8	47	...	3 8	...	7·5	0	0	25	1	12	6	4	0	0	0	1	6	1
	1730	"	1013·4	1013·0	...	25·1	20·3	17·2	19·6	62	...	3·7	...	9·4	0	1	29	0	6	21	3	0	0	0	0	1	0
	2330	"	1015·0	1014·6	...	21·5	19·3	17·9	20·5	80	...	2 9	...	2.1	0	0	16	3	2	3	0	0	0	0	8	15	0
Calingapatam	0330	6	1017·1	1016·4	+0·3	21·6	20 1	19·2	22·2	86	+8	2·1	+0·2	5·6	0	0	31	4	4	3	0	0	0	5	15	0	0
	1730	"	1013·5	1012.8	...	25·3	22·7	21·3	25·3	79	...	3·2	...	12·5	0	3	28	2	14	10	5	0	0	0	0	0	0
Telangana																											
Ramagundam	0830	156	1016·6	998·5	...	20·6	16·9	14·3	16·3	68	...	2 9	...	1·6	0	0	11	7	1	1	1	0	0	0	1	20	0
	1730	"	1012·3	994·7	...	28 7	19·1	12·2	14·2	37	...	2·7	...	3 6	0	0	26	8	13	3	0	2	0	0	0	5	0
Nizamabad	0830	381	1016·6	973.3	+0.8	22·0	16 9	13 2	15·2	58	−9	2·1	+0·5	0·4	0	0	4	1	0	3	0	0	0	0	0	27	0
	1730	"	1011·9	969·5	...	27 4	18·1	10·7	12·9	36	...	2·5	...	1·3	0	0	13	2	7	4	0	0	0	0	0	18	0
Mahabubnagar	0830	505	1015·7	958·8	...	22·1	17 3	14·2	16 2	61	...	3·5	..	5·8	0	0	27	2	12	12	1	0	0	0	0	4	0
	1730	"	1011·0	955·3	...	27·1	17 5	10 6	12·8	37	...	3 6	...	8·6	0	2	25	0	5	19	3	0	0	0	0	4	0
Nagarjunkondr	0830		...	...	...	23·7	19 6	17 0	19·4	70	...	2·4	...	4·1	0	1	26	7	10	4	3	1	0	1	1	4	0
	1730		...	...	...	28·9	20·2	14·4	16·4	43	...	2·6	...	11·7	0	0	30	6	8	12	4	0	0	0	0	1	0
Hydarabad (Begumpet)	0230	545	1014·8	952·5	...	16·4	14·5	13·1	15·1	81	...	2·2	...	1·6	0	0	10	1	5	2	2	0	0	0	0	21	0
	0530	"	1015·1	952·7	...	15·5	14·1	13·1	15·1	86	...	2.7	...	2·2	0	0	14	4	5	3	2	0	0	0	0	17	0
	0830	"	1016·6	955·0	+0·5	19·7	16·5	14·2	16·2	71	+5	3·8	+1·7	3·5	0	0	15	2	2	4	7	0	0	0	0	16	0
	1130	"	1014·7	954·3	...	25·4	18·0	13·1	15·1	48	...	3·1	...	9·4	0	0	30	2	8	11	5	3	0	0	0	1	1
	1730	"	1011.8	951.7	...	26·0	17·5	11·4	13·5	42	...	3·4	...	9·7	0	1	30	3	8	13	7	0	0	0	0	0	0
	2330	"	1015·6	953·6	...	18·1	15·5	13·6	16·8	76	...	1·9	...	3·2	0	0	19	2	9	6	2	0	0	0	0	12	0
Pakimpet	0530	613	1014·7	945·2	...	17·7	15·0	13.0	15·0	75	...	3·0	...	2·4	0	0	22	1	2	12	7	0	0	0	0	9	0
	0830	"	1015·8	946.9	...	20·6	16·8	14·1	16·1	68	...	3·9	...	5·7	0	0	29	0	4	8	14	2	1	0	0	2	0
	1130	"	1014.2	946·5	...	25·2	18·0	13·2	15·2	49	...	3.3	...	9.9	0	0	30	2	4	13	11	0	0	0	0	1	0
	1730	"	1011·8	944·3	...	25·4	17·4	11·6	13·7	3	...	3·4	...	8·8	0	2	29	2	7	16	6	0	0	0	0	0	0

(a) Mean of 23 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—Contd.																											
Hanamkonda	0830	269	1016·4	985·9	−0·1	21·3	17·9	15·5	17·5	70	0	1·8	−0·4	1·5	0	0	13	6	1	0	2	4	0	0	0	18	0
	1730	"	1012·2	982·1	...	28·1	18·9	12·1	14·1	38		1·7	...	2·4	0	0	19	8	9	0	1	1	0	0	0	12	0
Bhadrachalam	0830	111	1016·6	1003·8	...	20·4	18·3	16·9	19·3	80		4·9	...	2·0	0	0	24	8	7	0	0	1	0	5	3	7	0
	1730	"	1013·2	1000·2	...	27·5	20·3	15·6	17·7	49	..	3·7	...	1·7	0	0	22	2	13	3	1	0	0	0	3	9	0
Khammameth	0830	112	1016·5	1003·6	...	21·5	19·1	17·7	20·2	79	..	4·0	...	0·7	0	0	8	3	0	2	1	1	0	0	1	23	0
	1730	"	1012·3	999·7	...	28·6	20·5	15·0	17·0	45	..	4·2	...	3·7	0	0	23	0	3	15	1	2	0	2	0	8	0
Rayalaseema																											
Aroryavaram	0830	701	1016·0	937·4	...	19·4	17·1	15·6	17·7	79		4·2	...	1·2	0	0	11	3	4	0	1	3	0	0	0	20	0
	1730	"	1011·4	934·4	...	24·1	18·3	14·2	16·2	55	...	4·3	...	6·8	0	0	29	4	15	10	0	0	0	0	0	2	0
Cuddapah	0830	130	1016·2	1001·2	+0·5	23·8	20·6	18·8	21·7	74	−2	2·2	−0·7	0·6	0	0	4	0	1	3	0	0	0	0	0	27	0
	1730	"	1012·0	997·3	...	27·3	21·8	18·7	21·6	60	...	2·4	...	5·9	0	0	28	0	1	27	0	0	0	0	0	3	0
Anantapur	0530	350	1014·0	973·7	...	17·8	16·0	14·6	16·6	81	...	1·1	...	0·2	0	6	1	0	0	1	0	0	0	0	0	30	0
	0830	"	1015·9	976·0	...	21·0	17·5	15·0	17·0	69	...	1·8	..	3·0	0	0	16	0	0	6	7	0	0	1	2	15	0
	1130	"	1014·1	975·0	...	26·4	19·3	14·4	16·4	49	..	2·7	...	10·0	0	5	20	0	2	18	5	0	0	0	0	6	0
	1730	"	1011·0	972·1	...	27·7	19·3	13·5	15·5	43	...	2·8	...	12·7	0	8	21	0	4	20	5	0	0	0	0	2	0
	2330	"	1014·5	974·3	...	22·0	18·1	15·2	17·3	66	..	1·2	...	9·0	0	3	24	0	0	14	12	0	1	0	0	4	0
Kurnool	0830	281	1016·5	984·1	+0·5	19·9	17·0	14·9	16·9	73	+2	2·6	+0·8	1·1	0	0	9	0	0	2	3	3	1	0	0	22	0
	1730	"	1011·0	979·7	...	29·3	19·5	12·8	14·8	37	...	3·1	..	2·6	0	0	19	0	0	3	15	1	0	0	0	12	0
Madras State																											
Kanyakumari*	0830	37																									
	1730	"																									
Palayamcottai	0830	51	1014·3	1008·5	...	25·1	22·1	20·5	24·1	76	...	5·6	..	5·0	0	0	31	24	1	1	0	0	0	1	4	0	0
	1730	"	1010·5	1004·7	...	27·9	23·2	20·8	24·6	66	...	5·6	...	6·9	0	0	31	9	6	13	0	1	0	2	0	0	0
Tuticorin	0830	4	1014·3	1013·9	...	25·4	22·9	21·6	25·0	80	...	5·0	...	16·5	0	9	22	21	8	0	0	1	0	0	1	0	0
	1730	"	1010·5	1010·1	...	27·5	24·4	23·0	28·1	77	...	3·8	...	24·3	0	22	9	0	17	10	3	1	0	0	0	0	0
Pamban	0830	11	1013·6	1012·3	+0·3	25·6	23·9	23·2	28·4	87	+2	4·4	+0·6	9·4	0	0	29	18	6	0	1	0	1	0	3	2	0
	1730	"	1010·8	1009·5	...	26·5	24·2	23·1	28·3	82	...	4·0	...	9·3	0	4	25	15	8	4	0	0	0	0	2	2	0
Tondi	0830	5	1014·3	1013·7	...	24·4	22·3	21·3	25·3	83	...	5·1	...	4·1	0	0	10	1	2	0	0	0	0	0	7	21	0
	1730	"	1011·0	1010·4	...	27·3	23·7	22·0	26·4	73	...	4·3	..	16·5	0	4	26	4	16	10	0	0	6	0	0	1	0
Mathurai	0830	133	1014·3	999·1	+0·2	25·0	21·9	20·2	23·7	75	−2	5·9	+1·7	6·2	0	0	28	6	14	0	2	0	0	0	6	3	0
	1730	"	1010·2	995·3	...	28·2	22·8	20·0	23·4	61	...	6·6	.	6·8	0	0	31	4	21	5	1	0	0	0	0	0	0
Mathurai (Aerodrome)	0530	131	1012·4	997·3	...	21·8	20·6	19·9	23·2	89	...	4·2	...	5·5	0	1	25	6	19	1	0	0	0	0	0	5	0
	0830	"	1014·4	999·4	..	24·5	21·5	19·8	23·1	76	...	4·3	...	9·4	0	2	27	9	16	0	0	2	0	0	0	2	0
	1130	"	1013·1	998·3	...	27·7	22·2	19·2	22·2	60	..	4·5	...	11·6	0	6	23	6	22	1	0	0	0	0	0	2	0
	1730	"	1010·4	995·5	...	27·7	22·2	19·2	22·2	60	...	4·9	..	11·1	0	1	30	2	19	9	1	0	0	0	0	0	0
Adirampattinam	0830	6	1013·9	1013·2	...	24·3	22·5	21·5	25·6	84	...	4·0	...	10·9	0	0	31	11	9	0	0	0	0	0	11	0	0
	1730	"	1010·9	1010·2	...	27·1	23·4	21·6	25·8	72	...	4·9	...	11·8	0	1	30	0	24	1	6	0	0	0	0	0	0
Vadaraniyam	0830	4	1013·8	1013·3	...	24·9	23·0	22·1	26·6	85	...	5·9	...	10·3	0	1	30	17	8	0	0	0	0	0	6	0	0
	1730	"	1011·1	1011·6	...	25·3	23·6	22·2	26·7	79	...	5·3	...	12·7	0	1	30	11	19	1	0	0	0	0	0	0	0
Nagapattinam	0830	9	1014·5	1013·4	+0·7	24·7	22·5	21·5	25·6	83	+2	5·1	+0·1	11·7	0	0	27	9	3	1	0	0	0	0	18	0	0
	1730	"	1011·3	1010·2	...	26·7	23·5	21·9	26·3	76	...	5·0	...	20·3	0	17	14	7	20	4	0	0	0	0	0	0	0
Tiruchirapalli	0230	88	1012·4	1002·3	...	22·5	21·0	20·2	23·7	87	...	2·9	...	11·2	0	2	28	6	17	7	0	0	0	0	0	1	0
	0530	"	1012·9	1002·8	...	21·9	20·6	19·9	23·2	89	...	3·2	...	9·4	0	3	23	8	15	2	0	0	0	0	1	5	0
	0830	"	1015·0	1004·9	+0·4	24·0	21·3	19·9	23·2	77	−3	4·1	0	11·4	0	4	27	11	12	0	0	0	0	1	7	0	0
	1130	"	1013·8	1003·9	...	27·7	22·1	19·1	22·1	60	...	4·6	..	15·8	0	11	20	3	17	1	1	0	0	1	1	0	1
	1730	"	1011·1	1001·2	...	27·4	22·3	19·5	22·7	63	...	5·1	...	13·2	0	6	25	2	16	12	0	1	0	0	0	0	0
	2330	"	1013·8	1003·7	...	23·3	21·5	20·6	24·3	85	...	3·2	...	11·2	0	1	29	3	20	6	1	1	0	0	0	1	0
Coimbatore	0830	409	1015·0	968·8	+0·6	22·2	19·3	17·6	20·1	76	−3	5·5	+1·7	7·6	0	0	29	0	6	12	6	2	2	0	1	2	0
	1730	"	1010·0	964·9	...	27·9	20·6	15·9	18·2	49	...	5·5	...	9·5	0	0	31	1	8	12	5	2	3	0	0	0	0
Coimbatore (Peelamedu Aerodrome)	0530	399	1013·3	967·8	...	19·2	18·1	17·3	19·7	89	...	3·7	...	5·5	0	1	20	9	6	1	0	0	0	2	3	10	0
	0830	"	1015·1	970·0	...	22·3	19·7	18·2	20·9	78	...	4·6	..	9·2	0	1	27	8	11	4	0	0	0	1	4	3	0
	1130	"	1013·4	969·0	...	26·6	20·4	16·5	18·8	54	...	4·2	...	15·5	0	12	19	2	20	8	0	0	0	0	1	0	0
	1730	"	1010·0	965·9	...	27·6	20·4	15·7	17·8	49	...	4·5	..	13·2	0	5	26	1	15	10	1	0	4	0	0	0	0
	2330	"	1013·7	968·6	...	22·1	19·5	17·8	20·4	77	...	3·8	...	8·7	0	2	26	4	10	6	1	4	0	0	3	3	0
Salem	0530	278	1013·1	981·2	...	19·9	18·2	17·1	19·5	84	...	4·6	...	2·4	0	0	19	1	8	9	1	0	0	0	0	12	0
	0830	"	1015·0	983·3	+0·4	22·9	19·6	17·5	20·0	72	−3	3·8	+0·7	3·0	0	0	19	1	10	8	0	0	0	0	0	12	0
	1130	"	1013·3	982·3	...	28·1	21·0	16·6	18·9	50	...	5·6	...	5·6	0	0	27	4	9	11	0	0	0	2	1	4	0
	1730	"	1010·1	979·2	...	28·4	20·7	15·9	18·1	47	...	5·3	...	5·4	0	0	27	0	3	23	1	0	0	0	0	4	0
	2330	"	1013·5	981·9	...	23·3	19·9	17·8	20·4	71	...	4·0	...	8·4	0	0	28	0	11	17	0	0	0	0	0	3	0
Kallakurichi	0830	127	1014·9	1000·4	...	23·7	21·6	20·5	24·1	83	...	2·9	...	7·4	0	0	28	12	4	1	0	1	0	0	10	3	0
	1730	"	1011·1	996·8	...	27·3	23·5	21·7	25·9	73	...	3·8	...	8·3	0	0	31	5	22	4	0	0	0	0	0	0	0

*Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of standard pearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Cuddalore	0530	12	1012·4	1011·0	..	22·1	21·2	20·8	24·6	93	..	4·3	..	2·1	0	0	14	6	5	0	0	0	0	0	3	17	0
	0830	,,	1014·7	1013·3	+0·2	24·3	22·3	21·2	25·2	83	0	5·0	+0·8	5·0	0	0	28	15	3	0	0	0	0	0	10	3	0
	1130	,,	1014·1	1012·7	..	27·1	23·0	20·9	24·7	69	..	4·9	..	10·0	0	5	24	10	17	0	1	0	0	0	1	2	0
	1730	,,	1011·5	1010·1	..	26·1	22·9	21·2	25·2	74	..	4·4	..	9·1	0	2	29	10	17	3	0	0	0	0	0	0	0
	2330	,,	1013·6	1012·2	..	23·9	22·2	21·3	25·3	85	..	4·0	..	1·7	0	0	12	4	8	0	0	0	0	0	0	19	0
Tirupatur	0830	390	1015·6	971·1	..	19·7	19·1	18·6	21·4	93	..	5·2	..	3·0	0	0	17	6	6	1	1	2	0	1	0	14	0
	1730	,,	1010·8	967·4	..	26·4	21·4	18·6	21·4	63	..	4·6	..	7·4	0	0	29	16	2	4	0	6	0	0	1	2	0
Vellore	0530	214	1013·7	989·0	..	19·0	18·5	18·1	20·8	95	..	4·2	..	0·6	0	0	6	1	5	0	0	0	0	0	0	25	0
	0830	,,	1015·6	990·9	0·+5	21·4	19·9	18·9	21·8	86	+1	4·4	+1·1	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1014·3	990·1	..	26·4	21·5	18·7	21·6	63	..	5·0	..	6·5	0	0	29	6	17	2	1	0	1	2	0	2	0
	1730	,,	1011·3	987·1	..	26·4	21·4	18·5	21·3	63	..	3·8	..	6·2	0	0	31	1	13	16	0	0	1	0	0	0	0
	2330	,,	1014·4	989·9	..	23·1	21·2	20·1	23·5	83	..	3·5	..	3·9	0	0	25	3	14	8	0	0	0	0	0	6	0
Tambaram (Aerodrome)	0830	29	1014·9	1011·5	..	24·2	22·5	21·6	25·8	86	..	4·9	..	10·2	0	1	30	19	1	0	0	0	0	0	11	0	0
	1730	,,	1011·9	1008·6	..	26·0	22·6	20·8	24·6	73	..	4·6	..	16·7	0	8	23	9	18	1	2	0	0	0	1	0	0
Madras	0230	16	1012·8	1011·0	..	22·3	21·4	20·9	24·7	92	..	3·6	..	6·8	0	0	30	9	6	1	0	0	0	2	12	1	0
	0530	,,	1013·0	1011·2	..	21·8	20·9	20·5	24·1	92	..	3·6	..	6.7	0	0	29	5	2	1	0	0	0	5	16	2	0
	0830	,,	1015·2	1013·4	+0·3	23·8	21·9	20·9	24·7	84	0	4·6	+0·6	10·2	0	0	31	11	2	0	0	0	0	3	15	0	0
	1130	,,	1014·4	1012.6	..	27·1	22·6	20·2	23·7	67	..	5·8	..	16·2	0	10	21	15	6	2	0	0	0	0	5	0	3
	1730	,,	1012·3	1010·5	..	25·7	22·1	20·0	23·4	70	..	4·9	..	15·7	0	5	26	17	11	2	1	0	0	0	0	0	0
	2330	,,	1014·1	1012·3	..	23·1	21·8	21·1	25·0	89	..	3·9	..	7·5	0	0	28	13	5	2	0	0	0	1	7	0	0
Madras (Nungambakkam)	0830	6	1015·1	1014·4	..	24·1	22·4	21·6	25·8	86	..	4·1	..	6·9	0	0	28	9	3	1	0	0	0	0	15	3	0
Coastal Mysore																											
Karwar	0830	4	1014·2	1013·7	+0.5	24·2	20·1	17·6	20·1	67	..	2·0	..	5·5	0	0	26	1	8	12	3	0	0	0	2	5	0
	1730	,,	1010·8	1010·3	..	28·4	23·4	20·7	24·4	64	..	1·6	..	7·1	0	2	22	2	0	1	2	0	0	6	13	7	0
Honavar	0830	26	1014·3	1011·3	+0.9	22·9	18·6	15·9	18·1	64	+2	3·4	+0·4	6·5	0	0	29	2	13	13	0	[illegible]	0	0	1	2	0
	1730	,,	1010·3	1007·4	..	29·6	23·0	19·4	22·5	55	..	2·4	..	8·0	0	0	31	1	1	0	0	[illegible]	4	13	10	0	0
Mangalore	0830	22	1013·6	1011·1	+0·3	25·1	20·5	17·8	20·4	64	−3	2·8	+0·4	6·2	0	0	31	1	7	21	2	0	0	0	0	0	0
	1730	,,	1009·9	1007·4	..	28·7	23·3	20·5	24·1	62	..	3·7	..	6·3	0	0	31	6	0	1	0	0	2	8	14	0	0
Mangalore (Bajpe Aerodrome)	0230	102	1011·5	999·8	..	21·9	20·5	19·7	22·9	87	..	1·4	..	4·5	0	1	21	0	0	19	3	0	0	0	0	9	0
	0530	,,	1011·8	1000·0	..	21·1	19·6	18·7	21·6	86	..	1·3	..	6·9	0	0	27	0	1	19	7	0	0	0	0	4	0
	0830	,,	1013·7	1002·0	..	23·7	20·1	17·9	20·5	70	..	2·2	..	7·6	0	0	31	1	1	22	7	0	0	0	0	0	0
	1130	,,	1012·7	1001·3	..	29·5	21·0	15·7	17·8	44	..	2·1	..	9·7	0	1	30	1	1	16	7	2	0	1	2	0	1
	1730	,,	1009·8	998·4	..	28·0	22·2	19·1	22·1	59	..	3·1	..	9·4	0	1	30	0	0	0	1	0	1	8	21	0	0
	2330	,,	1012·6	1001·0	..	23·8	21·3	19·9	23·2	79	..	1·6	..	3·2	0	0	20	5	5	8	1	0	0	0	1	11	0
Interior Mysore (North)																											
Bidar	0830	664	1015·7	941·2	..	20·3	15·4	11·8	13·8	59	−3	3·4	+1·4	9·9	0	2	29	0	5	2	19	2	2	0	1	0	0
	1730	,,	1010·7	938·0	..	26·1	16·5	9·6	11·9	35	..	3·3	..	11.6	0	2	29	1	21	1	6	0	1	0	1	0	0
Gulbarga	0830	458	1016·4	964·7	+0·5	22·7	16·7	12·5	14·1	53	−6	2·7	+1·3	6·7	0	0	31	0	5	21	5	0	0	0	0	0	0
	1730	,,	1010·7	969·3	..	28·8	17·6	8·9	11·0	30	..	3·9	..	10·3	0	0	29	0	7	18	3	1	0	0	0	2	0
Bijapur	0830	594	1016·5	949·2	+0·5	18·8	15·5	12·9	14·9	69	+8	3·2	+1·4	5·7	0	0	23	2	3	3	5	6	2	1	1	8	0
	1730	,,	1010·2	945·2	..	27·5	18·0	11·5	13·6	37	..	3·7	..	3·0	0	0	23	4	6	4	2	2	2	1	2	8	0
Belgaum	0830	753	1015·4	931·3	+0·3	18·8	15·0	12·3	14·3	66	+2	2·3	+0·5	4·0	0	0	24	0	5	14	4	0	0	0	1	7	0
	1730	,,	1009·2	927·8	..	27·7	17·1	8·9	11·4	32	..	3·0	..	7·6	0	0	31	0	3	18	3	1	0	2	2	0	2
Belgaum (Sambre Aerodrome)	0530	747	1014·5	930·3	..	16·4	12·8	9·9	12·0	67	..	2·4	..	2·0	0	0	14	0	0	13	0	0	0	1	0	17	0
	0830	,,	1015·1	932·1	..	20·6	15·3	11·3	13·4	56	..	2·8	..	7·9	0	0	23	0	1	21	1	0	0	0	0	8	0
	1130	,,	1013·4	931·8	..	25·7	16·6	9·7	12·0	37	..	2·5	..	14·0	0	4	25	0	2	23	3	0	0	0	0	2	1
	1730	,,	1009·8	928·9	..	27·4	16·5	7·7	10·5	29	..	2·5	..	10·2	0	0	27	0	2	20	1	0	1	3	0	4	0
Gadag	0530	650	1014·1	940·7	..	17·5	16·1	15·1	17·1	86	..	1·7	..	4·1	0	0	18	0	1	12	4	1	0	0	0	13	0
	0830	,,	1015·3	942·9	+0·6	22·1	18·8	16·7	19·0	73	+11	2·2	+0·4	3·8	0	0	17	2	1	13	1	0	0	0	0	14	0
	1130	,,	1013·5	942·3	..	26·8	21·0	17·8	20·4	59	..	2·5	..	9·8	0	1	29	1	6	19	2	0	0	1	1	1	0
	1730	,,	1009·8	939·1	..	27·6	21·4	17·9	20·5	58	..	3·0	..	6·4	0	0	24	1	12	7	1	0	0	3	0	7	0
	2330	,,	1014·1	941·4	..	20·7	17·6	15·4	17·5	73	..	1·6	..	9·9	0	2	27	0	0	21	4	0	0	4	0	2	0
Raichur	0830	400	1016·2	970·9	+0·5	21·6	17·2	14·8	16·8	67	+2	3·9	+2·2	3·3	0	0	20	0	4	0	9	1	1	3	2	11	0
	1730	,,	1011·5	967·0	..	28.5	18·7	11·3	13·4	35	..	3·6	..	5·4	0	0	28	0	22	1	5	0	0	0	0	3	0
Interior Mysore (South)																											
Bellary	0830	449	1015·6	964·7	+0·1	21·2	19·4	18·1	20·8	83	+16	4·1	+1·5	3·6	0	0	27	0	1	0	24	0	1	0	1	4	0
	1730	,,	1010·0	960·7	..	28·7	24·1	21·7	25·9	67	..	4·2	..	4·1	0	0	28	0	3	0	24	0	1	0	0	3	0
Chitaldurga	0830	733	1015·0	933·2	+0·3	19·7	16·1	13·5	15·5	69	+1	2·5	−0·2	5·9	0	0	26	0	1	19	4	0	0	2	0	5	0
	1730	,,	1009·1	929·5	..	27·0	17·2	10·0	12·3	37	..	3·4	..	5·0	0	0	30	0	5	22	0	0	0	3	0	1	0
Shimoga	0830	571	1015·1	950·5	..	13·8	15·9	14·1	16·1	74	..	4·1	..	2·5	0	0	17	0	4	7	1	0	3	2	0	14	0
	1730	,,	1008·5	946·3	..	27·9	18·2	11·6	13·7	37	..	4·4	..	5·8	0	0	25	3	7	10	1	1	2	1	0	6	0

Division and station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)— *Contd.*																											
Balehonnur	0830	..	..	..	..	16·8	14·8	13·1	15·1	81	+5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Hassan	0830	960	1530·6	909·2	..	18·2	15·6	13·8	15·8	66	+1	3·7	+0·5	3·3	0	0	29	0	2	23	0	1	3	0	0	2	0
	1730	„	1515·2	905·9	..	25·0	17·3	12·1	14·1	47	..	4·7	..	4·0	0	0	29	3	0	19	4	0	2	1	0	2	0
Mysore	0830	767	1014·6	929·9	+0·7	20·4	17·0	14·6	16·6	70	−4	3·7	+0·3	6·9	0	0	25	0	6	16	1	1	0	0	1	6	
	1730	„	1009·2	926·3	..	26·7	18·9	12·6	14·6	45	..	4·4	..	7·2	0	0	29	0	5	17	0	0	5	2	0	2	0
Bangalore (Central Observatory—	0230	921	1510·6	911·3	..	16·4	15·5	14·8	16·8	91	..	3·2	..	7·5	0	0	31	0	5	25	1	0	0	0	0	0	0
	0830	„	1535·2	913·4	+0·6	18·8	16·2	14·5	16·5	77	−1	4·4	+0·9	8·6	0	0	30	1	10	13	5	0	1	0	0	1	0
	1130	„	1539·3	912·8	..	23·6	17·0	12·1	14·1	50	..	4·9	..	11·0	0	1	30	2	7	18	1	0	1	1	1	0	0
	1730	„	1516·7	910·4	..	23·6	17·0	12·3	14·3	50	..	5·1	..	9·0	0	0	27	1	5	18	3	0	0	0	0	4	0
Bangalore (Aerodrome)	0530	897	1510·2	914·0	..	15·9	15·3	15·0	17·0	94	..	2·9	..	4·8	0	0	17	1	7	9	0	0	0	0	0	14	0
	0830	„	1535·3	916·1	..	18·6	16·6	15·3	17·4	81	..	4·5	..	0·8	0	0	22	2	8	11	1	0	0	0	0	9	0
	1130	"	1540·3	915·4	..	24·3	17·9	13·7	15·7	53	..	4·5	..	13·0	0	3	22	1	4	18	2	0	0	0	0	6	0
	1730	„	1518·9	913·0	..	24·7	18·0	13·6	15·6	52	..	4·5	..	13·9	0	2	28	0	8	19	2	0	1	0	0	1	0
	2330	„	1525·2	915·1	..	18·3	16·8	15·9	18·1	86	..	2·5	..	7·9	0	0	25	0	5	20	0	0	0	0	0	6	0
Kerala																											
Kozhikode	0530	5	1011·5	1010·9	..	22·6	21·4	20·7	24·4	89	..	2·1	..	9·9	0	0	31	0	3	28	0	0	0	0	0	0	0
	0830	„	1013·6	1013·0	+0·6	24·7	21·8	20·2	23·7	76	..	2·5	−0·2	8·6	0	1	27	0	4	24	0	0	0	0	0	3	0
	1130	„	1012·8	1012·2	..	29·2	23·5	20·5	24·1	60	..	2·7	..	8·5	0	0	31	0	0	4	3	0	15	7	2	0	0
	1730	„	1009·9	1009·3	..	29·1	24·0	21·4	25·5	64	..	2·6	..	12·3	0	0	31	0	1	0	0	0	4	15	11	0	0
	2330	„	1012·4	1011·8	..	25·0	22·9	21·8	26·1	82	..	2·1	..	7·2	0	0	31	5	21	4	0	0	0	1	0	0	0
Palghat	0830	97	1014·1	1013·0	..	25·6	22·0	20·1	23·5	72	..	3·7	..	9·4	0	0	28	0	0	24	4	0	0	0	0	3	0
	1730	"	1009·5	998·7	..	29·6	22·9	19·1	22·1	55	..	4·7	..	7·4	0	0	30	0	2	17	4	0	1	5	1	1	0
Fort Cochin	0830	3	1013·3	1013·0	+0·4	26·3	22·9	21·0	24·9	73	0	4·8	+2·2	4·8	0	0	30	3	16	9	1	0	0	1	0	1	0
	1730	„	1009·7	1009·4	..	28·2	24·1	21·8	26·1	69	..	5·5	..	6·2	0	0	31	0	0	0	0	0	5	15	11	0	0
Cochin (Naval Air Station)	0230	3	1011·3	1011·0	..	24·2	23·0	22·3	26·9	89	..	3·8	..	2·5	0	0	17	4	5	6	1	0	0	1	0	14	0
	0530	„	1011·4	1011·1	..	23·2	22·0	21·3	25·3	89	..	3·2	..	3·2	0	0	22	3	9	10	0	0	0	0	0	9	0
	0830	"	1013·4	1013·1	..	25·5	22·5	20·7	24·4	75	..	3·6	..	6·1	0	0	29	2	12	12	2	1	0	0	0	2	0
	1130	"	1012·8	1012·5	..	29·4	23·5	20·4	24·0	59	..	3·7	..	9·0	0	0	29	4	5	7	2	0	3	4	4	2	0
	1730	"	1009·8	1009·5	..	29·0	24·0	21·8	26·1	64	..	4·9	..	11·8	0	0	31	0	0	0	0	0	4	16	11	0	0
	2330	"	1012·5	1012·2	..	25·7	23·9	23·0	28·1	85	..	4·1	..	3·4	0	0	19	4	4	6	2	0	0	1	2	12	0
Alleppey	0830	4	1013·0	1012·6	..	26·7	23·5	22·0	26·4	76	..	3·6	..	4·6	0	0	30	0	5	13	12	0	0	0	0	1	0
	1730	"	1009·6	1009·2	..	29·1	24·7	22·7	27·6	69	..	4·3	..	11·0	0	0	31	0	0	0	1	0	0	4	26	0	0
Punalur	0830	34	1013·2	1009·4	..	23·6	21·9	21·1	24·9	86	..	3·9	..	0·9	0	0	5	1	1	2	1	0	0	0	0	26	0
	1730	„	1009·1	1005·7	..	29·5	23·4	20·2	23·7	58	..	5·4	..	2·7	0	0	21	1	3	5	7	0	3	1	1	10	0
Trivandrum	0230	64	1010·9	1003·5	..	23·6	22·3	21·7	25·9	89	..	2·8	..	3·8	0	0	26	5	13	5	0	0	0	0	3	5	0
	0530	„	1011·1	1003·8	..	23·1	21·5	20·7	24·4	87	..	2·3	..	3·1	0	0	24	8	12	2	1	0	0	0	1	7	0
	0830	„	1013·1	1005·8	+0·6	25·1	22·6	21·3	25·3	80	0	2·5	−1·1	3·3	0	0	26	7	9	5	3	0	0	0	2	5	0
	1130	„	1012·1	1004·9	..	29·7	23·3	19·9	23·2	57	..	4·5	..	4·4	0	0	30	4	4	2	3	1	7	2	5	1	2
	1730	„	1010·0	1002·7	..	27·9	23·6	21·4	25·5	68	..	4·3	..	4·4	0	0	30	0	1	0	5	2	13	5	4	1	0
	2330	„	1012·2	1004·8	..	24·7	22·9	22·0	26·4	85	..	3·0	..	4·0	0	0	22	3	7	2	3	1	0	0	6	9	0
Trivandrum (Aerodrome)	0830	8	1013·0	1012·1	..	26·4	22·7	20·8	24·6	73	..	3·8	..	3·9	0	0	27	2	10	13	1	0	0	1	0	4	0
Hill Stations excluding Kashmir																											
Walong (R)	0830																										
(R)	1730																										
Kohima	0830	1406	1564·0	866·6	..	13·1	10·8	8·8	11·3	75	..	1·1	..	..	..	..	..	1	4	14	4	1	0	2	2	3	0
	1730	„	1527·3	862·4	..	14·3	12·5	11·2	13·2	82	..	2·8	..	..	..	..	..	3	12	11	0	0	0	1	3	1	0
Aizal	0830	..	..	..	..	16.3	13·7	11·5	13·5	74	..	(a) 3·2	..	(a) 2·5	(a) 0	0	(a) 26	1	1	14	3	2	2	3	0	4	0
	1730	..	..	..	..	18·5	14·8	12·1	13·9	68	..	2·8	..	2·5	0	0	25	2	0	0	1	0	6	13	3	6	0
Shillong	0830	1500	1529·2	853·1	+0·2	13·9	10·6	7·2	10·1	65	−4	2·3	+0·9	0·4	0	0	4	0	2	1	1	0	0	0	0	27	0
	1730	„	1503·7	850·6	..	13·2	12·0	10·9	13·3	87	..	7·2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Cherrapunji (R)	0830	1313																									
(R)	1730	„																									
Darjiling (Raj Bhawan)	0830	2128	1546·1	793·8	+3·3	7.7	6.6	5·1	9·1	84	+18	4·3	+1·7	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	„	1522·7	791·0	..	8·6	7·4	6·3	9·6	96	..	4·7	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Kalimpong	0830	1209	1473.3	877·2	−6·5	14·0	12·6	11·8	13·8	85	+12	1·5	−0·7	3·1	0	0	31	1	0	0	1	1	0	0	28	0	0
	1730	„	1471·1	876·9	..	14·1	12·5	11·6	13·3	83	..	2·0	..	3·3	0	0	31	0	0	0	29	2	0	0	0	0	0

(a) Mean of 3 days. (R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—*Contd.*																											
Mukteswar (Kumaon)	0830	2311	3148·7	775·4	+1·4	9·7	2·2	−14·3	1·8	22	−17	2·7	+0·4	10·4	0	0	29	0	2	4	2	1	1	1	8	2	0
	1730	„	3130·9	773·7	..	9·6	3·5	−6·2	3·6	33	..	2·8	..	13·4	0	2	24	1	2	1	0	1	1	11	9	5	0
Nainital	0830	1933	1523·4	807·4	..	8·0	3·1	−5·0	4·0	41	..	2·8	..	2·3	0	0	19	2	0	1	1	1	0	7	7	12	0
	1730	„	1504·5	805·8	..	9·7	4·8	−2·2	5·1	47	..	3·0	..	7·5	0	0	30	1	0	0	1	0	1	26	1	1	0
Joshimath	0830	..	..	..	..	8·5	2·7	−6·9	3·4	36	..	4·7	..	6·6	0	0	30	0	0	18	5	5	1	1	0	1	0
	1730	.	..	..	..	10·0	4·3	−3·5	4·6	40	..	4·0	..	4·6	0	0	31	0	0	1	5	17	8	0	0	0	0
Lokpal	0830	..	..	..	..	−7·9	−9·7	−16·8	1·4	47	..	3·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussoorie	0830	2042	1516·1	798·6	−0·4	10·4	4·5	−3·9	4·5	39	−6	3·4	+0·8	2·4	0	0	21	4	0	0	5	7	1	0	4	10	0
	1730	„	1505·7	798·2	..	9·9	6·2	2·1	7·1	61	..	4·0	..	2·5	0	0	24	4	1	0	5	8	3	0	3	7	0
Simla	0830	2202	1522·0	784·1	+0·1	9·8	2·4	−12·4	2·1	25	−9	3·0	+0·2	2·5	0	0	24	1	1	1	9	8	2	0	2	7	0
	1730	„	1511·8	782·8	..	8·8	3·5	−4·4	4·2	42	..	3·1	..	3·0	0	0	31	2	6	1	8	6	6	0	2	0	0
Dalhousie	0830	1959	1471·0	802·0	..	9·6	3·1	−7·9	3·1	33	..	2·0	..	4·3	0	2	9	1	4	2	3	1	0	0	0	20	0
	1730	„	1460·0	801·1	..	9·2	4·9	−0·6	5·8	54	..	1·8	..	4·3	0	2	12	0	3	5	4	0	1	1	0	17	0
Dharamshala	0830	1211	..	..	..	12·2	7·3	1·2	6·7	48	..	3·5	..	2·0	0	0	20	12	4	3	0	0	0	0	1	11	0
	1730	„	..	..	..	14·5	9·1	3·3	7·7	48	..	4·0	..	3·3	0	0	31	1	1	1	1	0	21	0	0	0	0
Abu	0830	1195	1535·0	884·7	−0·1	14·3	8·9	2·2	7·2	46	+2	1·8	+0·4	0·5	0	0	3	0	0	0	0	0	2	1	0	28	0
	1730	„	1525·0	883·2	..	18·1	11·4	4·6	8·5	42	..	2·1	..	1·2	0	0	7	1	0	0	0	1	4	1	1	24	0
Pachmarhi	0830	1075	1543·8	898·7	+0·4	14·5	11·8	9·3	11·7	73	+11	3·0	+1·3	1·1	0	0	12	1	1	0	0	4	0	0	5	19	0
	1730	„	1532·5	896·4	..	21·7	14·9	10·3	12·1	50	..	3·3	..	2·8	0	0	19	3	2	0	1	1	0	2	10	12	0
Mahabaleswar	0830	1382	1539·7	866·1	+0·8	16·8	11·9	7·2	10·1	55	0	2·8	+1·4	11·6	0	0	31	1	4	15	10	1	0	0	0	0	0
	1730	„	1522·3	864·1	..	20·8	14·5	9·4	11·8	49	..	1·9	..	9·9	0	0	31	0	6	4	5	0	3	0	13	0	0
Mercara	0830	1152	1526·5	888·1	+0·7	16·9	14·3	12·3	14·3	77	6	2·2	−2·0	6·2	0	0	30	0	15	15	0	0	0	0	0	1	0
	1730	„	1508·9	885·9	..	22·2	16·3	11·1	13·2	55	..	2·4	..	3·1	0	0	31	0	15	16	0	0	0	0	0	0	0
Kodaikanal	0830	2343	3137·2	773·1	+1·4	13·1	8·6	2·0	7·1	59	−5	4·3	+0·8	13·7	0	8	20	6	7	6	4	2	1	1	1	3	0
	1130	„	3172·5	772·8	..	16·2	10·9	4·9	8·7	55	..	4·5	..	13·0	0	7	19	3	9	8	3	1	1	0	1	5	0
	1730	„	3147·7	771·3	..	12·8	10·0	6·7	9·8	73	..	5·8	..	7·3	0	2	21	1	8	5	3	0	0	3	3	8	0
Cotacamund	0830	2249	1530·7	781·5	+1·1	12·3	8·1	5·1	8·8	64	0	2·7	−0·3	1·1	0	0	4	0	3	0	0	0	1	0	0	27	0
	1730	„	1501·6	779·8	..	15·5	11·7	8·5	11·1	65	..	3·6	..	0·2	0	0	1	0	0	1	0	0	0	0	0	30	0
Coonoor	0830	1747	1531·6	829·2	..	15·9	11·9	8·5	11·1	65	−7	3·7	−0·5	2·6	0	0	26	4	1	2	11	3	0	0	5	5	0
Nepal																											
Katmandu	0830	1324	1529·7	871·7	..	7·0	6·5	6·0	9·3	93	..	4·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	„	1526·4	870·5	..	16·9	11·8	7·2	10·1	54	..	1·8	..	0·1	0	0	1	0	0	0	0	0	0	1	0	30	0
	1730	„	1500·3	868·1	..	13·4	10·3	7·4	10·3	68	..	1·7	..	0·2	0	0	2	0	0	0	0	1	1	0	0	29	0
Sikkim																											
Lachen	0830	..	..	..	..	6·2	2·1	−4·4	4·2	4·7	..	..	..	...	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet																											
Yatung (Chumbi) (R)	0830																										
Ceylon																											
Colombo	0830	7	1012·8	1012·0	+0·6	25·4	22·8	21·4	25·5	79	−7	4·2	−0·2	9·4	0	0	31	8	15	6	1	1	0	0	0	0	0
	1730	„	1009·7	1008·9	..	27·8	23·8	21·8	26·1	71	..	5·6	..	11·0	0	1	28	13	4	0	1	0	2	4	5	2	0
Trincomalee	0830	3	1013·0	1012·6	+1·0	26·5	23·8	22·5	27·3	78	−7	5·7	+0·9	16·7	0	15	15	9	11	2	1	1	3	0	3	1	0
	1730	„	1010·4	1010·0	..	26·6	23·6	22·2	26·7	76	..	6·0	..	22·3	0	19	12	15	12	0	1	0	1	0	2	0	0
Batticoloa	0830	3	1013·2	1012·9	..	26·0	23·9	22·9	27·9	83	..	5·4	..	13·5	0	9	21	2	7	1	0	1	1	11	7	1	0
	1730	„	1010·6	1010·3	..	26·5	23·8	22·5	27·3	79	..	5·3	..	16·0	0	11	19	10	12	4	1	0	0	0	3	1	0
Hambantota	0830	15	1012·4	1010·7	+1·0	26·0	23·5	22·2	26·7	80	−7	4·0	+0·3	18·2	0	13	18	4	23	0	0	0	1	0	3	0	0
	1730	„	1009·6	1007·4	..	27·5	24·3	22·7	27·6	75	..	5·4	..	22·0	0	18	13	1	15	5	4	5	1	0	0	0	0
Mannar	0830	4	1013·7	1013·3	..	26·1	23·7	22·9	27·9	80	..	4·7	..	9·0	0	4	27	6	18	4	1	0	1	0	1	0	0
	1730	„	1010·7	1010·3	..	27·0	23·7	21·7	25·5	75	..	6·0	..	11·6	0	3	27	9	17	0	0	0	0	0	4	1	0
Hydrometeorological Observatories Damodar Catchment																											
Bokaro	0830	242	1018·3	989·8	..	14·3	11·4	8·4	11·5	68	..	2·3	..	..	0	0	26	1	1	0	0	0	6	16	2	5	0
	1730	„	1014·8	986·6	..	15·6	12·2	8·8	11·6	63	..	2·3	..	..	0	0	24	11	1	0	0	0	0	0	12	7	0
Hazaribagh	0830	615	1017·1	946·9	..	16·5	11·6	6·9	9·9	54	..	2·1	..	5·0	0	0	22	2	0	1	0	1	0	9	9	9	0
	1730	„	1014·0	944·3	..	17·7	12·5	7·8	10·7	53	..	1·9	..	2·2	0	0	14	0	0	0	0	0	0	7	7	17	0
Tilaiya	0830	..	..	..	..	17·6	12·5	7·4	11·4	52	..	1·4	..	6·1	0	1	23	1	1	0	0	0	1	12	2	7	7
	1730	..	..	..	..	20·0	13·1	6·0	9·5	41	..	0·6	..	3·8	0	0	27		0	1	0	1	1	17	3	4	4
Ramgarh	0830	..	..	..	..	13·7	11·4	9·5	11·7	74	..	2·3	..	1·3	0	0	19	1	0	0	1	2	10	3	2	12	0
	1730	..	..	..	..	21·2	16·4	12·7	14·3	59	..	2·6	..	0·7	0	0	7	1	0	0	0	2	2	0	2	24	0

(R) Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—(*contd.*)																											
Damodar Catchment—(*contd.*)—Panchet Hills	0830	..	..	..	..	17·7	13·8	10·3	12·7	62	..	2·7	..	5·0	0	0	30	0	0	0	0	2	19	7	2	1	0
	1730	..	..	..	..	21·4	15·6	10·9	13·0	52	..	4·1	..	5·0	0	0	21	3	0	0	2	0	2	3	11	10	0
Durgapur	0830	..	..	..	..	18·8	75·2	12·2	14·5	66	..	2·7	..	5·6	0	0	31	2	3	0	0	0	0	0	26	0	0
	1730	..	..	..	..	22·9	17·2	13·1	14·9	55	..	2·1	..	4·6	0	0	31	3	2	0	1	0	2	4	19	0	0
Maithon*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Konar	0830	..	..	..	..	..	..	..	..	..	..	2·0	..	8·0	1	0	30	0	0	0	0	0	0	29	2	0	0
	1730	..	..	..	..	..	..	..	..	..	..	2·1	..	4·7	0	0	30	1	0	0	0	0	0	29	1	0	0
Mahanadi Catchment Hirakud	0830	159	1017·5	999·1	..	20·3	16·6	13·8	15·9	67	..	2·8	..	3·5	0	0	17	6	5	3	3	0	0	0	0	14	0
	1730	"	1013·5	995·4	..	23·8	18·2	14·2	15·8	56	..	3·1	..	1·7	0	0	11	1	0	1	2	0	0	1	6	20	0
Khijrawan	0830	..	..	..	..	17·3	14·8	12·2	14·8	74	..	(a) 1·8	..	(a) 2·4	0	0	17	0	1	11	4	0	0	0	1	13	0
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sonepur	0830	..	..	..	..	19·7	17·1	15·3	17·4	76	..	..	..	2·4	0	0	22	2	1	5	7	1	2	3	1	9	0
Gmabahar	0830	..	..	..	..	16·4	13·3	10·1	12·9	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhimkund	0830	..	..	..	..	16·8	14·1	11·6	14·1	72	..	2·2	..	0·3	0	0	3	3	0	0	0	0	0	0	0	28	0
	1730	..	..	..	..	22·5	17·0	12·7	15·2	55	..	2·8	..	0·4	0	0	4	0	0	0	0	0	0	0	4	27	0
Narbada Catchment Punasa	0830	..	..	..	..	18·7	14·5	10·8	13·4	61	..	..	..	2·9	0	0	22	1	11	4	0	2	0	2	2	9	0
	1730	..	..	..	..	28·7	19·2	12·2	14·4	37	..	..	..	1·2	0	0	11	0	5	0	0	4	0	2	0	20	0
Bagra Tawa	0830	..	..	..	..	17·1	13·4	10·0	12·8	64	..	1·9	..	3·6	0	0	17	1	9	0	1	2	3	1	0	14	0
	1730	..	..	..	..	25·0	18·0	12·8	15·0	47	..	1·7	..	0·2	0	0	1	0	1	0	0	0	0	0	0	30	0
Thikri	0830	..	..	..	..	19·9	14·8	10·6	12·7	55	..	1·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment Jhadol	0830	..	..	..	..	12·1	9·4	6·4	9·6	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharoi	0830	..	..	..	..	20·2	13·8	8·0	10·7	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·9	16·3	6·4	9·6	28	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment Mukhim	0830	..	..	..	..	10·4	4·1	5·1	4·0	35	..	2·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·1	5·1	−3·0	4·8	38	..	3·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..		6·0	5·0	3·9	8·1	86	..	2·7	..	0·1	0	0	2	0	0	0	1	0	1	0	0	29	0
	1130	..	..	..	..	15·1	9·3	2·8	7·5	44	..	2·8	..	1·5	0	0	14	2	0	0	1	2	4	3	1	17	1
	1730	..	..	..	..	17·4	10·8	4·0	8·1	42	..	2·9	..	2·8	0	0	20	0	1	1	11	7	0	0	0	11	0
Gandak Catchment Gorkha (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	13·8	11·6	9·4	11·8	75	..	2·7	..	2·7	0	0	21	6	2	1	1	1	5	0	5	10	0
	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16.0	13·0	10.7	12·9	71	..	(c) 2·8	..	1·8	0	0	14	2	7	3	1	0	1	0	0	13	0
Nawakot	0830	..	..	..	..	14·8	12·2	10·1	12·3	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·7	12·7	9·4	11·8	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom	0830	..	..	.	.	4·8	0·1	7·2	3·3	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	.	..	7·9	3·7	−1·1	5·6	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	13·4	9·9	7·2	10·1	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	.	18·2	13.7	10·8	12.9	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..		6·7	3·3	−1·3	5·5	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	.	11·6	8·6	5·9	9·3	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans-Himalayan Region) Dailekh (R)	0830	..	..	.	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment Dandeldhura	0830	..	..	..	..	11·9	5·7	−2·7	5·1	39	..	3·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·2	5·6	−1·7	5·4	44	..	3·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Munsiyari (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
R	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	20·6	15·7	11·9	13·9	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·6	17·6	14·8	13·8	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment Katmandu†	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment Chautara	0830	..	..	..	..	11·2	9·0	7·1	10·1	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·9	10·5	6·8	9·9	58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received. Data not available (a) Mean of 30 days. †Data included under Nepal. (c) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*Contd.*																											
Kosi Catchment—*Contd.*																											
Chepua	0830	..	..	..	..	8·0	5·3	3.1	7·4	71	..	..	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·1	8·2	6·8	9 3	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga	0830	..	..	..	..	11·1	9·0	7·3	10·1	78	..	2·7	..	2·1	0	0	5	0	1	1	1	2	0	0	0	26	0
	1130	..	..	..	..	14·4	10·4	7·1	10·1	62	..	3·0	..	2·9	0	0	19	1	0	0	0	0	4	8	6	12	0
	1730	..	...	...	..	10·5	9·2	8·0	10·7	84	..	4·5	..	1·8	0	0	11	0	0	1	1	0	1	3	5	20	0
Barahkshetra	0830	146	1018·1	1000·9	..	15·3	13·9	12·7	14·7	85	..	0·8	..	5·1	0	0	30	2	5	4	8	2	4	0	5	1	0
	1130	"	1015·6	998·7	..	21·4	17·4	14·5	16·5	65	..	1·7	..	4·3	0	0	29	0	0	0	0	0	21	3	5	2	0
	1730	"	1013·4	996·3	..	18·5	16·4	14·9	16·9	80	..	2·8	..	5·2	0	0	31	0	4	16	10	1	0	0	0	0	0
Angbung *	0830	..	..	..	..	15·3	11·8	8·8	11·3	65	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
*	1730	..	..	..	..	17.3	12·6	8·6	11·2	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	10·1	8·6	7.1	10.1	83	..	4·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	14·3	10.8	8·0	10.7	67	..	3·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11.8	8·9	6.5	9.7	69	..	5·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	13.6	9·9	6·3	9·5	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14.8	10·9	7·3	10·2	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	6.7	3·0	−1·3	5·5	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	2·9	0·7	−2·2	5 1	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	12·8	10·1	7·9	10·7	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·2	9·9	8·9	11·4	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	13·6	11.3	9·3	11.7	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·4	11·7	9·4	11·8	72	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment																											
Gangtok	0830	1812	1533·6	822·3	..	9·4	8·0	6·6	9·7	84	..	4·8	..	0 2	0	0	2	0	0	1	0	1	0	0	0	29	0
	1130	"	1515·0	820.9	..	12·8	10·3	8·3	10·9	76	..	5·2	..	1·2	0	0	12	0	0	0	1	7	3	0	1	19	0
	1730	"	1504.7	819·6	..	10·3	9·1	7·9	10·7	86	..	6·5	..	0·4	0	0	4	0	0	0	1	3	0	0	0	27	0
Geyzing	0830	..	..	..	..	13·2	10·7	8.7	11·2	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·4	10·5	9·0	11·5	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Observations for 30 days.

Division and station.	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed Km. per hour	Wind speed (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind directions: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
January																											
Arabian Sea Islands																											
Minicoy	0530	2	1011·1	1010·9	..	24·0	22·5	21·8	26·1	88	..	3·3	..	6·1	0	1	24	9	10	1	0	1	2	0	2	6	0
	0830	,,	1013·1	1012·9	+0·2	26·1	23·9	22·8	27·7	83	+9	3·9	+1·0	6·6	0	0	27	9	9	6	0	0	2	1	0	4	0
	1130	,,	1013·2	1013·0	..	28·9	24·7	22·8	27·7	70	..	3·6	..	11·0	0	0	30	10	9	7	0	0	1	1	2	1	0
	1730	,,	1010·5	1010·3	..	23·2	24·3	22·4	27·1	71	..	4·1	..	10·5	0	0	31	11	13	2	0	2	0	1	2	0	0
	2330	,,	1012·6	1012·4	..	25·6	23·3	22·2	26·7	82	..	3·6	..	7·2	0	0	29	10	14	1	1	0	1	1	1	2	0
Amini Divi*	0830	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
February																											
Minicoy	0530	2	1010·5	1010·3	..	23·8	22·6	21·9	26·3	89	..	3·7	..	4·2	0	0	22	11	4	1	1	0	0	0	5	7	0
	0830	,,	1012·5	1012·3	−0·4	26·1	24·1	23·0	28·1	82	+8	5·4	+2·3	6·7	0	0	29	12	5	4	2	0	0	0	6	0	0
	1130	,,	1012·9	1012·7	..	29·0	25·0	23·0	28·1	69	..	5·2	..	10·2	0	0	29	13	5	7	2	0	0	0	2	0	0
	1730	,,	1009·5	1009·3	..	28·4	24·5	22·7	27·6	72	..	5·2	..	9·7	0	0	29	16	7	3	1	0	0	0	2	0	0
	2330	,,	1011·9	1011·7	..	25·0	23·3	22·5	27·3	87	..	2·7	..	6·1	0	0	26	13	4	4	2	0	0	0	3	3	0
Amini Divi*	0830	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
March																											
Minicoy	0530	2	1009·6	1009·4	..	26·0	23·9	23·0	28·1	84	..	3·8	..	7·0	0	0	26	17	1	1	0	0	0	1	3	5	0
	0830	,,	1011·6	1011·4	0·4	28·3	24·9	23·4	28·8	75	+3	4·7	+1·9	8·9	0	0	29	18	5	1	0	0	0	0	5	2	0
	1130	,,	1012·0	1011·8	..	30·0	25·6	23·5	28·9	67	..	4·2	..	10·7	0	0	31	17	6	4	0	0	1	1	2	0	0
	1730	,,	1008·8	1008·6	..	29·5	25·2	23·3	28·6	70	..	5·0	..	9·9	0	0	30	19	4	2	0	0	1	1	3	1	0
	2330	,,	1011·3	1011·1	..	26·9	24·3	23·2	28·4	81	..	2·8	..	7·4	0	0	29	14	4	1	0	1	1	2	6	2	0
Amini Divi	0830	4	1011·7	1011·2	..	29·4	26·0	24·5	30·7	75	+2	3·6	+1·1	4·0	0	1	20	6	0	0	0	0	1	1	13	10	0
April																											
Minicoy	0530	2	1008·2	1008·0	..	26·0	24·5	23·7	29·3	87	..	5·0	..	5·6	0	0	21	4	5	4	0	0	1	5	2	9	0
	0830	,,	1010·3	1010·1	−0·3	25·3	25·7	24·5	30·7	81	+9	5·9	+2·5	7·5	0	0	26	5	4	4	2	1	0	4	6	4	0
	1130	,,	1010·7	1010·5	..	30·6	26·4	24·6	30·9	71	..	5·4	..	9·7	0	0	30	3	4	6	5	1	0	2	9	0	0
	1730	,,	1007·5	1007·3	..	30·0	26·0	24·3	30·4	72	..	5·6	..	8·7	0	0	29	4	4	6	1	2	0	3	9	1	0
	2330	,,	1010·3	1010·1	..	27·0	25·1	24·3	30·4	85	..	4·7	..	7·5	0	0	25	3	1	4	0	0	1	4	9	5	0
Amini Divi	0830	4	1010·8	1010·1	..	29·9	27·1	26·1	33·8	87	+16	4·0	+0·6	1·5	0	0	12	2	1	1	0	0	1	2	5	18	0
May																											
Minicoy	053	2	1007·0	1006·8	..	27·2	24·9	23·8	29·5	82	..	7·3	..	18·6	0	8	23	1	0	0	1	0	3	20	6	0	0
	0830	,,	1008·6	1008·4	−1·4	27·9	25·5	24·3	30·4	81	+5	7·7	+3·4	17·4	0	4	27	1	0	0	1	0	2	21	6	0	0
	1130	,,	1009·0	1008·8	..	29·2	26·1	24·6	30·9	77	..	6·8	..	15·5	0	3	28	1	0	0	0	1	2	16	11	0	0
	1730	,,	1006·6	1006·4	..	28·5	25·8	24·7	31·1	81	..	7·0	..	16·1	0	6	24	3	0	0	0	1	3	17	9	1	0
	2330	,,	1008·8	1008·6	..	27·6	25·4	24·4	30·5	83	..	5·9	..	19·6	0	12	19	2	0	0	0	1	3	18	7	0	0
Amini Divi	0830	4	1007·8	1007·4	..	29·1	26·2	24·7	31·1	77	+4	4·1	0·5	13·6	0	10	14	6	0	0	1	1	4	12	6	7	0
June																											
Minicoy	0530	2	1008·5	1008·3	..	27·2	24·9	23·8	29·5	82	..	6·8	..	17·5	0	6	24	0	0	0	0	0	0	29	1	0	0
	0830	,,	1010·0	1009·8	+0·4	28·1	25·3	24·0	29·8	79	−2	6·8	+1·2	17·4	0	7	23	0	0	0	0	0	1	28	1	0	0
	1130	,,	1010·3	1010·1	.	29·4	25·9	24·3	30·4	74	..	5·6	..	18·0	0	7	23	0	0	0	0	0	0	20	10	0	0
	1730	,,	1008·2	1008·0	..	28·8	25·5	24·1	30·0	76	..	6·4	..	19·8	0	11	19	0	0	0	0	0	1	21	8	0	0
	2330	,,	1010·2	1010·0	..	27·8	25·3	24·1	30·0	81	..	4·8	..	20·1	0	13	17	0	0	0	0	0	1	23	6	0	0
Amini Divi	0830	4	1008·8	1008·4	..	29·3	25·8	24·4	30·1	76	−7	3·3	−3·0	17·0	0	12	17	0	0	0	0	0	8	20	1	1	0
July																											
Minicoy	0530	2	1007·9	1007·7	..	26·9	24·6	23·6	29·1	82	..	6·7	..	21·2	0	16	15	0	0	0	0	0	1	20	10	0	0
	0830	,,	1009·4	1009·2	−0·7	27·4	24·8	23·6	29·1	80	+1	7·2	+1·9	19·8	0	10	21	0	0	0	0	0	1	22	8	0	0
	1130	,,	1009·8	1009·6	..	28·2	25·1	23·8	29·5	78	..	6·7	..	19·0	0	11	20	2	0	0	0	0	0	18	11	0	0
	1730	,,	1007·7	1007·5	..	28·0	25·1	23·8	29·5	78	..	6·8	..	21·5	0	16	15	0	0	0	0	0	0	19	12	0	0
	2330	,,	1009·9	1009·7	..	27·1	24·8	23·7	29·3	82	..	6·2	..	23·8	0	17	14	0	0	0	0	0	1	17	13	0	0
Amini Divi	0830	4	1008·1	1007·7	..	27·8	25·3	24·2	30·2	81	−2	2·3	−3·9	24·1	0	20	10	0	0	0	0	0	3	19	8	1	0

Division and station.	Hour of observation I. S. T.	Stations elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed. Km. per hour	Wind speed (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind directions: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Arabian sea islands—contd.																											
August																											
Minicoy	0530	2	1009·3	1009·1	..	26·1	24·3	23·4	28·8	85	..	6·0	..	16·9	0	7	24	0	0	0	0		0	18	13	0	0
	0830	,,	1010·8	1010·6	−0·1	26·8	24·5	23·5	28·9	82	+3	6·9	+2·2	14·9	0	3	28	0	0	0	0	0	0	16	15	0	0
	1130	,,	1011·1	1010·9	..	28·1	25·1	23·8	29·5	77	..	5·6	..	16·7	0	6	25	0	0	0	0	0	0	14	17	0	0
	1730	,,	1008·7	1008·5	..	27·8	25·0	23·7	29·3	78	..	6·3	..	17·9	0	7	24	1	0	0	0	0	0	18	12	0	0
	2330	,,	1011·2	1011·0	..	26·6	24·5	23·5	28·9	82	..	4·3	..	19·6	0	13	18	1	0	0	0	0	0	13	17	0	0
Amini Divi	0830	4	1010·0	1009·6	..	27·6	25·2	24·1	30·0	81	−2	3·3	−2·4	14·5	0	10	21	1	0	0	0	0	0	20	10	0	0
September																											
Minicoy	0530	2	1008·9	1008·7	..	26·0	24·0	23·1	28·3	84	..	6·0	..	18·9	0	17	13	0	0	0	0	0	0	20	10	0	0
	0830	,,	1010·8	1010·6	−0·5	26·8	24·4	23·3	28·6	81	+2	6·9	+2·7	17·3	0	13	17	0	0	0	0	0	0	18	12	0	0
	1130	,,	1011·0	1010·8	..	28·0	25·1	23·7	29·3	79	..	5·9	..	19·2	0	9	21	0	0	0	0	0	0	13	17	0	0
	1730	,,	1008·5	1008·3	..	27·3	24·6	23·4	28·8	80	..	6·3	..	21·2	0	16	14	0	0	0	0	0	0	15	15	0	0
	2330	,,	1010·9	1010·7	..	26·6	24·3	23·3	28·6	82	..	5·1	..	21·9	0	19	11	0	0	0	0	0	0	17	13	0	0
Amini Divi	0830	4	1009·9	1009·4	..	27·1	24·8	23·8	29·5	83	+2	2·6	−2·4	18·8	0	12	17	0	1	0	0	0	0	12	16	1	0
October																											
Minicoy	0530	2	1010·1	1009·9	..	25·0	23·4	22·6	27·4	87	..	4·2	..	8·6	0	1	25	6	0	0	0	0	1	10	9	5	0
	0830	,,	1012·1	1011·9	+0·5	27·1	24·6	23·3	28·6	80	+3	5·7	+1·5	8·8	0	1	30	4	2	1	0	1	1	10	12	0	0
	1130	,,	1012·2	1012·0	..	28·4	24·9	23·2	28·4	74	..	5·5		8·9	0	0	29	3	2	2	1	0	0	9	12	2	0
	1730	,,	1009·4	1009·2	..	27·9	24·7	23·2	28·4	76	..	5·2	..	9·2	0	1	29	3	0	0	1	1	1	11	13	1	0
	2330	,,	1011·8	1011·6	..	25·8	23·9	22·9	27·9	85	..	4·0	..	9·3	0	3	26	1	0	0	0	0	3	12	13	2	0
Amini Divi	0830	4	1011·7	1011·2	..	27·2	24·7	23·5	28·9	80	+1	3·2	−1·7	5·3	0	1	13	1	0	1	0	0	0	4	8	17	0
November																											
Minicoy	0530	2	1009·7	1009·5	..	25·4	23·8	23·0	28·1	87	..	5·6	..	9·6	0	1	27	4	0	1	0	0	6	11	6	2	0
	0830	,,	1011·9	1011·7	+0·1	26·5	24·5	23·6	29·1	84	+6	5·6	+1·6	8·8	0	1	28	3	1	0	1	3	3	11	7	1	0
	1130	,,	1012·0	1011·8	..	28·1	25·1	23·7	29·3	78	..	5·7	..	9·5	0	0	30	3	0	1	0	3	3	11	9	0	0
	1730	,,	1009·3	1009·1	..	27·0	24·5	23·3	28·6	80	..	6·1	..	9·7	0	0	28	4	0	0	0	1	3	9	11	2	0
	2330	,,	1011·6	1011·4	..	26·0	24·2	23·3	28·6	85	..	5·3	..	10·5	0	0	29	5	1	0	0	2	3	10	8	1	0
Amini Divi	0830	4	1012·0	1011·5	..	27·3	24·9	23·6	29·1	81	+6	3·1	−0·8	3·9	0	0	19	1	2	0	7	0	1	2	6	11	0
December																											
Minicoy	0530	2	1011·3	1011·1	..	24·1	22·7	21·9	26·3	88	..	2·1	..	4·6	0	0	25	10	12	1	0	0	0	0	2	6	0
	0830	,,	1013·2	1013·0	+0·8	26·2	23·9	22·7	28·8	80	+6	3·5	+0·2	5·7	0	0	28	10	9	5	1	0	0	0	3	3	0
	1130	,,	1013·1	1012·9	..	28·9	24·8	22·8	27·7	70	..	3·4	..	6·4	0	0	29	9	7	6	1	1	0	0	5	2	0
	1730	,,	1010·3	1010·1	..	28·0	24·4	22·5	28·6	72	..	4·0	..	6·8	0	0	29	11	10	3	0	0	1	0	4	2	0
	2330	,,	1012·6	1012·4	..	25·2	23·1	22·2	26·7	83	..	2·7	..	7·3	0	0	26	10	8	7	1	0	0	0	0	5	0
Amini Divi	0830	4	1013·6	1013·1	..	27·4	24·2	22·8	27·7	76	+7	3·0	0	4·3	0	0	25	9	8	0	0	0	0	0	8	6	0
	†1730	,,	1009·4	1009·4	..	29·3	24·2	21·9	26·3	64	..	4·0	..	4·3	0	0	17	7	4	2	0	0	0	0	4	3	0

† Observation for 20 days.

EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AN

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Bay Islands																					
Maya Bandar	33·9	16·8	41·2	31·7	17·8	31·4	33·9	18·9	9·4	36·1	18·9	67·8	35·0	17·2	184·7	36·1	21·1	213·4	32·8	21·1	160·4
	1953	1957	1960	1956	1954	1960	1955	1955	1953	1955	1953	1953	1952	1952	1955	1952	1958	1955	1960	1954	1959
Long Island	31·7	18·3	56·0	33·3	15·6	156·0	35·6	19·4	50·0	36·1	21·1	100·3	34·9	21·1	186·2	33·3	21·1	209·8	33·3	20·4	129·0
	1958	1953	1960	1959	1953	1960	1959	1955	1959	1953	1956	1953	1957	1955	1955	1957	1955	1955	1953	1960	1959
Port Blair	32·7	16·7	208·3	33·3	17·2	131·1	35·1	17·8	67·1	36·1	20·6	206·8	36·1	20·6	264·9	35·6	19·4	258·3	32·8	18·3	164·9
	1958	1940	1922	1958	1949	1902	1958	1949	1881	1889	1939	1922	1889	1939	1891	1933	1939	1908	1941	1941	1959
Car Nicobar	31·5	16·1	104·1	35·0	16·1	82·5	33·2	16·8	53·3	34·1	19·4	99·6	34·0	21·1	129·0	32·2	21·7	127·0	31·7	21·2	111·4
	1958	1956	1954	1954	1956	1956	1958	1957	1953	1958	1960	1956	1958	1952	1955	1953	1956	1955	1957	1957	1960
Nancowry	33·9	21·7	74·9	33·9	20·0	91·2	35·0	21·1	49·0	36·7	20·6	79·0	36·1	18·9	154·0	32·2	21·1	120·4	31·1	21·7	139·2
	1954	1956	1953	1959	1956	1956	1954	1956	1954	1952	1952	1956	1952	1952	1960	1953	1956	1957	1954	1956	1952
Kondul	30·0	20·6	168·7	30·6	19·4	90·2	31·7	20·2	77·5	33·2	20·7	95·8	35·0	21·7	133·3	31·6	21·7	201·2	33·1	21·1	86·9
	1953	1956	1953	1959	1953	1953	1958	1960	1958	1960	1960	1955	1957	1956	1956	1957	1955	1954	1957	1954	1957
Assam (including Manipur, Tripura)																					
Pasighat	25·5	7·1	41·2	31·0	7·5	28·0	33·2	12·8	26·2	35·4	16·1	50·3	33·3	18·2	125·2	36·2	21·1	131·4	36·3	22·3	332·7
	1960	1959	1959	1960	1959	1959	1958	1959	1959	1959	1959	1959	1958	1958	1958	1958	1959	1959	1959	1959	1959
Digboi	26·6	5·6	52·3	29·4	7·4	24·6	32·8	10·0	40·1	35·6	13·8	66·0	36·1	17·4	57·2	37·2	20·6	95·8	38·9	21·0	118·4
	1959	1956	1956	1956	1959	1959	1958	1957	1956	1959	1957	1957	1956	1957	1959	1956	1957	1957	1960	1960	1956
Dibrugarh	27·8	5·0	35·6	30·6	4·4	46·5	34·4	6·1	55·9	35·6	12·2	197·1	36·7	16·7	153·9	38·9	15·6	202·2	37·8	20·0	182·0
	1946	1940	1911	1942	1905	1917	1960	1903	1915	1937	1920	1913	1947	1909	1960	1905	1910	1931	1956	1908	1958
Dibrugarh (Mohanbari Aerodrome).	26·1	3·9	24·6	30·0	4·8	55·9	33·4	8·3	55·1	34·8	13·9	58·7	34·8	15·0	102·1	36·7	20·0	112·8	37·2	21·5	125·8
	1952	1953	1956	1952	1960	1954	1960	1957	1955	1958	1954	1954	1960	1960	1959	1953	1955	1951	1952	1957	1960
North Lakhimpur	26·7	2·8	26·9	30·2	5·4	22·4	32·9	8·1	74·2	34·9	14·3	99·6	35·2	17·6	178·3	36·0	20·9	100·5	36·6	20·6	199·9
	1955	1956	1957	1960	1958	1960	1958	1957	1955	1960	1959	1954	1960	1957	1958	1959	1957	1959	1960	1954	1956
Sibsagar	28·9	3·3	43·7	30·6	2·8	42·9	35·6	7·2	113·0	37·2	12·8	148·6	42·8	16·7	188·2	37·8	19·4	189·2	38·9	20·6	218·9
	1942	1917	1945	1942	1905	1892	1945	1917	1892	1960	1912	1913	1945	1893	1931	1881	1907	1903	1883	1909	1929
Jorhat	26·7	5·3	34·0	31·1	7·8	18·3	34·1	8·9	48·3	37·5	15·0	50·8	37·8	16·1	119·9	36·0	20·6	146·6	36·1	21·7	95·5
	1955	1960	1954	1954	1959	1959	1960	1957	1954	1960	1960	1954	1960	1955	1957	1959	1955	1959	1960	1956	1959
Golaghat	26·7	6·1	16·5	30·6	1·1	22·0	35·6	6·6	37·6	38·9	15·6	53·3	38·9	11·1	134·6	36·7	19·9	76·2	36·7	18·3	118·0
	1958	1960	1957	1954	1958	1959	1954	1958	1956	1960	1960	1958	1960	1958	1957	1960	1957	1957	1960	1957	1959
Gohpur	25·4	4·2	14·0	29·3	5·5	21·5	33·2	9·9	34·2	35·4	14·4	32·3	33·8	16·6	95·5	36·6	21·6	59·0	36·0	22·2	68·6
	1958	1960	1958	1960	1960	1958	1958	1959	1959	1958	1959	1958	1958	1959	1959	1959	1959	1958	1958	1958	1959
Tezpur	27·8	5·6	29·5	31·7	6·1	38·6	36·7	10·0	62·0	38·3	13·3	100·1	38·9	17·2	148·1	36·7	19·4	136·7	36·7	21·7	142·7
	1907	1945	1907	1952	1905	1940	1923	1927	1912	1960	1905	1946	1960	1955	1904	1953	1907	1904	1936	1956	1947
Tezpur (P.B.O.)	27·2	5·7	33·3	31·7	8·3	18·5	35·1	11·1	39·9	38·2	16·1	52·3	38·6	18·3	112·8	36·1	20·6	75·7	36·3	21·7	88·1
	1952	1960	1957	1952	1953	1957	1960	1952	1955	1960	1955	1954	1960	1955	1957	1953	1955	1960	1957	1956	1955
Majbat	..	..	29·7	..	..	14·0	..	..	44·5	..	..	68·6	..	..	100·2	..	..	142·2	..	..	96·0
	..	..	1957	..	..	1957	..	..	1955	..	..	1956	..	..	1959	..	..	1959	..	..	1960
Chaparmukh	28·4	7·3	9·1	33·3	10·1	15·1	37·2	12·0	20·9	41·1	16·4	18·0	41·2	19·8	45·8	37·2	22·8	50·6	36·2	24·4	74·2
	1958	1960	1959	1960	1960	1959	1958	1959	1959	1960	1960	1959	1960	1958	1960	1959	1959	1959	1958	1958	1958

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Bay Islands
32.2	20.6	109.7	31.7	20.5	104.9	31.8	20.0	72.2	35.0	21.1	109.0	30.6	19.3	85.0	1952	1952	Maya Bandar.
1953	1953	1956	1955	1958	1954	1960	1955	1960	1953	1954	1959	1960	1958	1959			
36.7	21.7	147.3	32.7	21.4	124.7	32.2	21.1	122.2	32.2	20.6	119.1	31.7	17.2	53.9	1952	1952	Long Island.
1952	1956	1956	1957	1957	1957	1952	1956	1952	1953	1954	1953	1954	1953	1952			
31.7	21.1	173.2	31.7	21.7	178.1	35.6	19.4	153.2	31.7	20.0	147.3	32.2	18.8	295.7	1881	1881	Port Blair.
1932	1952	1934	1888	1954	1904	1906	1912	1926	1960	1949	1901	1896	1958	1937			
31.7	21.1	148.6	33.3	20.6	132.6	31.7	20·6	198.4	31.1	19.4	122.2	35.6	16.7	158.8	1952	1952	Car Nicobar.
1954	1956	1959	1954	1952	1958	1953	1960	1955	1955	1958	1955	1955	1952	1957			
32.8	21.3	115.3	31.7	21.1	95.2	33.9	21.7	157.8	33.3	21·1	83.3	34.4	20.6	87.3	1952	1952	Nancowry.
1959	1959	1956	1954	1956	1960	1953	1959	1960	1960	1955	1955	1953	1954	1957			
31.7	21.1	131.0	31.1	21.7	113.0	30.8	22.2	162.6	30.6	21.1	135.6	30.6	21.6	82.3	1952	1952	Kondul.
1957	1955	1958	1957	1954	1953	1957	1954	1952	1957	1955	1960	1955	1959	1955			
																	Assam (including Manipur, Tripura).
36.3	20.9	215.6	36.3	19.6	180.3	34.6	17.6	119.4	30.6	12.4	5.8	27.4	8.4	13.8	1958	1958	Pasighat.
1959	1958	1958	1958	1959	1958	1958	1959	1958	1958	1959	1959	1958	1958	1958			
37.7	21.5	98.2	36.6	19.4	77.2	34.4	15.0	157.5	31.5	10.7	20.0	27.7	7.8	25.4	1956	1956	Digboi.
1960	1958	1960	1958	1959	1959	1956	1957	1956	1958	1959	1960	1958	1959	1957			
37.8	21.1	223.5	36.6	16.1	182.1	36.1	15.0	104.7	32.2	8.9	53.3	28.8	5.6	56.1	1901	1901	Dibrugarh.
1956	1903	1920	1959	1905	1941	1907	1943	1913	1942	1933	1932	1960	1918	1931			
36.7	19.5	98·0	36.1	20.8	140.5	35.0	14.2	78.0	31.7	8.8	31.8	28.1	5.0	22.9	1951	1951	Dibrugarh. (Mohanbari Aerodrome).
1953	1958	1952	1951	1960	1954	1955	1960	1953	1952	1960	1957	1960	1955	1951			
36.7	21·7	111.2	36.1	21.4	155.2	35.0	10.6	115.1	31.7	8.2	45.7	28.3	3.3	23.6	1954	1954	North Lakhimpur.
1957	1958	1958	1954	1960	1954	1955	1955	1956	1954	1960	1957	1954	1955	1954			
37.8	18.3	154.4	36.4	19.4	182.4	35.6	15·0	99·6	32·2	9.4	53·9	28·9	4.4	36.3	1881	1871	Sibsagar.
1931	1944	1929	1958	1890	1902	1938	1938	1925	1896	1928	1930	1958	1916	1936			
37.2	22.2	126.0	36.1	21.4	82.8	35.6	15.6	56.1	30.6	10.0	20.1	28.9	5.0	14.7	1951	1951	Jorhat.
1955	1956	1959	1955	1960	1958	1955	1957	1956	1958	1953	1960	1960	1954	1958			
36.7	17.2	92.2	36.7	21.7	96.0	34.4	17.5	50.5	31.7	8.8	36.3	29.4	6.3	25.4	1954	1954	Golaghat.
1960	1957	1956	1958	1960	1958	1956	1960	1955	1958	1957	1955	1960	1959	1957			
36.0	21.6	58.6	36.0	20.5	80.2	34.3	16.6	86.1	31.6	8.8	12.7	27.7	7.2	40.4	1958	1958	Gohpur.
1959	1958	1958	1958	1959	1959	1958	1960	1958	1958	1960	1959	1960	1959	1958			
37.2	21.1	166.6	36.7	20.6	102.9	36.1	15.6	140.7	33.3	10.6	59.9	28.9	6.7	19.3	1901	1901	Tezpur.
1953	1945	1952	1909	1959	1917	1956	1941	1909	1952	1953	1901	1960	1925	1907			
36.7	22.9	149.6	36.1	20.6	121.7	35.0	17.2	112.8	31.1	11.7	41.1	28.3	7.2	19.1	1951	1951	Tezpur (P.B.O.).
1953	1958	1952	1953	1959	1953	1956	1957	1952	1952	1953	1951	1951	1955	1953			
..	..	115.4	..	..	96.8	..	..	70.6	..	..	39.2	..	..	27.9	..	1954	Majbat.
..	..	1957	..	..	1960	..	..	1955	..	..	1958	..	..	1956			
37.8	24.2	47.0	37.3	20.6	111.1	35.4	18.3	20.0	33.3	13.8	10.2	30.0	9.8	8.1	1958	1958	Chaparmukh.
1959	1959	1959	1958	1959	1959	1958	1959	1959	1958	1959	1958	1958	1959	1958			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. = Information not available.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AN

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Assam (including Manipur, Tripura) —(*contd.*)																					
Tangla . . .	28·2	6·0	31·0	30·7	8·3	29·3	35·4	11·6	48·3	37·9	13·9	109·0	38·9	18·2	86·2	36·6	22·1	125·4	36·8	20·9	81·5
	1958	1960	1957	1960	1960	1957	1958	1960	1955	1960	1960	1959	1960	1960	1959	1960	1958	1959	1959	1960	1955
Gauhati . .	28·9	5·0	41·1	35·0	6·1	53·3	38·3	6·1	56·1	40·6	12·8	75·7	41·1	16·1	185·4	36·7	18·9	194·3	37·2	20·6	232·9
	1955	1925	1945	1951	1932	1914	1909	1906	1915	1960	1907	1955	1960	1955	1941	1952	1955	1956	1914	1955	1933
Gauhati . . (Bhorjor Aerodrome). .	28·4	5·1	39·1	32·2	6·1	16·5	37·2	10·3	49·8	39·5	14·4	100·3	40·3	17·2	96·8	36·7	21·1	173·7	35·9	21·9	102·9
	1958	1960	1957	1956	1951	1957	1954	1957	1955	1960	1952	1955	1960	1955	1958	1952	1955	1953	1960	1958	1951
Rangiya . .	28·2	8·0	6·0	30·6	8·8	35·6	35·9	10·8	34·0	38·4	12·2	40·6	39·5	17·1	60·5	36·2	20·6	175·6	37·2	21·9	85·0
	1960	1959	1959	1960	1960	1958	1958	1960	1959	1960	1960	1958	1960	1960	1958	1959	1960	1959	1960	1960	1960
Goalpara . .	29·0	6·1	72·4	32·4	7·2	31·7	37·6	10·2	29·0	39·9	14·6	91·4	41·4	16·7	141·7	36·7	16·1	160·8	35·9	21·2	204·0
	1959	1960	1957	1960	1956	1958	1958	1957	1955	1958	1957	1956	1960	1955	1954	1957	1955	1959	1960	1960	1960
Dhubri . .	29·4	6·1	54·1	32·2	2·8	59·9	38·3	10·0	107·9	41·1	12·2	197·6	41·4	15·9	226·3	36·9	13·9	368·3	35·0	22·2	285·7
	1953	1905	1945	1901	1905	1904	1909	1906	1885	1939	1905	1948	1960	1957	1944	1960	1953	1909	1933	1951	1908
Dhubri . . (Rupsi Aerodrome)	26·8	5·0	55·4	29·2	6·4	24·9	38·2	11·1	23·9	41·0	14·8	138·0	41·2	17·1	84·4	35·2	20·4	157·2	37·9	22·7	160·0
	1958	1960	1957	1958	1958	1958	1960	1957	1958	1960	1960	1959	1960	1958	1960	1960	1960	1959	1959	1959	1957
Tura . . .	27·2	7·2	24·5	31·7	10·0	32·3	37·2	12·2	88·2	38·5	15·6	101·1	39·4	15·6	193·3	34·2	18·4	167·4	33·9	19·4	229·1
	1954	1953	1959	1956	1956	1954	1958	1952	1959	1960	1959	1952	1960	1959	1952	1960	1960	1956	1951	1960	1951
Agartala . .	29·9	3·9	50·1	34·4	6·1	45·0	38·9	10·0	98·6	41·5	16·1	141·2	42·2	16·1	123·4	36·3	21·1	196·6	34·8	22·2	136·9
	1958	1955	1957	1960	1956	1958	1958	1957	1960	1960	1955	1955	1960	1955	1956	1958	1955	1956	1958	1958	1954
Kailashar (C.W.O.)	29·9	6·0	8·6	34·1	7·3	17·3	36·9	10·8	41·6	42·2	16·6	27·6	42·0	18·5	72·4	36·1	21·5	214·3	35·5	23·2	79·9
	1959	1960	1959	1960	1959	1959	1960	1960	1959	1960	1959	1959	1960	1959	1959	1959	1960	1960	1960	1959	1959
Silchar . . .	30·0	5·6	100·1	32·8	5·0	90·4	37·8	8·3	245·4	39·4	13·9	165·1	38·9	15·6	290·3	37·8	20·0	227·3	39·4	21·1	234·7
	1946	1899	1911	1952	1905	1927	1901	1927	1922	1937	1935	1934	1937	1886	1893	1900	1921	1913	1896	1897	1915
Silchar . . . (Kumbhigram Aerodrome)	29·6	8·3	20·8	29·0	8·5	48·0	38·0	12·2	118·0	38·4	16·4	60·4	39·8	17·9	144·6	36·2	21·6	277·7	35·7	21·8	100·4
	1959	1960	1958	1958	1959	1959	1960	1960	1959	1960	1959	1959	1960	1958	1958	1960	1960	1959	1959	1959	1958
Imphal . .	24·4	—1·7	30·5	27·6	—1·1	39·4	32·3	3·3	51·4	34·4	9·2	61·2	34·8	13·9	120·1	33·6	18·1	69·1	32·2	19·4	76·5
	1955	1954	1957	1960	1955	1959	1958	1954	1959	1960	1957	1955	1960	1955	1956	1958	1958	1957	1956	1956	1954
Half-long . .	24·6	7·1	48·0	28·5	5·4	65·8	33·3	10·6	48·4	32·8	12·6	164·1	35·6	14·9	248·2	32·2	17·6	242·8	31·9	18·9	199·9
	1958	1959	1957	1960	1959	1954	1958	1959	1959	1960	1958	1955	1956	1958	1958	1955	1960	1960	1960	1956	1960
Lumding . .	28·8	3·4	27·7	33·9	4·4	34·5	38·3	8·4	47·0	41·9	10·6	34·8	41·9	17·2	110·2	37·8	20·0	135·6	37·6	17·8	114·3
	1958	1960	1957	1952	1956	1957	1958	1957	1959	1960	1951	1956	1960	1955	1956	1960	1953	1957	1958	1955	1956
Sub-Himalayan West Bengal																					
Cooch Behar (C.W.O.)	27·8	3·9	34·0	31·3	5·9	16·3	37·3	10·0	35·2	39·4	13·9	74·2	39·9	16·2	134·4	36·3	19·4	286·2	35·1	22·7	259·1
	1954	1955	1957	1960	1958	1954	1958	1958	1959	1954	1955	1958	1960	1960	1954	1960	1955	1958	1959	1960	1954
Jalpaiguri . .	28·9	5·0	37·6	31·1	2·2	71·9	36·1	7·8	68·6	40·0	10·6	152·4	39·4	16·1	161·0	37·2	17·0	234·9	37·2	22·2	390·4
	1931	1937	1889	1931	1905	1914	1945	1906	1926	1932	1905	1945	1899	1910	1938	1927	1957	1903	1933	1949	1892
Bagdogra . .	28·9	3·4	37·1	31·7	5·0	12·0	36·7	8·7	43·7	41·7	12·9	86·1	39·4	13·9	137·7	36·7	20·4	175·4	36·7	21·6	208·3
	1954	1960	1954	1955	1956	1960	1954	1959	1956	1952	1960	1952	1957	1955	1956	1952	1960	1958	1951	1960	1960
Malda . . .	29·4	4·4	69·1	33·9	3·9	45·0	41·7	7·2	53·9	43·6	11·1	63·0	45·0	18·3	195·1	44·4	20·0	167·9	37·8	21·1	191·8
	1958	1937	1957	1952	1905	1942	1941	1898	1926	1960	1953	1892	1958	1945	1938	1958	1955	1945	1897	1906	1958
Gangetic West Bengal																					
Dum Dum . .	31·7	7·2	27·2	35·6	8·9	17·0	40·6	12·2	24·8	42·8	18·1	53·1	42·9	19·4	27·4	41·8	21·7	129·0	35·2	22·5	137·2
	1958	1959	1957	1952	1956	1957	1955	1957	1960	1954	1957	1955	1958	1952	1951	1957	1953	1956	1958	1957	1953

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Assam (Including Manipur, Tripura)—(*contd.*)
36·6	22·1	106·4	36·7	20·3	88·0	35·0	17·2	69.8	31·9	9·8	86·4	29·5	8·0	20·6	1958	1954	Tangla.
1960	1960	1958	1960	1959	1959	1960	1960	1958	1958	1960	1956	1960	1958	1954			
37·8	21·1	187·7	37·2	20·0	133·9	35·6	15·6	94·3	32·2	10·6	36·8	29·4	5·0	21·3	1906	1906	Gauhati
1933	1955	1938	1928	1955	1949	1955	1921	1959	1950	1926	1924	1955	1918	1957			
36·1	22·8	129·2	35 9	21·2	89·7	34·4	15·2	60·2	32·5	11·1	19·8	30·9	7·2	16·5	1951	1951	Gauhati. (Bhorjor Aerodrome).
1953	1955	1960	1957	1959	1953	1955	1957	1951	1957	1954	1956	1957	1955	1952			
37·2	22·3	100·8	36·8	19·9	99·3	35·1	18·0	54·0	34·5	11·1	20·3	28·9	10·1	2·0	1958	1958	Rangiya.
1960	1958	1960	1958	1960	1960	1959	1960	1960	1959	1960	1959	1960	1960	1958			
40·5	21·3	104·9	36·7	18·3	221·7	36·1	16·1	81·4	32·6	11·7	25·9	31·1	7·2	19·6	1954	1954	Goalpara.
1959	1960	1957	1959	1955	1958	1956	1954	1959	1958	1960	1956	1955	1955	1955			
35·6	21·7	196·9	35·0	21·7	363·6	33·9	17·2	155·2	31·1	11·7	82·5	27·8	7·8	17·3	1891	1881	Dhubri.
1942	1957	1924	1906	1960	1960	1956	1902	1919	1905	1903	1952	1944	1922	1894			
36·1	15·1	195·8	34 8	21 4	273·9	33·5	15·6	220·0	31·4	10·7	3·8	28·2	8·2	0·4	1957	1957	Dhubri (Rupsi Aerodrome).
1957	1957	1957	1960	1960	1960	1960	1957	1958	1958	1960	1957	1958	1959	1958			
35·6	20·5	284·7	37·2	17·4	270·2	32·8	14·4	164·3	32·8	10·4	39·4	30·6	9·4	5·3	1951	1951	Tura.
1957	1960	1956	1958	1959	1960	1955	1960	1953	1952	1960	1952	1951	1959	1956			
36·4	22·8	238·8	35 0	21·7	115·6	35 0	14·9	86·9	32·8	10·6	104·7	30·0	7·2	10·9	1953	1953	Agartala.
1957	1955	1955	1954	1956	1956	1955	1957	1959	1955	1953	1955	1960	1955	1956			
35·5	22·7	46·6	35·6	21·5	72·4	34·2	17·7	138·1	30·4	11·3	57·2	31·5	7·9	0	1959	1959	Kailashar (C.W.O.)
1960	1959	1959	1960	1959	1960	1960	1960	1959	1960	1960	1960	1960	1959	..			
38·3	19·4	154·9	38·3	18·9	178 6	36·7	15 6	186·2	35·0	10·6	174·2	31·7	6·1	100·8	1881	1881	Silchar.
1900	1906	1890	1887	1890	1939	1944	1914	1912	1900	1902	1955	1945	1913	1883			
36·9	22·9	72·4	36·6	22·2	106·7	36·2	18·8	93·2	32·4	12·8	30·0	31·2	9·2	4·3	1958	1958	Silchar (Kumbhigram Aerodrome).
1958	1958	1960	1958	1958	1958	1958	1959	1959	1958	1960	1960	1960	1959	1958			
32·9	18·9	65·5	32 2	16·1	66·3	31·7	9·2	80·1	28·3	3·7	46·0	26·1	—0·6	6·3	1954	1954	Imphal
1957	1955	1959	1955	1956	1958	1955	1957	1959	1955	1960	1955	1960	1955	1955			
33·2	19·8	100·3	32 2	17·9	85·3	32·7	13·2	237·1	27·1	11·1	234·2	25·6	8·0	35·6	1954	1954	Half-long.
1957	1958	1954	1959	1959	1957	1960	1957	1959	1958	1954	1955	1958	1958	1954			
38·3	21·1	118·9	37 2	20·0	91·7	35·0	14·7	107·9	32·2	9·4	101·6	28·8	6·1	21·1	1951	1951	Lumding.
1953	1956	1952	1951	1953	1954	1956	1957	1952	1951	1953	1955	1960	1955	1957			
																	Sub-Himalayan West Bengal.
36·3	22·8	315·5	35·6	21·0	329·7	35·0	15·1	77·5	31·4	10·5	0	29·4	6·7	23·8	1953	1953	Cooch Behar (C.W.O.).
1957	1954	1957	1953	1959	1960	1955	1957	1958	1958	1960	..	1953	1954	1958			
37·2	21·1	220·8	36·1	21·1	347·7	35·6	15·6	244·3	33·3	9·4	92·7	30·0	5·6	53·9	1891	1886	Jalpaiguri.
1933	1918	1958	1933	1944	1886	1926	1947	1909	1952	1914	1924	1951	1918	1932			
36·7	22·1	233·2	39·2	20·4	148·3	33·9	13·3	164·4	33·3	8·9	20·3	31·1	4·4	5·3	1951	1951	Bagdogra.
1957	1957	1958	1958	1960	1953	1956	1955	1959	1952	1953	1952	1951	1955	1956			
36·7	22·8	188·0	36·1	21·7	215·9	35·6	15·0	173·7	33·3	8·3	64·3	29·4	5·0	32·8	1896	1886	Malda.
1957	1948	1918	1896	1940	1953	1932	1908	1894	1896	1934	1930	1951	1896	1913			
																	Gangetic West Bengal
35·5	23·6	83·3	35·6	23·2	214·4	35·9	16·7	150·2	33·9	11·8	40·9	30·9	9·4	15·2	1951	1951	Dum Dum.
1960	1958	1954	1957	1959	1956	1957	1954	1959	1952	1960	1951	1960	1959	1954			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T. .. =Information not available.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Gangetic West Bengal—(*contd.*)																					
Calcutta	31·9	6·7	46·7	36·7	7·2	80·8	41·1	10·0	69·9	43·3	16·1	107·4	43·7	18·3	156·2	43·9	21·1	303·5	36·7	22·8	183·6
	1958	1899	1943	1952	1950	1906	1941	1898	1907	1954	1905	1918	1958	1887	1893	1924	1900	1908	1920	1940	1905
Barrackpore	31·1	7·3	39·9	34·6	9·4	20·1	40·1	11·0	34·5	41·9	17·3	35·0	42·9	22·0	25·1	43·3	19·9	78·5	35·6	21·7	82·8
	1958	1959	1957	1960	1959	1957	1958	1957	1960	1959	1957	1958	1958	1959	1959	1958	1957	1959	1958	1958	1960
Saugor Island	30·6	7·8	41·4	33·9	7·2	77·0	38·3	12·2	125·7	39·4	17·2	78·7	38·3	17·8	202·7	40·0	19·4	359·2	36·1	16·2	354·1
	1931	1899	1948	1952	1950	1885	1934	1906	1907	1908	1942	1921	1908	1893	1932	1929	1925	1927	1920	1960	1913
Sandheads	30·5	13·5	33·0	32·0	20·2	65·3	35·1	17·8	62·7	35·9	26·1	72·6	33·2	22·8	87·9	32·8	24·9	334·0	32·9	17·2	290·8
	1960	1960	1944	1960	1960	1958	1960	1960	1940	1960	1960	1911	1960	1960	1950	1960	1960	1940	1960	1960	1921
Contai	31·7	9·4	41·0	37·2	10·0	29·0	40·1	14·7	23·4	40·6	20·0	23·1	41·1	17·2	295·1	38·8	21·1	207·5	35·7	21·7	128·5
	1958	1955	1959	1951	1953	1954	1958	1957	1951	1952	1956	1952	1960	1951	1960	1957	1952	1956	1959	1952	1957
Midnapore	32·8	6·1	54·6	37·2	5·6	66·0	42·8	11·1	79·5	45·6	17·2	78·2	46·7	19·4	145·3	47·2	20·0	276·9	37·2	22·2	160·8
	1946	1934	1957	1922	1950	1931	1953	1925	1920	1938	1953	1949	1943	1950	1956	1942	1950	1950	1926	1943	1929
Purulia	31·1	7·8	12·7	35·0	7·2	22·9	41·7	13·5	35·3	43·9	16·1	26·4	45·6	20·0	48·8	45·6	20·6	61·5	36·7	17·8	148·3
	1958	1954	1953	1952	1956	1956	1955	1957	1956	1954	1955	1959	1955	1952	1959	1953	1956	1951	1958	1953	1951
Bankura	..	..	33·0	..	..	18·3	..	..	34·0	..	..	38·9	..	..	45·4	..	..	60·7	..	..	86·9
	..	..	1957	..	..	1953	..	..	1960	..	..	1952	..	..	1958	..	..	1957	..	..	1957
Burdwan	36·7	6·1	43·7	37·8	4·4	84·1	41·7	10·0	115·8	45·0	16·1	116·8	46·1	18·3	244·3	45·6	20·0	175·3	38·9	20·0	299·2
	1951	1934	1944	1896	1905	1938	1941	1928	1887	1897	1886	1909	1916	1882	1893	1926	1953	1928	1897	1953	1905
Krishnagar	34·4	3·9	51·8	37·8	3·9	73·7	42·2	7·8	87·4	45·0	13·9	114·5	46·1	16·7	138·4	45·1	20·0	209·8	37·2	22·2	244·3
	1912	1934	1898	1896	1886	1943	1941	1898	1886	1954	1886	1946	1958	1893	1918	1958	1907	1890	1949	1955	1905
Asansol	31·7	5·6	51·6	36·1	5·0	43·4	41·7	11·1	44·2	45·0	10·4	46·7	47·2	18·3	127·0	47·2	20·6	174·5	40·0	19·4	269·7
	1958	1934	1944	1952	1950	1927	1941	1923	1949	1954	1960	1945	1944	1927	1938	1926	1922	1957	1926	1947	1943
Suri	31·1	6·7	132·3	35·0	8·3	14·2	41·1	12·7	22·3	44·6	17·8	20·1	46·1	19·4	80·4	45·4	20·0	73·7	38·2	22·0	131·8
	1955	1956	1957	1960	1956	1957	1955	1957	1956	1960	1955	1955	1958	1956	1959	1958	1955	1956	1958	1960	1955
Berhampore	31·2	3·9	69·6	36·7	5·0	60·7	42·2	8·9	62·2	45·0	15·6	54·6	46·1	16·7	55·7	44·4	19·4	202·4	38·3	22·2	221·0
	1958	1933	1957	1926	1950	1937	1941	1898	1887	1954	1936	1893	1916	1882	1915	1953	1884	1898	1897	1955	1900
Orissa																					
Baripada	33·8	8·3	28·4	38·3	10·5	46·3	41·6	15·0	33·5	44·6	21·1	32·6	46·9	22·3	53·2	47·8	22·5	181·1	35·2	23·9	99·8
	1958	1960	1959	1959	1960	1957	1958	1959	1956	1957	1960	1959	1958	1959	1960	1958	1960	1956	1958	1959	1958
Balasore	33·3	7·2	85·1	38·3	6·7	76·2	40·6	11·7	70·4	45·0	16·7	71·4	46·7	19·4	221·5	46·1	20·0	217·2	38·3	20·0	347·2
	1958	1934	1908	1934	1905	1923	1955	1927	1897	1892	1905	1947	1895	1893	1887	1926	1900	1956	1897	1913	1940
Balurghat* Chandbali	32·8	8·3	35·1	37·8	10·0	36·3	40·6	13·9	40·1	43·3	17·2	52·3	43·9	17·8	186·4	46·7	18·3	164·3	36·7	21·7	321·8
	1950	1934	1948	1934	1942	1940	1954	1952	1940	1947	1943	1944	1942	1931	1936	1942	1931	1936	1929	1946	1941
Cuttack	35·6	7·8	61·0	38·9	10·6	98·0	42·8	14·4	99·1	43·9	17·2	94·5	47·7	20·6	142·7	47·2	21·7	205·7	40·0	21·1	210·8
	1882	1923	1919	1896	1934	1917	1902	1906	1911	1954	1905	1899	1957	1946	1893	1948	1955	1925	1897	1943	1943
Bhubaneswar	33·6	9·4	35·6	37·2	10·6	52·6	40·7	16·1	28·2	43·9	19·4	34·3	44·9	15·0	94·5	45·0	21·7	91·4	36·1	20·4	144·4
	1958	1952	1953	1953	1956	1958	1959	1952	1960	1954	1952	1952	1958	1960	1955	1952	1955	1954	1952	1960	1958
Puri	32·8	10·6	53·1	35·0	11·7	107·9	38·9	15·6	57·9	41·1	18·9	82·0	42·2	16·7	171·7	39·4	19·4	200·4	36·7	21·7	301·5
	1946	1893	1921	1954	1955	1897	1899	1906	1919	1947	1946	1919	1943	1893	1893	1949	1908	1895	1938	1944	1918
Gopalpur	32·8	10·0	47·2	36·7	11·7	134·4	40·0	15·6	95·8	38·9	19·4	55·1	43·3	20·0	126·5	41·9	21·1	171·7	38·3	20·6	200·9
	1946	1899	1908	1954	1934	1937	1956	1925	1957	1940	1955	1894	1915	1948	1940	1958	1939	1914	1957	1929	1936
Koraput	29·4	6·1	53·3	31·7	6·7	10·2	36·1	10·6	35·6	37·2	15·0	53·9	38·9	17·2	38·9	40·0	17·8	234·6	31·1	16·1	232·7
	1958	1959	1953	1953	1956	1957	1953	1952	1954	1956	1956	1956	1956	1955	1951	1953	1955	1959	1960	1957	1951

X=Highest Maximum Temperature. *Observatory started on 12-9-1960 N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Gangetic West Bengal—(*Contd.*)
36·1	23·3	253·0	36·1	22·2	369·1	35·6	17·2	172·2	33·9	10·6	85·1	30·7	7·2	53·1	1881	1881	Calcutta
1944	1935	1888	1939	1940	1900	1957	1954	1882	1952	1883	1950	1957	1910	1883			
36·3	23·6	81·5	35·4	23·4	164·0	34·3	18·5	231·1	31·6	11·6	37·8	29·9	8·3	0·3	1957	1957	Barrackpore.
1957	1958	1957	1957	1960	1959	1957	1957	1959	1959	1960	1958	1957	1960	1959			
36·7	21·1	232·4	36·1	22·2	283·4	33·9	17·2	321·6	32·8	12·2	113·3	29·4	9·4	91·9	1881	1881	Saugor Island.
1903	1953	1954	1921	1950	1958	1918	1898	1933	1944	1883	1955	1907	1896	1947			
35·8	22·5	176·3	34·9	25·6	137·2	36·2	22·4	155·2	34·8	22·7	132·6	34·2	21·1	144·8	1960	1911	Sandhead
1960	1960	1946	1960	1960	1946	1960	1960	1931	1960	1960	1915	1960	1960	1909			
36·7	22·8	169·1	35·0	21·7	240·0	34·2	18·3	200·7	32·8	12·6	64·8	31·1	10·0	29·7	1951	1951	Contai.
1951	1954	1960	1951	1959	1958	1957	1954	1955	1952	1960	1955	1956	1955	1954			
36·1	21·7	201·2	36·1	21·7	311·5	35·6	15·6	325·1	33·9	10·0	111·3	31·7	6·7	62·0	1921	1886	Midnapore
1947	1955	1891	1957	1952	1958	1951	1954	1942	1937	1934	1941	1957	1937	1914			
35·0	17·2	118·8	36·1	17·2	181·6	35·6	16·7	65·0	32·2	11·1	55·4	30·1	9·4	7·4	1951	1951	Purulia.
1954	1953	1960	1955	1953	1958	1951	1954	1959	1952	1952	1955	1957	1952	1956			
..	..	78·0	..	..	106·0	..	..	76·0	..	..	57·1	..	..	7·4	..	1951	Bankura.
..	..	1960	..	..	1958	..	..	1959	..	..	1953	..	..	1954			
36·1	21·7	260·6	37·8	20·0	304·8	36·7	16·1	216·3	35·6	10·6	106·9	31·7	7·2	69·6	1881	1881	Burdwan.
1945	1954	1909	1928	1953	1956	1951	1933	1959	1896	1883	1916	1951	1883	1934			
36·7	21·1	165·3	37·2	21·1	293·9	36·7	14·4	214·8	36·1	8·3	151·1	32·2	5·0	37·3	1886	1886	Krishnagar.
1956	1949	1926	1955	1887	1900	1960	1935	1959	1952	1934	1889	1954	1937	1954			
37·2	21·7	189·2	36·1	20·0	269·0	36·7	15·0	99·1	36·1	8·3	99·1	31·7	6·7	29·7	1921	1916	Asansol
1932	1933	1935	1941	1946	1946	1932	1938	1929	1955	1926	1930	1946	1937	1929			
36·6	22·8	116·3	34·9	20·6	238·3	35·5	17·0	135·6	31·4	12·1	49·5	29·6	7·8	29·0	1955	1955	Suri.
1960	1955	1956	1957	1956	1956	1957	1957	1959	1957	1960	1956	1957	1955	1956			
37·1	21·7	183·4	38·9	21·7	182·9	37·8	16·1	286·3	35·0	8·3	75·2	32·2	6·7	33·5	1881	1881	Berhampore.
1957	1933	1939	1947	1956	1900	1951	1954	1917	1952	1934	1930	1951	1935	1913			
																	Orissa
35·8	23·8	198·2	36·1	23·5	97·5	35·9	18·3	187·6	33·3	11·4	58·4	32·6	8·3	1·2	1956	1956	Baripada.
1957	1960	1960	1957	1959	1957	1957	1960	1959	1957	1959	1958	1957	1959	1959			
35·6	21·7	255·2	35·6	22·2	189·5	36·1	15·6	323·3	34·4	8·9	184·7	31·7	6·7	78·7	1891	1886	Balasore.
1955	1933	1960	1922	1919	1899	1925	1926	1941	1896	1892	1950	1944	1897	1947			Balurghat*
35·0	22·2	194·3	35·6	21·7	320·8	35·6	17·8	169·7	33·9	11·7	207·8	32·8	8·3	49·5	1931	1931	Chandbali.
1954	1933	1960	1951	1959	1950	1951	1952	1952	1949	1959	1950	1949	1939	1947			
37·2	21·7	320·8	36·7	21·7	249·2	38·9	16·7	292·6	35·0	10·6	195·6	33·3	8·9	54·9	1880	1881	Cuttack.
1880	1943	1933	1901	1933	1891	1886	1926	1899	1896	1937	1950	1954	1922	1909			
35·0	21·7	107·7	35·0	22·2	163·0	35·1	16·1	188·2	35·0	12·8	15·6	32·7	9·4	10·9	1952	1952	Bhubaneswar.
1952	1953	1954	1957	1955	1958	1957	1954	1954	1952	1953	1955	1957	1955	1954			
36·7	21·7	187·7	36·1	17·2	210·8	36·1	16·7	316·2	33·9	13·9	242·8	32·8	10·6	88·9	1891	1891	Puri.
1891	1898	1896	1901	1893	1934	1899	1901	1928	1914	1926	1915	1896	1895	1909			
37.2	19.4	229.9	36.7	20·6	196.9	36.3	16.7	281.7	33.5	12.2	261.6	32.2	10.0	105.7	1891	1881	Gopalpur.
1928	1911	1940	1920	1917	1886	1957	1897	1923	1957	1926	1923	1951	1902	1909			
30.6	15.6	143.5	30.0	16.7	110.8	30.6	10.6	98.3	28.9	8.3	43.7	27.8	5.0	16.8	1951	1951	Koraput.
1958	1957	1957	1960	1957	1959	1957	1954	1958	1959	1955	1951	1960	1955	1952			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

..=Information not available.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and Station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Orissa—(*Contd.*)																					
Titilagarh	31·7	6·1	27·4	36·1	10·0	24·1	42·2	13·9	26·7	45·0	16·7	23·1	46·7	21·1	76·7	47·2	21·8	103·9	37·2	21·1	255·3
	1957	1954	1953	1960	1956	1956	1955	1952	1954	1956	1960	1958	1956	1951	1956	1955	1960	1955	1952	1958	1958
Bolangir	32·3	8·6	9·4	35·6	10·6	20·3	40·9	15·5	17·8	43·8	19·2	17·6	45·3	25·1	19·6	44·9	21·6	68·6	37·2	21·0	325·8
	1958	1960	1959	1960	1958	1958	1959	1958	1960	1958	1960	1958	1960	1960	1958	1958	1960	1958	1958	1958	1958
Phu'bani	30·3	3·1	0	33·9	4·9	0	37·3	10·2	18·4	40·9	13·9	1·0	42·7	21·3	3·9	41·8	21·7	44·1	32·8	20·4	72·8
	1960	1960	..	1960	1960	..	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960
Angul	33·9	6·7	48·8	37·2	8·9	71·1	42·2	10·6	52·0	45·6	16·1	65·5	46·1	18·9	84·3	46·1	21·1	156·0	37·8	21·0	243·8
	1930	1923	1906	1934	1950	1932	1953	1906	1960	1941	1920	1928	1947	1910	1946	1958	1954	1925	1912	1959	1932
Keonjhar	29·7	7·9	13·5	33·8	9·3	36·3	38·3	14·3	21·1	41·3	19·4	12·7	42·3	20·3	35·8	43·3	21·6	49·1	33·8	20·9	101·6
	1958	1960	1959	1960	1958	1958	1959	1960	1960	1959	1959	1959	1959	1959	1958	1958	1958	1959	1958	1960	1958
Sambalpur	33·9	4·4	90·7	37·8	5·6	55·1	43·3	11·1	46·2	45·6	14·4	45·2	45·1	20·6	107·9	46·7	19·4	254·5	40·6	18·3	401·3
	1889	1954	1957	1896	1950	1901	1888	1954	1951	1942	1905	1909	1960	1951	1891	1955	1903	1882	1902	1910	1889
Jharsuguda	32·2	6·1	42·4	35·6	8·3	39·6	42·8	11·7	53·7	44·4	15·8	31·7	46·7	21·1	33·0	46·1	21·1	159·2	37·0	21·6	117·9
	1958	1954	1953	1956	1956	1958	1955	1956	1951	1959	1957	1952	1956	1955	1956	1955	1955	1958	1958	1959	1952
Bihar Plateau																					
Jamshedpur	31·1	6·7	11·0	35·6	8·9	19·3	41·7	11·7	33·8	43·9	17·2	32·3	44·9	21·7	30·7	45·6	21·7	214·1	36·7	23·3	187·5
	1952	1953	1957	1953	1951	1958	1955	1954	1951	1954	1955	1952	1957	1951	1955	1953	1956	1953	1958	1955	1952
Jamshedpur (P.B.O.)	31·8	6·7	15·0	36·1	8·9	20·1	42·2	11·7	33·8	44·4	18·2	32·3	45·9	21·7	38·1	46·6	22·7	108·5	36·8	21·7	187·5
	1958	1955	1954	1952	1951	1956	1955	1951	1951	1956	1957	1952	1958	1951	1955	1958	1960	1952	1958	1956	1952
Chaibasa	33·3	4·4	75·2	37·2	6·7	75·7	42·2	11·7	43·9	45·0	15·6	80·3	46·7	18·3	58·4	46·1	20·0	131·3	41·1	21·7	194·8
	1911	1934	1901	1911	1934	1906	1955	1927	1391	1941	1944	1946	1948	1938	1893	1958	1932	1919	1926	1943	1929
Ranchi	31·1	3·9	52·1	33·9	2·8	78·5	39·4	7·8	82·3	41·7	10·4	53·7	43·3	15·6	104·7	42·8	14·8	165·6	38·3	15·7	215·9
	1931	1946	1945	1956	1950	1913	1955	1898	1891	1938	1960	1944	1948	1952	1914	1958	1957	1898	1902	1960	1896
Ranchi (C.W.O.)	27·7	5·0	31·7	33·3	6·7	43·8	36·9	10·4	44·7	40·6	15·8	49·5	42·8	19·1	54·6	42·3	19·9	46·3	34·0	20·8	173·8
	1958	1959	1959	1956	1958	1958	1959	1957	1956	1956	1959	1959	1956	1959	1959	1958	1959	1960	1958	1960	1958
Daltonganj	32·2	0	77·2	35·6	0·6	50·5	42·8	5·6	36·8	45·0	11·7	38·6	46·7	17·8	62·2	46·7	20·0	174·0	43·3	19·4	290·8
	1902	..	1945	1914	1905	1908	1931	1898	1927	1898	1907	1914	1956	1932	1904	1897	1900	1907	1902	1928	1920
Hazaribagh	30·6	2·2	63·1	33·3	3·3	63·5	38·9	6·7	44·2	41·7	13·9	60·5	43·9	16·1	84·1	43·4	20·0	249·2	38·9	20·6	221·7
	1881	1933	1945	1896	1905	1927	1892	1898	1946	1956	1944	1925	1897	1878	1887	1958	1944	1911	1901	1940	1953
Dhanbad	31·1	8·8	17·3	33·9	9·9	10·0	39·5	13·3	16·3	43·4	19·7	27·9	45·1	22·2	28·4	45·9	21·9	75·4	36·7	21·6	76·2
	1958	1959	1957	1960	1957	1959	1958	1957	1958	1960	1957	1958	1957	1959	1959	1958	1957	1958	1953	1957	1959
Dumka	31·2	4·4	75·7	36·1	5·0	77·5	42·2	8·3	70·6	45·0	15·0	47·0	46·7	17·2	106·2	46·7	20·0	170·9	40·6	21·1	146·3
	1958	1945	1957	1952	1905	1940	1953	1906	1891	1951	1905	1946	1916	1934	1914	1926	1922	1927	1897	1948	1921
Bihar Plains																					
Purnea	28·9	1·7	86·4	34·4	1·7	59·7	40·6	6·7	40·6	43·3	11·7	114·3	43·9	15·6	220·5	42·8	17·8	268·2	36·7	21·1	204·2
	1902	1955	1957	1896	1891	1882	1941	1927	1950	1891	1905	1925	1916	1885	1887	1958	1906	1881	1942	1921	1916
Forbesganj	28·4	2·2	40·4	33·3	6·5	2·5	39·0	9·4	19·4	42·8	12·8	24·6	42·9	16·4	121·4	42·1	20·6	106·0	37·4	21·7	196·9
	1960	1955	1957	1955	1958	1955	1958	1957	1960	1954	1955	1955	1958	1960	1954	1958	1955	1960	1960	1954	1956
Darbhanga	28·9	1·1	57·7	33·3	1·1	43·9	40·6	7·2	36·3	43·9	11·7	60·5	43·8	17·2	74·4	43·3	20·0	243·8	38·3	21·7	199·6
	1932	1933	1957	1943	1905	1949	1941	1906	1897	1922	1912	1899	1958	1948	1923	1931	1955	1883	1942	1945	1926
Motihari	28·3	2·2	54·6	35·6	0	66·0	40·0	5·6	55·4	42·2	8·9	67·3	44·4	15·0	104·1	43·3	19·4	234·2	42·8	19·0	254·8
	1902	1905	1900	1896	..	1889	1941	1945	1891	1954	1905	1899	1903	1952	1890	1935	1903	1919	1955	1959	1935
Muzaffarpur	..	..	25·4	..	..	8·9	..	..	53·3	..	..	30·5	..	..	29·0	..	..	99·1	..	..	129·5
	..	..	1959	..	..	1952	..	..	1960	..	..	1952	..	..	1960	..	..	1952	..	..	1957
Chapra	26·4	6·9	50·4	33·2	8·4	15·0	40·8	12·8	18·3	42·4	15·4	17·0	45·4	24·3	27·9	44·8	20·4	135·4	39·5	20·2	120·9
	1960	1960	1959	1960	1960	1951	1960	1960	1960	1960	1960	1953	1960	1960	1953	1960	1960	1952	1960	1960	1952

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
35.0	21.7	130.8	35.0	21.7	147.1	37.3	15.0	59.7	33.3	10.6	26.7	31.7	8.3	4.0	1951	1951	**Orissa**—(*Contd.*) Titilagarh
1954	1951	1955	1953	1956	1952	1959	1954	1951	1956	1952	1958	1959	1957	1960			
38.4	21·1	116·0	38·4	22.2	88·2	34·5	16·0	40·0	36·6	11·1	12·8	31·5	8·8	16·4	1958	1958	Bolangir.
1960	1958	1960	1960	1958	1959	1959	1960	1959	1960	1959	1959	1960	1959	1960			
31·7	21·9	44·1	33·3	21·4	30·6	32·3	12·8	27·1	30·1	5·7	2·0	29·7	4·9	0	1960	1960	Phulbani
1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	..			
36.1	21.1	257.3	35.7	21.7	148.8	35.6	14.4	117.9	33.9	8.9	99.1	31.7	7.2	22.9	1906	1906	Angul.
1945	1956	1931	1960	1950	1939	1918	1926	1929	1918	1910	1915	1957	1937	1909			
31.9	21·8	162·0	32·2	21·6	139·5	31·9	16·1	40·6	29·4	10·1	13·1	28·8	7·1	36·2	1958	1958	Keonjhar.
1958	1960	1960	1960	1959	1960	1960	1960	1959	1959	1960	1960	1960	1959	1960			
35.0	21.1	290.7	36.1	20.6	200.9	36.1	12.8	173.7	33.9	7.8	106.2	32.2	4.4	39.1	1881	1881	Sambalpur.
1954	1956	1960	1930	1921	1955	1920	1921	1936	1946	1926	1930	1902	1902	1885			
34.5	22.2	161.6	34.8	21.7	95.0	36.1	13.9	110.2	33.1	8.9	22.1	31.1	6.1	10.4	1954	1951	Jharsuguda.
1957	1956	1960	1957	1956	1955	1957	1954	1952	1957	1960	1953	1957	1955	1954			
35.6	23.3	169.2	35.6	21.1	160.4	35.6	15.0	115·4	32.7	8.9	69.1	31.1	7.2	12·5	1951	1951	**Bihar Plateau** Jamshedpur.
1957	1955	1953	1958	1956	1958	1951	1954	1959	1959	1952	1953	1954	1955	1956			
35.1	22.0	92.5	35.1	20.6	129.1	35.6	15.0	54.4	32.3	8.9	28.5	31.3	7.2	12.7	1951	1951	Jamshedpur (P. B. O.).
1957	1959	1951	1958	1956	1957	1951	1957	1955	1959	1952	1951	1957	1955	1956			
37.2	21.1	200.7	35.6	21.1	155.5	36.6	13.9	214.6	33.9	7.8	82.0	31.1	5.0	38.1	1911	1891	Chaibasa.
1947	1913	1941	1946	1950	1953	1957	1954	1912	1937	1934	1941	1960	1913	1907			
33.3	15.4	147.3	35.6	16.1	152.9	35.1	9.8	231.1	32.2	5.6	79.5	30.1	4.4	32.3	1891	1891	Ranchi.
1945	1960	1945	1944	1949	1893	1957	1960	1941	1896	1949	1930	1960	1955	1928			
32.0	20.8	120.0	32.0	19.4	113.6	31.9	14.5	111.0	28.6	9.3	7.4	27.9	5.6	7.6	1956	1956	Ranchi (C. W. O.).
1958	1958	1960	1957	1957	1957	1957	1957	1959	1957	1959	1956	1960	1958	1956			
37.2	20.6	193.0	38.9	17.2	187.5	37.2	10.0	75.2	33.9	5.0	74.9	31.4	1.7	41.9	1896	1896	Daltonganj.
1903	1916	1907	1958	1899	1946	1899	1921	1937	1918	1912	1924	1960	1930	1940			
33.7	20.0	180.1	33.3	17.8	147.1	33.3	11.1	120.4	31.7	4.4	95.0	29.4	3.9	39.4	1878	1881	Hazaribagh.
1957	1942	1888	1960	1950	1898	1957	1934	1917	1896	1879	1924	1950	1945	1885			
35.6	22.7	81.0	35·1	22.2	82.6	34.9	17.7	110.8	32.2	12.8	0	30.0	8.8	0	1957	1957	Dhanbad.
1957	1958	1959	1958	1957	1958	1957	1957	1959	1957	1959	..	1957	1959	..			
37.2	21·1	191.5	36.7	20.0	266.9	36.1	13·3	158.7	35·0	6.7	115.1	30 6	5.0	35·6	1891	1886	Dumka.
1938	1948	1888	1938	1956	1935	1957	1954	1890	1896	1934	1930	1954	1935	1913			
37.3	21.7	239.3	37.2	19.4	318.5	35.6	10.0	158.0	32.8	7.2	114.8	30.6	3.3	53.3	1881	1881	**Bihar Plains** Purnea.
1957	1909	1918	1923	1890	1898	1957	1891	1929	1952	1883	1932	1953	1883	1913			
39.0	21.4	133.6	37.0	20.6	228.6	35.8	12.8	108.5	34.0	9.4	32.0	31.1	9.0	3.1	1954	1954	Forbesganj.
1957	1960	1955	1960	1955	1960	1960	1957	1956	1958	1954	1956	1955	1955	1957			
37.5	21.1	264.4	36.7	19.4	266.7	36.1	14.4	186.7	33.0	7.2	49.0	36.6	4.4	25.1	1881	1881	Darbhanga.
1957	1912	1913	1944	1896	1925	1938	1914	1919	1943	1926	1912	1960	1908	1929			
37.2	21.7	203.2	37.2	20.0	214.6	36.1	12.8	158.2	35.6	7.2	50.0	28.9	1.7	33.8	1884	1886	Motihari.
1953	1884	1915	1953	1890	1898	1954	1895	1893	1955	1949	1932	1955	1896	1932			
..	..	193.5	..	..	99.1	..	..	54.6	..	..	8.9	..	..	6.9	..	1951	Muzaffarpur.
..	..	1957	..	..	1960	..	..	1953	..	..	1952	..	..	1957			
39·2	23·7	138.9	36·6	23·8	179·3	34·8	16·4	67.4	31·5	10·5	44.7	27.4	8·1	13.2	1960	1951	Chapra.
1960	1960	1952	1960	1960	1960	1960	1960	1959	1560	1960	1956	1960	1960	1956			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T. .. = Information not available.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Bihar Plains—(*Contd.*)																					
Arrah	..	..	103·1	..	..	20·1	..	..	76·5	..	..	69·9	..	..	123·0	..	..	105·4	..	..	107·9
	..	..	1957	..	..	1954	..	..	1957	..	..	1953	..	..	1959	..	..	1953	..	..	1955
Patna	28·9	2·8	57·4	34·4	2·2	40·6	40·6	7·8	53·1	43·3	14·4	46·7	45·6	17·2	109·2	46·1	20·0	350·5	41·7	21·1	177·8
	1939	1933	1957	1896	1905	1949	1941	1906	1881	1956	1905	1893	1941	1932	1887	1931	1912	1897	1903	1931	1893
Patna (Aerodrome)	28·8	3·9	51·8	34·4	6·1	12·7	40·0	10·4	36·0	43·3	15·1	32·8	45·4	17·8	32·0	45·6	21·1	90·4	39·7	21·1	130·6
	1958	1956	1957	1952	1951	1954	1955	1957	1959	1956	1959	1953	1958	1954	1959	1953	1952	1953	1958	1960	1957
Dehri	30·6	6·1	30·0	34·4	7·9	17·0	41·1	12·2	30·4	44·4	17·2	27·9	46·7	19·4	54·0	46·1	20·8	87·4	41·4	22·2	164·4
	1958	1956	1959	1952	1960	1952	1953	1957	1960	1956	1955	1951	1951	1960	1959	1960	1957	1951	1958	1951	1959
Gaya	31·7	3·3	66·0	35·6	3·9	49·8	41·7	8·3	37·6	45·0	14·4	41·4	46·7	17·2	54·1	47·2	18·3	229·6	43·3	16·7	209·8
	1939	1955	1901	1896	1950	1889	1941	1945	1891	1938	1886	1933	1948	1893	1904	1931	1913	1883	1926	1886	1886
Jamui	30·7	5·0	52·0	35·0	7·2	10·9	40·3	10·1	24·4	44·4	16·1	21·8	45·8	19·1	62·7	45·6	13·3	68·6	39·9	10·5	122·4
	1958	1955	1959	1952	1956	1955	1960	1957	1952	1956	1958	1953	1958	1959	1952	1958	1959	1956	1958	1959	1951
Bhagalpur	29·4	6·7	91·2	33·3	8·9	8·6	40·0	12·1	16·7	43·9	13·3	36·0	44·4	16·1	70·3	43·9	21·1	94·5	38·1	22·8	82·3
	1958	1956	1957	1956	1951	1955	1954	1957	1960	1956	1955	1959	1951	1955	1960	1953	1957	1952	1958	1956	1956
Sabour	29·0	0·6	99·6	33·3	2·8	41·7	41·1	3·9	34·3	43·3	13·3	47·5	45·1	16·1	58·6	46·1	19·4	170·2	37·8	22·8	145·0
	1958	1934	1957	1949	1950	1942	1941	1945	1940	1960	1957	1942	1958	1934	1959	1931	1934	1950	1958	1956	1934
Uttar Pradesh (East)																					
Gonda	28·9	1·1	52·6	33·3	3·3	41·4	41·1	5·6	40·4	44·4	13·9	71·4	49·9	16·9	104·1	46·7	16·7	127·8	41·7	20·0	215·4
	1946	1933	1953	1952	1934	1935	1941	1945	1944	1938	1955	1933	1958	1960	1956	1942	1936	1938	1957	1949	1955
Nautanwa	28·0	2·8	33·0	31·7	5·2	15·7	38·9	9·0	17·8	43·3	12·9	30·8	44·8	16·6	83·8	41·4	20·1	182·6	42·1	22·2	154·9
	1958	1955	1957	1956	1957	1956	1955	1959	1960	1956	1960	1959	1958	1960	1956	1958	1960	1955	1957	1957	1955
Gorakhpur	30·0	1·7	72·4	36·1	2·8	33·0	41·7	8·3	47·2	43·9	12·2	67·3	48·3	16·7	110·2	46·5	16·1	208·5	40·6	18·9	189·5
	1937	1933	1883	1896	1905	1949	1941	1927	1891	1956	1905	1887	1958	1937	1956	1958	1949	1932	1926	1953	1937
Azamgarh	28·9	3·3	38·9	35·0	3·3	37·6	43·3	10·6	28·7	44·4	14·8	14·2	45·6	18·0	30·0	47·9	21·4	81·5	41·1	21·1	186·7
	1952	1955	1957	1952	1950	1949	1949	1954	1958	1954	1960	1955	1953	1960	1959	1960	1960	1950	1954	1953	1955
Ballia	28·6	3·9	43·6	33·4	5·0	3·3	39·0	8·9	33·0	42·7	13·9	11·4	45·7	20·5	42·0	45·5	21·1	99·8	42·2	20·7	75·4
	1958	1957	1959	1960	1957	1958	1960	1957	1960	1959	1957	1960	1958	1959	1959	1958	1959	1958	1959	1957	1959
Varanasi (Banaras)	31·1	2·8	69·6	36·1	1·7	67·1	41·1	6·7	37·1	44·4	11·1	34·5	47·2	18·9	51·6	47·2	20·6	159·5	45·0	20·0	288·3
	1882	1955	1959	1884	1905	1949	1955	1906	1940	1954	1905	1928	1884	1926	1889	1901	1914	1890	1957	1919	1914
Varanasi (Banaras) (Babatpur Aerodrome).	29·4	1·7	37·8	34·4	5·9	21·3	41·1	10·0	11·9	43·9	16·1	5·1	46·1	19·2	26·8	46·1	21·7	75·7	40·6	22·1	166·4
	1958	1955	1959	1952	1960	1954	1953	1954	1957	1954	1959	1957	1952	1960	1959	1953	1958	1955	1954	1957	1955
Allahabad (Bamrauli).	31·1	2·2	70·9	36·1	1·1	51·3	41·7	7·2	34·5	45·0	12·8	26·4	47·2	17·2	35·6	47·8	19·4	176·0	45·6	22·2	209·3
	1934	1936	1900	1896	1905	1898	1931	1906	1958	1931	1905	1933	1922	1924	1917	1901	1930	1916	1901	1955	1920
Sultanpur	26·4	4·9	31·5	33·4	6·7	0	37·9	11·1	10·7	42·8	15·9	0	44·0	21·1	28·4	45·6	22·8	21·2	38·9	23·3	120·5
	1959	1960	1959	1960	1960	..	1959	1959	1960	1959	1959	..	1959	1959	1959	1960	1959	1959	1960	1960	1960
Faizabad	26·1	3·8	2·1	33·1	6·2	3.6	37·6	10.2	16·7	42·5	14·3	4·0	43·5	18·5	44·0	44·0	22·9	47·5	37·1	22·2	70·7
	1960	1960	1960	1960	1960	1959	1960	1960	1960	1959	1960	1959	1959	1960	1959	1960	1959	1960	1959	1960	1959
Banda	32·2	2·8	24·6	35·6	3·3	36·8	41·1	9·8	20·1	45·0	16·1	6·1	47·8	19·2	29·0	47·2	21·7	80·5	43·3	21·7	157·7
	1958	1955	1955	1956	1950	1954	1953	1959	1950	1958	1955	1958	1950	1960	1951	1958	1957	1953	1949	1949	1951
Fatehpur	32·2	1·1	46·5	35·0	2·8	49·8	41·7	8·3	52·8	45·0	14·4	37·1	47.2	19·3	17·0	46·7	21·1	74·7	43·3	21·7	175·3
	1943	1935	1934	1956	1950	1942	1953	1935	1950	1948	1946	1935	1952	1960	1948	1955	1947	1955	1943	1949	1932

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Bihar Plains—(*Contd.*)
..	..	127.0	..	..	132.0	..	..	59.0	..	..	51.3	..	..	3.1	..	1951	Arrah.
..	..	1953	..	..	1960	..	..	1958	..	..	1956	..	..	1956			
38.3	21.7	165.3	37.8	20.0	366.0	36.1	15.0	158.2	33.9	8.3	63.7	30.6	6.1	73.7	1881	1881	Patna.
1903	1923	1914	1928	1890	1918	1932	1954	1894	1952	1934	1915	1951	1902	1929			
36.1	21.4	127.3	37.2	22.2	109.2	35.6	12.2	89.3	33.3	7.8	35.6	30.6	5.4	19.6	1951	1951	Patna (Aerodrome).
1957	1959	1959	1951	1957	1953	1951	1954	1959	1952	1952	1956	1951	1958	1957			
35.0	23.3	107.2	35.6	22.8	76.3	35.6	14.7	42.0	33.9	9.4	64.0	31.7	7.2	10.9	1951	1951	Dehri.
1960	1953	1958	1951	1956	1959	1951	1957	1959	1951	1952	1956	1952	1955	1956			
38.9	21.7	258.6	38.3	20.6	200.4	37.2	12.8	116.6	35.0	8.2	81.8	31.1	3.9	49.0	1881	1881	Gaya.
1935	1934	1942	1928	1890	1946	1918	1954	1894	1896	1960	1924	1929	1945	1885			
36.7	11.7	168.8	36.1	11.3	180.6	35.6	8.6	107.4	33.8	8.3	22.9	29.4	6.1	4.6	1951	1951	Jamui.
1957	1959	1960	1951	1959	1960	1951	1959	1959	1957	1952	1956	1954	1955	1956			
38.5	21.7	123.7	37.2	21.7	179.8	36.3	16.1	129.5	34.4	11.1	37.1	30.6	7.9	8.4	1951	1951	Bhagalpur.
1957	1957	1955	1956	1953	1960	1957	1954	1956	1952	1952	1956	1951	1958	1954			
37.4	22.8	106.9	37.8	21.7	160.0	35.6	13.3	155.5	33.4	6.1	37.3	29.4	3.3	7.9	1931	1931	Sabour.
1957	1933	1932	1933	1956	1960	1957	1954	1956	1957	1934	1956	1955	1942	1936			
																	Uttar Pradesh (East)
37.2	16.7	306.6	37.8	18.9	174.2	37.2	12.2	145.0	33.9	5.6	32.5	28.9	2.8	29.5	1932	1932	Gonda.
1939	1956	1938	1932	1950	1953	1951	1957	1933	1940	1934	1932	1951	1954	1950			
40.0	22.8	150.8	37.8	21.1	203.2	36.4	14.3	159.6	32.8	7.2	7.5	30.0	5.0	9.7	1954	1954	Nautanwa.
1956	1955	1958	1954	1954	1956	1957	1957	1958	1954	1954	1900	1953	1960	1957			
37.2	21.1	284.5	37.5	17.8	239.5	36.7	12.8	218.7	33.9	6.7	55.9	29.4	2.8	28.7	1881	1881	Gorakhpur.
1953	1944	1912	1960	1912	1930	1938	1895	1894	1952	1953	1956	1951	1913	1929			
36.7	22.4	130.6	38.3	18.9	210.8	37.8	12.3	81.0	36.1	6.2	40.9	31.1	4.3	12.5	1949	1949	Azamgarh.
1957	1960	1953	1951	1950	1956	1951	1960	1958	1951	1960	1956	1954	1960	1950			
37.0	20.7	149.1	36.1	19.6	65.3	36.1	10.4	71.2	32.8	5.8	0	29.9	6.3	1.8	1957	1957	Ballia.
1960	1957	1958	1959	1957	1957	1957	1957	1959	1957	1957	..	1958	1957	1957			
40.0	22.2	321.6	38.3	17.8	349.5	39.4	11.7	138.9	35.6	6.7	74.9	32.8	2.2	53.1	1881	1881	Varanasi (Banaras).
1903	1955	1940	1938	1912	1943	1896	1919	1900	1941	1926	1927	1956	1913	1929			
36.4	23.3	95.8	36.1	22.0	111.4	35.6	12.8	36.4	33.3	6.1	140.5	28.9	5.0	11.9	1952	1952	Varanasi (Banaras) (Babatpur Aerodrome).
1957	1956	1953	1960	1958	1959	1952	1954	1959	1952	1952	1956	1954	1955	1953			
40.0	21.1	335.3	39.4	18.3	266.2	40.6	11.7	163.3	35.6	5.6	96.0	31.1	2.2	54.6	1881	1881	Allahabad (Bamrauli).
1903	1953	1953	1928	1912	1938	1896	1898	1894	1918	1941	1956	1946	1902	1886			
35.7	24.4	99.4	36.2	20.7	75.6	35.1	15.0	22.2	32.9	8.8	0	28.9	5.4	0	1959	1959	Sultanpur.
1959	1959	1960	1960	1959	1959	1960	1960	1959	1959	1960	..	1960	1960	..			
35·5	23·2	107·1	35·5	21·0	66·0	35·6	12·9	97·2	31·6	6·7	0	28·4	4·6	0	1959	1959	Faizabad.
1959	1960	1960	1959	1960	1959	1959	1960	1959	1959	1960	..	1960	1959	..			
37·2	21·7	138·7	37·8	20·9	109·7	38·3	13·2	109·6	37·8	7·7	61·0	31·1	3·8	34·8	1949	1949	Banda.
1957	1957	1957	1951	1957	1954	1957	1957	1960	1951	1960	1956	1959	1958	1950			
39.4	21.7	191.8	38.3	19.4	125.0	38.9	12.8	111.0	35.6	6.1	12.2	31.1	2.2	39.4	1932	1932	Fatehpur.
1945	1953	1953	1932	1944	1939	1951	195	1960	1944	1937	1936	1946	1945	1950			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. = Information not available.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Uttar Pradesh (East)—(*Contd.*)																					
Kanpur . .	31·1	1·7	48·5	35·6	0·6	59·2	42·8	7·2	61·7	45·6	11·1	25·9	47·2	17·8	67·8	47·2	20·6	133·3	45·0	21·7	167·6
	1939	1950	1893	1930	1905	1942	1941	1945	1944	1938	1905	1928	1941	1909	1959	1931	1922	1916	1903	1948	1924
Kanpur (Aerodrome)	26·2	3·3	39·1	33·9	6·2	19·1	38·8	10·8	6·5	43·3	15·6	0·5	46·1	18·3	12·7	45·7	21·6	23·4	39·7	21·7	52·2
	1959	1959	1959	1960	1960	1959	1959	1959	1960	1959	1960	1959	1960	1960	1959	1960	1959	1959	1960	1960	1960
Lucknow . .	30·6	1·1	95·3	35·0	1·7	61·5	41·7	7·2	28·2	45·6	12·8	129·5	47·2	17·8	103·4	48·3	19·4	229·4	45·6	21·7	311·7
	1943	1946	1883	1921	1905	1928	1945	1945	1940	1898	1903	1909	1944	1886	1891	1901	1886	1886	1903	1950	1947
Lucknow (Amausi Aerodrome).	28·3	0·6	42·3	33·3	4·4	22·1	39·4	6·1	25·4	43·3	12·8	1·3	45·0	19·3	57·0	45·6	21·1	109·1	41·7	22·8	272·4
	1952	1955	1959	1960	1957	1954	1955	1954	1952	1954	1953	1960	1956	1958	1959	1953	1957	1958	1954	1953	1960
Hardoi . . .	28·9	2·8	54·9	32·8	5·0	35·1	38·9	9·4	40·6	43·3	13·9	6·3	45·3	19·3	26·9	48·3	20·6	134·1	41·7	22·8	153·9
	1952	1955	1957	1952	1951	1954	1953	1958	1957	1954	1955	1951	1958	1960	1956	1951	1954	1952	1951	1955	1953
Lakhimpur Kheri .	27·8	2·8	49·8	32·8	5·1	36·6	39·4	9·7	19·8	43·3	15·0	4·6	45·4	16·7	46·7	46·1	17·3	91·9	47·7	22·2	148·3
	1958	1955	1954	1960	1957	1954	1953	1958	1957	1954	1951	1952	1960	1958	1956	1958	1958	1952	1960	1954	1954
Bahraich . .	28·9	0·6	57·7	34·4	0·6	49·5	40·6	5·6	50·5	44·4	11·1	61·0	45·6	15·6	88·9	46·7	18·3	269·5	44·4	20·6	186·2
	1946	1936	1953	1952	1905	1905	1941	1945	1914	1954	1943	1909	1953	1944	1938	1958	1914	1929	1902	1900	1955
Uttar Pradesh (West)																					
Orai . . .	30·0	2·2	30·3	34·4	2·2	22·9	41·1	8·9	22·1	44·1	12·2	5·3	46·7	19·4	37·0	46·7	15·6	234·9	43·9	20·6	110·0
	1952	1959	1957	1960	1951	1954	1955	1957	1951	1958	1954	1952	1954	1951	1959	1955	1957	1952	1951	1950	1953
Jhansi . . .	33·3	1·7	83·0	37·8	0·6	36·8	43·3	7·2	42·2	45·6	14·4	18·3	47·2	20·0	40·6	47·8	20·6	162·3	45·6	21·7	239·5
	1946	1935	1959	1930	1929	1944	1892	1945	1950	1958	1935	1933	1947	1947	1943	1924	1922	1942	1900	1958	1927
Agra . . .	31·1	—2·2	49·5	35·6	—1·7	51·8	42·8	5·6	41·3	45·0	11·7	32·5	47·2	16·7	32·3	48·3	19·4	97·3	45·6	21·1	152·7
	1946	1935	1957	1897	1929	1915	1892	1945	1960	1941	1940	1944	1943	1926	1926	1889	1922	1886	1919	1951	1886
Agra (Aerodrome) .	27·9	1·4	11·9	33·8	5·1	0·4	38·3	8·8	35·5	42·2	14·3	0·8	45·4	18·6	26·0	46·0	25·0	17·7	39·3	24·3	46·8
	1960	1959	1959	1960	1959	1959	1959	1960	1960	1959	1959	1960	1960	1960	1960	1960	1960	1960	1960	1959	1960
Mainpuri . .	30·6	—1·7	31·5	34·4	—0·6	60·2	41·7	5·0	33·3	45·6	11·1	29·7	47·8	15·6	41·5	47·8	18·9	191·0	45·6	18·3	135·9
	1946	1927	1929	1922	1905	1898	1945	1945	1957	1948	1903	1914	1943	1955	1960	1948	1949	1952	1903	1934	1927
Aligarh . . .	30·6	0·6	40·6	32·9	1·7	45·0	41·7	3·9	26·3	44·4	10·9	30·5	46·1	17·8	39·4	46·3	18·6	144·3	43·9	20·6	164·6
	1946	1935	1944	1960	1950	1954	1945	1945	1960	1948	1957	1933	1954	1957	1941	1958	1957	1933	1948	1957	1942
Bareilly . . .	29·4	0·6	61·0	32·8	0	95·3	40·0	5·0	79·3	43·9	11·1	38·1	46·7	16·1	40·1	46·1	19·4	218·4	43·9	20·0	251·2
	1943	1905	1921	1884	..	1915	1945	1945	1926	1952	1905	1909	1884	1898	1956	1948	1912	1908	1903	1931	1882
Meerut . . .	27·2	1·7	34·0	31·1	2·8	56·4	37·8	8·3	54·6	43·1	12·2	30·5	45·0	17·3	12·7	45·0	19·4	39·6	42·8	22·2	146·1
	1952	1951	1959	1960	1950	1949	1955	1954	1951	1958	1960	1946	1954	1960	1953	1958	1951	1953	1949	1955	1953
Najibabad . . .	26·9	0·6	48·0	32·8	2·2	48·3	36·7	2·2	37·1	40·9	10·7	17·8	43·4	15·6	30·5	45·2	18·3	89·5	41·6	21·7	188·0
	1958	1955	1953	1956	1958	1954	1953	1952	1942	1958	1960	1953	1957	1960	1956	1960	1954	1958	1957	1957	1958
Roorkee . .	28·3	—1·1	101·6	31·7	—2·2	111·0	38·9	2·8	109·5	43·3	7·2	38·3	46·1	14·4	57·7	46·7	16·1	148·8	45·0	21·1	228·9
	1898	1935	1883	1956	1905	1930	1945	1945	1955	1897	1905	1949	1884	1907	1910	1932	1900	1906	1931	1955	1889
Dehra Dun . .	26·1	—1·1	79·5	29·4	—1·1	106·2	37·2	—2·2	81·5	40·6	7·8	39·1	42·8	12·8	79·3	43·9	13·9	188·0	40·6	18·3	294·6
	1946	1945	1945	1956	1905	1949	1892	1945	1926	1892	1944	1898	1944	1947	1940	1902	1907	1925	1931	1902	1890
Punjab (India) (Including Delhi)																					
New Delhi . .	29·4	—0·6	116·8	33·3	1·7	104·1	41·1	4·4	62·2	45·6	11·7	40·9	47·2	18·3	30·5	46·7	18·9	235·5	45·0	21·7	266·2
	1946	1935	1885	1934	1950	1942	1945	1945	1915	1941	1940	1909	1944	1952	1885	1945	1932	1936	1931	1943	1958
New Delhi (Palam Aerodrome)	25·3	1·2	29·9	32·8	4·5	0·8	37·2	8·3	12·0	41·2	11·7	1·5	46·1	15.6	9·3	45·7	21·7	12·6	40·3	21·8	45·8
	1959	1959	1959	1960	1959	1959	1959	1960	1960	1959	1960	1960	1960	1960	1959	1959	1960	1960	1959	1960	1959

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Uttar Pradesh (East—*Contd.*)
40·6	21·7	235·2	40·0	16·1	233·9	40·6	11·1	136·1	36·1	5·0	59·2	31·3	1·7	40·6	1891	1891	Kanpur
1903	1948	1915	1932	1896	1915	1896	1895	1894	1940	1948	1911	1959	1902	1950			
35·7	24·1	64 2	36·7	21·5	58·4	36·1	14·7	97·9	34·2	7·4	2·5	30·3	4·4	0	1959	1959	Kanpur (Aerodrome)
1960	1959	1959	1960	1959	1959	1959	1960	1960	1959	1960	1959	1959	1959	..			
38.9	21.2	177.8	39.4	17.8	250.2	40.0	11.1	128.4	35.0	5.6	48.3	33.3	1.7	50.5	1881	1881	Lucknow
1911	1958	1881	1920	1899	1915	1896	1895	1958	1951	1926	1927	1896	1902	1885			
36·9	22·2	117·8	40·1	19·7	148·6	37·2	10·6	191·1	33·9	3·9	4·8	29.1	2·2	4·6	1952	1952	Lucknow (Amausi Aerodrome).
1957	1956	1958	1958	1957	1957	1952	1957	1958	1952	1952	1956	1959	1954	1957			
36·8	21·6	197·4	36·7	16.7	214·6	37·8	11·1	241·6	33·9	6·1	7·9	31·8	3·3	15·7	1950	1950	Hardoi.
1957	1958	1956	1951	1956	1960	1952	1954	1960	1951	1952	1951	1959	1954	1956			
36·7	22·2	131·1	36·1	18·9	187·6	35·0	12·8	167·6	35·3	6·1	5·3	28·8	4·4	14·2	1950	1950	Lakhimpur Kheri.
1952	1957	1957	1956	1956	1960	1953	1954	1960	1957	1952	1951	1960	1950	1950			
38·3	21·1	325·9	38·3	18·3	236·2	37·8	12·2	171·5	33·3	5·0	78·0	31·7	1·7	81·0	1896	1896	Bahraich.
1903	1956	1938	1907	1912	1919	1907	1935	1945	1951	1952	1927	1896	1913	1956			
																	Uttar Pradesh (West)
37·8	20·0	232·4	37·8	17·8	76·2	38·3	11·1	220·4	34·4	4·4	8·1	30·6	2·2	45·0	1950	1950	Orai
1957	1950	1957	1951	1950	1957	1951	1957	1960	1959	1950	1951	1954	1950	1950			
42·2	18·3	249·7	40·6	18·3	261·6	40·6	12·2	119·6	36·1	5·0	62·2	32·8	2·2	24·4	1881	1881	Jhansi
1911	1960	1930	1913	1942	1910	1913	1957	1903	1941	1938	1927	1940	1937	1924			
42·2	20·8	149·9	40·6	17·2	286·0	41·1	9·4	169·7	36·1	2·8	45·7	30·0	—0·6	26·7	1881	1881	Agra
1918	1957	1952	1920	1935	1939	1920	1939	1910	1969	1926	1911	1954	1926	1923			
35·7	22·7	119·8	36·4	21·1	25·8	37·2	12·9	18·2	33·5	5·9	8·6	29·2	3·7	4·3	1959	1959	Agra (Aerodrome)
1959	1959	1959	1960	1959	1959	1960	1960	1960	1959	1960	1959	1959	1959	1960			
42·2	21·7	256·3	40·6	16·7	186·4	40·6	10.6	237·2	36·1	4·4	31·7	31·1	—1·1	59·2	1896	1896	Mainpuri
1918	1947	1919	1905	1942	1931	1896	1932	1960	1948	1938	1927	1959	1926	1923			
40·6	20·1	155·7	40·0	18·9	161·8	41·7	11·7	138·7	36·1	5·0	14·0	32·8	2·2	17·8	1932	1932	Aligarh.
1941	1957	1957	1938	1935	1917	1952	1949	1955	1944	1937	1959	1948	1945	1935			
40·6	21·1	224·3	38·3	16·7	206·8	38·3	8·9	179·6	36·1	5·6	63·0	30·0	1·7	37·6	1881	1881	Bareilly.
1918	1916	1948	1932	1899	1912	1918	1887	1884	1920	1934	1904	1960	1913	1923			
38·3	21·7	168·0	37·8	19·4	143·3	37·8	11·5	113·0	33·3	5·6	12·5	29·1	2·2	18·0	1945	1945	Meerut.
1954	1956	1958	1951	1950	1955	1951	1960	1954	1952	1960	1951	1959	1949	1958			
36·7	20·9	118·9	35·6	18·3	175·3	35·0	10·0	160·5	33·9	3·3	11·4	29·7	—0·6	37·8	1952	1952	Najibabad.
1956	1957	1956	1956	1957	1957	1953	1954	1956	1952	1956	1956	1960	1956	1958			
39·8	20·6	192·8	38·3	15·6	266·7	38·3	8·9	231·7	33·9	2·8	58·2	28·3	—0·6	58·2	1881	1881	Roorkee.
1960	1914	1889	1899	1944	1888	1899	1953	1956	1952	1934	1911	1889	1902	1923			
37·2	19·4	332·2	34·4	14·4	212·6	36·1	9·4	137·4	30·6	2·8	78·7	27·2	0	108·5	1881	1881	Dehra Dun.
1949	1932	1951	1938	1940	1924	1907	1938	1956	1952	1938	1911	1960	..	1923			
																	Punjab (India) (Including Delhi).
40·0	22·2	181·6	40·6	17·8	176·5	39·4	9·4	172·7	35·0	3·9	20·8	28·9	—1·1	53·3	1881	1881	New Delhi.
1945	1939	1891	1938	1944	1904	1951	1937	1954	1943	1938	1925	1959	1945	1894			
36·8	23·9	63·1	36·8	19·3	25·6	36·9	12·2	25·3	33·4	2·8	35·0	28·3	2·2	0	1959	1959	New Delhi (Palam Aerodrome)
1960	1960	1960	1960	1960	1959	1960	1960	1960	1959	1960	1959	1959	1959	..			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Punjab (India) (Including Delhi)—(*Contd.*)																					
Hissar . .	30·6	—3·9	58·4	34·4	—2·2	46·0	45·6	2·8	39·4	47·9	8·3	22.6	48·3	14.4	41·1	47·8	17·8	69·1	47·2	20·6	104·1
	1952	1929	1948	1956	1929	1937	1945	1945	1927	1958	1918	1944	1944	1948	1916	1954	1922	1939	1947	1952	1923
Karnal . .	27.2	1·7	36·3	31·7	2·2	45·7	36·7	7·0	33·5	42·8	11·2	26·4	45·0	16·8	21.1	45·6	19·0	68·6	43·9	20·6	131·1
	1952	1955	1960	1960	1950	1954	1953	1957	1956	1952	1957	1955	1952	1960	1951	1958	1960	1954	1959	1955	1950
Patiala . .	27·8	0·6	37·0	33·3	1·7	59·2	37·8	6·7	27·4	42·8	12·8	11·4	46·7	17·2	16·8	46·1	19·4	71·4	45·0	22·2	238·0
	1952	1951	1959	1956	1950	1949	1953	1957	1951	1958	1951	1957	1954	1955	1950	1955	1952	1960	1951	1959	1949
Ambala . .	28·9	—1·1	104·9	33·3	—0·6	146·8	41·7	3·9	103·9	45·0	10·0	82·0	47·8	14·4	85·1	47·8	19·4	105·9	46·7	19·4	162·3
	1946	1947	1953	1956	1905	1898	1945	1945	1956	1941	1944	1935	1944	1920	1913	1923	1939	1954	1903	1956	1945
Ambala (Aerodrome)	24·6	1·2	28·1	30·6	3·8	9·8	35·9	7·8	27·0	40·3	11·4	4·0	44·1	17.2	15·2	45·8	20·0	64·2	38·3	22·2	75·1
	1960	1960	1959	1960	1960	1959	1959	1960	1959	1959	1959	1960	1960	1960	1959	1960	1960	1959	1959	1959	1959
Chandigarh . .	26·3	0	33·0	32·8	1·7	42·4	35·6	6·1	38·9	41·2	11·2	21·8	43·3	15·0	17·8	45·3	17·8	57·4	41·6	18·3	105·4
	1958	..	1957	1954	1956	1954	1958	1956	1956	1958	1959	1957	1954	1955	1959	1958	1956	1959	1957	1956	1955
Hawara . .	23·1	0·2	12·7	29·1	1·4	8·9	33·3	5·3	5·6	40·0	7·9	2·5	43·8	13·4	43·2	45·6	20·3	30·5	40·7	21·1	107·7
	1960	1959	1959	1960	1960	1959	1959	1960	1960	1959	1960	1960	1960	1960	1959	1960	1960	1959	1960	1960	1959
Bhatinda	23·6	..	2·0	31·8	2·2	0	31·8	6·6	15·5	34·8	10 5	5·9	44·8	15·8	21·6	45·7	23·3	41·0	41·5	23·9	41·6
	1960	..	1960	1960	1960	..	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960
Ludhiana . .	28·9	—1·7	119·6	33·3	—1·1	71·9	41·1	3·9	89·9	46·1	8·9	55·9	48·3	15·6	31·2	47·9	18·3	108·7	47·8	16·1	163·1
	1910	1935	1911	1956	1905	1942	1945	1945	1951	1941	1905	1944	1944	1924	1913	1958	1952	1894	1881	1901	1893
Ferozepur . .	27·2	—2·5	45·2	33·3	0·6	29·0	37·2	5·0	55·1	44·9	10·3	15·0	47·2	13·9	29·0	46·7	15·5	93·6	45·1	21·1	119·6
	1952	1959	1957	1953	1951	1954	1955	1951	1957	1958	1960	1955	1954	1960	1951	1954	1958	1960	1957	1953	1951
Amritsar . .	25·0	—1·7	35·5	32·2	—0 6	25·9	35·6	3·9	39·4	43·3	6·9	15·2	46·1	12·9	24·6	46·7	15·6	39·6	45·6	20·6	146·3
	1952	1955	1957	1953	1958	1950	1953	1954	1951	1958	1960	1951	1954	1960	1951	1953	1958	1958	1954	1955	1948
Pathankot . .	26·1	0	65·5	29·4	3·3	49·3	35·2	6·1	83·1	41·7	7·2	29·2	44·4	12·2	24·4	45·6	18·3	94·0	43·4	17·2	192·0
	1952	1954	1954	1956	1955	1954	1958	1954	1956	1958	1955	1955	1952	1955	1952	1953	1957	1956	1957	1955	1954
Pathankot (Aerodrome).	23·6	1·8	35·0	28·9	3·3	20·8	35·0	6·8	18·0	42·2	10·0	15·1	43·7	14·6	50·8	46·1	19·8	24·0	40·6	21·1	244·6
	1960	1960	1960	1960	1959	1959	1958	1960	1958	1958	1959	1958	1960	1960	1959	1960	1960	1960	1960	1959	1960
Adampur (Aerodrome)	28·1	0·3	21·1	33·9	1·8	40·5	33·9	4·9	29·0	40·2	9·4	2·3	45·0	15·6	21·6	45·5	20·3	33·0	41·6	21·5	91·5
	1960	1959	1959	1960	1959	1959	1960	1959	1960	1960	1959	1959	1960	1959	1959	1960	1959	1959	1960	1959	1959
Himachal Pradesh																					
Bilaspur . .	24·9	0·3	40·8	28·9	0·8	17·0	33·9	5·5	35·6	40·7	8·8	23·9	41·7	13·5	27·4	44·2	16·7	49.8	41·8	21·3	124·5
	1960	1960	1959	1960	1958	1959	1959	1958	1957	1958	1960	1957	1960	1958	1960	1958	1958	1957	1957	1960	1960
Mandi . . .	23·9	—2·8	28·2	27·8	0·2	43·2	32·3	. 4·3	38·3	38·9	6·7	26·7	40·7	9·9	24·6	42·7	15·3	63·5	39·4	16·1	103·4
	1956	1955	1959	1956	1957	1959	1959	1960	1955	1958	1955	1955	1960	1959	1959	1958	1958	1956	1954	1955	1958
Jammu and Kashmir																					
Srinagar . .	17·2	—14·4	147·8	20·6	—20·0	66·3	25·6	—5·6	70·1	31·1	0	65·3	35·6	2·8	52·8	37·8	7·2	65·8	38·3	10·6	79·0
	1902	1893	1930	1940	1895	1906	1931	1895	1920	1946	1920	1957	1936	1920	1931	1946	1935	1907	1946	1919	1959
Srinagar (Aerodrome)	9·3	—11·8	32·0	17·8	—9·9	36·4	20·8	—2·8	46·8	24·9	—0·8	36·1	28·8	5·1	23·6	32·7	9·7	14·4	34·6	12·8	58·4
	1960	1960	1959	1960	1959	1959	1959	1959	1960	1959	1960	1960	1960	1960	1959	1960	1959	1960	1960	1960	1959
Gulmarg . .	..	..	..	..	..	..	..	..	..	..	..	..	..	—1·7	..	29·4	—3·9	83·3	29·4	—2·8	236·2
	..	..	..	..	..	..	..	..	..	..	..	..	..	1955	..	1922	1935	1921	1918	1907	1959
Sonamarg . .	..	..	88·9	..	..	77·2	..	..	78·0	..	..	55·9	..	..	53·3	..	..	50·0	..	..	42·2
	..	..	1950	..	..	1951	..	..	1951	..	..	1953	..	..	1955	..	..	1960	..	..	1960
Dras . .	5·0	—42·8	63·5	6·7	—43·3	105·4	10·0	—33·9	104·9	18·3	—25·0	65·8	25·0	—15·0	127·0	30·6	—10·0	60·0	33·9	0·6	36·8
	1907	1909	1943	1928	1911	1928	1903	1911	1930	1946	1905	1928	1910	1947	1958	1906	1947	1958	1905	1907	1901

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

Heaviest Rainfall (Millimetres) in 24 Hours Based on Data up to 1960 (1881-1882 Saka)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Punjab (India) (Including Delhi)—(*contd.*)
43·3	21·7	346·7	42·2	15·6	259·1	41·7	8·3	122·7	36·7	2·8	48·0	33·6	—1·1	38·1	1916	1916	Hissar.
1918	1918	1926	1938	1923	1917	1951	1949	1917	1943	1926	1959	1960	1945	1924			
40·6	18·4	167·6	38·3	6·7	117·6	39·3	11·1	130·3	34·4	5·6	23·0	27·8	0·6	23·6	1949	1949	Karnal.
1952	1960	1952	1951	1949	1950	1957	1957	1956	1953	1953	1959	1959	1954	1958			
40·0	21·6	168·7	40·6	18·3	82·0	38·9	10·0	81·0	33·3	4·4	52·1	28·3	0·6	21·3	1948	1948	Patiala.
1954	1957	1955	1951	1950	1957	1951	1948	1955	1952	1952	1951	1959	1954	1957			
43·9	20·0	228·9	40·6	15·6	244·8	39·4	8·3	138·4	35·6	2·8	135·1	29·4	—0·6	47·5	1896	1896	Ambala.
1918	1939	1895	1951	1912	1945	1941	1898	1916	1947	1926	1951	1944	1913	1924			
36·1	22·8	147·5	35·3	19·6	91·5	35·0	9·2	14·2	30·7	3·8	15·9	27·4	0·9	27·1	1959	1959	Ambala (Aerodrome).
1960	1959	1960	1960	1960	1959	1960	1960	1959	1959	1960	1959	1960	1960	1960			
37·4	18·9	105·2	37·3	17·2	234·9	37·0	9·4	63·7	33·4	4·4	13·5	27·9	1·1	32·0	1954	1954	Chandigarh.
1957	1956	1959	1958	1955	1955	1960	1955	1955	1958	1957	1957	1958	1955	1960			
37.6	22·4	90·2	33.2	18·3	35.6	37·2	10·6	12·7	31.1	3.0	17.0	27.2	0.3	29 1	1959	1959	Halwara
1960	1960	1959	1960	1960	1959	1960	1960	1959	1959	1960	1959	1959	1960	1960			
40.7	23·9	42·0	39 6	0 6	3·0	38 4	11·2	0	31 8	3·9	0	25 4	0 2	19·2	1960	1960	Bhatinda
1960	1960	1960	1960	1960	1960	1960	1960	..	1960	1960	..	1960	1960	1960			
44·4	20·8	184·9	41·7	15·6	206·5	40·0	9·4	354·3	35·0	2·2	25·4	29·4	—1·1	60·5	1881	1881	Ludhiana.
1884	1957	1887	1905	1940	1882	1941	1932	1955	1909	1937	1957	1944	1930	1894			
40·0	21·3	116·8	39·4	18·3	109·6	39·4	8·3	63·3	35·0	4·3	42·7	28·3	—1·7	44·5	1950	1950	Ferozepur.
1958	1957	1953	1954	1953	1958	1952	1952	1955	1951	1958	1951	1953	1950	1957			
40·0	19·3	79·8	40·6	17·2	122·4	38·3	8·3	90·5	32·2	—0·6	19·3	27·7	—2·8	21·2	1948	1948	Amritsar.
1954	1957	1956	1959	1953	1954	1951	1953	1955	1952	1959	1951	1958	1950	1960			
36·2	18·9	150·4	36·7	15·6	37·2	36·7	10·6	277·9	32·2	5·6	26·7	26·1	1·1	43·4	1951	1951	Pathankot.
1957	1952	1956	1952	1953	1954	1952	1955	1955	1952	1955	1951	1955	1955	1958			
35·4	20 9	118 2	35 9	18 8	120 4	35 0	11·4	46·3	30 6	5·7	18 3	27 2	3·1	3[illegible]·2	1958	1958	Pathankot (Aerodrome)
1960	1958	1959	1960	1958	1959	1960	1960	1958	1960	1960	1959	1959	1959	1960			
37·5	22·2	81·2	36 6	20 4	48.8	37·1	12·0	59.3	32·7	8 8	0	26·8	7·7	0	1959	1959	Adampur (Aerodrome)
1960	1959	1960	1960	1960	1959	1960	1960	1959	1960	1960	..	1960	1960	..			
																	Himachal Pradesh
35·4	20·0	68·6	35·4	16·1	103·4	34·3	8·6	45·0	30·3	3·0	34·8	26·5	0	40·2	1957	1957	Bilaspur.
1957	1957	1957	1957	1957	1957	1960	1960	1958	1958	1960	1957	1959	1960	1960			
34·2	16·6	271·1	33·9	13·8	98·6	32·3	6·7	74·7	29·5	2·5	26·4	25·6	—2·2	35·3	1945	1945	Mandi.
1957	1957	1960	1956	1960	1960	1960	1954	1955	1958	1960	1957	1959	1954	1958			
																	Jammu and Kashmir
36·7	10·0	67·3	35·0	4·4	102·4	33·9	—1·7	59·9	23·9	—3·6	64·3	18·3	—11·7	64·5	1891	1891	Srinagar.
1946	1932	1929	1934	1940	1928	1931	1934	1917	1946	1960	1959	1901	1902	1904			
33·4	16·1	20 3	32·7	8·1	19·8	28·3	1·9	9·7	19·4	—2·9	67·2	14 6	—5·8	29·7	1959	1959	Srinagar (Aerodrome)
1959	1960	1959	1960	1960	1959	1959	1960	1959	1960	1960	1959	1959	1960	1960			
26·7	2·8	115·3	25·0	—2·8	90·9	..	—5·6	..	..	..	..	..	..	..	1901	1901	Gulmarg.
1922	1951	1929	1934	1940	1905	..	1957	..	..	..	..	..	..	..			
..	..	74·8	..	..	251·2	..	..	31·7	..	..	29·2	..	..	54·4	..	1948	Sonamarg.
..	..	1960	..	..	1954	..	..	1949	..	..	1949	..	..	1950			
31·7	—2·2	40·0	29·4	—5·6	58·4	25·0	—20·0	88·9	15·0	—29·4	61·7	9·4	—45·0	81·5	1901 To 1949	1901	Dras.
1907	1913	1958	1906	1906	1928	1916	1937	1917	1902	1911	1946	1904	1910	1921			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T. .. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Jammu and Kashmir —(*contd.*)																					
Kargil	6·7	−32·8	61·0	17·8	−31·7	64·5	18·3	−25·0	104·4	25·6	−11·7	76·2	32·8	−6·1	59·7	40·0	−0.6	17·8	43·3	5·0	24·1
	1940	1919	1943	1914	1920	1930	1941	1916	1930	1923	1919	1922	1917	1920	1940	1914	1921	1921	1912	1918	1929
Leh	8.3	−28·3	21·4	12·8	−25·6	16·8	19·4	−19·4	16·0	23·9	−12·8	22·1	28·9	−4·4	22·3	33·9	−1·1	11·7	33·3	0·6	23·6
	1916	1899	1893	1953	1943	1903	1908	1903	1930	194[illegible]	1903	1896	1893	1886	1951	1882	1886	18·2	1883	1929	1882
Skardu	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gurez	..	..	76·2	..	..	127·0	..	..	52·4	..	..	152·4	..	..	101·6	..	..	63·5	..	..	101·6
	..	..	1954	..	..	1958	..	..	1958	..	..	1958	..	..	1958	..	..	1949	..	..	1958
Gilgit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mi-gar	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jammu	26·7	0·6	94·7	3[illegible]·7	1·1	10·7	37·2	4·4	88·9	43·9	10·0	66·0	46·1	5·0	33·0	47·2	18·3	4·8	45·0	16·1	179·9
	1926	1945	1932	1947	1929	19[illegible]4	1945	1945	191[illegible]	194[illegible]	19·8	19·4	1954	19·4	1930	1953	1936	1953	1951	195[illegible]	1960
Jammu (Aerodrome)	..	4·7	56.4	..	4.6	35.6	..	7·6	15·8	..	12·1	1.8	..	17.4	4.3	..	21.4	9.9	38.4	21.8	276.1
	..	1959	1959	..	1959	1959	..	1959	1959	..	1959	1959	..	1959	1959	..	1959	1959	1959	1959	1959
Rajasthan (West)																					
Sri Ganganagar	36·1	−2·2	35·1	35·0	−2·8	28·2	41·1	0·6	47·0	46·6	8·3	22·5	46·1	11·7	48·0	50·6	18·3	99·1	46·7	21·7	86·1
	1948	1945	1948	1953	1950	1948	1942	1945	1957	1958	1949	1944	1959	1945	1951	1934	1952	1938	1948	1952	1956
Churu	29·2	−0·7	15·0	33·8	2·1	5·4	39·0	6·2	13·8	45·9	11·5	2·4	45·7	15·6	14·8	45·3	21·1	26·8	44·8	22·5	76·0
	1958	1960	1957	1960	1957	1959	1959	1960	1957	1958	1957	1960	1959	1960	1960	1960	1957	1960	1957	1958	1957
Bikaner	31·1	−2·2	25·4	37·2	−2·2	46·7	42·8	−0·6	43·9	47·2	8·3	31·0	49·4	13·7	48·3	48·9	17·8	110·7	47·2	20·6	34·1
	1952	1954	1958	1953	1950	1906	1924	1898	1911	1925	1953	1944	1914	1963	1883	1897	1888	1894	1901	1931	1920
Jaisalmer	39·6	−4·4	7·6	37·8	−2·2	5·3	41·6	6·0	8·9	43·9	10·6	13·6	47·8	17·0	16·0	45·8	20·5	19·8	45·0	21·7	98·0
	1952	1949	1957	1953	1951	1952	1958	1960	1955	1949	1953	1959	1956	1960	1951	1959	1957	1953	1951	1955	1954
Phalodi	31·1	−3·3	41·1	37·8	0·6	23·4	41·7	1·7	12·9	47·0	12·2	5·1	47·2	19·4	33·8	46·7	20·6	84·8	45·6	22·2	65·2
	1946	1942	1941	1953	1951	1948	1945	19[illegible]5	1948	1958	1953	1944	1956	1944	1953	1944	1945	1945	1947	1950	1948
Nagaur	28·1	1·1	0	31·6	3·0	0	40·1	9·4	1·1	41·8	15·2	5·5	45·8	16·6	16·0	44·1	19·7	14·4	41·7	22·7	37·0
	1959	1960	..	1960	1960	..	1959	1960	1960	1959	1960	1959	1959	1960	1959	1960	1960	1960	1960	1959	1959
Jodhpur	32·8	−2·2	40·1	38·3	−0·6	22·6	41·8	5·0	20·6	48·0	9·4	26·7	48·9	17·2	38·1	47·8	19·4	152·9	45·6	19·4	94·1
	1932	1905	1948	1953	1920	1939	1959	1908	1926	1958	1918	1919	1932	1909	1916	1901	1914	1917	1901	1926	1943
Barmer	33·3	−1·7	59·9	39·4	4·0	23·6	43·3	8·9	24·6	48·3	12·2	23·1	48·9	16·7	36·6	46·7	18·9	55·1	44·4	19·4	124·5
	1949	1935	1945	1948	1957	1939	1946	1945	1940	1958	1945	1933	1932	1931	1945	1946	1931	1933	1939	1936	1944
Rajasthan (East)																					
Pilani	29·7	0·5	3·0	34·2	2·2	2·4	39·2	6·3	15·2	43·3	11·9	4·6	46·1	16·6	33·0	46·1	21·6	21·7	42·5	18·3	101·7
	1959	1960	1960	1960	1959	1959	1959	1960	1960	1959	1960	1960	1959	1960	1959	1960	1960	1960	1960	1959	1960
Alwar	28.3	1.6	30.4	34.4	4.4	1·3	38.4	10.0	29.0	46.4	14.7	3.6	50.6	19.3	23.0	48.8	23.8	38.6	42.8	22.3	67.6
	1956	1959	1957	1956	1959	1958	1959	1956	1960	1958	1960	1959	1956	1958	1959	1957	1959	1957	1957	1958	1960
Sikar	30.6	−2.2	19.1	36.1	−2.8	16.5	39.4	4.4	13.2	44.4	8.3	5.3	47.8	15.6	51.3	43.9	20.6	53.3	44.4	21·1	83.1
	1949	1955	1957	1953	1951	1954	1849	1856	1960	1958	1955	1953	1956	1955	1959	1948	1954	1955	1947	1960	1960

X=Highest Maximum Temperature.
N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Jammu and Kashmir—(*contd.*)
40.6	5.6	25·4	38 3	−0.6	20·3	32·2	−10 6	54·9	20·0	−9·4	15·2	12·2	−10 6	53·6	1911 to 1949	1911	Kargil
1912	1920	1923	1914	1920	1941	1916	1917	1917	19 5	1937	19 8	1941	1937	1941			
32·2	2·8	51·3	30·6	−4 4	25·9	25·6	−7 8	39·1	20·0	−13·9	16·2	12·8	−25·6	15·2	1881	1881	Leh
1946	1941	1933	1883	1940	1893	1916	1923	1955	1929	1934	1959	1891	1937	1944			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Skardu
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
..	..	63·0	..	..	162·6	..	..	65·1	..	..	16·5	..	..	101·6	..	1948	Gurez
..	..	1956	..	..	1953	..	..	1949	..	..	1950	..	..	1948			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Gilgit
..	..	..	..	..	..	..	..	.	..	..	..	..	..	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Misgar
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
41·7	17·8	228·6	38 3	15 0	184·1	37·2	12·2	160·0	32·5	6·4	40·1	27·2	3·3	66·8	1911	1911	Jammu
1918	1912	1926	1954	1950	1950	1951	1914	1955	1958	1960	1928	1944	1914	1924			
36·2	23·1	84·5	34·6	20·6	68·6	34·4	15·0	27·7	28·3	9·2	33 2	25·9	2·0	0	1959	1959	Jammu (Aerodrome)
1959	1959	1959	1959	1959	1959	1959	1959	1959	1959	1959	1959	1959	1959	..			
																	Rajasthan (West)
42·8	21·7	146·1	42·8	15·6	135·8	41·1	6·7	7·9	37·2	1·7	20·6	31·1	−1·7	29·6	1934	1937	Sri Ganganagar.
1946	1950	1948	1939	1944	1958	1952	1949	1956	1943	1938	1959	1959	1950	1958			
41·4	23·6	57·4	39·4	18·9	54·2	38·7	10·6	12·7	35·1	3 6	13·0	31·2	−0·8	8·2	1957	1957	Churu.
1957	1960	1960	1960	1957	1958	1960	1957	1957	1957	1960	1959	1959	1960	1960			
43·3	21·1	142·0	43·9	19·4	165·6	42·2	7·8	95·8	37·2	0·6	41·9	32·2	−2·8	30·0	1881	1881	Bikaner.
1899	1889	1909	1915	1924	1945	1951	1949	1917	1943	1937	1951	1954	1950	1892			
43·3	21·7	104·4	43·3	21·0	36·0	42·2	8·3	9·4	37·8	5·0	22·1	32·8	1·1	6·3	1948	1948	Jaisalmer.
1958	1955	1955	1949	1957	1958	1951	1949	1958	1950	1956	1957	1953	1955	1957			
43·1	21·7	72·4	41·5	20·1	63·5	42·2	8·9	24·1	36·7	5·0	13·5	32·2	0·6	11·4	1941	1941	Phalodi.
1957	1956	1953	1960	1957	1954	1941	1949	1956	1943	1946	1957	1953	1945	1948			
39·6	23 9	27·2	41 6	21·7	17 2	39·9	14·2	6·3	34·1	5·0	0	31·4	1 6	14 0	1959	1959	Nagaur
1960	1959	1959	1960	1959	1959	1960	1960	1959	1960	1960	..	1959	1959	1960			
42·9	20·6	184·4	42·8	17·8	215·9	42·2	10·0	142·0	37·2	5·6	26·9	33·3	−0·6	22·9	1891	1891	Jodhpur.
1957	1927	1927	1915	1908	1924	1920	1949	1917	1957	1938	1893	1953	1945	1937			
43·3	20·0	255·5	42·8	16·7	55·4	42·8	13·9	18·0	38·2	6·7	27·6	34·4	2·3	14·0	1931	1931	Barmer.
1957	1941	1944	1951	1935	1955	1951	1933	1956	1957	1946	1958	1944	1959	1942			
																	Rajasthan (East)
40·3	23·8	76·4	38·5	21·3	26·2	37·8	11·9	19·2	33·3	4·3	17·4	31·1	0·5	8·6	1959	1959	Pilani
1960	1959	1959	1960	1960	1959	1960	1960	1959	1959	1960	1959	1959	1959	1960			
39·4	21·7	81·2	37·8	20·4	78·0	40·6	12·0	91·7	35·0	6·8	24·4	29·5	4·5	8·1	1956	1956	Alwar.
1957	1957	1960	1957	1960	1957	1957	1960	1956	1957	1958	1959	1959	1958	1956			
40·0	21·1	89·7	39·4	16·7	66·1	40·6	4·3	49·5	34·2	1·1	22·1	30·6	−1·7	20·3	1946	1946	Sikar.
1957	1955	1947	1954	1957	1955	1951	1958	1955	1957	1960	1951	1959	1954	1946			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I ST.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AN

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Rajasthan (East) (*contd.*)																					
Jaipur (Sanganer Aerodrome)	28·9	0	45·2	36·1	3·3	12·5	38·9	7·8	14·0	44·9	12·8	6·3	46·1	16·6	67·6	45·6	20·1	50·6	43·1	21·7	96·8
	1952	1954	1957	1953	1956	1952	1953	1958	1957	1958	1955	1952	1956	1960	1959	1954	1957	1960	1957	1958	1957
Dholpur	30·2	1·8	8·4	34·7	3·9	19·3	43·3	8·9	34·6	45·8	14·0	8·1	46·7	20·3	35·3	47·1	23·2	76·2	42·2	23·3	102·6
	1958	1959	1959	1960	1960	1958	1955	1957	1960	1958	1960	1959	1960	1960	1959	1960	1958	1955	1957	1956	1957
Tonk	27.8	1·1	0·7	34·4	2·3	0	36·7	8·8	5·0	40·9	13·1	3·6	45 4	16·7	1·2	44·6	22·6	36·2	41·6	23·8	25 4
	1960	1960	1960	1960	1960	..	1960	1960	1960	1960	1960	1960	1912	1960	1960	1960	1960	1960	1960	1960	1960
Ajmer	31·7	—2·2	46·5	35·6	—1·1	33·0	41·7	2·2	42·4	44·6	9·4	38·1	45·6	15·6	43·2	45·0	17·2	119·4	44·4	20·0	148·1
	1902	1935	1948	1953	1905	1907	1892	1898	1932	1958	1886	1909	1912	1881	1925	1901	1944	1917	1901	1931	1943
Kotah	33·9	1·7	35·8	38·3	2·2	50·8	42·8	7·2	17·8	47·5	14·4	25·9	47·8	18·9	53·3	47·8	21·1	132·1	46·1	20·4	249·2
	1912	1929	1915	1943	1929	1915	1945	1945	1944	1958	1905	1933	1944	1930	1917	1945	1941	1917	1901	1960	1945
Chambal	30·0	0	8·9	35·0	0·5	5·1	40·1	5·6	29·7	46·0	14·4	5·6	46·1	15·6	22·9	44·4	16·3	50·0	41·7	20·6	191·5
	1958	1956	1958	1960	1957	1956	1959	1956	1957	1958	1956	1959	1956	1957	1959	1958	1957	1959	1957	1956	1956
Jhalawar	32·8	—0·6	47·7	36·7	1·7	11·4	41·7	5·0	14·2	46·3	14·4	34·8	46·7	18·9	27·2	46·1	21·1	252·0	42·2	19·7	246·6
	1932	1935	1941	1953	1934	1942	1945	1943	1957	1958	1955	1933	1932	1956	1936	1945	1950	1945	1931	1958	1947
Udaipur	30·6	1·7	49·5	36·7	1·1	14·0	38·9	7·4	20·1	44·4	10·6	26·9	43·9	16·3	9·9	41·7	18·8	64·8	37·8	21·1	105·9
	1958	1954	1953	1953	1957	1948	1959	1957	1954	1958	1955	1953	1956	1960	1949	1958	1958	1945	1948	1954	1950
Erinpura (Jawai Dam).	30·8	2·8	36·8	36·1	3·4	2·5	40·0	9·4	16·8	45·6	14·4	6·1	44·7	21·9	15·0	43·6	20·6	32·0	39·9	22·3	68·4
	1958	1960	1957	1955	1957	1955	1959	1956	1957	1958	1955	1959	1958	1959	1959	1958	1957	1955	1960	1959	1960
Madhya Pradesh (West)																					
Gwalior (P.B.O.)	31·7	—1·1	40·1	36·7	0·6	20·6	41·7	7·2	17·2	49·5	12·8	15·2	48·3	20·3	41·9	47·2	21·1	162·6	43·9	22·8	149·9
	1943	1954	1957	1949	1950	1954	1945	1945	1960	1960	1953	1943	1947	1960	1953	1945	1944	1952	1948	1942	1947
Sheopur Kalan	31·7	0·6	21·6	37·2	1·9	20·8	41·3	7·2	29·7	45·9	13·9	7·6	47·8	18·8	41·0	46·7	22·2	89·1	42·2	22·2	187·2
	1952	1954	1957	1953	1957	1954	1958	1956	1956	1958	1955	1952	1954	1960	1959	1954	1955	1955	1951	1953	1957
Guna	31·7	—2·2	33·2	36·1	—1·1	40·6	41·1	5·0	59·9	43·4	11·1	17·7	46·1	16·7	55·2	46·1	20·0	191·5	41·7	19·1	293·4
	1946	1934	1959	1953	1950	1942	1945	1945	1950	1958	1940	1959	1954	1960	1959	1945	1944	1945	1931	1960	1958
Rajgarh	31·3	2·8	10·7	35·7	2·2	2·0	40·6	8·9	19·3	46·3	14·4	1·3	46·6	16·7	27·4	45·2	21·1	61·0	41·2	19·7	153·7
	1959	1956	1956	1959	1957	1956	1959	1957	1957	1958	1956	1959	1958	1960	1956	1958	1960	1958	1957	1958	1956
Neemuch	32·8	—1·1	68·3	36·7	—0·6	47·7	41·7	4·4	50·0	44·6	8·9	31·5	46·7	13·9	49·3	46·1	15·6	172·7	42·2	14·4	152·4
	1898	1905	1891	1887	1886	1915	1892	1905	1923	1958	1905	1888	1912	1920	1883	1897	1885	1933	1901	1910	1943
Ratlam	31·7	5·0	18·0	37·8	5·6	8·1	41·1	9·4	19·8	45·2	15·0	10·2	43·9	20·1	21·6	42·2	21·0	98·8	37·6	20·0	132·8
	1952	1952	1953	1953	1951	1956	1952	1957	1954	1958	1955	1957	1956	1960	1956	1953	1958	1951	1958	1951	1954
Alirajpur	32·8	6·0	2·3	37·2	3·7	0·5	40·9	9·0	1·8	44·0	16·0	13·1	44·8	18·8	26·7	41·6	21·0	73·0	36·5	21·6	186·8
	1959	1960	1956	1956	1957	1956	1958	1960	1960	1958	1960	1958	1960	1960	1956	1958	1960	1960	1960	1959	1958
Indore	32·2	—1·1	80·5	36·7	—2·8	32·0	41·1	5·0	19·3	44·6	7·8	51·1	45·6	16·7	99·1	45·0	18·9	127·0	38·3	18·9	293·4
	1938	1935	1920	1953	1929	1888	1892	1898	1944	1958	1905	1895	1916	1881	1886	1897	1958	1895	1931	1910	1913
Bhopal (Bairagarh)	32·2	0·6	34·3	36·1	1·7	15·5	40·0	7·8	35·1	44·2	12·2	13·5	45·6	19·4	72·6	43·9	19·5	120·9	40·6	19·0	218·2
	1934	1935	1948	1953	1950	1944	1945	1945	1936	1958	1935	1937	1947	1933	1956	1945	1957	1945	1931	1958	1939
Khandwa	35·6	1·7	49·5	38·9	0·6	48·3	43·3	6·1	27·4	46·7	11·1	26·2	47·2	17·2	71·1	45·6	18·7	153·2	40·0	18·9	240·5
	1932	1946	1920	1953	1929	1928	1892	1908	1881	1958	1905	1891	1947	1881	1956	1942	1957	1940	1900	1959	1927
Hoshangabad	32·2	3·3	40·1	37·8	6·1	36·6	41·1	10·6	41·9	45·2	16·1	48·3	46·1	20·0	35·8	45·6	21·1	178·8	41·4	18·9	238·8
	1950	1935	1919	1953	1950	1917	1953	1935	1957	1958	1951	1890	1954	1947	1893	1953	1946	1895	1960	1951	1898
Betul	30·7	2·8	10·9	37·2	1·1	3·6	38·9	8·2	34·5	42·6	15·0	23·1	43·3	19·2	23·1	42·2	15·0	73·7	35·6	19·3	145·2
	1958	1953	1957	1953	1950	1950	1953	1960	1957	1958	1955	1957	1954	1957	1957	1953	1949	1951	1959	1959	1960

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-82 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Rajasthan (East) (*contd.*)
38·3	18·9	188·4	38·0	17·1	77·2	37·8	11·7	59·4	34·0	5·8	17·4	30·1	1·7	6·4	1952	1952	Jaipur. (Sanganer Aerodrome)
1955	1953	1959	1960	1957	1956	1952	1955	1956	1957	1960	1958	1959	1955	1960			
39·0	17·7	93·2	37·4	20·9	57·4	38·2	11·1	105·4	35·0	3·9	2·8	31·3	2·2	8·6	1955	1955	Dholpur.
1957	1960	1958	1960	1957	1959	1957	1957	1955	1957	1955	1959	1957	1955	1960			
36·6	23·3	50·4	38·9	21·2	3·2	38·5	11·1	3·0	33·9	3·4	0	30·5	3·4	2·8	1960	190	Tonk
1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	..	1960	1960	1960			
40·0	20·6	164·6	40·6	16·1	156·2	38·9	7·8	119·4	35·0	2·8	42·4	31·1	0·6	56·6	1881	1881	Ajmer.
1883	1935	1928	1915	1950	1924	1951	1889	1956	1901	1926	1958	1890	1936	1913			
41·1	18·9	172·2	40·6	20·0	185·4	41·1	13·4	98·0	37·2	7·8	54·1	33·9	3·9	30·0	1901	1901	Kotah.
1911	1947	1955	1951	1931	1926	1930	1957	1930	1901	1926	1927	1941	1926	1927			
37·2	15·6	109·7	40·6	14·4	105·0	37·2	8·3	45·5	37·2	3·3	2·0	31·5	—1·1	1·0	1955	1955	Chambal.
1955	1957	1956	1956	1957	1953	1960	1955	1955	1957	1958	1958	1958	1955	1956			
41·7	18·3	184·7	38·9	17·0	125·2	40·0	10·6	76·2	35·6	5·6	66·0	33·3	2·2	44·2	1931	1931	Jhalawar.
1960	1955	1942	1951	1957	1935	1951	1934	1956	1941	1956	1933	1941	1945	1947			
35·5	18·9	105·7	37·8	15·6	183·9	37·2	9·9	41·9	35·0	4·3	38·1	31·7	0·6	5·3	1947	1947	Udaipur.
1957	1950	1957	1951	1950	1950	1951	1957	1956	1951	1960	1948	1954	1950	1956			
38·3	22·3	180·9	38·9	19·9	152·9	39·9	12·8	22·1	34·7	4·7	6·2	33·4	3·9	6·2	1955	1955	Erinpura. (Jawai Dam).
1957	1957	1957	1960	1960	1955	1960	1957	1957	1957	1960	1959	1959	1959	1958			
																	Madhya Pradesh (West)
38·3	21·1	108·5	37·2	18·3	159·0	39·4	8·9	150·6	35·6	3·9	11·7	31·1	0	31·7	1941	1941	Gwalior (P.B.O.)
1954	1955	1954	1951	1942	1945	1951	1952	1955	1941	1946	1946	1959	..	1952			
38·9	21·1	117·0	38·3	17·4	69·1	40·6	10·2	100·8	37·3	5·1	19·1	31·8	0·6	10·2	1951	1951	Sheopur Kalan.
1955	1953	1959	1951	1957	1954	1951	1957	1956	1957	1960	1951	1960	1954	1956			
36·7	19·4	181·6	38·1	16·7	298·5	38·3	8·3	63·5	34·7	2·8	64·5	31·7	—0·6	35·6	1931	1931	Guna.
1955	1952	1934	1960	1942	1947	1951	1957	1956	1959	1940	1946	1941	1950	1946			
34·9	20·6	300·2	35·6	15·0	116·8	37·0	9·4	36·5	34·6	4·4	0·1	32·8	0	57·1	1955	1955	Rajgarh.
1957	1956	1960	1955	1956	1955	1957	1955	1955	1957	1956	1959	1959	..	1956			
37·8	18·3	186·0	38·9	17·2	177·5	39·4	10·6	102·1	35·6	5·0	51·6	31·7	0·6	22·3	1881	1881	Neemuch.
1899	1913	1957	1951	1902	1947	1919	1890	1955	1901	1938	1934	1953	1929	1892			
38·7	20·0	153·4	37·8	16·1	255·3	38·3	12·8	162·3	34·4	9·4	15·7	32·8	6·1	4·3	1948	1948	Ratlam.
1959	1956	1957	1951	1954	1950	1951	1952	1955	1951	1956	1951	1960	1955	1950			
33·7	20·6	140·7	36·0	20·0	142·7	37·3	12·0	142·7	35·4	7·2	15·0	34·4	6·1	50·8	1955	1955	Alirajpur.
1958	1956	1957	1960	1956	1959	1957	1960	1955	1957	1956	1958	1960	1955	1956			
35·0	18·9	209·8	37·2	16·7	136·7	37·8	8·9	78·5	35·0	5·6	69·0	32·8	1·1	45·0	1881	1881	Indore.
1899	1952	1956	1899	1902	1933	1899	1890	1938	1925	1938	1958	1896	1936	1928			
35·0	19·4	188·5	36·1	17·2	233·2	37·8	11·7	123·7	33·3	6·1	68·3	32·8	3·3	31·7	1931	1931	Bhopal (Bairagarh).
1932	1956	1944	1951	1951	1947	1951	1943	1955	1951	1941	1936	1941	1936	1935			
39·4	17·4	203·2	40·6	17·8	218·6	40·6	9·4	146·6	37·2	6·1	84·3	34·5	2·8	95·8	1881	1881	Khandwa.
1951	1960	1957	1899	1942	1959	1899	1890	1924	1951	1949	1936	1960	1929	1886			
35·6	19·4	294·1	40·4	17·8	207·0	37·2	12·2	98·3	35·0	3·9	86·4	32·3	4·4	109·7	1931	1881	Hoshangabad.
1950	1943	1919	1959	1942	1950	1951	1952	1943	1951	1952	1912	1959	1938	1928			
32·2	18·9	127·8	32·8	16·9	142·4	33·9	8·3	92·7	32·2	5·6	90·7	31·7	3·3	21·6	1948	1948	Betul.
1950	1951	1953	1960	1960	1959	1952	1952	1951	1948	1956	1956	1960	1955	1950			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AN

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Madhya Pradesh (West)—(*contd.*)																					
Chhindwara . .	30·0	3·2	75·4	35·6	2·8	37·9	38·3	8·9	14·7	42·5	15·4	15·2	43·8	19·8	47·7	43·0	18·3	73·9	34·4	20·0	91·4
	1950	1960	1960	1953	1950	1950	1953	1957	1958	1958	1960	1957	1958	1959	1956	1958	1949	1956	1952	1959	1954
Seoni . . .	32·8	2·8	49·5	37·2	3·3	70·1	40·6	6·1	42·2	43·9	11·7	41·9	44·4	15·0	74·2	45·0	17·8	279·4	37·8	17·8	276·1
	1882	1937	1943	1896	1911	1898	1899	1910	1936	1942	1905	1937	1954	1917	1918	1942	1928	1884	1931	1941	1929
Sagar . . .	31·7	1·7	84·1	35·0	1·1	43·2	41·1	7·2	60·9	43·9	10·6	23·9	45·6	16·9	58·2	45·6	18·3	235·5	41·1	16·1	284·5
	1912	1934	1887	1953	1929	1951	1892	1898	1957	1896	1926	1937	1914	1959	1903	1897	1922	1890	1931	1904	1904
Nowgong . .	32·2	—1·7	46·5	36·7	—0·6	48·0	41·7	5·0	25·9	45·0	11·7	40·6	47·2	13·9	31·0	46·7	18·4	462·8	45·6	20·8	232·7
	1946	1935	1921	1934	1905	1946	1931	1945	1913	1948	1905	1909	1947	1932	1913	1954	1957	1897	1931	1958	1902
Madhya Pradesh (East)																					
Sutna . . .	32·2	0·6	81·3	35·0	1·1	49·3	41·1	4·4	43·9	45·0	12·2	52·8	46·7	18·3	33·5	47·8	19·4	562·6	45·0	17·8	209·5
	1946	1933	1955	1956	1905	1936	1945	1949	1893	1896	1918	1946	1947	1933	1914	1954	1929	1882	1931	1929	1894
Sidhi . . .	32·8	1·8	22·9	33·4	4·4	3·6	39·7	6·1	24 0	48·8	13·1	0	46·6	17·0	5·6	44.7	24·1	41.0	40 2	21·1	101·0
	1959	1959	1959	1960	1959	1959	1959	1960	1960	1959	1959	..	1959	1960	1959	1960	1960	1959	1959	1959	1960
Umaria . .	34·4	0	61·2	36·7	0·6	55·6	40·0	5·0	43·4	44·4	12·8	31·5	45·6	17·5	27·7	45·6	20·0	09·8	39·6	20·6	179·8
	1943	..	1939	1954	1950	1950	1955	1945	1941	1942	1951	1937	1954	1960	1957	1945	1948	1946	1958	1939	1959
Jabalpur . .	32·8	1·1	63·7	37·2	0	55·6	41·1	3·3	39·6	45·0	10·6	50·3	46·7	17·2	73·7	46·1	19·4	185·2	41·7	20·6	342·9
	1946	1946	1919	1953	..	1898	1892	1898	1927	1942	1905	1935	1954	1937	1885	1889	1922	1883	1902	1930	1915
Mandla . .	30·6	0·6	38·3	35·6	2·7	26·7	39·4	7·8	29·7	43·2	11·1	19·3	45·0	16·8	20·1	44·4	21·1	87·7	38·9	20·8	210·4
	1954	1954	1953	1953	1957	1958	1955	1957	1951	1958	1956	1951	1954	1957	1956	1958	1956	1960	1958	1959	1959
Pendra . .	30·1	3·3	45·0	34·4	1·7	42·9	39·4	8·9	70·9	42·8	13·3	67·8	43·9	17·8	55·9	43·9	16·7	242·1	37·2	18·3	166·6
	1958	1937	1933	1953	1929	1917	1955	1906	1956	1942	1930	1926	1928	1933	1925	1942	1915	1946	1954	1942	1953
Ambikapur . .	29·3	1·1	20·1	33·3	3·9	48·0	38·3	8·2	21·8	41·1	12·8	21·3	43·3	18·8	51·1	43·3	21·0	51·3	37·1	20·6	109·2
	1958	1954	1954	1954	1956	1956	1955	1957	1952	1956	1955	1951	1956	1960	1956	1955	1957	1956	1958	1951	1954
Champa . .	32·2	7·8	64·0	36·7	8·3	25·4	41·7	13·2	88·1	45·0	18·3	13·2	47·2	20·5	37·6	47·2	21·7	96·5	39·4	21·7	142·0
	1950	1954	1945	1953	1950	1956	1955	1957	1951	1952	1957	1955	1948	1957	1956	1953	1949	1956	1954	1946	1952
Raigarh . .	32·8	7·0	39·4	37·2	9·4	26·6	42·2	13·0	61·0	45·0	19·2	29·2	46·7	22·8	40·0	47·2	22·5	139·7	38·4	22·2	161·0
	1955	1960	1953	1955	1956	1958	1955	1960	1951	1956	1957	1951	1956	1956	1956	1953	1960	1955	1958	1955	1958
Raipur . .	35·0	5·0	55·4	37·8	5·0	57·4	43·3	8·3	55·9	46·1	15·0	38·3	47·2	14·4	80·3	47·2	16·1	202·7	38·9	20·0	213·1
	1955	1908	1921	1899	1893	1917	1892	1898	1906	1942	1905	1909	1935	1904	1904	1931	1884	1919	1931	1884	1884
Kanker . .	32·8	3·9	53·3	35·0	3·9	52·8	40·0	10·0	48·3	43·3	15·6	44·2	44·4	17·8	45·7	46·1	17·8	245·9	35·0	18·9	289·1
	1931	1946	1943	1953	1934	1950	1942	1948	1957	1942	1944	1951	1953	1945	1932	1931	1936	1940	1954	1940	1951
Jagdalpur (P.B.O.)	33·1	4·4	40·6	36·7	5·0	120·4	40·6	9·4	45·7	43·3	13·9	54·4	46·1	17·2	64·3	44·4	17·2	133·1	35·6	18·3	180·9
	1957	1913	1926	1953	1943	1919	1953	1948	1927	1941	1943	1939	1912	1917	1925	1953	1913	1940	1920	1958	1934
Gujarat																					
Deesa . . .	35·6	—2·2	28·2	40·6	—0·6	31·5	46·1	5·6	24·1	46·3	10·0	24·1	50·0	17·8	68·6	48·3	20·6	102·4	43·9	19·4	252·2
	1932	1935	1940	1953	1929	1941	1892	1905	1911	1958	1905	1923	1912	1920	1920	1897	1943	1956	1902	1887	1908
Radhanpur . .	31·2	5·6	0	36·4	5·6	0	42·3	6·3	0	43·4	15·6	0	45·3	19·2	0	42·8	19·5	28·3	39·5	19·5	89·5
	1959	1960	..	1960	1959	..	1959	1960	..	1959	1960	..	1959	1960	..	1959	1960	1960	1960	1959	1959
Idar . . .	31·9	7·8	5·8	36·2	9·5	0	41·9	9·4	0	46·6	15·7	21·1	44·3	20·7	3·0	43·3	20·6	48·0	37·6	20·4	307·0
	1958	1957	1957	1960	1960	..	1959	1960	..	1958	1958	1959	1958	1957	1960	1958	1958	1957	1958	1958	1958
Ahmedabad . .	36·1	3·3	30·7	40·6	2·2	26·4	43·9	9·4	12·2	46·2	12·8	21·6	47·8	19·4	46·2	47·2	19·4	130·8	42·2	21·1	414·8
	1912	1954	1948	1953	1920	1917	1908	1908	1940	1958	1955	1947	1916	1920	1917	1897	1920	1937	1902	1908	1927

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Madhya Pradesh (West)—(contd.)
33·3	18·2	101·3	34·9	16·3	151·1	34·1	9·7	75·2	31·1	5·6	120·7	30·7	3·3	10.9	1949	1949	Chhindwara.
1950	1957	1955	1957	1957	1955	1957	1960	1955	1957	1956	1956	1959	1955	1956			
35·6	17·2	281·9	35·0	16·1	208·0	36·1	10·6	124·5	33·9	6·7	116·8	31·7	3·3	68·3	1881	1881	Seoni.
1899	1917	1913	1944	1942	1947	1899	1910	1916	1899	1939	1946	1899	1936	1909			
35·6	19·4	274·3	38·3	16·7	159·3	37·8	11·7	198·2	34·4	6·1	105·2	31·7	4·4	73·9	1881	1881	Sagar.
1899	1956	1908	1881	1926	1947	1899	1890	1958	1909	1926	1902	1896	1926	1886			
38·3	20·6	247·4	39·4	17·2	169·2	39·4	8·4	127·0	35·6	3·9	75·2	32·8	0	84·6	1881	1881	Nowgong.
1945	1957	1903	1929	1944	1906	1930	1957	1926	1929	1941	1910	1929	..	1886			
																	Madhya Pradesh (East)
36·1	21·1	299·7	37·2	16·7	178·1	38·3	10·0	152·4	35·5	5·0	84·6	32·2	1·1	47·7	1881	1881	Sutna.
1932	1954	1919	1932	1912	1951	1896	1890	1882	1957	1941	1956	1948	1937	1929			
33·8	18·9	90·4	37·2	21·0	60·4	34·9	12·2	32·4	32·6	5·6	0	31·2	2·5	0	1959	1959	Sidhi
1959	1959	1960	1959	1960	1959	1960	1 6	1959	1959	1960	..	1960	1959	..			
35·0	20·0	302·0	35·6	17·8	126·5	35·2	9·4	83·8	32·9	3·9	79·5	31·7	0·6	41·1	1932	1932	Umaria.
1945	1951	1953	1958	1944	1933	1957	1933	1937	1957	1937	1946	1941	1937	1940			
35·0	18·3	320·5	35·0	16·7	151·7	36·7	7·8	121·9	33·9	3·9	93·5	32·8	0·6	68·1	1881	1881	Jabalpur.
1954	1929	1923	1941	1899	1926	1941	1881	1916	1956	1889	1956	1941	1902	1885			
33·6	19·9	157·8	33·9	17·4	148·1	35·0	7·8	121·4	33·2	3·3	65·8	31·2	1·1	28·5	1950	1950	Mandla.
1958	1957	1957	1951	1957	1955	1951	1952	1951	1957	1950	1956	1960	1955	1950			
32·8	18·3	262·1	32·8	17·8	150·4	33·9	11·7	91·4	31·7	6·1	58·4	30·0	3·9	37·1	1906	1906	Pendra.
1925	1910	1953	1938	1935	1926	1920	1933	1915	1909	1926	1924	1941	1936	1906			
34·2	20·7	137 6	33·9	19·4	87·2	33·3	9·4	56·2	29·6	4·4	6·6	28·8	1·7	9·4	1950	1950	Ambikapur.
1958	1958	1960	1959	1960	1960	1957	1954	1960	1957	1952	1956	1960	1955	1956			
35·1	22·2	171·5	35·0	20·9	96·0	36·2	15·4	63·5	33·3	9·6	41·1	31·2	8·5	17·5	1945	1945	Champa.
1957	1957	1953	1954	1960	1955	1957	1960	1955	1946	1960	1946	1960	1955	1954			
35·1	22·2	193·0	35·7	21·1	135·6	36·2	14·6	74·2	33·3	10·0	4·6	31·8	6·4	6·1	1950	1950	Raigarh.
1956	1953	1960	1957	1950	1959	1957	1960	1959	1951	1950	1956	1957	1959	1954			
36·7	20·0	370·3	37·2	18·3	148·6	37·8	13·9	148·6	35·6	8·3	70·4	32·2	3·9	52·1	1881	1881	Raipur.
1883	1939	1910	1899	1902	1905	1899	1933	1900	1935	1883	1930	1941	1902	1909			
33·9	20·0	195·3	33·5	18·9	257·3	34·5	11·7	112·8	32·8	7·2	58·4	31·1	3·9	17·8	1931	1931	Kanker.
1947	1939	1937	1959	1950	1936	1957	1954	1938	1946	1939	1950	1943	1934	1940			
33·9	16·7	203·2	35·0	17·8	163·8	34·4	11·1	136·9	33·3	5·6	102·9	32·2	3·9	38·3	1911	1911	Jagdalpur (P.B.O.)
1922	1920	1931	1913	1950	1911	1913	1941	1938	1946	1912	1924	1946	1945	1952			
																	Gujarat
41·1	21·1	306·1	42·2	17·2	349·5	42·8	10·6	92·7	37·6	5·0	28·7	36·1	1·7	14·0	1881	1881	Deesa.
1902	1948	1907	1951	1912	1893	1925	1889	1917	1957	1938	1896	1935	1903	1927			
34·6	20·5	66·2	40·5	..	207·0	39·8	1·38	31·1	36·0	10·1	0	32·7	5·5	1·5	1959	1959	Radhanpur.
1960	1959	1960	1960	..	1959	1960	1960	1959	1960	1960	..	1960	1959	1960			
34·7	21·3	91·2	39·0	18·6	132.2	38·9	15·0	39·2	36·7	14·3	1·3	33·1	9·1	2·0	1957	1957	Idar.
1957	1958	1957	1960	1957	1959	1960	1960	1959	1957	1959	1957	1960	1960	1957			
38·9	21·7	150·6	41·7	21·6	257·8	42·8	14·4	52·8	38·9	9·7	53·3	35·6	6·1	14·0	1896	1896	Ahmedabad.
1911	1929	1906	1951	1958	1950	1920	1955	1917	1901	1960	1947	1899	1954	1927			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AN

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Gujarat—(*contd.*)																					
Dhohad . .	33·9	0	11·9	39·4	2·2	20·6	41·7	9·4	22·3	45·4	15·0	15·2	45·0	20·0	122·7	44·4	21·1	90·4	38·3	20·6	230·3
	1949	..	1953	1953	1950	1942	1945	1945	1944	1958	1935	1946	1932	1933	1938	1945	1957	1940	1939	1947	1958
Baroda . .	35·6	—1·1	15·2	41·7	1·7	31·7	43·3	6·7	10·4	45·9	11·7	1·3	46·7	18·9	71·4	45·6	21·5	129·8	40·0	21·1	183·4
	1952	1935	1953	1953	1950	1933	1959	1936	1954	1958	1955	1959	1955	1939	1947	1945	1957	1958	1939	1943	1941
Baroda (Aerodrome)	35·6	5·0	14·0	40·6	3·9	3·1	42·4	10·9	2·8	45·2	14·4	0·6	46·1	19·9	40·9	43·3	21·2	87·7	38·7	22·2	111·5
	1952	1954	1953	1953	1950	1954	1959	1957	1954	1958	1955	1959	1955	1960	1956	1953	1957	1958	1960	1952	1956
Broach . . .	36·9	5·6	7·9	42·8	6·1	2·5	44·2	11·5	14·0	45·6	16·1	0·3	47·8	21·2	80·5	44·4	22·3	109·2	38·9	22·7	195·1
	1957	1954	1953	1953	1957	1954	1959	1957	1954	1956	1955	1954	1955	1957	1956	1953	1957	1954	1960	1959	1954
Surat . . .	38·3	4·4	43·7	41·7	5·6	38·1	43·9	10·6	8·1	45·6	15·0	97·8	45·6	19·4	48·8	45·6	21·7	260·1	38·9	20·6	459·2
	1952	1929	1920	1953	1929	1898	1945	1898	1954	1952	1903	1947	1956	1888	1917	1901	1916	1922	1902	1889	1941
Saurashtra and Kutch																					
Naliya . .	30.1	3·8	3·3	35·7	4·8	0	42·2	8 0	0	40·9	14·4	0	44·6	16·4	0	38·2	23·5	7·3	36 0	22·1	262·9
	1960	1960	1959	1960	1960	..	1959	1960	..	1959	1960	..	1959	1960	..	1959	1960	1959	1960	1959	1959
Bhuj (Aerodrome) .	32·4	3·5	2·7	37·2	4·3	0	41·3	9·3	4·3	44·8	13·9	0	45·6	19·1	29 2	42·0	23·1	48 8	39·6	20·6	467·9
	1958	1960	1959	1955	1957	..	1959	1960	1958	1958	1955	..	1955	1960	1955	1958	1960	1959	1958	1954	1959
Bhutakia Bhimasar																					
Kandla. . .	31·7	9·8	5·1	33·9	7·7	0	40·4	13·7	3·8	42·2	18·3	0	43·3	22·1	3 1	38·3	22·8	105·9	37·2	22·4	147·4
	1958	1957	1958	1956	1957	..	1959	1960	1955	1956	1955	..	1956	1957	1957	1959	1960	1956	1958	1957	1956
Mandvi . .	29·4	7·8	4·1	35·6	8·9	0	38·1	13·2	3·0	41·1	15·0	0	42·6	21·1	0	35·0	23·3	48·0	36·5	21·1	68 0
	1958	1956	1959	1955	1957	..	1959	1957	1960	1958	1956	..	1959	1957	..	1955	1960	1960	1960	1956	1959
Dwarka . .	34·0	6·1	20·3	35·6	8·3	64·0	38·3	7·8	42·4	41·1	17·2	24·4	42·7	20·0	7·6	37·8	22·8	230·9	36·4	18·3	273·8
	1957	1929	1919	1920	1901	1906	1958	1905	1911	1932	1903	1915	1959	1909	1933	1951	1936	1956	1958	1952	1933
Porbander . .	34·1	9·4	8·1	38·9	8·7	6·3	40·2	13·2	0	42·8	18·9	2·0	45·6	22·7	0·5	35·0	23·9	129·8	33·9	22·0	231·6
	1957	1953	1954	1955	1957	1954	1958	1957	..	1956	1955	1957	1959	1957	1956	1959	1953	1957	1958	1959	1958
Porbander (Aerodrome)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jamnagar . .	33·9	1·7	19·8	37·2	2·2	29·5	40·0	8·3	38·6	42·8	12·8	19·3	44·4	16·7	92·7	42·2	17·2	337·8	39·9	19·4	135·0
	1933	1935	1929	1926	1929	1906	1946	1905	1904	1901	1903	1915	1903	1918	1933	1951	1917	1920	1958	1950	1929
Rajkot (Aerodrome)	36·1	—0·6	13·2	40·0	1·1	21·3	43·9	6·1	21·6	44·4	10·0	29·2	47·8	16·1	117·3	45·0	20·0	218·9	40·6	19·4	375 2
	1932	1935	1935	1953	1893	1888	1892	1905	1911	1949	1903	1947	1919	1907	1917	1897	1913	1893	1900	1941	1950
Surendranagar .	33·7	7·2	2·0	38·3	7·4	0	42·8	12·9	0	45·1	13·9	24·3	46·7	22·8	11·9	44·9	22·8	61·2	39·4	22·8	82·6
	1958	1954	1957	1955	1957	..	1959	1957	..	1958	1955	1959	1955	1956	1957	1953	1955	1955	1954	1956	1959
Bhavnagar . .	35·0	0·6	43·7	39·4	2·8	16·5	43·3	8·3	35·8	45·0	12·8	306·6	46·7	19·4	87·4	45·0	20·6	219·7	40·0	21·6	195·6
	1926	1929	1920	1953	1929	1909	1910	1905	1951	1900	1903	1947	1912	1917	1933	1901	19.3	1913	1949	1960	1957
Bhavnagar Aerodrome)	33·9	6·1	7·6	37·8	6·7	2·0	41·1	13·1	9·9	43·3	14·4	0	45·0	22·2	6·2	43·3	20·0	61·7	38·3	23·3	195·5
	1952	1954	1953	1953	1957	1956	1953	1957	1954	1958	1955	..	1955	1957	1960	1953	1954	1957	1952	1956	1957
Mahuva . .	33·5	7·8	2·5	41·1	10·6	0	42·8	12·5	11·4	45·0	13·9	1·5	43·9	20·0	0·5	40·6	22·8	179·6	35·6	22·2	167·9
	1960	1954	1953	1953	1956	..	1956	1957	1954	1954	1955	1956	1956	1957	1956	1953	1955	1959	1955	1956	1957
Keshod	32·2	6.9	0	38.0	7·8	0	42·1	11·5	0	43·3	15·8	0·2	45·1	19·9	0·8	37·7	22·3	37·4	36·2	23·1	178·0
	1960	1960	..	1960	1960	..	1959	1960	..	1959	1960	1959	1959	1960	1959	1959	1959	1959	1960	1959	1959
Veraval	34·4	4·4	12·9	38·3	4·4	16·8	42·8	9·4	19·1	42·8	13·9	124·7	44·2	18·9	123·2	37·2	20·0	121·9	33·9	21·1	289·6
	1933	1905	1926	1953	1893	1923	1945	1892	1911	1954	1903	1947	1959	1909	1917	1954	1951	1960	1902	1892	1945
Konkan																					
Dahanu	34 4	8·3	8·9	37·8	8·9	3·6	38·9	12·8	1·3	40·6	19·3	59·9	38·3	20·6	27·0	38·3	15·0	373·0	35·0	18·4	431.0
	1957	1945	1948	1949	1950	1954	1946	1945	1958	1955	1957	1947	1944	1947	1960	1951	1948	1960	1947	1960	1956

X=Highest Maximum Temperature. N=Lowest Minimum Temperature. †Observatory started from 16-6-1959.

Heaviest Rainfall (Millimetres) in 24 Hours Based on Data upto 1960 (1881-1882 Saka)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Gujarat—(*contd.*)
36·1	21·1	295·4	38·9	17·8	265·4	40·0	11·7	177·0	36·4	8·9	65·4	34·4	5·0	7·4	1931	1931	Dhohad
1932	1956	1933	1951	1950	1945	1951	1935	1954	1960	1938	1958	1953	1936	1931			
37·2	22·8	238·0	41·1	18·9	372·1	41·7	11·7	138·4	38·3	7·2	48·3	36·1	3·3	3·6	1933	1933	Baroda.
1947	1953	1956	1951	1938	1945	1951	1955	1940	1951	1938	1934	1941	1937	1933			
35·6	21·7	277·1	41·1	21·1	148·9	41·1	12·8	71·1	37·8	10·6	16·8	35·0	6·7	0	1949	1949	Baroda (Aerodrome).
1949	1956	1956	1951	1957	1958	1951	1960	1954	1951	1956	1957	1952	1954	..			
35·6	22·8	154·9	41·7	21·1	304·8	41·7	14·4	85·0	38·9	10·9	10·4	37·2	8·0	0·5	1951	1951	Broach.
1954	1952	1956	1951	1957	1954	1952	1954	1959	1957	1960	1958	1952	1959	1954			
37·2	21·1	288·9	41·1	20·6	389·4	41·1	14·4	257·1	39·4	10·6	118·3	38·9	6·7	12·2	1881	1881	Surat.
1932	1887	1933	1951	1884	1945	1952	1893	1894	1951	1881	1946	1953	1903	1933			
																	Saurashtra and Kutch
32·0	24·0	17·6	37·2	20·3	240·1	35·7	14·2	1·0	36·6	6·5	6·4	32·7	3·3	0	1959	1959	Naliya
1960	1960	1959	1960	1959	1959	1959	1960	1959	1960	1960	1959	1959	1959	..			
37·8	22·7	70·4	39·7	19·4	78·0	41·1	13·7	95·4	37·2	8·7	2·4	33·9	4·4	3·6	1954	1954	Bhuj (Aerodrome).
1954	1956	1956	1960	1954	1958	1960	1957	1959	1957	1966	1959	1954	1955	1956			
35·1	23·7	42·0	40·4	22·3	0·2	49·4	18·2	0	36·0	12·5	0	31·9	10·2	0			Bhutakia Bhimsar
1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960			
35·8	23·4	185·9	38·3	22·6	64·8	37·8	18·9	22·6	37·2	14·5	3·8	32·8	9·4	0·8	1955	1951	Kandla.
1958	1956	1956	1957	1957	1953	1955	1955	1959	1957	1960	1957	1958	1955	1957			
34·4	22·8	175·3	36·4	20·6	55·0	38·4	17·3	32·8	34·4	13·5	3·0	31·7	8·2	15·0	1954	1954	Mandvi.
1957	1956	1956	1960	1960	1958	1960	1957	1956	1957	1960	1959	1958	1959	1958			
32·8	21·7	302·3	39·4	22·2	135·9	40·0	16·7	138·4	37·2	12·2	355·1	33·9	8·3	28·5	1901	1901	Dwarka.
1954	1908	1933	1929	1909	1921	1951	1949	1917	1901	1938	1951	1932	1903	1937			
32·9	22·8	89·7	36·1	22·8	94·7	39·4	17·2	213·6	38·2	13·3	82·2	36·7	10·0	4·6	1952	1952	Porbander.
1958	1956	1954	1955	1954	1956	1953	1952	1959	1957	1952	1958	1953	1954	1954			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			Porbander (Aerodrome)
37·8	20·6	248·9	41·7	16·1	133·3	40·6	14·4	37·3	37·2	8·9	48·5	34·4	3·9	42·7	1901	1901	Jamnagar.
1954	1924	1954	1951	1923	1947	1952	1954	1915	1901	1938	1948	1955	1930	1929			
37·8	20·6	233·2	40·6	16·7	184·7	41·7	12·2	105·6	38·3	7·2	99·8	36·1	2·8	22·9	1881	1881	Rajkot (Aerodrome).
1947	1913	1900	1911	1912	1945	1925	1949	1939	1929	1917	1888	1886	1903	1929			
36·9	21·7	198·1	39·4	21·9	112·0	39·2	16·1	40·8	37·2	11·1	7·6	34·4	5·0	1·3	1953	1953	Surendranagar.
1958	1956	1953	1960	1957	1958	1960	1954	1958	1953	1956	1957	1953	1955	1957			
38·9	21·7	125·0	41·1	20·6	242·3	41·1	13·3	233·9	38·3	6·1	105·7	35·0	5·0	25·9	1891	1891	Bhavangar.
1902	1903	1946	1951	1935	1947	1951	1916	1931	1948	1933	1936	1941	1908	1909			
36·8	22·2	117·0	40·6	21·1	102·9	41·7	17·2	141·0	36·7	12·2	4·8	34·6	9·4	2·5	1951	1951	Bhavnagar (Aerodrome).
1958	1958	1959	1951	1952	1954	1951	1954	1959	1951	1956	1959	1957	1955	1957			
34·4	21·1	77·2	37·0	19·9	80·0	38·9	15·6	76·0	36·2	13·3	12·2	35·0	9·4	17·3	1952	1952	Mahuva.
1954	1952	1957	1960	1957	1954	1952	1954	1959	1957	1953	1958	1952	1954	1954			
31·3	23·1	10·0	37·6	20·2	56·4	38·5	14·7	39·0	37·0	11·7	0	34·4	8·8	0·2	1959	1959	Keshod.
1960	1960	1959	1960	1960	1960	1960	1960	1959	1960	1960	..	1960	1959	1959			
33·3	22·7	270·0	36·7	20·6	277·4	40·0	13·3	173·7	37·8	10·0	89·9	35·6	7·2	25·7	1891	1891	Veraval.
1932	1960	1933	1955	1946	1926	1952	1949	1917	1951	1950	1896	1953	1950	1902			
																	Konkan
31·7	20·6	335·0	33·9	21·1	481·0	36·1	17·2	173·4	36·7	15·6	256·5	35·6	11·1	0·5	1944	1944	Dahanu.
1947	1951	1945	1944	1954	1958	1953	1954	1959	1947	1955	1948	1952	1945	1954			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. = Information not available.

8—7 D.D.G. Obs. Poona/65

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Konkan—(*contd.*)																					
Bombay (Colaba)	35·0	11·7	49·3	38·3	11·7	41·7	39·7	16·7	34·3	40·6	20·0	37·3	36·2	22·8	126·2	37·2	21·1	408·9	35·6	21·7	304·8
	1952	1935	1926	1949	1929	1917	1958	1905	1918	1955	1905	1947	1959	1951	1893	1901	1936	1886	1902	1945	1923
Bombay (Santacruz Aerodrome)	35·6	10·0	0·8	39·4	10·0	8·9	41·7	14·1	0·8	42·2	18·3	1·5	38·8	20·6	54·4	36·7	22·2	305·6	39·8	21·8	310·6
	1952	1953	1958	1953	1950	1954	1956	1957	1951	1952	1951	1951	1959	1951	1951	1951	1954	1953	1960	1957	1953
Alibag	35·3	9·4	9·7	37·8	11·7	4·1	39·4	15·6	2·8	40·0	18·9	8·4	37·5	21·7	103·1	34·4	18·3	225·0	32·3	20·0	295·9
	1958	1934	1948	1943	1950	1940	1945	1945	1940	1955	1937	1947	1960	1943	1938	1932	1945	1940	1960	1949	1953
Harnai	33·4	15·6	8·6	39·2	13·9	1·0	37·2	16·1	0	36·1	17·8	31·5	37·2	20·0	157·0	34·4	16·1	281·8	32·2	17·8	242·6
	1958	1945	1945	1960	1950	1948	1946	1945	..	1949	1950	1955	1955	1950	1956	1953	1945	1960	1948	1950	1948
Ratnagiri	36·7	12·2	23·4	38·3	13·3	32·0	38·9	16·1	31·7	36·1	16·1	25·9	37·8	21·7	91·7	35·0	19·4	309·9	32·8	20·6	304·3
	1912	1935	1888	1920	1901	1917	1922	1910	1900	1938	1905	1937	1883	1913	1893	1913	1939	1953	1900	1919	1900
Devgad	34·4	15·6	12·2	35·0	17·2	1·5	37·2	18·7	12·2	37·2	20·6	23·6	35·0	22·5	119·4	37·2	13·3	276·0	31·7	21·1	210·3
	1952	1945	1947	1952	1950	1958	1948	1957	1947	1956	1953	1947	1954	1958	1949	1948	1945	1958	1957	1954	1948
Vengurla	35·6	12·0	0·3	38·9	12·8	2·8	37·4	15·0	0·3	40·0	20·6	17·0	36·1	22·2	107·7	33·9	20·0	333·3	32·4	21·7	237·7
	1955	1960	1959	1952	1950	1958	1958	1950	1954	1956	1955	1954	1949	1958	1955	1958	1956	1958	1960	1956	1951
Maharashtra																					
Nandurbar	35·9	8·9	43·9	40·6	13·2	0	43·3	14·2	2·5	45·6	18·9	41·2	46·1	21·7	76·2	42·8	22·2	80·0	38·2	21·1	167·5
	1958	1954	1955	1955	1959	..	1956	1960	1954	1958	1955	1958	1955	1956	1956	1953	1956	1953	1960	1952	1958
Jalgaon	35·6	1·7	29·6	40·6	3·9	21·8	43·9	8·7	23·9	47·2	15·6	15·7	47·8	21·2	35·1	46·1	21·7	115·1	39·4	21·1	110·7
	1939	1945	1958	1953	1943	1941	1953	1960	1938	1958	1944	1951	1947	1960	1956	1953	1955	1956	1951	1938	1941
Malegaon	35·0	0·6	38·1	39·4	−0·6	43·4	45·6	5·6	14·7	44·6	9·4	27·0	46·7	16·7	104·4	44·4	17·8	111·0	38·9	18·3	158·5
	1932	1935	1888	1953	1929	1936	1889	1898	1915	1958	1905	1958	1916	1881	1903	1915	1932	1914	1960	1953	1896
Deolali	32·8	5·0	1·8	37·8	−0·6	1·5	40·0	7·2	7·4	42·8	11·1	24·6	42·2	17·8	57·7	40·0	20·0	49·5	33·9	20·0	157·0
	1950	1954	1958	1953	1950	1954	1953	1957	1955	1958	1955	1958	1955	1955	1951	1955	1952	1957	1960	1951	1952
Aurangabad	37·2	3·9	51·6	37·8	2·2	36·3	42·2	8·9	23·4	45·0	10·0	24·6	45·6	17·2	53·3	43·9	17·2	182·1	37·8	18·3	139·7
	1924	1945	1920	1953	1911	1894	1892	1898	1915	1896	1908	1937	1905	1924	1918	1923	1901	1953	1897	1904	1916
Aurangabad (Chikalthana Aerodrome).	32·2	3·9	3·8	37·2	5·0	3·1	40·0	7·1	20·3	43·6	14·9	7·9	43·1	20·0	30·0	42·2	20·0	94·2	35·0	20·0	84·1
	1955	1954	1959	1954	1957	1952	1955	1957	1954	1958	1960	1954	1960	1952	1956	1953	1954	1955	1952	1956	1953
Khandala	..	..	19·1	..	..	15·2	..	..	1·3	..	..	58·0	..	..	62·4	..	..	267·2	..	..	516·4
	..	..	1940	..	..	1937	..	..	1951	..	..	1959	..	..	1960	..	..	1953	..	..	1958
Ahmednagar	36·1	2·2	51·6	38·9	2·8	42·9	40·6	7·8	88·4	43·1	10·6	71·9	43·7	16·1	119·9	43·3	18·3	177·3	37·2	17·8	174·0
	1897	1945	1941	1897	1911	1894	1934	1892	1938	1958	1926	1937	1960	1917	1915	1920	1907	1931	1955	1944	1911
Parbhani	33·3	4·4	43·4	38·3	6·1	34·8	41·7	11·6	46·5	45·0	17·2	36·8	45·6	21·1	56·6	45·6	20·0	87·9	37·8	20·4	171·5
	1955	1945	1926	1953	1949	1928	1953	1957	1927	1958	1955	1939	1954	1956	1916	1953	1951	1940	1950	1957	1923
Poona	35·0	1·7	22·3	38·9	3·9	16·3	42·8	7·2	35·1	43·3	10·6	51·1	43·3	13·9	82·5	41·7	17·2	97·0	35·6	18·9	130·4
	1938	1935	1948	1953	1934	1892	1892	1908	1954	1897	1903	1896	1889	1888	1927	1897	1920	1906	1915	1920	1958
Poona (Lohagaon Aerodrom).	32·8	8·3	0	37·8	8·6	0	40·0	11·1	42·9	41·7	12·2	26·2	41·7	15·0	74·4	39·5	18·9	83·8	34·8	20·0	103·6
	1952	1954	..	1953	1958	..	1953	1955	1954	1958	1955	1959	1952	1955	1960	1958	1953	1954	1960	1959	1958
Baramati	33·3	8·1	0	37·4	8·6	0	40·5	11·2	6·3	43·2	13·3	22·2	42·8	19·4	35·6	41·9	20·0	74·4	36·2	20·0	37·1
	1955	1958	..	1959	1957	..	1959	1957	1958	1958	1955	1955	1958	1956	1959	1958	1956	1960	1960	1956	1956
Jeur	33·9	5·7	0·5	38·3	5·0	18·5	41·1	10·4	4·8	43·7	14·4	23·6	43·6	20·1	49·0	43·3	18·9	81·5	39·9	17·9	88·1
	1950	1957	1955	1953	1950	1952	1953	1957	1957	1958	1960	1957	1958	1960	1956	1953	1951	1953	1959	1959	1956

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Konkan—(*contd.*)
32·2	21·7	287·0	35·0	20·0	548·1	36·6	20·6	148·6	36·2	17·8	122·7	35·1	12·8	24·4	1881	1881	Bombay (Colaba).
1948	1943	1881	1929	1947	1930	1957	1954	1917	1957	1881	1927	1959	1929	1884			
31·1	19·4	256·0	35·6	21·7	132·8	37·0	16·7	117·1	36·3	13·3	23·1	35·2	10·6	9·1	1949	1949	Bombay. (Santacruz Aerodrome).
1954	1950	1954	1951	1953	1954	1957	1952	1955	1957	1950	1957	1958	1949	1954			
32·8	21·1	204·0	32·8	21·1	396·2	37·2	18·3	115·8	36·7	15·6	106·7	34·8	13·9	12·5	1931	1931	Alibag.
1932	1949	1954	1951	1947	1949	1936	1954	1938	1941	1950	1948	1960	1949	1933			
32·2	20·6	176·0	31·7	21·1	308·6	35·0	19·4	176·5	35·6	18·3	72·6	33·9	18·9	15·2	1944	1944	Harnai.
1947	1950	1947	1951	1947	1949	1950	1946	1947	1951	1946	1946	1944	1949	1954			
31·1	21·1	204·2	34·4	20·6	236·7	37·2	17·8	221·0	37·2	15·6	243·8	36·1	14·4	33·8	1881	1881	Ratnagiri.
1939	1931	1885	1896	1898	1938	1888	1903	1938	1918	1955	1912	1896	1954	1931			
31·7	19·4	130·8	32·2	21·1	235·2	35·0	19·4	141·0	36·1	17·2	67·1	34·4	16·1	16·5	1945	1945	Devgad.
1948	1945	1948	1953	1945	1948	1946	1952	1951	1951	1952	1946	1953	1949	1954			
30·6	21·7	177·6	32·8	21·3	125·5	35·8	17·6	122·4	35·6	14·4	37·0	35·3	10·6	1·5	1949	1949	Vengurla.
1950	1956	1958	1952	1957	1955	1960	1960	1951	1951	1950	1959	1960	1954	1958			
																	Maharashtra.
38·9	21·1	82·0	36·1	20·6	124·5	38·9	16·2	163·0	37·2	11·7	20·0	35·0	10·6	4·1	1952	1952	Nandurbar.
1954	1956	1959	1955	1952	1954	1952	1958	1959	1957	1956	1959	1953	1954	1956			
37·2	20·0	119·1	38·9	15·6	111·8	38·3	10·0	98·8	36·5	5·6	59·9	35·0	1·7	22·3	1937	1937	Jalgaon.
1947	1942	1942	1951	1942	1937	1951	1952	1943	1957	1950	1946	1953	1937	1947			
37·2	16·1	115·3	38·3	16·1	132·1	40·0	10·6	109·7	36·7	5·6	105·2	35·0	3·3	39·4	1881	1881	Malegaon.
1899	1899	1897	1899	1942	1894	1899	1933	1935	1908	1910	1912	1896	1929	1884			
33·3	19·4	143·3	33·9	17·8	86·9	35·7	9·4	54·6	32·9	6·7	62·5	33·1	5·0	40·0	1950	1950	Deolali.
1950	1956	1956	1960	1954	1954	1957	1954	1956	1960	1955	1958	1960	1954	1954			
36·1	17·2	134·6	36·7	16·1	245·1	37·8	12·2	68·8	35·6	7·2	157·5	34·4	5·0	92·7	1896	1891	Aurangabad.
1950	1935	1903	1896	1901	1891	1911	1903	1901	1896	1910	1946	1896	1902	1942			
33·3	18·3	69·3	34·1	17·8	78·8	35·2	8·3	43·4	33·4	5·6	44·4	32·8	3·9	9·1	1952	1952	Aurangabad (Chikalthana Aerodrome)
1954	1956	1956	1960	1952	1958	1957	1952	1959	1957	1956	1958	1953	1954	1954			
..	..	475·0	..	..	308·4	..	..	263·7	..	..	188·7	..	..	16·0	..	1933	Khandala.
..	..	1956	..	..	1942	..	..	1938	..	..	1948	..	..	1942			
36·7	16·1	147·3	36·7	14·4	148·8	37·6	10·6	89·1	35·6	5·6	124·7	33·3	3·3	69·1	1891	1891	Ahmednagar.
1899	1913	1957	1912	1896	1902	1960	1914	1943	1898	1892	1960	1953	1926	1942			
36·7	20·0	139·7	35·6	18·5	217·2	36·7	10·0	168·9	33·9	8·3	79·0	32·8	6·7	32·3	1944	1916	Parbhani.
1950	1953	1934	1951	1959	1923	1946	1954	1955	1953	1956	1936	1953	1945	1937			
35·0	17·2	108·7	36·1	16·1	132·3	37·8	11·1	149·1	36·1	7·2	96·8	35·0	4·4	41·1	1881	1881	Poona.
1950	1920	1956	1951	1901	1938	1899	1910	1892	1896	1939	1934	1896	1940	1942			
32·0	17·2	103·6	37·2	15·6	55·1	36·1	12·8	106·9	33·3	9·4	76·2	33·3	7·8	8·1	1950	1950	Poona. (Lohagaon Aerodrome).
1958	1956	1956	1951	1952	1955	1951	1950	1951	1953	1955	1951	1954	1954	1954			
34·5	17·8	106·2	35·6	17·8	105·4	36·2	12·8	75·4	33·1	9·4	46·2	32·2	7·8	14·0	1954	1954	Baramati.
1958	1956	1956	1955	1957	1957	1957	1954	1957	1958	1955	1956	1954	1959	1954			
37·2	17·4	94·2	36·1	15·3	85·5	36·3	12·2	58·1	35·0	8·9	63·6	33·1	5·3	43·2	1950	1950	Jeur.
1950	1957	1958	1951	1959	1959	1957	1952	1959	1959	1955	1959	1958	1959	1954			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. =Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Maharashtra—*contd.*																					
Sholapur	36·7	4·4	48·8	39·4	6·1	34·3	43·9	12·2	39·6	44.4	13·9	48·0	45·6	16·1	56·1	44·4	17·2	143·8	38·9	18·3	160·3
	1897	1945	1943	1886	1911	1928	1892	1886	1893	1889	1905	1907	1939	1885	1952	1953	1922	1982	1912	1914	1907
Miraj	33·9	5·0	46·5	37·2	6·7	8·6	40·6	11·2	21·6	42·2	15·0	115·1	42·2	18·9	108·2	42·2	19·4	83·2	35·0	17·2	61·0
	1950	1945	1941	1953	1944	1941	1949	1957	1958	1942	1944	1937	1940	1937	1938	1934	1956	1959	1932	1945	1943
Kholapur	33·6	8·9	14·7	36·9	10·4	4·3	40·4	12·8	48·5	41·7	15·6	34·5	41·2	18·3	66·0	39·4	18.9	101·1	32·6	18·9	151·6
	1959	1946	1947	1959	1959	1952	1959	1957	1948	1956	1955	1946	1959	1946	1947	1953	1956	1959	1960	1955	1953
Vidarbha																					
Buldhana	32·8	10·0	30·7	36·7	4·4	1·3	38·9	14·8	26·2	42·2	18·2	31·0	42·2	20·0	30·2	41·7	19·4	89·0	34·4	18.9	122.9
	1956	1953	1955	1953	1950	1952	1953	1957	1955	1958	1959	1959	1954	1956	1956	1953	1955	1959	1952	1949	1953
Akola	36·2	3·9	49·0	40·0	2·2	42·2	44·4	5·6	38·6	46·1	11·1	58·7	47·8	11·9	44·7	47·2	20·0	188·0	40·6	20·6	188·5
	1958	1937	1922	1953	1887	1907	1892	1908	1957	1942	1905	1937	1947	1960	1943	1923	1916	1955	1900	1941	1894
Amravati	35·0	6·1	59·2	38·9	5·0	51·6	43·9	8·9	51·6	46·1	12·8	66·3	46·7	18·3	47·2	46·7	19·4	155·2	39·4	18·9	230·1
	1889	1934	1911	1953	1887	1928	1892	1898	1957	1898	1905	1937	1954	1917	1887	1923	1916	1927	1931	1890	1888
Yeotmal	33·3	9·4	36·0	37·8	7·2	31·2	41·7	14·4	29·7	44·7	17·8	146·7	46·1	20·0	48·3	45·6	20·4	104·4	38·3	20·0	123·0
	1950	1954	1960	1953	1950	1950	1953	1957	1957	1958	1955	1952	1954	1955	1956	1953	1959	1953	1950	1953	1959
Nagpur	35·0	3·9	60·3	38·9	5·0	51·6	45·0	8·3	45·0	46·1	13·9	59·4	47·8	19·4	58.4	47·2	20·0	315.0	40·6	19·4	219·2
	1900	1937	1960	1887	1950	1942	1892	1898	1881	1942	1905	1937	1954	1917	1909	1931	1919	1911	1897	1942	1898
Gondia	31·7	6·7	42·4	37·2	6·7	43·3	41·7	11·7	34.3	43·5	18·3	25·9	46·1	22·2	13·2	45·6	20·6	216·7	37·2	21·3	164·2
	1950	1951	1948	1951	1950	1947	1953	1952	1951	1958	1957	1953	1954	1951	1956	1953	1959	1955	1958	1958	1959
Brahmapuri	31·8	7.5	30·6	36·2	7·8	18·0	40·5	13·5	47·5	44·5	17·6	17.0	46·6	19·7	43·7	46·2	20·5	85·6	36·2	18·7	214·0
	1958	1958	1959	1958	1957	1957	1959	1957	1957	1958	1960	1957	1960	1957	1957	1958	1957	1960	1958	1957	1960
Chanda	35·6	2·8	39·4	39·4	3·9	94·2	44·4	7·2	68·8	46·1	11·7	65·3	48·3	18·9	44·5	47·2	20·0	182·1	40·6	17·8	191·3
	1900	1899	1924	1951	1905	1898	1892	1898	1893	1942	1905	1914	1912	1919	1903	1931	1919	1887	1897	1954	1887
Sironcha	33·3	7·8	7·1	37·8	10·6	13.5	41·7	13·9	95·0	44·7	21·1	32·4	46·7	21·1	26·4	46·7	20·1	119·0	38·9	20·1	167·6
	1955	1951	1959	1953	1957	1958	1959	1952	1951	1959	1958	1958	1954	1955	1955	1953	1960	1959	1951	1960	1960
Coastal Andhra Pradesh																					
Nellore	35·6	15·0	94·2	39·4	16·1	116·8	43·9	17·2	59·2	45·6	20·6	73·7	46·7	21·7	185.9	46·7	21·1	83·8	45·6	22·2	95·3
	1936	1946	1906	1927	1891	1928	1892	1910	1944	1895	1934	1900	1892	1947	1952	1894	1912	1903	1951	1943	1950
Ongole	33·9	14·4	27·9	38·3	14·4	47·8	43·3	18·3	52·3	44·4	20·6	16·8	46·1	16·1	102·6	46·1	23·3	71·1	40·0	21·2	80·3
	1946	1946	1953	1954	1945	1959	1953	1945	1951	1956	1950	1956	1956	1949	1949	1953	1957	1946	1952	1957	1956
Rentachintala	35·0	10·6	3·8	39·4	12·8	21·3	44·4	15·6	28·5	46·1	18·3	69·1	47·2	18·3	67·3	47·2	21·7	101·6	40·6	21·7	87·6
	1958	1946	1948	1959	1949	1956	1953	1952	1950	1941	1937	1948	1948	1955	1940	1953	1947	1947	1952	1956	1953
Gannavaram	34·4	15·6	8·4	37·8	15·5	11·4	43·3	17·2	46·7	44·4	21·6	77·5	46·7	21·1	43·4	46·7	20·6	150·4	39·4	21·5	99·6
	1952	1955	1956	1954	1960	1959	1953	1952	1957	1956	1960	1953	1956	1955	1955	1953	1951	1960	1952	1957	1956
Masulipatam	33·3	13·9	76·2	37·2	14·4	96·5	42·2	16·7	150·4	44·4	18·3	101·3	47·8	19·4	82·5	46·1	20·0	133·3	41·7	19·4	115·6
	1946	1945	1908	1927	1889	1901	1892	1906	1926	1892	1926	1942	1906	1893	1904	1924	1947	1915	1897	1893	1935
Nidadavolu	33·2	14·1	4·0	36·6	15·0	5·8	37·2	19·7	35·7	42·8	22·8	21·8	46·7	21·6	57·7	46·2	22·3	59.9	34·8	21·9	86.8
	1958	1960	1959	1959	1956	1956	1959	1959	1960	1956	1957	1956	1956	1959	1957	1958	1959	1956	1959	1959	1958
Kakinada	32·8	14·4	78·2	37·8	15·6	45.0	38·9	17·2	71·6	42·8	18·9	61·0	46·7	21·1	109·7	47·2	21·7	501·4	41.7	21·1	127.0
	1950	1946	1921	1896	1918	1893	1934	1906	1905	1947	1942	1937	1934	1917	1914	1923	1940	1941	1897	1938	1947
Visakhapatnam	33·1	12·8	132·1	36·7	13·3	64·5	38·3	14·4	64·5	38·7	18·3	73·9	43·3	20·0	145·3	43·9	21·1	166·1	38·3	21·3	145·0
	1958	1956	1908	1922	1956	1901	1956	1952	1926	1957	1930	1925	1953	1904	1955	1906	1953	1929	1899	1960	1951

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Maharashtra—*contd.*
37·8	15·0	191·0	37·2	17·5	169·9	38·3	12·8	125.5	36·1	7·8	127.8	34·4	6·7	97·5	1881	1881	Sholapur.
1899	1956	1940	1899	1959	1895	1896	1882	1957	1915	1881	1896	1896	1945	1886			
34·4	17·8	150·9	35·6	15·6	93·7	36·1	12·2	101·3	34·4	8·3	114·1	34·4	7·2	19·8	1831	1831	Miraj.
1941	1949	1932	1951	1935	1946	1942	1937	1956	1958	1950	1955	1941	1954	1933			
32·2	18·9	116·3	35·0	17·6	81·8	35·7	13·9	67·6	33·3	11·1	89·1	33·4	8·9	17·5	1946	1946	Kolhapur.
1950	1956	1956	1951	1960	1960	1960	1952	1953	1951	1955	1955	1960	1956	1947			
																	Vidarbha
35·0	16·6	129·8	32·8	17·9	170·4	33·9	14·4	50·0	32·2	11·7	38·1	31·8	11·0	19·6	1948	1948	Buldhana.
1950	1959	1959	1951	1959	1958	1951	1957	1951	1960	1949	1948	1960	1960	1950			
37·8	18·3	224·5	40·0	17·2	365·4	40·0	10.0	110·5	36·1	5·6	112·3	36·7	3·9	65·0	1881	1881	Akola.
1950	1944	1900	1899	1904	1959	1899	1889	1887	1899	1912	1936	1896	1883	1885			
36·7	15·6	158·1	38·3	17·2	234·9	39·4	12·8	90·2	35·6	8·9	78·0	33·9	8·3	55·6	1881	1881	Amravati.
1902	1944	1944	1899	1893	1933	1899	1889	1940	1899	1884	1931	1913	1937	1885			
35·6	19·4	165·6	35·1	20·0	210·3	35·4	13·9	85·9	32·8	10.0	8·1	34·0	10·0	13.7	1949	1949	Yeotmal.
1950	1955	1952	1960	1957	1959	1957	1952	1952	1957	1950	1956	1960	1950	1950			
37·8	18·3	200·7	38·9	18·3	182·6	38·3	11·6	164·6	35·6	6·7	81·5	33·9	5·6	45·7	1881	1881	Nagpur.
1899	1939	1875	1899	1904	1883	1899	1960	1936	1899	1912	1946	1941	1936	1884			
34·4	18·3	148·1	34·4	20·6	95·0	35·3	13·3	106·7	33·9	8·9	54·6	32·7	7·2	13·2	1946	1946	Gondia.
1947	1953	1947	1951	1952	1956	1957	1952	1949	1957	1950	1948	1960	1955	1956			
33·5	19·6	117·0	34·6	19·4	175·4	35·6	16·2	65·2	33·1	11·3	54·0	37·2	8·6	0	1957	1957	Brahmapuri.
1958	1957	1960	1960	1957	1959	1960	1960	1960	1957	1960	1958	1957	1959	..			
37·2	18·3	179·6	37·2	18·3	249·4	37·8	11·7	164·1	36·1	7·2	70·9	33·9	3·9	54·6	1881	1881	Chanda.
1954	1954	1951	1899	1904	1959	1899	1882	1936	1950	1950	1881	1933	1883	1884			
36·1	18·9	247·4	35·2	21·7	100·9	36·9	14·4	115·8	33·9	10·6	13·4	33·0	9·9	2·6	1950	1950	Sironcha.
1950	1954	1953	1957	1951	1959	1957	1954	1957	1957	1950	1960	1960	1959	1959			
																	Coastal Andhra Pradesh
40·6	21·7	75·2	41·1	21·7	133·6	39·4	18·9	444·0	36·7	16·7	356·9	35·0	14·4	189·2	1891	1891	Nellore.
1899	1912	1923	1899	1945	1909	1900	1895	1950	1915	1939	1936	1909	1895	1902			
38·5	21·7	66·0	38·9	21·7	232·7	37·8	18·3	184·9	35·2	16·7	258·3	33·9	15·1	87.4	1845	1845	Ongole.
1960	1956	1949	1952	1949	1949	1951	1947	1953	1959	1955	1946	1951	1959	1952			
39·4	21·7	103·0	38·3	21·3	154·9	38·1	16·7	153·2	36·1	12·2	71·6	34·4	10·0	53.3	1936	1936	Rentachintala.
1950	1958	1958	1946	1958	1954	1957	1950	1945	1951	1950	1956	1951	1936	1952			
36·7	22·0	83·8	36·7	18·2	143.3	36·1	18·3	134·1	35·0	16·2	46·0	33·9	15·0	10.7	1951	1950	Gannavaram.
1952	1959	1955	1957	1957	1954	1951	1952	1956	1951	1960	1956	1951	1953	1952			
38·3	21·7	135·6	37·8	20·6	116·6	37·2	18·9	502·4	34·4	13·9	355·6	32·2	14·4	159·3	1881	1881	Masulipatam.
1920	1952	1886	1888	1895	1954	1888	1895	1949	1891	1934	1938	1951	1937	1947			
34·5	22·4	66·5	34·9	22·1	40·9	36·5	20·8	146·3	33·2	15·5	47·5	33·1	12·9	17·2	1955	1955	Nidadavolu.
1960	1957	1957	1957	1960	1956	1957	1960	1960	1958	1959	1957	1960	1959	1960			
37·8	21·7	146·1	37·2	21·7	285·7	37·2	17·2	281·9	33·9	15·6	276·3	32·2	13·9	130·3	1896	1881	Kakinada.
1902	1955	1937	1920	1958	1956	1907	1949	1936	1951	1910	1923	1899	1902	1882			
38·2	21·1	121·4	37·8	22·2	148·6	36·8	17·8	293·3	33·9	15·0	270·5	32·8	12·8	191·3	1896	1901	Visakhapatnam.
1960	1907	1957	1939	1953	1914	1957	1952	1958	1942	1929	1923	1951	1959	1909			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Coastal Andhra Pradesh—(*contd.*)																					
Calingapatam	33·9	12·2	25·4	37·8	12·8	83·1	38·9	16·1	84·3	41·7	18·3	63·5	43·9	20·6	307·3	43·9	19·8	188·2	38·9	21·7	205·7
	1911	1937	1908	1922	1918	1923	1946	1952	1940	1947	1930	1956	1916	1951	1914	1923	1960	1935	1911	1919	1956
Telangana																					
Ramagundam	33·9	9·4	10·9	38·9	9·4	8·1	42·8	14·4	21·1	44·6	20·0	30·5	47·2	21·1	65·5	47·2	21·7	140·7	40·0	21·1	119·9
	1957	1953	1953	1951	1949	1958	1953	1952	1951	1959	1956	1956	1948	1949	1957	1953	1959	1953	1950	1950	1956
Nizamabad	35·6	5·0	59·7	38·3	6·1	72·4	43·3	11·1	43·9	44·4	12·8	76·2	47·2	18·3	71·1	46·1	16·7	246·4	40·0	14·4	298·0
	1928	1899	1943	1954	1911	1928	1928	1892	1950	1942	1905	1937	1923	1917	1922	1931	1902	1914	1904	1931	1958
Mahbubnagar	32·6	12·7	0·3	36·6	11·7	7·9	40·0	15·6	43·4	42·2	19·2	65·5	43·3	21·1	79·3	43·3	20·6	59·7	36·8	19·4	104·4
	1960	1957	1958	1959	1956	1958	1953	1952	1958	1956	1958	1957	1956	1955	1952	1953	1955	1954	1957	1952	1956
Hyderabad (Begumpet Aerodrome.)	35·0	6·1	93·2	37·2	8·9	42·9	42·2	13·2	103·1	43·3	16·1	60·7	44·4	19·4	65·0	43·9	17·8	122·7	37·2	19·4	109·2
	1929	1946	1922	1951	1911	1912	1892	1957	1928	1941	1917	1937	1935	1917	1905	1931	1922	1914	1918	1931	1916
Hakimpet	30·7	12·2	0	35·3	13·9	13·2	38·3	16·1	31·2	40·6	18·4	25·9	43·3	18·9	32·5	42·2	18·9	106·9	34·1	19·4	84·3
	1960	1955	..	1959	1956	1958	1959	1958	1958	1956	1957	1956	1956	1957	1955	1953	1954	1955	1960	1959	1957
Hanamkonda	35·0	8·9	58·4	37·8	10·6	45·7	42·2	15·0	71·1	44·4	17·8	83·6	46·7	17·2	75·7	46·1	21·1	197·6	38·9	17·8	227·8
	1921	1945	1924	1954	1911	1936	1953	1906	1928	1942	1957	1937	1928	1917	1940	1953	1953	1914	1920	1911	1903
Bhadrachallam	34·5	11·1	11·9	38·3	11·7	2·0	42·8	15·6	25·4	43·9	18·3	30·0	46·7	21·7	35·6	46·8	20·6	78·7	39·4	21·7	73·9
	1958	1957	1958	1954	1956	1952	1953	1952	1954	1956	1956	1956	1956	1955	1956	1958	1954	1956	1952	1954	1956
Khammameth	35·0	9·4	11·4	38·9	11·7	39·6	43·3	16·1	47·0	45·0	18·9	63·0	47·2	21·1	46·5	46·7	21·7	92·7	39·4	20·5	299·7
	1950	1946	1941	1954	1943	1946	1953	1952	1944	1941	1945	1945	1947	1948	1948	1953	1950	1953	1952	1959	1954
Rayalaseema																					
Arogyavaram	31·6	11·7	19·3	35·0	11·6	22·6	37·2	10·5	18·0	38·3	18·2	50·0	38·9	15·6	80·5	37·2	18·9	69·6	34·4	16·7	100·1
	1958	1956	1947	1959	1960	1950	1953	1960	1957	1956	1960	1956	1947	1946	1951	1953	1957	1958	1946	1952	1954
Cuddapah	37·8	11·7	84·8	40·6	14·4	51·6	43·3	17·8	131·3	45·0	17·8	116·6	46·1	19·4	115·1	45·0	17·8	152·4	40·6	17·2	103·9
	1897	1912	1896	1897	1948	1901	1903	1935	1915	1906	1907	1898	1906	1896	1940	1923	1944	1957	1897	1943	1894
Anantpur	34·1	12·2	5·1	37·9	13·3	10·9	40·6	15·0	25·9	42·2	18·3	67·1	42·2	18·9	76·5	41·7	20·6	59·9	36·7	21·1	84·4
	1958	1958	1947	1959	1947	1947	1953	1951	1951	1956	1950	1956	1953	1951	1955	1953	1953	1957	1952	1956	1960
Kurnool	36·1	8·3	41·1	38·9	11·1	66·8	41·7	12·8	50·0	44·4	16·1	42·2	45·6	19·4	165·6	44·4	20·0	81·3	38·3	20·6	132·1
	1897	1891	1915	1899	1943	1928	1925	1921	1893	1896	1905	1957	1921	1955	1952	1898	1935	1901	1915	1903	1893
Madras State																					
Palayamcottai	33·9	18·5	54·6	36·2	19·9	53·1	41·7	21·1	83·3	41·7	22·2	74·9	42·2	22·8	83·6	42·2	21·7	10·7	38·3	22·5	34·3
	1960	1957	1951	1957	1960	1950	1953	1959	1954	1956	1955	1947	1953	1956	1959	1953	1955	1957	1954	1959	1949
Tuticorin	33·3	18·9	21·6	31·1	18·3	41·2	33·3	21·1	62·2	38·3	22·2	41·4	41·1	21·7	41·3	38·9	21·7	11·4	37·9	23·1	21·1
	1955	1956	1956	1958	1956	1959	1958	1956	1957	1956	1955	1960	1956	1955	1958	1958	1960	1956	1958	1960	1954
Pamban	33·3	20·0	127·5	33·3	19·4	88·9	35·0	20·6	63·0	37·2	20·6	81·3	36·7	21·1	102·6	37·2	20·6	55·6	35·0	21·7	130·8
	1902	1956	1902	1906	1939	1902	1953	1959	1938	1930	1949	1954	1923	1891	1930	1930	1897	1940	1921	1957	1916
Tondi	31.8	20·1	2·8	31·6	18·6	16·0	30·6	22·1	0	33·6	23·9	28·6	38·6	24·1	28·1	38·6	23·2	24·7	37.5	22·1	24.5
	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960
Mathurai	34·4	15·6	152·4	38·3	16·1	188·0	41·7	17·2	100·3	41·7	19·4	166·4	41·7	17·8	99·6	42·2	17·8	105·4	40·6	19·4	124·5
	1936	1907	1921	1906	1884	1929	1882	1909	1947	1935	1909	1891	1956	1920	1882	1935	1897	1927	1884	1891	1893
Mathurai (Aerodrome).	33·3	18·5	2·8	36·1	16·5	6·8	38·0	18·6	3·2	38·5	22·6	51·4	39·9	23·2	14·4	39·1	22·8	8·0	38·4	21·7	53·0
	1959	1960	1960	1959	1960	1959	1959	1959	1960	1959	1959	1960	1959	1960	1960	1960	1960	1959	1960	1960	1960
Nagapattinam	31·7	16·1	245·1	35·6	15·6	125·0	40·0	16·7	126·5	41·7	20·0	151·6	42·8	20·6	164·1	41·7	20·6	79·3	41·7	21·7	113·0
	1899	1912	1923	1898	1884	1938	1953	1894	1923	1908	1894	1931	1898	1901	1930	1884	1882	1935	1898	1936	1916
Tiruchirapalli	35·6	14·4	114·8	40·0	13·9	137·9	42·2	15·6	80·8	42·8	18·3	160·5	43·3	19·4	183·1	43·9	20·0	73·4	41·1	21·7	94·7
	1925	1884	1909	1906	1884	1891	1892	1896	1906	1896	1937	1889	1896	1955	1930	1888	1911	1894	1921	1951	1916

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
36·7	22·2	192·5	36·7	22·2	310·6	35·6	16·7	155·5	33·9	13·3	280·4	31·7	12·2	221·7	1911	1906	**Coastal Andhra Pradesh—(contd.)** Calingapatam.
1923	1912	1912	1920	1930	1911	1950	1952	1921	1914	1926	1923	1951	1937	1909			
																	Telangana
36·7	21·7	89·4	37·3	21·4	106·0	38·4	15·6	84·6	35·2	11·1	65·3	33·9	8·5	3·1	1947	1947	Ramagundam.
1949	1959	1953	1958	1959	1459	1957	1954	1947	1959	1952	1949	1956	1959	1952			
37·8	17·2	157·7	37·2	17·2	251·5	38·9	11·7	196·9	35·6	7·2	80·0	35·0	4·4	49·8	1891	1891	Nizamabad
1899	1901	1944	1920	1903	1929	1951	1921	1939	1926	1929	1936	1920	1897	1918			
34·4	20·0	69·3	34·4	19·4	79·0	35·1	16·1	68·6	32·7	12·8	32·5	32·5	12·2	1·3	1952	1952	Mahbubnagar.
1953	1956	1957	1952	1954	1955	1957	1952	1952	1957	1955	1958	1960	1956	1956			
36·1	19·4	190·5	36·1	17·8	153·2	36·7	13·3	117·1	33·9	7·8	95·5	33·3	7·2	44·5	1891	1896	Hyderabad (Begumpet Aerodrome.)
1950	1955	1954	1927	1942	1908	1896	1954	1903	1909	1939	1927	1930	1945	1918			
33·2	19·4	141·2	35·6	17·8	121·7	31·9	15·0	67·3	30·4	12·8	28·7	31·2	12·7	8·4	1952	1952	Hakimpet.
1960	1958	1955	1956	1954	1954	1960	1954	1957	1959	1955	1956	1957	1959	1954			
37·2	19·4	190·5	38·3	19·4	304·8	37·8	15·0	136·4	34·4	9·4	92·7	33·9	8·3	42·4	1901	1901	Hanamkonda.
1920	1905	1924	1920	1904	1908	1920	1952	1957	1920	1904	1916	1920	1902	1929			
36·0	21·1	119·0	36·6	22·1	58·7	37·6	15·6	68·6	34·1	12·2	44·5	32·8	10·0	40·4	1952	1952	Bhadrachallam.
1960	1952	1959	1959	1957	1952	1957	1952	1953	1957	1953	1956	1958	1956	1952			
36·3	21·1	107·2	37·2	20·6	152·4	37·4	16·7	130·8	33·9	11·7	86·4	33·4	10·0	17·8	1941	1941	Khammameth.
1960	1947	1950	1957	1942	1947	1957	1952	1941	1951	1941	1946	1960	1945	1947			
																	Rayalaseema
33·9	18·1	61·[illegible]	33·9	16·1	88·7	32·8	15·0	157·7	31·1	12·2	53·8	29·4	10·6	72·4	1945	1945	Arogyavaram.
1951	1958	1958	1952	1949	1956	1948	1947	1954	1947	1950	1960	1951	1960	1946			
40·0	19·4	176·0	39·4	19·4	173·5	38·9	16·7	270·4	36·1	13·9	104·7	35·6	11·7	85·1	1891	1881	Cuddapah.
1899	1921	1910	1907	1920	1906	1922	1943	1958	1927	1939	1943	1930	1945	1883			
36·7	21·2	77·5	36·1	19·4	108·0	35·0	15·6	78·5	35·0	12·8	99·3	32·2	12·2	22·6	1946	1946	Anantpur.
1949	1957	1949	1957	1954	1959	1950	1950	1946	1959	1950	1948	1959	1951	1952			
37·8	20·6	121·9	37·8	19·4	200·1	38·3	13·9	146·3	36·1	10·0	80·5	34·4	6·7	71·1	1891	1886	Kurnool.
1899	1929	1955	1899	1892	1888	1898	1950	1916	1896	1950	1903	1929	1902	1906			
																	Madras State
38·9	22·4	57·0	40·0	22·8	40·6	38·3	21·6	71·8	36·4	21·1	95·7	35·6	20·0	88·9	1950	1945	Palayamcottai.
1953	1959	1958	1952	1954	1946	1955	1959	1959	1959	1955	1960	1952	1956	1946			
37·8	21·2	14·7	37·9	23·9	12·2	37·6	21·7	167·4	34·4	19·7	134·6	31·7	19·4	188·2	1954	1954	Tuticorin.
1957	1959	1956	1958	1955	1955	1959	1957	1957	1955	1959	1956	1955	1955	1955			
34·4	22·2	73·9	35·0	20·6	108·5	35·0	21·1	133·6	33·3	21·6	137·7	33·9	18·9	218·7	1891	1891	Pamban.
1945	1954	1937	1940	1930	1901	1940	1891	1932	1944	1957	1896	1906	1953	1955			
36.5	25·0	0	38·2	22·6	31·0	37·0	23·1	38·4	31.9	21.5	59·8	31·9	20·7	15·0			
1960	1966	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960			Tondi
40.0	20·6	112·3	39·4	20·0	154·2	38·3	18·9	128.8	36·1	17·2	169·7	35.0	16·7	165·6	1881	1881	Mathurai.
1891	1912	1910	1928	1908	1946	1934	1911	1909	1948	1909	1921	1951	1920	1955	..	..	
38·7	22·7	44·6	37·2	22·5	51·6	37·3	21.0	50·4	32·0	21·3	76·3	31·8	18·3	18·4	1959	1959	Mathurai (Aerodrome).
1959	1959	1960	1959	1960	1959	1959	1960	1959	1960	1959	1959	1960	1959	1960			
40·6	20·6	125·7	37·8	20·6	78·7	37·2	20·6	396·2	35·0	16·7	365·5	33·9	16·7	366·8	1881	1881	Nagapattinam.
1898	1913	1900	1907	1897	1921	1908	1891	1930	1948	1951	1918	1909	1886	1931			
40·6	20·6	110·0	40·6	20·6	84·3	38·9	18·9	319·0	36·7	16·7	298·2	35·6	14·4	135·6	1881	1881	Tiruchirapalli.
1888	1935	1944	1929	1908	1897	1906	1891	1930	1923	1884	1939	1926	1883	1931			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. =Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Madras State — (*contd.*)																					
Coimbatore . .	35·0	11·7	141·5	36·7	12·8	64·8	39·3	15·6	83·8	40·0	17·8	54·9	39·4	18·3	85·6	38·3	18·3	132·6	35·6	16·7	103·6
	1887	1912	1900	1899	1910	1922	1959	1930	1915	1906	1899	1954	1952	1893	1930	1895	1893	1941	1898	1911	1924
Coimbatore (Peelamedu Aerodrome)	35·9	12·2	14·2	37·3	13·0	49·0	38·7	15·6	17·0	39·1	18·3	111·0	39·4	15·6	69·3	35·7	18·3	23·7	33·5	16·1	39·1
	1957	1949	1954	1959	1960	1950	1959	1949	1951	1959	1949	1958	1952	1949	1957	1959	1949	1959	1958	1949	1949
Salem .	37·2	12·8	65·8	39·4	11·1	65·8	41·7	14·4	80·8	42·8	18.3	95·5	42·8	18·3	103·6	41·7	20·0	115·6	40·6	18·9	125·5
	1925	1907	1943	1926	1907	1893	1892	1934	1884	1908	1887	1929	1931	1893	1930	1912	1885	1902	1923	1887	1952
Kallakurichi .	34·3	15·0	29·7	37·7	15·6	52·8	41·7	17·2	51·3	41·7	20·3	38·4	42·8	20·6	165·9	41·4	21·7	66·3	40·0	21·7	108·7
	1959	1950	1956	1959	1950	1950	1953	1951	1950	1956	1959	1959	1956	1955	1957	1958	1956	1956	1952	1951	1955
Cuddalore . .	31·7	13·3	130·3	36·1	14·4	119·4	38·9	16·1	183·1	42·2	19·4	120·4	43·3	21·1	572·0	42·8	21·1	82·5	40·6	18·9	100·8
	1951	1894	1920	1898	1918	1930	1953	1898	1933	1908	1939	1939	1953	1950	1943	1905	1898	1921	1895	1911	1949
Tirupattur	33·3	13·1	0	37·2	11·5	20·3	38·8	14·5	47·0	40·2	20·0	10·0	40·5	21·1	16·7	39·1	21·7	26·0	36·9	20·5	89·0
	1959	1960	..	1959	1960	1960	1959	1960	1960	1960	1959	1960	1959	1959	1960	1959	1959	1959	1960	1959	1960
Vellore . .	33·9	11·7	69·1	37·8	12·8	67·3	40·6	14·4	49·8	43·9	17·8	83·1	44·4	19·4	214·4	42·8	20·6	94·2	40·6	20·6	125·2
	1936	1946	1922	1945	1922	1906	1953	1934	1915	1908	1950	1951	1906	1902	1943	1935	1922	1938	1902	1910	1910
Tambaram (Aerodrome)	..	18·8	23·3	..	16·6	2·8	..	20·0	0	..	23·2	7·2	..	23·8	22·1	..	21·9	37·6	..	22·9	20·8
	..	1959	1960	..	1960	1959	..	1959	..	..	1959	1959	..	1959	1959	..	1960	1960	..	1959	1959
Madras . .	32·8	13·9	212·9	36·7	15·0	123·2	40·6	16·7	64·5	42·8	20·0	96·3	45·0	21·1	214·9	43·3	20·6	59·2	41·1	21·5	116·3
	1894	1905	1915	1927	1934	1929	1953	1908	1925	1908	1939	1945	1910	1886	1943	1948	1909	1931	1915	1959	1910
Madras (Nungambakkam).	30·8	16·1	62·7	35·0	16·2	27·9	40·0	18·3	2·8	41·1	21·1	100·3	42·2	21·1	244·3	42·2	22·7	30·7	39·4	22·2	68·3
	1958	1950	1955	1950	1960	1955	1953	1954	1950	1956	1950	1951	1953	1952	1952	1953	1957	1956	1951	1954	1954
Coastal Mysore																					
Karwar . .	36·1	14·1	0·8	36·6	15·4	0	36·1	17·7	16·8	38·9	21·0	28·7	34·4	22·4	173·7	34·0	20·6	214·1	31·4	21·1	216·4
	1954	1957	1958	1957	1960	..	1954	1957	1954	1956	1957	1954	1958	1958	1955	1960	1958	1960	1960	1953	1959
Honawar . .	36·1	15·6	18·5	37·2	14·2	1·5	37·8	18·8	19·8	35·0	20·6	62·0	35·0	21·1	238·5	33·9	21·1	292·6	32·2	21·1	270·0
	1946	1946	1943	1943	1960	1947	1948	1958	1954	1956	1951	1956	1941	1950	1955	1948	1954	1946	1949	1956	1959
Mangalore . .	36·1	16·7	40·6	37·8	16·7	36·1	37·3	18·3	82·8	35·6	20·0	117·1	36·7	18·9	360·9	34·4	20·0	252·0	35·6	20·6	268·2
	1957	1911	1943	1920	1911	1917	1958	1911	1946	1921	1954	1939	1921	1911	1909	1923	1920	1897	1959	1931	1900
Mangalore (Bajpe Aerodrome).	36·6	17·3	0	36·4	17·9	0	37·7	20·1	0	35·0	21·8	43·2	36·1	20·6	132·2	33·9	20·8	251·2	30·5	21·2	231·2
	1957	1958	..	1959	1960	..	1958	1957	..	1958	1959	1959	1960	1959	1960	1958	1958	1959	1960	1959	1959
Mysore (North)																					
Bidar . . .	33·9	3·9	51·3	37·2	9·4	29·2	41·7	12·8	36·3	42·2	12·2	110·5	43·3	6·7	86·9	42·8	10·0	184·9	36·1	11·1	245·9
	1925	1901	1906	1926	1950	1928	1910	1925	1938	1946	1918	1907	1931	1918	1943	1953	1918	1943	1924	1900	1955
Gulbarga . .	36·1	6·7	42·4	38·3	11·1	57·1	42·8	12·8	76·0	43·9	13·3	79·3	45·0	18·3	124·7	45·0	12·8	144·8	37·2	17·2	108·5
	1897	1937	1922	1903	1911	1929	1892	1910	1960	1923	1902	1907	1912	1892	1952	1923	1910	1928	1920	1920	1897
Bijapur . .	39·4	7·2	89·1	41·1	8·9	23·6	41·1	13·3	39·9	42·2	16·1	66·0	42·8	17·8	90·2	42·2	17·2	51·1	36·7	16·1	102·1
	1948	1945	1922	1943	1930	1928	1910	1910	1938	1931	1905	1933	1951	1940	1956	1923	1903	1957	1901	1902	1953
Belgaum (C.T.O.)	32·6	9·9	0	36·1	10·8	40·9	38·2	10·4	38·2	39·4	12·8	69·1	38·6	17·7	129·5	33·0	17·7	132·3	27·2	17·8	162·6
	1959	1957	..	1959	1959	1956	1959	1957	1960	1956	1955	1956	1959	1960	1955	1959	1958	1955	1955	1955	1958
Belgaum (Sambre Aerodrome)	32·8	10·6	0	36·0	10·6	15·5	38·3	9·4	32·8	40·0	14·4	32·5	39·4	17·2	63·7	38·3	18·3	94·2	31·9	18·3	112·0
	1956	1956	..	1957	1954	1956	1953	1957	1960	1956	1955	1960	1953	1955	1955	1953	1956	1955	1960	1956	1958
Gadag . . .	34·5	11·1	21·1	37·2	11·1	16·8	40·0	15·0	61·7	41·1	17·2	53·3	41·7	18·9	81·8	40·6	19·4	68·8	34·9	18·9	54·4
	1960	1951	1935	1959	1950	1937	1953	1940	1948	1941	1935	1957	1939	1952	1943	1953	1956	1944	1960	1934	1932

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Madras State—(*contd.*)
35·6	17·2	59·4	35·8	17·8	75·7	36·1	15·0	107·4	34·4	13·9	104·7	35·0	12·2	109·7	1881	1881	Coimbatore.
1889	1921	1916	1959	1954	1912	1918	1911	1891	1892	1901	1957	1899	1883	1930			
33·3	16·1	52·1	35·6	16·7	116·8	35·0	16·1	65·2	32·8	14·4	85·5	32·2	12·8	37·6	1948	1948	Coimbatore (Peelamedu Aerodrome).
1958	1949	1950	1955	1948	1950	1949	1948	1960	1952	1954	1960	1950	1951	1954			
38·9	19·4	176·3	38·9	18·9	250·2	37·8	15·6	165·6	35·6	12·8	121·9	35·6	12·8	131·3	1881	1881	Salem.
1885	1909	1939	1891	1887	1885	1918	1911	1916	1948	1901	1882	1926	1945	1884			
38·4	21·1	73·9	38·4	20·0	83·6	37·2	18·9	113·0	36·7	16·1	260·9	33·3	16·1	83·3	1948	1948	Kallakurich.
1959	1956	1951	1957	1956	1956	1951	1950	1956	1948	1954	1959	1950	1954	1952			
39·4	20·6	134·6	38·3	20·0	135·6	38·9	18·9	208·3	35·0	16·7	309·9	35·0	11·1	426·5	1891	1891	Cuddalore.
1923	1899	1892	1891	1899	1911	1899	1899	1895	1915	1901	1913	1895	1933	1931			
37·6	21·0	38·2	36·6	20·1	120·0	35·4	18·5	56·2	31·1	14·3	76·0	31·8	13·2	5·4	1959	1959	Tirupattur.
1960	1959	1959	1959	1960	1960	1960	1960	1959	1959	1960	1959	1960	1960	1959			
39·4	21·1	106·2	38·3	20·0	122·9	37·8	15·6	170·9	35·0	13·9	299·0	33·9	12·2	152·9	1901	1901	Vellore.
1901	1952	1909	1908	1936	1921	1954	1911	1943	1952	1921	1930	1909	1950	1901			
..	22·3	46·7	36·8	21·9	79·0	36·5	21·1	112·6	33·0	19·4	170·7	32·2	19·2	72·4	1959	1959	Tambaram (Aerodrome).
..	1960	1959	1960	1960	1960	1960	1959	1959	1960	1960	1959	1960	1959	1960			
40·0	20·6	91·7	38·9	20·6	100·3	38·9	16·7	233·7	34·4	15·0	236·2	32·8	13·9	261·6	1881	1881	Madras.
1918	1935	1950	1883	1884	1881	1920	1889	1883	1952	1901	1922	1909	1895	1901			
38·9	21·7	92·2	37·8	22·2	104·9	36·7	20·6	126·3	35·0	16·7	209·6	31·7	16·1	113·8	1949	1949	Madras (Nungambakkam).
1953	1957	1955	1952	1956	1956	1951	1952	1958	1951	1954	1960	1951	1949	1952			
																	Coastal Mysore
29·8	21·7	136·7	30·6	21·1	128·4	35·9	18·3	175·3	35·0	15·6	71·6	36·0	14·4	15·0	1952	1952	Karwar.
1959	1955	1955	1955	1954	1960	1960	1952	1954	1953	1952	1955	1960	1956	1959			
31·8	19·4	152·9	32·2	20·6	127·5	37·2	18·3	132·1	36·7	15·6	65·8	37·2	16·1	25·1	1939	1939	Honavar.
1957	1955	1940	1951	1950	1954	1950	1950	1914	1941	1950	1957	1949	1945	1947			
32·2	20·6	232·4	31·7	21·1	184·7	34·4	20·0	181·6	35·6	18·3	112·1	35·0	16·7	153·2	1911	1881	Mangalore.
1932	1911	1931	1955	1950	1900	1941	1933	1913	1941	1950	1958	1953	1950	1933			
30·0	20·9	136·2	30·5	21·2	95·9	34·0	20·9	70·4	34·3	19·0	72·2	34·6	16·3	68·4	1957	1957	Mangalore. (Bajpe Aerodrome).
1960	1957	1959	1959	1958	1959	1960	1960	1958	1959	1957	1960	1957	1960	1959			
																	Mysore (North)
36·1	9·4	144·3	36·7	8·9	203·2	36·7	8·3	128·3	36·1	6·1	138·4	32·8	2·8	81·8	1896	1896	Bidar.
1924	1900	1947	1924	1918	1949	1901	1900	1903	1918	1900	1896	1923	1918	1906			
37·8	18·3	100·3	37·2	17·8	147·3	37·8	10·0	147·3	35·6	7·8	64·3	34·4	5·6	66·5	1891	1891	Gulbarga
1899	1920	1910	1926	1954	1928	1899	1905	1893	1940	1945	1943	1920	1945	1906			
35·6	16·7	121·2	36·7	16·1	143·8	37·2	12·2	102·4	35·0	8·3	113·0	33·3	6·7	34·5	1896	1896	Bijapur.
1902	1906	1954	1896	1901	1949	1896	1897	1958	1896	1904	1922	1936	1897	1942			
29·9	17·8	110·0	31·7	16·3	74·8	33·6	15·3	82·5	33·0	9·4	44·2	34·6	8·9	0	1955	1955	Belgaum (C.T.O.).
1958	1956	1956	1959	1957	1959	1960	1958	1955	1958	1955	1957	1960	1956	..			
28·9	15·6	86·4	30·6	16·0	59·8	32·0	13·9	91·4	30·6	10·6	59·6	31·9	7·8	2·0	1952	1952	Belgaum (Sambre Aerodrome).
1954	1956	1956	1955	1957	1959	1960	1954	1957	1960	1955	1958	1960	1954	1958			
34·4	18·7	80·0	37·8	17·2	136·4	34·7	15·6	171·5	37·2	12·2	82·0	34·1	11·7	56·4	1931	1931	Gadag.
1948	1957	1957	1951	1952	1960	1959	1950	1947	1947	1939	1956	1959	1948	1933			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. =Information not available.

9—7 D. D. G. Obs. Poona/65

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) A

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Mysore (North)— *(contd.)*																					
Raichur	35·6	10·0	49·8	38·3	12·8	49·3	42·8	16·7	23·9	43·3	16·1	95·8	45·6	18·3	87·9	43·3	16·1	118·1	38·3	17·8	137·2
	1897	1899	1926	1897	1929	1923	1892	1936	1955	1927	1936	1901	1928	1927	1952	1898	1896	1901	1915	1899	195[illegible]
Mysore (South)																					
Bellary	36·7	10·6	46·2	39·4	12·2	59·9	42·8	14·4	26·7	43·9	16·1	77·0	43·9	18·3	162·3	42·2	18·9	85·3	38·3	19·4	102·[illegible]
	1897	1891	1884	1897	1891	1917	1892	1885	1930	1909	1905	1956	1897	1890	1940	1915	1956	1915	1915	1930	1953
Chitaldrug	33·9	11·1	104·1	36·1	13·3	88·9	38·9	16·1	17·8	39·4	17·2	105·7	41·7	16·7	181·6	37·8	17·2	118·4	34·[illegible]	19·9	114·[illegible]
	1900	1918	1918	1931	1947	1944	1925	1955	1915	1941	1904	1956	1931	1951	1955	1935	1906	1897	1932	1957	1910
Shimoga	33·3	9·5	1·0	37·2	10·4	2·3	38·9	11·7	29·2	38·4	16·4	114·5	39·2	18·3	89·4	36·1	18·3	114·4	32·4	19·4	111·0
	1952	1957	1953	1953	1960	1956	1953	1951	1955	1959	1960	1956	1959	1954	1957	1953	1956	1959	1960	1956	195[illegible]
Balehonnur	32·8	10·0	8·4	32·8	11·1	32·3	35·0	12·2	58·7	35·0	13·9	102·6	35·6	15·6	218·4	32·8	15·6	172·7	28·9	13·9	219·2
	1953	1946	1947	1951	1940	1952	1949	1940	1936	1950	1952	1956	1959	1952	1955	1953	1943	1941	1945	1955	1953
Hassan	32·2	7·8	59·7	35·0	8·3	50·3	36·7	9·4	57·9	37·2	14·4	72·9	37·8	14·4	143·8	34·4	16·1	94·5	31·1	15·0	82·5
	1955	1899	1921	1906	1898	1941	1934	1898	1954	1942	1905	1899	1906	1923	1903	1953	1936	1941	1905	1918	1929
Mysore	32·8	11·1	26·4	36·1	12·2	59·4	37·8	13·3	47·5	38·3	16·1	133·3	37·8	15·6	184·4	37·2	15·0	68·6	33·3	17·2	71·6
	1936	1953	1926	1931	1946	1917	1931	1933	1923	1931	1918	1921	1936	1904	1957	1926	1936	1915	1899	1956	1918
Bangalore (Central Observatory).	32·2	7·8	65·8	34·4	9·4	67·3	37·2	11·1	50·8	38·3	14·4	90·7	38·9	16·7	153·9	37·8	16·7	101·6	33·3	16·1	105·4
	1925	1884	1908	1926	1884	1901	1925	1884	1911	1931	1894	1939	1931	1945	1909	1926	1890	1891	1914	1882	1949
Bangalore (Aerodrome).	31·2	11·7	13·0	34·4	12·2	28·5	36·6	11·7	18·5	38·3	17·2	58·9	37·1	16·7	68·6	35·6	16·7	70·6	32·3	16·1	66·3
	1959	1956	1958	1959	1950	1950	1959	1950	1954	1960	1950	1953	1960	1949	1952	1953	1950	1949	1960	1953	1952
Kerala																					
Kozhikode	35·6	17·2	104·4	35·6	16·1	150·1	35·0	19·4	83·3	35·6	21·1	143·3	37·2	20·0	268·5	33·9	20·6	250·2	32·2	21·1	264·2
	1952	1913	1909	1952	1925	1945	1954	1896	1936	1952	1938	1899	1920	1937	1932	1948	1956	1941	1931	1956	1922
Palghat	36·4	15·6	31·5	38·9	18·8	29·7	41·4	20·4	78·7	41·7	20·4	90·4	40·8	20·6	236·2	35·6	20·6	99·1	32·6	20·6	107·7
	1958	1946	1948	1959	1960	1952	1959	1959	1948	1950	1959	1954	1959	1955	1957	1948	1956	1955	1960	1956	1949
Fort Cochin	33·3	17·8	133·3	34·0	19·4	105·4	33·9	21·1	125·8	34·1	21·7	160·5	34·6	21·1	253·2	32·7	20·6	185·4	31·7	21·1	213·9
	1955	1929	1921	1960	1932	1899	1949	1954	1960	1959	1943	1956	1959	1939	1933	1958	1935	1900	1953	1943	1910
Cochin (Air Naval Station).	34·3	19·1	28·8	33·4	21·1	73·7	34·7	21·6	19·1	34·2	21·7	177·0	34·6	22·2	140·7	32·8	21·7	170·5	31·4	20·6	110·7
	1959	1957	1957	1959	1956	1956	1959	1959	1958	1959	1956	1956	1959	1958	1957	1958	1956	1958	1958	1956	1957
Alleppey	35·0	18·3	38·1	35·8	19·9	65·2	36·7	21·1	69·9	35·0	21·1	274·3	35·6	20·6	146·8	34·4	21·1	227·3	31·7	20·6	150·6
	1959	1957	1951	1960	1960	1959	1949	1955	1947	1946	1948	[illegible]	1959	1955	1960	1948	1956	1948	1953	1950	1949
Punalur	36·6	15·7	44·5	37·8	15·8	20·0	39·3	17·9	39·9	37·9	20·2	61·2	37·1	21·3	92·0	33·8	21·3	140·2	32·9	21·0	88·6
	1959	1957	1958	1959	1959	1959	1959	1957	1958	1959	1957	1959	1957	1959	1960	1958	1958	1959	1958	1957	1957
Trivandrum	35·5	18·9	52·1	35·0	18·9	88·1	36·2	20·6	78·7	35·3	21·7	129·8	35·2	21·2	277·9	34·4	20·0	154·7	31·7	21·1	151·6
	1959	1950	1918	1955	1946	1927	1959	1956	1954	1960	1956	1937	1957	1960	1926	1953	1956	1944	1956	1959	1910
Trivandrum (Aerodrome).	33·9	18·3	44·8	33·4	18·3	83·2	35·0	20·0	43·2	34·4	21·1	82·3	34·5	22·2	100·8	32·9	21·1	102·8	32·2	20·2	135·2
	1953	1956	1960	1959	1956	1959	1956	1959	1958	1956	1956	1956	1959	1956	1960	1959	1956	1960	1956	1959	1959
Arabian Sea Islands																					
Minicoy.	32·8	17·8	126·2	32·2	17·2	57·1	32·8	19·4	54·6	35·6	21·7	121·2	36·7	21·7	238·5	33·9	22·2	148·6	31·7	21·1	154·9
	1948	1953	1926	1948	1946	1944	1941	1955	1936	1942	1959	1950	1932	1956	1949	1935	1945	1926	1953	1938	1929
Amini Divi	36·7	18·9	74·2	35·7	19·4	18·0	37·2	20·6	32·0	37·7	20·0	121·9	37·5	21·7	161·0	35·9	21·1	211·1	33·3	21·7	180·3
	1950	1912	1918	1959	1923	1902	1950	1950	1923	1960	1923	1901	1959	1941	1933	1958	1930	1909	1945	1910	1907
Hill Stations excluding Kashmir																					
Walong	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

X=Highest Ma im m Temperature.

N=Lowest Minimum Temperature

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Mysore (North) (*contd.*)
37·8	17·2	107·7	38·3	19·4	130·8	37·2	15·6	158·7	35·0	11·7	87·6	36·1	10·0	52·1	1891	1896	Raichur.
1915	1908	1914	1897	1948	1949	1920	1943	1916	1920	1924	1919	1899	1945	1903			
																	Mysore (Sotch)
37·8	19·4	105·7	37·8	19·4	127·5	38·9	15·0	111·3	37·6	11·7	162·1	35·6	10·6	33·5	1881	1881	Bellary.
1883	1933	1950	1913	1919	1956	1896	1889	1904	1957	1910	1903	1913	1926	1925			
32·8	18·4	109·2	35·0	15·0	95·5	33·9	15·6	132·1	32·8	8·3	87·4	32·8	8·3	109·2	1896	1896	Chitaldrug.
1932	1957	1939	1905	1910	1933	1905	1943	1930	1931	1945	1925	1930	1945	1933			
30·4	16·1	49·8	33·3	16·1	45·7	32·4	11·7	105·6	33·3	8·3	55·1	32·2	8·9	43·4	1950	1950	Shimoga.
1958	1954	1953	1951	1952	1950	1960	1952	1960	1953	1950	1956	1958	1951	1952			
29·4	16·1	179·8	30·6	13·3	83·3	29·4	12·8	111·8	29·4	10·0	55·9	30·0	8·3	56·9	1931	1931	Balchonnur.
1947	1951	1949	1936	1935	1955	1959	1952	1960	1951	1934	1932	1945	1937	1937			
31·1	15·6	79·8	32·2	13·9	104·0	32·2	11·7	163·2	31·1	8·3	115·8	31·1	6·7	80·8	1896	1896	Hassan.
1932	1925	1897	1905	1906	1959	1905	1960	1958	1927	1904	1925	1926	1907	1906			
33·9	16·7	95·3	33·3	15·0	129·3	32·8	13·9	111·5	32·2	11·1	105·2	31·7	10·6	78·5	1896	1896	Mysore.
1899	1928	1910	1936	1906	1940	1905	1917	1902	1918	1901	1915	1923	1945	1952			
33·3	14·4	162·1	33·3	15·0	124·7	32·2	13·3	116·8	31·1	10·6	114·5	31·1	8·9	67·3	1881	1881	Bangalore (Central Observatory).
1899	1882	1890	1951	1883	1912	1934	1889	1935	1923	1889	1916	1926	1883	1941			
31·1	15·0	79·6	32·8	15·6	95·8	32·1	14·4	169·2	31·7	11·7	83·6	30·1	10·4	20·8	1948	1948	Bangalore (Aerodrome).
1958	1948	1960	1951	1954	1958	1958	1950	1953	1953	1950	1950	1957	1960	1952			
																	Kerala
32·2	20·6	204·5	33·9	21·1	179·1	34·4	20·0	189·2	34·4	16·1	192·3	34·8	16·1	115·1	1891	1881	Kozhikode.
1953	1950	1924	1952	1954	1955	1897	1917	1940	1929	1901	1925	1957	1895	1942			
31·7	20·6	109·5	35·6	20·6	86·9	35·0	20·6	95·4	35·6	17·2	65·8	34·5	16·7	89·7	1943	1943	Palghat.
1947	1946	1956	1955	1954	1944	1945	1954	1959	1952	1954	1948	1958	1945	1946			
32·2	21·1	155·7	31·1	21·1	111·8	32·2	21·1	236·2	32·8	19·4	121·4	32·9	19·4	154·7	1926	1881	Fort Cochin.
1929	1946	1947	1955	1950	1936	1930	1943	1934	1953	1944	1920	1957	1945	1946			
30·6	21·6	95·5	30·8	21·7	59·2	34·1	22·2	138·2	32·8	21·2	69·9	34·2	18·8	50·6	1956	1956	Cochin (Naval Air Station).
1959	1958	1958	1959	1956	1958	1957	1956	1957	1957	1959	1957	1957	1959	1959			
31·7	21·1	139·2	32·2	21·7	134·1	32·8	21·1	163·1	34·4	20·6	132·3	35·0	17·8	82·5	1944	1944	Alleppey.
1949	1948	1947	1951	1950	1955	1946	1950	1945	1949	1954	1945	1951	1944	1947			
32·7	21·2	84·0	34·3	19·4	69·6	34·9	18·3	164·6	34·0	17·4	129·2	34·4	16·6	49·1	1957	1957	Punalur.
1959	1959	1960	1957	1957	1959	1959	1960	1960	1957	1957	1960	1958	1960	1957			
32·8	20·6	102·4	33·3	21·1	125·5	33·3	21·1	215·9	33·9	18·9	162·8	34·4	18·9	148·8	1931	1889	Trivandrum.
1953	1946	1932	1946	1950	1907	1940	1950	1908	1954	1944	1948	1955	1945	1919			
32·4	21·1	55·6	32·8	21·7	116·8	31·7	21·7	82·8	32·6	20·6	114·8	32·8	18·3	41·7	1954	1954	Trivandrum. (Aerodrome).
1960	1955	1958	1955	1956	1955	1957	1955	1955	1959	1954	1955	1957	1955	1955			
																	Arabian Sea Islan ls
31·7	21·1	200·7	32·2	21·7	107·7	33·3	19·4	128·3	32·2	17·2	132·1	32·2	18·3	187·5	1896	1896	Minicoy.
1934	1934	1930	1937	1954	1916	1931	1945	1910	1947	1942	1907	1957	1955	1893			
33·3	22·2	241·8	33·9	21·7	217·7	35·9	20·6	133·6	35·0	18·3	88·9	35·1	18·9	119·4	1896	1896	Amini Divi.
960	1925	1909	1940	1950	1915	1958	1928	1928	1949	1910	1932	1960	1908	1925			
																	Hill Stations excluding Kashmir
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Walong.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Hill Stations excluding Kashmir—(contd.)																					
Kohima	19·6	5·0	41·6	22·2	3·8	14·7	29·1	7·1	36·1	32·2	9·4	33·6	33·9	12·8	74·9	29·5	15·0	105·9	28·9	15·6	74·9
	1959	1956	1957	1954	1959	1954	1959	1957	1953	1956	1957	1955	1959	1952	1956	1959	1953	1957	1952	1956	1954
Aijal	25·0	3·9	42·4	27·8	3·9	37·6	31·6	5·6	102·9	33·3	10·6	76·2	33·1	12·8	131·8	31·1	9·4	85·1	30·6	14·4	148·6
	1954	1945	1945	1960	1950	1959	1960	1947	1959	1938	1953	1951	1960	1960	1958	1938	1944	1944	1945	1941	1946
Shillong	21·1	—2·8	52·3	24·4	—2·8	41·1	28·9	—0·6	189·5	30·0	6·7	117·9	30·7	5·6	169·7	29·1	11·7	415·3	28·3	15·0	205·7
	1944	1937	1957	1952	1950	1914	1924	1906	1929	1954	1946	1932	1960	1941	1914	1958	1930	1934	1932	1956	1952
Cherrapunji	26·7	1·1	85·3	28·9	0·6	91·9	30·6	0·6	306·1	28·3	3·9	462·3	28·9	3·3	812·0	27·8	11·7	973·8	28·3	11·7	838·2
	1913	1959	1929	1913	1950	1907	1913	1912	1910	1938	1911	1922	1958	1917	1916	1942	1910	1956	1937	1910	1910
Darjiling (Raj Bhawan).	18·9	—3·9	134·6	17·2	—5·0	42·9	23·3	—0·6	72·9	26·7	1·1	135·1	23·9	5·6	232·9	26·7	8·3	454·1	25·0	3·9	200·9
	1952	1953	1957	1955	1905	1940	1935	1908	1951	1910	1933	1916	1916	1939	1887	1902	1938	1950	1919	1944	1959
Kalimpong	26·1	0·6	40·6	26·1	3·3	45·0	27·8	4·6	50·8	30·6	8·3	69·6	30·9	10·0	122·4	31·1	14·4	302·0	29·7	14·5	195·8
	1956	1945	1957	1956	1945	1940	1923	1957	1949	1939	1944	1948	1960	1955	1938	1960	1956	1950	1960	1960	1939
Kathmandu	25·0	—2·8	36·6	28·3	—1·1	27·4	33·3	1·1	47·2	37·2	4·4	43·4	37·5	9·4	55·6	37·8	13·2	108·5	32·8	16·1	167·4
	1946	1955	1942	1922	1931	1944	1938	1948	1943	1954	1945	1949	1957	1934	1956	1958	1958	1950	1937	1928	1954
Mukteswar (Kumaon)	19·4	—6·1	81·3	23·9	—7·8	76·5	25·0	—3·3	67·8	27·8	—1·7	49·0	29·4	3·3	71·4	30·0	6·7	220·7	30·6	9·4	159·5
	1910	1953	1945	1953	1905	1905	1908	1907	1914	1956	1937	1919	1956	1920	1916	1901	1903	1921	1901	1930	1907
Nainital	18·4	—5·6	77·5	21·7	—2·2	69·1	21·7	—1·7	60·2	26·4	3·9	35·6	27·8	10·0	208·3	28·3	11·1	141·2	26·1	14·4	23·5
	1958	1953	1953	1953	1957	1954	1958	1960	1954	1960	1957	1953	1956	1958	1956	1953	1957	1956	1954	1955	1957
Joshimath	16·4	—4·4	39·4	20·4	1·9	54·8	24·9	—3·5	42·4	27·7	3·7	37·5	31·1	11·1	5·6	32·5	12·1	55·8	28·8	15·3	61·5
	1959	1960	1960	1960	1960	1959	1959	1960	1960	1959	1959	1960	1960	1959	1960	1960	1960	1960	1959	1959	1960
Badrinath	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22·0	6·1	8·2	20·0	10·0	121·4
																1960	1960	1958	1958	1958	1958
Lokpal	14·0	—16·1	77·5	0	—13·9	75·0	—3·3	—10·6	50·0	2·1	—11·1	34·3	10·0	—7·8	38·6	11·7	—3·3	37·0	11·7	1·7	77·4
	1957	1955	1955	1956	1957	1959	1957	1957	1960	1959	1957	1957	1956	1955	1957	1960	1955	1960	1960	1956	1958
Mussooree	21·1	—5·0	90·9	23·3	—6·7	82·0	26·1	—2·5	62·0	28·9	—0·6	43·2	34·4	5·6	50·0	31·7	5·3	139·9	29·4	12·2	196·9
	1949	1935	1943	1953	1950	1949	1945	1960	1944	1956	1944	1942	1949	1947	1943	1935	1957	1936	1949	1939	1942
Simla	18·9	—10·6	78·7	20·6	—8·3	63·5	23·9	—5·6	63·0	28·3	—1·4	39·6	30·0	4·4	97·8	30·6	7·8	122·2	27·8	10·0	167·1
	1949	1945	1888	1959	1950	1908	1945	1933	1901	1941	1960	1890	1944	1924	1883	1932	1922	1906	1954	1932	1922
Dharampore	..	..	81·3	..	..	81·3	..	..	104·1	..	..	78·7	..	..	56·9	..	..	91·4	..	..	147·3
	..	..	1957	..	..	1954	..	..	1955	..	..	1957	..	..	1957	..	..	1953	..	..	1952
Dalhousie	21·7	—5·0	134·6	29·4	—2·8	134·6	30·7	—0·6	149·6	29·8	1·1	112·3	33·3	6·7	53·9	35·5	8·9	99·5	32·8	8·4	232·6
	1952	1953	1950	1953	1957	1949	1959	1958	1959	1959	1955	1951	1952	1959	1955	1960	1952	1960	1933	1959	1957
Dharamshala	21·1	—0·5	76·4	25·0	0	65·0	28·3	3·4	72·4	33·8	7·3	52·8	36·7	11·1	74·8	38·3	14·5	88·2	35·3	16·7	262·8
	1952	1960	1939	1953	1951	1954	1959	1960	1956	1958	1960	1957	1952	1951	1956	1958	1957	1959	1957	1955	1959
Abu	26·1	—1·1	37·9	28·9	0	40·6	33·3	3·9	27·2	36·9	10·0	27·4	38·3	11·1	92·7	38·3	13·9	343·1	32·8	16·1	460·5
	1932	1929	1888	1960	1950	1906	1892	1945	1927	1958	1926	1959	1881	1892	1917	1897	1940	1945	1939	1910	1943
Pachmarhi	27·8	—1·1	94·2	31·7	—0·6	52·1	36·1	3·3	55·1	40·0	8·9	38·6	40·6	15·0	35·3	40·6	15·6	201·9	37·4	16·1	338·3
	1946	1935	1957	1953	1929	1928	1892	1906	1936	1942	1905	1935	1954	1933	1933	1889	1931	1916	1960	1941	1882
Mahabaleshwar	28·9	6·1	22·1	31·1	9·9	29·0	33·9	9·4	33.0	36·1	11·1	95·0	34·4	13·9	57·9	32·2	12·8	310·4	23.9	13·8	381·2
	1938	1945	1943	1953	1942	1938	1953	1940	1955	1934	1955	1937	1949	1955	1956	1953	1943	1936	1951	1957	1956

*Observatory closed from July, 1958. X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1950 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Hill Stations excluding Kashmir (*contd.*)
30·6	17·1	102·1	27·8	15·9	95·3	27·2	12·1	83·8	24·5	8·3	68·8	19·5	6·1	5·1	1952	1952	Kohima.
1957	1959	1954	1959	1957	1953	1956	1957	1954	1957	1952	1955	1958	1954	1953			
29·4	12·8	137·4	29·4	15·6	136·1	29·3	8·9	236·0	28·3	7·8	86·0	26·7	5·6	57·9	1938	1938	Aijal.
1944	1946	1943	1949	1941	1938	1958	1947	1959	1943	1960	1960	1947	1947	1945			
29·2	14·4	118.1	27·8	11·7	256·2	27·2	5·6	296·2	25·6	1·1	96·0	22·8	−1·7	41·1	1906	1906	Shillong.
1957	1932	1916	1946	1940	1960	1938	1921	1946	1943	1937	1950	1918	1929	1926			
29·2	12·8	532·7	28·9	12·8	632·2	29·4	10·0	590·5	26·7	6·7	332·2	23·5	3·9	189·7	1906	1906	Cherrapunji.
1957	1943	1932	1906	1925	1951	1938	1947	1919	1915	1946	1917	1951	1929	1926			
26·7	8·3	237·5	26·7	10·0	492·8	23·3	4·4	334·5	22·2	−0·6	219·7	20·0	−1·7	31·2	1891	1881	Darjiling (Raj Bhawan).
1957	1946	1915	1900	1940	1899	1944	1913	1929	1943	1951	1912	1947	1905	1885			
30·9	10·0	141·7	29·1	13·9	206·0	31·1	8·9	206·3	26·8	3·9	50·8	26·7	−0·6	29·0	1921	1926	Kalimpong.
1957	1955	1950	1957	1924	1929	1960	1944	1929	1960	1944	1948	1953	1922	1934			
33·3	16·1	101·6	33·3	13·3	71·4	33·3	5·6	47·5	29·4	0·6	28·5	28·3	−2·8	15·2	1914	1935	Kathmandu.
1939	1954	1945	1938	1940	1936	1938	1934	1937	1931	1938	1948	1917	1954	1937			
26·1	11·1	203·7	25·6	6·7	254·5	25·0	1·7	182·4	21·7	−1·1	45·2	21·7	−5·0	90·7	1901	1901	Mukteswar (Kumaon).
1928	1919	1948	1946	1940	1914	1909	1913	1910	1953	1918	1927	1944	1954	1957			
25·1	12·8	189·7	23·9	10·6	313·7	22·6	5·6	300·7	21·1	1·1	15·2	21·2	−1·1	153·7	1953	1953	Nainital.
1957	1956	1954	1959	1953	1957	1960	1960	1956	1953	1960	1957	1957	1955	1957			
28·0	15·0	50·4	26·9	13·7	43·0	25·6	6·0	32·6	19·5	1·2	22·5	20·0	−0·3	12.0	1953	1959	Joshimath.
1959	1959	1960	1960	1959	1959	1960	1960	1960	1960	1969	1959	1960	1959	1960			
21·7	−7·8	27·0	18·3	6·1	22·7	16·1	1·1	25·0	13·9	..	0	..	..	..	1958	1958	Badrinath.
1959	1958	1959	1958	1958	1958	1959	1959	1960	1958	..	..	..	..	..			
11·7	2·2	50·6	10·9	−2·2	55·4	8·9	−7·8	66·0	8·9	−12·2	58·9	2·2	−16·7	66·5	1951	1951	Lokpal.
1960	1956	1960	1959	1951	1951	1960	1954	1956	1952	1957	1954	1953	1952	1956			
25·6	12·2	302·3	27·2	6·1	199·6	25·6	3·3	198·1	25·0	−2·1	30·5	31·7	−3·9	111·0	1926	1926	Mussoorie.
1957	1937	1931	1946	1940	1947	1951	1945	1956	1952	1960	1928	1953	1954	1957			
27·8	10·6	227·1	25·0	5·0	135·9	23·9	2·8	113·0	21·1	−1.1	68·8	20·4	−6·1	76·5	1896	1881	Simla.
1951	1957	1901	1946	1940	1892	1938	1904	1884	1952	1911	1894	1960	1937	1923			
..	..	165·1	..	..	213·4	..	..	199·4	..	..	130·8	..	..	31·0	..	1947	Dharampore.
..	..	1954	..	..	1955	..	..	1956	..	..	1951	..	..	1958			
26·2	11·7	243·2	26·2	10·6	274·0	27·0	−2·2	287·0	25·7	0·1	97·8	23·9	−3·3	174·2	1947	1947	Dalhousie.
1957	1957	1959	1959	1953	1959	1960	1959	1955	1958	1960	1957	1952	1954	1960			
29·5	16·2	316·9	29·4	14·4	257·2	28·3	10·4	196·9	24·7	7·2	33·1	22·2	1·7	60·5	1951	1951	Dharamshala.
1957	1957	1958	1951	1953	1959	1953	1957	1955	1958	1951	1957	1953	1954	1958			
31·1	15·0	484·9	31·2	15·0	469·1	31·7	10·6	148·1	28·9	6·1	43·7	27·8	−0·6	25·4	1831	1881	Abu.
1883	1913	1941	1960	1909	1950	1941	1947	1917	1929	1938	1896	1941	1929	1898			
30·0	15·0	458·7	35·6	12·8	350·3	31·7	6·7	164·1	28·3	2·2	99·1	27·8	−1·1	63·0	1881	1881	Pachmarhi.
1899	1939	1913	1931	1940	1932	1920	1933	1955	1957	1912	1912	1941	1926	1885			
26·7	13·9	339·9	27·8	12·2	327·1	30·6	11·1	191·5	28·9	10·0	148·6	28·3	8·3	39·6	1931	1929	Mahabaleshwar.
1950	1957	1956	1951	1935	1930	1957	1931	1938	1950	1955	1948	1953	1940	1933			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Hill Stations excluding Kashmir —(*contd.*)																					
Nandi Hills . .	25·6	8·9	32·8	28·3	10·0	6·3	30·6	13·3	35·6	32·2	13·3	54·6	32·8	13·3	167·6	30·0	12·2	99·1	25·6	12·8	176·8
	1954	1946	1954	1959	1947	1952	1953	1955	1951	1956	1949	1955	1950	1955	1948	1953	1948	1956	1952	1952	1951
Mercara . .	31·7	9·4	30·0	31·7	8·9	31·7	33·3	10·6	55·4	33·9	10·6	87·6	35·0	9·4	174·0	30·0	10·0	206·3	28·9	11·2	364·5
	1954	1946	1906	1911	1936	1950	1921	1955	1928	1896	1955	1915	1902	1955	1909	1939	1955	1941	1955	1958	1924
Kodaikanal . .	24·4	2·8	194·8	24·4	4·4	158·7	26·7	4·4	106·7	26·1	8·2	123·7	27·8	7·8	131·1	23·9	5·0	60·5	22·2	8·9	79·3
	1916	1950	1943	1914	1955	1925	1926	1955	1947	1925	1958	1955	1923	1955	1955	1906	1912	1947	1918	1910	1924
Ootacamund . .	23·9	−1·7	114·8	26·7	0	51·6	25·6	3·9	96·2	27·2	5·0	84·1	26·7	4·4	184·4	25·0	5·0	133·1	21·1	6·7	102·4
	1959	1921	1909	1945	1953	1917	1949	1959	1958	1942	1959	1947	1941	1917	1955	1944	1958	1941	1949	1908	1902
Coonoor . .	25·6	1·7	196·6	26·7	2·8	207·5	26·7	5·0	157·5	27·8	8.9	179·4	29·4	11·0	193·0	27·8	9·4	97·3	25·0	11·1	46·0
	1942	1946	1943	1945	1939	1936	1943	1949	1951	1956	1944	1960	1931	1959	1957	1953	1936	1939	1952	1955	1960
Sikkim																					
Lachen . . .	18·9	−5·8	66·0	18·9	−5·6	30.5	18·9	−6·7	43·2	20·0	−5·6	30·5	20·0	0·6	33.0	20·6	5·6	45·7	21·7	6·1	82·0
	1958	1960	1957	1958	1958	1959	1960	1958	1956	1960	1958	1955	1960	1958	1956	1960	1958	1952	1959	1958	1959
Ceylon																					
Colombo . .	34·4	15·0	116·1	35·6	16·1	132·6	35·6	17·8	97·5	33·9	18·9	210·1	32·8	20·0	289.6	32·2	21·1	144·8	32·8	21·7	191·3
	1932	1950	1954	1950	1956	1915	1945	1934	1947	1950	1952	1949	1957	1960	1936	1953	1949	1953	1942	1950	1960
Trincomalee .	30·6	18·9	208·5	32·2	18·3	112·3	36·7	20·0	240·3	38·9	21·1	141·0	38·3	21·1	271.5	38·3	20 6	79·5	36·7	21·7	106·2
	1945	1953	1921	1945	1947	1960	1953	1947	1944	1956	1945	1955	1953	1931	1930	1953	1938	1911	1947	1946	1960
Batticola . .	31·0	17·2	156·2	32·2	17·2	129·8	33·9	20·0	109·5	35·6	21·7	76·2	37·2	22 2	64.0	37·2	22·8	42·7	36·7	21·7	86·4
	1960	1945	1951	1948	1953	1957	1951	1945	1950	1949	1945	1951	1956	1952	1945	1956	1956	1960	1959	1955	1960
Hambantota .	32·8	18·3	121·9	33·3	18·3	101·9	34·4	18·9	94·0	34·4	21·1	110·5	35·6	21·7	259.8	37·2	21·1	68·6	35·6	20·6	80·5
	1942	1945	1913	1941	1939	1938	1952	1946	1941	1936	1932	1939	1946	1943	1940	1946	1944	1951	1936	1954	1953
Mannar . .	31·1	18·9	115·1	33·7	18·9	83·6	35·0	20·0	65·0	36·1	20·6	50·0	36·1	22·2	76.7	35·0	23·9	40·9	33·9	22·2	31·2
	1958	1956	1949	1954	1957	1951	1948	1951	1945	1956	1950	1954	1957	1950	1949	1946	1956	1959	1947	1952	1947
Hydrometeorological Observatories Damodar Catchment																					
Bokaro . .	31·8	2·8	49·5	35·0	2·2	20·6	41·1	8·2	30·5	43·3	14·3	46·2	45·0	17·2	45.7	45·6	21·1	70·9	37·4	21·1	216·1
	1958	1956	1953	1952	1950	1953	1955	1957	1957	1959	1957	1951	1956	1951	1958	1958	1959	1950	1958	1958	1953
Hazaribagh .	25·4	4·3	39·1	30·4	5·7	4·3	35·9	10·7	6·5	39·7	15·0	4·5	40·9	20·3	24·8	41·2	19·4	114·8	33·3	21·6	60·6
	1959	1960	1959	1960	1959	1960	1959	1960	1960	1959	1959	1959	1960	1960	1959	1960	1959	1959	1960	1960	1959
Tilaiya . .	30·4	4·9	55·4	31·8	6·9	19·1	38·0	10·1	34·0	41·2	17.0	17·8	43·4	20·0	8·6	43·7	24.1	69·6	38·2	20·0	105·4
	1958	1959	1957	1958	1960	1958	1958	1957	1960	1959	1959	1958	1957	1960	1959	1958	1957	1957	1958	1958	1959
Ramgarh . .	33·0	2·2	25·7	35·6	4·8	40·4	41·1	7·8	20·1	43·9	13·9	41·0	46·1	19·4	76·4	46·1	20·6	102·0	42·2	22·2	88·1
	1958	1955	1953	1952	1957	1953	1955	1957	1958	1956	1953	1959	1956	1951	1959	1955	1960	1959	1951	1959	1957
Panchet Hills .	32·2	6·7	41·7	34·9	8·9	17·5	41·1	12·2	24·4	45·0	16·4	11·9	46·5	20·6	43·2	46·1	22·2	90·9	37·7	21·7	129·0
	1958	1955	1954	1958	1956	1959	1955	1954	1958	1956	1957	1956	1957	1956	1958	1958	1953	1957	1958	1957	1953
Durgapur . .	31·7	7·9	14·7	35·2	9·4	63·5	40·0	13·9	22·0	43·6	20 0	14·5	45·8	21·4	60·5	46·4	21·4	192·1	37·2	22·8	84·9
	1958	1959	1957	1960	1960	1959	1958	1960	1960	1957	1960	1959	1958	1959	1960	1958	1958	1957	1958	1960	1959

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Hill Stations excluding Kashmir —(contd.)
25·6	13·3	119·4	26·1	12·2	121·9	25·6	12·2	100·0	24·4	8·9	140·8	25·0	7·9	68·1	1945	1945	Nandi Hills.
1947	1947	1946	1951	1949	1946	1958	1948	1958	1953	1945	1959	1945	1959	1946			
26·7	12·2	194·6	27·2	12·2	103·4	28·3	10·6	151·6	27·8	10·6	86·4	28·9	9·4	85·9	1891	1881	Mercara.
1951	1920	1884	1951	1935	1938	1899	1948	1887	1918	1947	1925	1903	1937	1902			
21·1	8·3	118·9	21·7	8·9	104·1	21·1	6·1	147·1	21·7	3·9	197·1	22·8	2·8	133·1	1901	1901	Kodaikanal.
1905	1913	1935	1928	1907	1914	1914	1935	1930	1927	1901	1948	1910	1922	1903			
21·7	6·7	60·5	22·8	4·4	65·3	21·8	0	102·4	23·3	—1·1	209·8	24·5	—1·1	152·9	1901	1901	Ootacamund.
1948	1957	1909	1951	1958	1951	1960	1943	1916	1952	1949	1939	1960	1947	1941			
24·4	8·9	70·6	24·4	8·9	73·1	25·6	6·1	139·9	24·4	3·3	163·1	25·6	2·2	228·6	1931	1931	Cooner.
1944	1953	1933	1934	1935	1955	1941	1933	1938	1938	1942	1948	1941	1956	1952			
																	Sikkim
21·1	6·1	57·9	22·2	—0·6	91·8	19·4	1·1	58·0	15·6	—1·1	22·1	14·4	—5·6	30·5	1958	1951	Lachen.
1960	1958	1952	1960	1958	1960	1959	1960	1959	1959	1960	1951	1960	1959	1954			
																	Ceylon
33·9	21·7	126·0	31·7	21·1	153·4	31·7	20·6	256·3	32·2	18·9	210·3	32·8	17·1	114·3	1928	1911	Colombo.
1944	1954	1933	1952	1950	1937	1957	1938	1930	1956	1947	1934	1958	1960	1946			
36·7	21·1	107·4	36·7	21·1	128·5	36·7	21·1	154·2	34·4	18·3	200·4	32·2	20·0	322·8	1928	1911	Trincomalee.
1959	1955	1930	1959	1946	1919	1948	1951	1952	1948	1944	1923	1941	1937	1949			
36·7	21·7	68·1	37·8	22·2	63·7	35·0	21·7	85·9	32·8	20·0	116·3	32·2	20·0	192·0	1945	1945	Batticola.
1957	1955	1950	1954	1956	1956	1946	1953	1959	1955	1953	1946	1946	1956	1951			
35·0	20·6	74·9	35·0	21·7	34·1	34·4	21·0	91·4	35·6	18·9	134·4	32·2	18·3	159·5	1930	1911	Hambantota.
1955	1933	1917	1949	1949	1927	1955	1960	1924	1938	1941	1944	1956	1937	1923			
33·9	22·8	49·8	34·2	22·2	35·1	33·5	21·7	149·6	32·2	21·7	125·7	30·6	20·6	205·5	1945	1945	Mannar.
1953	1945	1948	1951	1953	1951	1957	1954	1954	1956	1949	1954	1952	1957	1957			
																	Hydrometeorological Observatories Damodar Catchment
35·2	22·2	106·9	35·2	18·9	148·3	35·2	11·7	122·0	33·9	5·0	23.4	31·7	2·8	9·9	1950	1950	Bokaro.
1957	1953	1953	1958	1950	1958	1957	1954	1959	1950	1952	1953	1950	1955	1954			
30·9	22·1	63·2	31·7	21·1	67·6	30·4	13·4	107·2	26·9	7·8	0	26·6	5·1	0	1959	1959	Hazaribagh.
1960	1959	1959	1960	1960	1960	1959	1960	1959	1959	1960	..	1960	1959	..			
34·7	22·4	156·2	36·9	21·3	115·6	33·6	14·0	171·2	30·7	9·4	0	23·8	5·6	0	1957	1957	Tilaiya.
1957	1957	1957	1960	1960	1958	1960	1957	1959	1958	1960	..	1957	1959	..			
36·4	18·2	169·9	37·2	18·3	174·2	37·8	10·8	108·0	34·2	4·4	17·3	31·6	1·7	56·4	1950	1950	Ramgarh.
1958	1960	1953	1960	1950	1954	1956	1957	1959	1957	1952	1953	1957	1955	1950			
36·1	21·1	82·8	36·4	19·3	195·1	35·8	15·0	181·6	33·3	9·9	43·2	31·7	6·7	12·5	1950	1950	Panchet Hills.
1957	1958	1953	1958	1958	1956	1953	1954	1959	1957	1957	1955	1953	1955	1954			
36·7	23·3	80·0	35·6	22·0	89·0	35·3	18·3	139·0	33·3	11·9	0·5	29·6	10·0	9·2	1957	1957	Durgapur.
1957	1958	1959	1958	1958	1959	1957	1959	1959	1957	1960	1958	1960	1960	1959			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AN

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Hydrometeorological Observatories																					
Damodar Catchment—(*Contd.*)																					
Dhanwar	..	..	49·5	..	..	5·6	..	..	11·2	..	..	9·7	..	..	38·1	..	..	88·9	..	..	126·0
	..	..	1957	..	..	1957	..	..	1957	..	..	1953	..	..	1952	..	..	1956	..	..	1955
Dumri	..	..	37·0	..	..	35·0	..	..	13·2	..	..	13·5	..	..	70·6	..	..	69·9	..	..	95·5
	..	..	1956	..	..	1958	..	..	1955	..	..	1951	..	..	1954	..	..	1957	..	..	1957
Bishungarh	..	..	55·9	..	..	10·7	..	..	27·4	..	..	35·6	..	..	46·0	..	..	83·3	..	..	114·3
	..	..	1953	..	..	1958	..	..	1957	..	..	1952	..	..	1954	..	..	1951	..	..	1951
Palganj (Giridih)	..	..	53·9	..	..	11·2	..	..	37·1	..	..	42·9	..	..	88·7	..	..	85·3	..	..	85·1
	..	..	1957	..	..	1957	..	..	1957	..	..	1952	..	..	1956	..	..	1957	..	..	1957
Chandwa	..	..	52·1	..	..	27·9	..	..	26·9	..	..	23·6	..	..	26·7	..	..	71·1	..	..	91·9
	..	..	1955	..	..	1958	..	..	1951	..	..	1951	..	..	1956	..	..	1958	..	..	1957
Maithon	29·4	7·8	23·4	34·7	8·1	15·7	39·1	13·3	11·4	44·7	18·3	8·6	45·8	22·5	31·2	44·8	20·6	87·9	36·2	23·3	49·3
	1960	1960	1957	1960	1960	1957	1960	1960	1957	1960	1960	1958	1960	1960	1958	1960	1960	1957	1960	1960	1957
Mahanadi Catchment																					
Baramul	32·8	6·1	10·8	36·7	7·1	39·1	41·7	10·4	13·7	43·3	15·8	28·0	45·6	20·6	36·1	46·1	20·6	200·7	40·0	21·7	75·4
	1958	1955	1959	1955	1958	1958	1959	1957	1956	1958	1957	1958	1956	1955	1956	1958	1957	1956	1957	1955	1958
Hirakud	32·2	9·3	32·2	36·1	10·0	36·1	42·2	14·9	57·1	45·0	18·7	11·4	46·7	22·2	24·1	46·7	22·7	106·7	38·2	22·2	178·8
	1955	1960	1960	1956	1956	1956	1955	1957	1958	1956	1957	1960	1956	1955	1956	1955	1960	1957	1958	1955	1958
Khijrawan	32·2	6·4	13·4	34·3	5·3	14·7	38·9	11·8	40·9	42·3	20·9	34·3	44·4	21·1	31·7	47·6	21·2	104·0	44·9	21·3	153·8
	1958	1958	1960	1957	1958	1957	1958	1957	1957	1958	1958	1957	1960	1958	1957	1957	1960	1959	1957	1960	1960
Sonepur	32·2	8·3	7·4	38·3	9·4	33·0	42·2	9·4	22·0	43·9	11·7	19·3	46·7	18·3	25·4	46·7	21·8	142·2	37·1	16·1	166·4
	1955	1960	1959	1955	1956	1957	1955	1960	1960	1956	1960	1959	1956	1960	1955	1955	1959	1959	1958	1957	1958
Ginabahar	31·7	3·6	18·0	35·0	2·2	17·3	40·6	8·9	16·5	42·8	14·4	16·5	45·6	20·0	34·3	45·0	17·7	64·3	37·2	18·1	93·5
	1958	1959	1960	1956	1959	1956	1955	1957	1957	1956	1957	1958	1956	1958	1956	1955	1959	1955	1958	1958	1956
Bhimkund	31·3	4·7	12·8	35·3	8·5	13·2	40·1	13·6	23·3	43·9	15·8	44·7	43·8	15·8	45·0	44·9	21·3	73·0	33·4	21·3	100·3
	1958	1959	1959	1960	1960	1958	1959	1959	1960	1959	1960	1958	1958	1958	1959	1958	1959	1959	1960	1960	1959
Narbada Catchment																					
Punasa	34·2	5·1	19·3	40·0	6·1	18·8	43·1	10·7	18·1	47·5	15·0	9·7	48·1	19·4	56·6	46·1	20·6	103·9	38·3	20·1	183·6
	1959	1960	1955	1953	1951	1952	1959	1957	1960	1958	1954	1957	1959	1954	1956	1953	1960	1956	1960	1959	1959
Bagra Tawa	32·3	2·8	31·2	37·8	4·2	15·5	41·7	9·1	25·4	45·3	13·9	14·6	47·2	20·6	29·0	46·1	20·6	88·1	37·8	17·2	281·2
	1958	1954	1951	1953	1957	1955	1953	1957	1957	1958	1955	1960	1954	1955	1956	1953	1955	1951	1958	1956	1959
Thikri	35·0	5·6	20·3	39·4	2·2	8·4	42·8	10·6	3·5	47·4	16·1	9·0	47·8	22·2	46·0	45·6	20·0	93·5	39·4	21·1	107·9
	1950	1953	1953	1953	1950	1949	1953	1957	1960	1958	1955	1959	1951	1952	1960	1953	1952	1953	1950	1955	1950
Sabarmati Catchment																					
Jhadol	29·6	—1·3	5·3	33·9	—0·8	7·6	38·4	1·1	10·2	43·4	6·3	25·4	45·0	11·7	17·8	41·1	12·2	61·0	37·2	11·6	115·8
	1960	1957	1958	1956	1960	1955	1959	1959	1956	1958	1959	1959	1956	1959	1956	1958	1959	1957	1957	1959	1956
Bikrani	..	..	8·6	..	..	0	..	..	0	..	..	43·2	..	..	0	..	..	66·0	..	..	145·3
	..	..	1958	..	..	..	..	..	..	..	..	1957	..	..	..	..	..	1955	..	..	1956
Dharoi	32·2	4·1	6·9	37·2	5·7	0	41.9	9·6	0	46·9	14·4	14·0	45·0	22·5	0	41·9	22·5	104·7	37·9	22·8	299·8
	1958	1957	1958	1956	1957	..	1959	1957	..	1958	1956	1959	1956	1960	..	1959	1959	1956	1960	1958	1959

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Hydrometeorological Observatories
																	Damodar Catchment—(*Contd.*)
..	..	59·7	..	..	161·3	..	..	44·5	..	..	1·0	..	..	14·2	..	1951	Dhanwar.
..	..	1957	..	..	1954	..	..	1952	..	..	1956	..	..	1956			
..	..	171·5	..	..	144·3	..	..	237·0	..	..	9·1	..	..	8·1	..	1950	Dumri.
..	..	1956	..	..	1958	..	..	1958	..	..	1953	..	..	1954			
..	..	142.2	..	..	96.0	..	..	200.0	..	..	15.7	..	..	9.7	..	1950	Bishungarh.
..	..	1953	..	..	1958	..	..	1960	..	..	1956	..	..	1956			
..	..	76.7	..	..	104.7	..	..	52.1	..	..	29.7	..	..	23.6	..	1950	Palganj (Giridih).
..	..	1955	..	..	1954	..	..	1956	..	..	1956	..	..	1954			
..	..	85.1	..	..	76.2	..	..	57.4	..	..	15.7	..	..	6.6	..	1951	Chandwa.
..	..	1953	..	..	1953	..	..	1958	..	..	1956	..	..	1954			
35.6	21.7	50.0	35.5	23.3	131.3	34·5	18·3	41.7	30.8	11.7	4.8	..	..	0	..	1957	Maithon.
1960	1960	1958	1960	1960	1958	1960	1960	1958	1960	1960	1960	..	..	..			
																	Mahanadi Catchment
41.1	18.9	56.9	34.4	21.5	196.6	35.6	16.9	101.3	33.3	10.6	39.4	32.2	5.0	0	1955	1955	Baramul.
1957	1957	1958	1957	1957	1956	1957	1958	1956	1957	1955	1955	1957	1955	..			
35.0	22.8	239.9	34.9	22.8	281.9	36.4	16.8	91.4	32.3	12.4	5.8	31.4	7.2	0·6	1955	1955	Hirakud.
1957	1956	1960	1960	1955	1955	1957	1960	1956	1959	1960	1956	1957	1955	1959			
32.5	22.4	102.2	32.4	21.6	70.3	34.4	14.3	114.2	30.8	5.2	16.5	31.4	5.1	0	1957	1957	Khijrawan.
1958	1960	1960	1957	1958	1958	1957	1960	1960	1957	1960	1958	1960	1960	..			
35.6	20.5	200.0	35.6	14.7	287.8	35.8	15.1	109.0	33.3	7.7	2.0	32.2	6.9	10·1	1955	1955	Sonepur.
1957	1957	1960	1956	1957	1955	1957	1958	1960	1959	1959	1958	1957	1959	1959			
35.0	21.7	198.1	34.5	20.8	131.8	35.6	11.4	178.3	32.6	6.1	9.1	32.2	3.2	5.1	1955	1955	Ginabahar.
1957	1958	1956	1957	1957	1960	1957	1957	1958	1957	1956	1956	1959	1959	1956			
33·0	22·9	229·5	34·4	22·4	76·0	33·3	15·9	57·0	31·2	9·3	11·3	30·8	6·2	0·2	1958	1958	Bhimkund.
1958	1959	1960	1958	1959	1960	1960	1960	1960	1959	1959	1958	1960	1959	1959			
																	Narbada Catchment
35·6	20·6	207·0	37·2	14·4	158·5	38·9	10·6	45·0	38·8	6·1	15·0	34·5	3·9	4·3	1951	1951	Punasa.
1956	1952	1960	1951	1953	1954	1951	1952	1955	1958	1956	1958	1959	1955	1956			
34·4	21·7	141·0	35·1	19·3	190·3	36·3	8·9	48·3	34·4	5·6	42·2	33·4	2·2	9·7	1951	1951	Bagra Tawa.
1954	1956	1952	1960	1960	1951	1957	1952	1955	1953	1952	1950	1960	1955	1956			
36·1	20·6	209·8	38·9	18·9	206·0	40·6	11·1	52·6	37·8	6·7	11·5	34·8	5·0	7·9	1949	1949	Thikri.
1953	1950	1957	1951	1952	1959	1949	1955	1955	1951	1956	1958	1960	1952	1956			
																	Sabarmati Catchment
34·2	15·8	84·6	33·1	14·7	88·9	37·3	7·2	60·0	33·6	—0·6	0	29·4	—1·0	4·3	1955	1955	Jhadol.
1957	1958	1957	1957	1957	1955	1957	1957	1959	1957	1956	..	1958	1959	1956			
..	..	114·3	..	..	100·8	..	..	21·3	..	..	14·0	..	..	20·0	..	1955	Bikrani.
..	..	1957	..	..	1958	..	..	1956	..	..	1957	..	..	1959			
36·1	21·1	105·9	39·3	20·8	83·0	39·1	15·6	64·0	37·2	10·6	0	32·5	8·1	0	1956	1956	Dharoi.
1957	1956	1957	1960	1959	1959	1957	1958	1958	1957	1956	..	1959	1959	..			

R=Heaviest Rainfall in 24 hours ending at 24 hrs I. S. T. .. =Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) A

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Hydrometeorological Observatories—*contd.*																					
Ganga Catchment																					
Mukhim . .	18.8	—3.4	66.0	21.7	—0.6	32.2	24.4	—1.6	33.2	28.9	4·2	39.4	31.7	8.8	39.6	32.2	10.5	100·0	28.1	15.4	105.4
	1957	1960	1960	1956	1957	1959	1958	1960	1958	1958	1959	1957	1956	1957	1957	1958	1957	1960	1957	1960	195
Tehri . . .	23.9	0.2	50.3	30.0	3.2	23.9	34.2	5.6	29.7	39.3	9.0	24.6	41.0	15.4	39.9	42·3	12.1	49.5	38.9	13.2	73.
	1956	1960	1957	1956	1957	1959	1958	1960	1956	1958	1959	1957	1960	1957	1956	1958	1957	1958	1960	1957	195
Gandok Catchment																					
Gorkha . .	22.1	5.3	46.2	27.1	4.5	0·6	29.5	8.3	50.0	35.1	7.3	49.5	35.6	13.9	75.4	35.3	17.8	139.7	30.7	19.8	95.5
	1957	1959	1957	1960	1959	1960	1958	1960	1960	1960	1959	1959	1957	1958	1959	1958	1957	1959	1957	1958	1957
Pokhara . .	23.1	3.9	54.9	25.7	4.3	18·0	30.9	7.5	29.7	34.6	10.3	122·2	37.0	14.7	74.2	35.9	15.9	173.7	31.9	20.4	135.1
	1957	1959	1957	1960	1957	1960	1960	1960	1960	1960	1960	1958	1960	1958	1959	1958	1958	1959	1960	1958	195
Nawakot . .	23.2	6.1	33.0	27.0	7.4	90·8	32.4	7.7	20.9	35.7	11.4	24.4	38.3	13·8	36.1	38.8	14.3	61.0	32.5	15.6	81.
	1958	1960	1957	1960	1959	1960	1960	1960	1960	1960	1960	1958	1957	1958	1957	1960	1957	1960	1960	1958	195
Jomosom . .	19.9	—7.6	45.7	20.0	—3.8	15.2	23.7	—1.1	22.6	25.4	1.4	18·5	26.3	3.2	15.4	26.8	6.5	12.2	26.5	12.3	17.5
	1958	1958	1959	1958	1958	1958	1959	1958	1960	1959	1958	1960	1958	1958	1959	1960	1958	1960	1959	1958	195
Timure . .	20.1	—0.2	21.6	21.2	1.1	4.6	27.3	3.4	19.3	29.8	5.2	14.0	30.9	10.9	26.7	31.7	13.9	28.5	27.6	15.8	35.3
	1958	1960	1959	1960	1959	1960	1960	1960	1960	1960	1959	1960	1958	1958	1959	1960	1959	1960	1959	1960	1960
Gogra Catchment (Trans-Himalayan Region)																					
Dailekh . .	21.1	2·0	36.8	22.7	3·4	13.4	27.3	5.4	52.6	34.3	9·2	25.4	34.3	15·7	27.7	35.1	16.2	43.2	28.5	18.9	113.3
	1958	1960	1959	1960	1959	1959	1958	1960	1957	1960	1959	1958	1957	1959	1958	1958	1958	1959	1957	1959	1959
Gogra Catchment																					
Dandeldhura .	18.9	—1.5	50.3	19.7	—0.2	21.5	24.4	—0.2	49.3	28.8	5.8	18.0	31.6	10.4	33.4	32.4	11.8	59.9	26.6	13.7	107.5
	1959	1957	1958	1960	1957	1959	1959	1957	1958	1959	1959	1957	1958	1957	1959	1958	1957	1957	1959	1958	1959
Munsiyari . .	18·7	—1·9	48·3	17·4	—0·3	9·7	20·7	1·7	25·2	25·5	1·7	52·1	30·8	8·1	32·3	30·2	11·6	80·5	23·4	14·0	139·7
	1957	1957	1958	1957	1957	1958	1957	1957	1957	1957	1960	1957	1957	1957	1957	1957	1957	1960	1960	1960	1958
Sallyana . .	19·7	..	35·8	20·2	..	0	25·5	..	10·2	30·6	..	19·8	..	..	0	..	..	32·0	..	..	61·0
	1957	..	1957	1957	..	1957	1957	..	1957	1957	..	1958	..	..	..	..	..	1957	..	..	1957
Butwal . . .	26·1	4·6	24·1	30·2	—0·1	1·5	38·1	10·4	11·0	41·7	16·2	17·8	44·7	10·1	72·4	44·4	18·4	1 6·0	36·7	21·7	245·4
	1958	1958	1959	1960	1957	1958	1960	1959	1959	1960	1959	1958	1960	1957	1959	1958	1958	1960	1958	1957	1960
Nepal																					
Kathmandu . .	20.4	—2·1	Tr	24·4	2·4	7·6	29·4	2·9	22·5	32·8	6·0	7·8	34·4	6.7	35·9	31·8	16·6	35·9	29·6	18·7	59·4
	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960
Kosi Catchment																					
Chautra . .	22·2	2·8	46·5	24·0	3.9	16·5	30·3	5·8	24·1	33·4	8·3	67·0	35·1	13·1	53·2	34·4	14·4	98·8	29·4	15·4	99·1
	1956	1957	1957	1960	1956	1954	1960	1957	1953	1960	1957	1959	1958	1960	1960	1958	1955	1956	1959	1958	1954
Okhaldunga . .	23·9	—0·6	34·3	22·2	—0·8	21·8	25·0	4·2	25·4	28·9	5·8	29·0	29·2	5·6	113·8	29·2	8·9	115·6	27·6	5·6	143·5
	1953	1953	1957	1956	1959	1954	1955	1957	1953	1954	1957	1955	1957	1953	1954	1958	1953	1960	1959	1953	1954
Barahkshetra .	27·2	7·2	48·4	31·7	8·4	5·6	37·1	11·7	126·2	42·2	16·1	42·0	41·9	19·2	72·4	38·9	21·7	155·2	34·7	22·8	179·8
	1954	1955	1959	1954	1958	1954	1960	1957	1953	1954	1960	1959	1957	1958	1958	1958	1955	1959	1960	1956	1957
Angbung .	22·2	1·7	58·0	24·4	3·9	10·9	30·1	5·7	54·0	32·8	8·2	43·2	34·3	8·9	75·7	33·2	7·2	103·1	31·9	16·1	82·5
	1957	1953	1959	1955	1953	1957	1960	1960	1959	1960	1960	1953	1960	1954	1953	1960	1954	1957	1959	1953	1957
Taplejung .	19·2	0	34·8	20·6	1·1	11·2	25·6	3·3	37·6	27·8	6·1	56·6	28·3	10·6	55·9	27·2	12·8	67·3	26·8	15·0	117·7
	1957	..	1957	1956	1953	1953	1953	1957	1953	1957	1957	1954	1957	1958	1954	1960	1953	1960	1958	1956	1959
Taplethok .	28·3	0·6	44·7	28·3	3·3	22·9	31·0	5·0	38·3	32·2	8·3	37·6	32·4	11·7	56·4	32·1	15·2	82·0	32·8	15·6	78·2
	1954	1957	1957	1954	1956	1957	1958	1956	1953	1953	1956	1958	1958	1956	1956	1958	1957	1959	1953	1956	1953

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Hydrometeorological Observaotries— *contd.*
																	Ganga Catchment
26·7	14·5	89·5	26·1	12·8	101·1	24·8	6·6	113·3	21·9	2·6	33·5	21·2	0·3	77·7	1956	1956	Mukhim.
1957	1957	1960	1958	1960	1959	1957	1957	1956	1958	1960	1959	1960	1958	1957			
36·7	20·0	62·5	35·6	17·4	70·6	34·8	8·6	172·5	31·1	4·3	25·2	26·0	1·6	39·8	1956	1956	Tehri.
1960	1956	1958	1956	1957	1957	1960	1960	1956	1956	1960	1959	1958	1959	1958			
																	Gandok Catchment
30·2	19·5	109·5	29·2	18·4	61·7	27·9	13·9	71·4	25·9	11·2	0·8	22·2	7·8	9·9	1957	1957	Gorkha.
1957	1957	1957	1958	1958	1958	1957	1958	1958	1958	1958	1957	1958	1957	1957			
33·4	19·4	284·0	31·7	18·1	132·4	30·4	11·6	108·5	27·7	8·6	5·1	27·5	5·3	19·1	1957	1957	Pokhara.
1957	1959	1957	1958	1960	1960	1958	1960	1960	1958	1960	1960	1960	1957	1957			
33·1	19·2	95·3	31·9	16·8	111·8	30·6	12·0	32·3	28·1	8·8	0	23·9	7·4	6·6	1957	1957	Nawakot.
1957	1958	1957	1960	1957	1959	1957	1960	1958	1958	1960	..	1958	1959	1957			
26·8	11·1	21·2	26·8	5·6	35·0	24·3	0·6	38·5	18·8	−1·6	0	19·8	−1·8	0	1958	1958	Jomosom
1958	1960	1960	1959	1958	1960	1958	1960	1960	1960	1960	1960	1960	1960	1960			
28·4	15·4	31·7	30·0	13·2	28·5	27·3	5·3	30·2	23·8	2·7	2·0	22·3	0·1	2·0	1958	1958	Timure
1959	1959	1959	1959	1959	1959	1960	1960	1958	1958	1960	1958	1960	1959	1958			
																	Gogra Catchment (Trans-Himalayan Region)
27·3	17·4	88·9	30·7	17·3	41·1	26·1	11·9	43·4	23·2	7·2	2·3	20·5	4·0	50·0	1957	1957	Dailekh
1959	1958	1959	1957	1959	1957	1959	1959	1958	1958	1959	1957	1957	1959	1957			
																	Gogra Catchment
26·8	13·5	73·9	25·8	11·9	85·3	25·8	6·1	109·7	22·4	3·7	18·9	21·3	0·8	86·6	1957	1957	Dandeldhura.
1957	1957	1958	1959	1957	1960	1960	1957	1958	1958	1960	1959	1957	1958	1957			
23·4	14·9	75·5	..	1·0	45·7	..	..	35·0	16·1	5·4	14·5	..	..	82·0	1957	1957	Munsiyari.
1960	1960	1960	..	1960	1957	..	..	1958	1960	1960	1957	..	..	1957			
29·4	..	45·7	27·3	..	48·8	..	..	2·8	24·4	..	0	20·6	..	0	1957	1957	Sallyana.
1957	..	1957	1957	..	1957	..	..	1957	1957	..	..	1957	..	..			
36·8	22·9	157·5	37·8	22·1	130·0	33·9	17·2	112·0	30·7	11·8	0	28·5	6·2	3·8	1957	1957	Butwal.
1957	1959	1957	1957	1959	1958	1959	1959	1958	1958	1959	..	1960	1958	1957			
																	Nepal
30·4	18·1	37·9	29·6	15·4	24·8	28·4	7·3	17·7	23·9	3·3	0	22·9	0·4	0	..	..	Katmandu.
1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960	1960			**Kosi Catchment.**
29·0	16·1	78·7	28·3	15·3	66·0	27·6	11·1	74·3	26·7	7·2	23·4	23·6	4·4	15·5	1955	1953	Chautra.
1959	1956	1954	1956	1959	1954	1959	1960	1959	1958	1960	1956	1960	1955	1955			
29·4	15·0	107·2	28·3	10·6	95·2	27·2	4·7	35·1	22·8	5·6	19·8	21·7	2·2	6·1	1953	1953	Okhaldunga.
1953	1955	1954	1954	1953	1960	1956	1960	1956	1954	1954	1956	1953	1955	1957			
36·7	22·2	149·1	34·6	20·7	177·4	35·9	14·9	136·1	30·6	10·6	29·5	28·3	8·9	3·3	1953	1953	Barahkshetra.
1957	1956	1958	1960	1960	1960	1960	1957	1953	1953	1953	1956	1955	1954	1957			
32·6	15·0	68·0	31·3	16·7	80·0	30·4	12·1	63·3	25·6	7·9	1·3	24·4	5·4	7·1	1953	1953	Angbung.
1957	1954	1959	1959	1953	1960	1957	1959	1957	1954	1959	1955	1953	1959	1957			
28·6	15·9	104·2	28·5	13·2	99·8	26·0	8·3	68·3	22·2	4·3	20·1	19·4	0·6	12·7	1953	1953	Taplejung.
1957	1959	1960	1958	1960	1954	1959	1955	1956	1958	1960	1956	1957	1954	1955			
32·4	15·6	93·0	31·7	15·6	59·6	32·8	9·0	64·8	29·4	7·8	25·4	28·3	4·8	12·5	1953	1953	Taplethok.
1958	1954	1960	1956	1959	1960	1956	1958	1960	1956	1956	1956	1956	1958	1957			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. =Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Kosi Catchment —(*contd.*)																					
Wallungchung Gola	10·0	—7·8	30·5	12·2	—8·4	17·5	16·4	—6·6	30·5	18·3	—2·9	25·3	18·3	1·1	28·5	20·6	1·1	32·0	20·6	4·4	44·5
	1953	1957	1956	1954	1959	1959	1959	1959	1960	1954	1960	1960	1954	1955	1955	1958	1956	1955	1953	1956	1954
Bhojpur .	17·9	1·4	35·0	21·1	3·9	3.8	27·8	5·9	39·9	29·4	8·7	27·2	29·7	11·2	61·2	28·9	14·8	83·8	26·6	16·1	56·6
	1960	1957	1957	1956	1959	1959	1960	1957	1956	1955	1957	1959	1958	1959	1955	1958	1957	1960	1960	1956	1956
Chainpur .	22·8	3·1	36·8	26·7	5·0	9·2	30·4	8·4	43·2	33·8	9·3	34·3	34·5	13·3	57·1	32·4	15·6	65·1	30·6	16·7	71·0
	1954	1957	1957	1954	1953	1960	1960	1960	1953	1960	1957	1953	1960	1955	1953	1960	1957	1960	1953	1954	1957
Tista Catchment																					
Gangtok . .	19·3	—2·2	63·3	20·6	—1·1	24·1	25·8	3·7	61·0	25·2	6·1	178·1	26·5	11·3	109·7	26·7	12·7	125·5	26·7	14·4	94·6
	1957	1956	1958	1956	1956	1959	1960	1960	1957	1960	1960	1956	1960	1957	1958	1960	1957	1960	1960	1956	1959
Geyzing . .	19·1	1·1	50·8	21·1	3·1	11·2	27·9	2·1	42·6	29·1	7·3	92·5	30·0	13·4	64·3	30·7	13·6	89·0	29·8	14·9	164·3
	1958	1957	1957	1957	1959	1958	1958	1957	1959	1958	1957	1958	1960	1958	1960	1960	1957	1958	1958	1958	1957

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1960 (1881-1882 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Kosi Catchment—(*contd.*)
19·9	4·4	55·1	20·0	3·9	92·0	18·3	—0·6	36·8	15·6	—3·9	15·7	15·9	—7·1	5·3	1953	1953	Wallung chung Gola.
1960	1953	1954	1960	1960	1960	1956	1953	1959	1955	1956	1956	1960	1959	1956			
29·6	15·9	78·0	27·7	15·0	58·6	26·1	10·6	113·0	23·1	8·1	22·9	19·9	4·4	4·6	1955	1955	Bhojpur.
1957	1957	1955	1960	1956	1960	1956	1957	1960	1958	1957	1956	1958	1955	1957			
31·7	17·2	69·9	31·1	15·0	45·7	28·9	11·7	67·2	26·8	8·3	0	25·6	6·1	8·9	1953	1953	Chainpur.
1953	1955	1955	1953	1953	1953	1955	1955	1955	1959	1953	..	1953	1955	1957			
																	Tista Catchment.
27·6	15·1	63·0	27·3	11·7	108·3	25·0	8·1	73·0	21·8	5·3	21·5	20·2	2·8	12·5	1956	1956	Gangtok.
1957	1958	1957	1960	1956	1960	1956	1957	1959	1958	1960	1958	1958	1956	1957			
32·2	16·3	74·7	30·0	13·9	123·2	28·4	9·2	41·0	25·0	5·1	18·2	22·2	4·1	7·6	1957	1957	Geyzing.
1957	1959	1958	1959	1960	1960	1960	1960	1960	1960	1960	1959	1960	1959	1957			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. = Information not available.

MONTHLY MEANS OF UPPER WINDS

December, 1960 (Agrahayana 10—Pausa 10, 1882 Saka)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons and the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a. m. s. l. are given under Table IV and data above 9.0 km. a. m. s. l. under Table V.

In Tables IV and V :

n—represents the number of observations,

V—represents the mean wind speed in metres per second* irrespective of direction,

v—represents the resultant mean velocity in metres per second*,

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0·15 km. a. g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a. m. s. l. Of these, the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1 and 16·2 km. a. m. s. l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

*Values obtained by converting the original data in knots.

Particulars of Pilot Balloon and Rawin Stations in India

Station	Lat. N	Long. E	Height of Anemometer head a. m. s. l. in metres	Date of opening	Approximate times of flights (I.S.T.)			
Agartala	25°53′	91°15′	17	28th November 1951	0530	1730	2330	
Ahmedabad	23°04′	72°38′	61	19th May 1928	0530	1730	2330	
Amausi	26°45′	80°53′	133	20th November 1950	0530	1730	2330	
Ambala	30°23′	76°46′	279	1st April 1941	0530	1730	2330	
Anantapur	14°41′	77°37′	365	12th February 1946	0530	1730	2330	
Asansol	23°41′	86°59′	135	29th May 1942	0530	1730	2330	
Baghdogra	26°38′	88°19′	140	7th June 1953	0530	1730	2330	
Bairagarh	23°17′	77°21′	532	26th February 1943	0530	1730	2330	
Bajpe	12°55′	74°53′	104	25th May 1959	0530	1730	2330	
Bamrauli	25°27′	81°44′	103	28th February 1930	0530*	1130	1730*	2330
Bangalore	12°58′	77°35′	936	19th May 1915	0530	1730	2330	
Bareilly	28°22′	79°24′	181	12th January 1943	0530	1730		
Begumpet	17°27′	78°28′	543	1st September 1929	0530	1730	2330	
Bhagalpur	25°14′	86°57′	61	19th May 1950	0530	1730		
Bhubaneshwar	20°15′	85°50′	54	5th December 1942	0530	1730	2330	
Bhuj	23°15′	69°48′	90	14th September 1937	0530	1730	2330	
Bikaner	28°00′	73°18′	229	18th October 1946	0530	1730	2330	
Chikalthana	19°51′	75°24′	583	7th October 1951	0530	1730	2330	
Cochin†	09°56′	76°14′	13	16th March 1942	0530	1730	2330	
Darjeeling	27°03′	88°16′	2115	21st May 1956	0530	1730		
Dehra Dun	30°19′	78°03′	692	1st October 1958	0830	1730		
Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
Gadag	15°25′	75°38′	650	3rd May 1943	0530	1730	2330	
Gannavaram	16°32′	80°48′	32	8th April 1942	0530	1730	2330	
Gauhati	26°05′	91°43′	55	12th March 1955	0530*	1130	1730*	2330
Gaya	24°45′	84°57′	119	19th March 1937	0530	1730	2330	
Gopalpur	19°16′	84°53′	24	15th February 1946	0530	1730	2330	
Gorakhpur	26°45′	83°22′	83	5th January 1943	0530	1730		
Gwalior	26°14′	78°15′	208	7th May 1938	0530	1730	2330	
Imphal	24°51′	93°58′	805	8th March 1952	0530	1730	2330	
Jabalpur	23°10′	79°57′	402	30th July 1928	0530	1730	2330	
Jagdalpur	19°05′	82°02′	562	25th March 1948	0530	1730	2330	
Jaipur	26°49′	75°48′	403	6th June 1953	0530	1730	2330	
Jamshedpur	22°49′	86°11′	141	23rd July 1942	0530	1730		
Jharsuguda	21°55′	84°05′	240	1st May 1944	0530	1730	2330	
Jodhpur	26°18′	73°01′	229	15th October 1934	0530*	1130	1730*	2330
Madras	13°00′	80°11′	29	8th April 1926	0530*	1130	1730*	2330
Minicoy	08°18′	73°00′	15	14th April 1941	0530	1730	2330	
Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1730	2330	
Nagpur	21°06′	79°03′	316	23rd April 1943	0530*	1130	1730*	2330
Nanpara	27°50′	81°30′	142	23rd April 1957	0530	1730		
New Delhi	28°35′	77°12′	227	20th October 1936	0530*	1130	1730*	2330
Poona	18°32′	73°51′	593	5th January 1925	0530	1730	2330	
Port Blair	11°40′	92°43′	93	29th October 1945	0530*	1130	1730*	2330
Raipur	21°14′	81°39′	308	15th July 1944	0530	1730	2330	
Raxaul	26°59′	84°51′	83	28th October 1957	0530	1730		
Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
Tiruchirapalli	10°46′	78°43′	96	22nd June 1936	0530	1730	2330	
Trivandrum	08°29′	76°57′	73	8th December 1928	0530*	1130	1730*	2330
Udaipur	24°35′	73°42′	587	24th June 1947	0530	1730	2330	
Vengurla	15°52′	73°38′	8	22nd November 1941	0530	1730	2330	
Veraval	20°54′	70°22′	17	13th October 1941	0530*	1130	1730*	2330
Visakhapatnam	17°43′	83°14′	10	24th September 1928	0530*	1130	1730*	2330

*Radiowind ascents.
†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

December 1960 (Agrahayana 10—Pausa 10, 1882 SAKA)

Station	AGARTALA												AHMEDABAD											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·2	0·1	070	31	0·8	0·5	306	31	0·1	0·1	103	31	2·1	1·8	041	31	2·3	1·4	350	31	1·6	1·0	018
0·15 a. g. .	30	2·4	1·5	030	31	2·4	1·7	286	31	2·9	2·1	317	31	7·2	5·5	059	31	3·1	1·5	348	31	6·2	4·4	008
0·3 a. m. s. l. .	30	2·9	2·1	023	31	2·2	1.6	279	31	2·7	2·3	308	31	6·6	4·6	020	31	3·2	1·4	345	31	6 0	4·2	009
0·6 ,, .	30	2·5	1·7	026	31	1·9	1·2	265	31	2·1	1·6	308	31	4·5	2·2	059	31	3·2	1·4	356	31	4·7	2·8	022
0·9 ,, .	30	2·2	1·1	007	31	2·0	1·0	243	31	2·1	1·4	291	31	3·6	0·4	324	31	3·1	1·1	350	31	3.8	1·3	043
1·5 ,, .	30	4·4	2·5	285	31	3·6	2·3	274	31	3·8	2·5	284	31	5·1	3·7	232	31	4·2	1·7	252	31	4·4	2·5	203
2·1 ,, .	30	8·6	7·7	290	31	8·4	7·4	290	30	8·5	7·5	292	31	7·5	6·4	230	31	6·5	4·9	236	30	5·7	4 5	230
3·0 ,, .	30	14·5	14·1	290	29	14·8	13·5	289	28	13·2	12·7	284	28	9·0	7·6	230	31	9·7	8·7	239	29	7·9	6·6	243
3·6 ,, .	22	15·9	15·4	285	29	16·5	15·7	290	1	9·3	9·3	280	5	8·7	7·3	251	29	10·5	9·5	239	3	12·7	12·6	258
4·5 ,, .	15	15·8	15·3	274	27	18·0	17·9	283									28	13·0	11·9	246				
5·4 ,, .	7	16·8	16·6	283	19	20·8	19·8	276									28	16·2	15·2	245				
6·0 ,, .	1	15·4	15·4	285	17	19·9	18·8	275									28	17·4	16·3	247				
7·2 ,, .					5	21·9	21·5	270									20	19·4	18·8	247				
9·0 ,, .					2	24·7	24·7	271									11	23·5	23·0	249				

Station	AMAUSI												AMBALA											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1 9	1·5	280	31	2·6	2·0	283	31	2·5	1·9	278	31	1·1	1·0	307	31	2·0	1·6	290	31	1·5	1·1	319
0·15 a. g. .	31	5·3	4·5	317	31	4·3	3·7	292	31	6·2	5·5	297	30	7·1	6.2	327	31	5·1	4·4	297	31	8·2	7·2	327
0·3 a. m. s. l. .	31	5·3	4·3	321	31	4·3	3·7	294	31	6·3	5·4	298	30	2·5	2·2	332	31	3·0	2·5	292	31	3·4	2·9	327
0 6 ,, .	31	5·8	5·1	305	31	5·3	4·8	307	31	5·9	5.3	305	30	6·4	5·6	320	31	5·3	4 3	301	31	6·9	6·0	326
0·9 ,, .	31	6·7	5·8	298	31	6 4	5·8	308	31	6·1	5·5	312	30	5·6	4·4	316	31	5·3	4·0	317	31	5·8	4 0	322
1·5 ,, .	30	8·0	6·9	299	31	8·1	7·5	304	30	7·5	6·7	299	30	4·9	3·3	310	31	5·8	3·2	304	31	5·6	2·6	285
2·1 ,, .	30	9·1	8·1	295	31	9·4	8·9	293	28	8·5	8·1	290	30	4·4	2·1	289	31	4·8	2·5	279	29	5·8	2·8	275
3·0 ,, .	25	9·6	8·6	275	29	11·8	11·1	286	12	7·5	7·1	285	29	5·6	2·5	242	29	5·1	2·6	251	28	5·5	2·7	237
3·6 ,, .	11	10·1	9·4	275	29	12·5	11·7	283	2	12·1	12·1	280	29	6·6	4·0	252	29	6·2	4·1	253	12	6 2	5·3	233
4·5 ,, .	5	10·5	9·7	270	22	14·4	11·2	276					25	10·5	8·2	250	29	10·2	8·6	255	2	14·4	14·4	242
5·4 ,, .	1	12·9	12·9	280	16	17·2	16·6	267					17	15·4	12·4	263	24	16·9	14·8	257				
6·0 ,, .					12	19·1	18·1	270					13	20·1	19·8	258	24	19·5	17·7	264				
7·2 ,, .					6	18·9	18·0	260					4	28·1	26·5	259	10	23·4	21·6	259				
9·0 ,, .					1	24·7	24·7	270									1	53·6	53·6	270				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Station	ANANTAPUR												ASANSOL											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	0·8	104	31	3·8	3·7	079	31	3·6	3·3	090	31	1·6	1·5	304	31	1·3	1·2	308	31	1·0	0·5	320
0·15 a. g.	31	3·4	2·7	118	31	5·1	4·9	079	31	6·1	5·8	105	31	5·1	4·7	319	31	4·7	4·2	312	31	5·9	4·6	334
0·3 a. m. s. l.													31	5·3	4·7	330	31	4·7	4·4	313	31	6·0	4·7	330
0·6 ,,	31	4·4	4·0	109	31	5·2	5·0	084	31	6·5	6·3	102	31	6·0	5·5	331	31	5·2	4·9	314	31	6·0	5·0	318
0·9 ,,	31	6·2	5·7	097	31	5·2	4·9	085	31	6·1	6·1	096	31	6·8	6·1	318	31	5·6	5·3	312	31	6·2	5·7	306
1·5 ,,	31	6·5	5·9	080	31	6·2	5·4	079	31	6·0	5·0	072	31	9·4	9·1	313	31	9·4	9·3	309	31	9·9	9·3	304
2·1 ,,	31	6·3	5·5	075	31	6·7	5·2	079	31	6·4	4·6	079	31	11·6	11·1	305	31	12·5	12·1	303	31	11·2	10·5	303
3·0 ,,	30	4·9	3·7	094	31	5·5	3·5	081	30	4·4	2·8	085	26	13·2	12·5	298	29	13·2	12·7	294	28	12·0	11·4	291
3·6 ,,	30	4·3	2·9	115	31	4·3	2·7	086	30	4·4	3·0	100	19	12·4	11·9	291	21	13·1	12·6	289	11	12·2	11·5	289
4·5 ,,	30	4·1	1·9	120	30	4·0	1·8	106	28	4·0	2·0	118	9	13·5	13·0	284	16	14·9	13·9	278	4	11·7	11·6	263
5·4 ,,	30	5·0	2·1	166	30	4·9	1·6	166	22	4·9	2·3	127	6	14·0	13·6	269	9	19·1	18·5	269	1	8·2	8·2	255
6·0 ,,	27	5·8	2·3	193	27	5·3	2·0	176	17	5·5	2·8	163	1	17·5	17·5	275	5	20·8	20·4	255	1	10·3	10·3	250
7·2 ,,	20	6·7	4·1	227	27	6·9	4·5	216	6	9·6	7·3	231					1	14·9	14·9	265	1	27·3	27·3	270
9·0 ,,	10	12·5	10·9	236	24	11·9	9·9	231																

Station	BAGHDOGRA												BAIRAGARH											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	0·9	005	31	1·8	1·4	220	31	1·1	0·8	347	31	2·3	1·1	110	31	6·1	1·0	028	31	2·0	1·3	068
0·15 a. g.	30	2·7	2·3	041	31	3·3	2·9	232	31	2·6	1·5	312	31	6·0	2·9	107	31	3·5	1·7	020	31	5·1	3·5	086
0·3 a. m. s. l.	30	2·7	2·1	065	31	3·3	2·9	235	31	2·6	1·6	281												
0·6 ,,	30	2·4	1·7	092	31	3·1	2·7	234	31	2·6	1·9	269	31	5·5	3·2	112	31	3·3	1·6	030	31	5·3	3·7	080
0·9 ,,	30	2·6	1·7	099	31	2·8	2·2	239	31	2·0	0·7	253	31	4·9	1·1	131	31	3·2	1·1	002	31	4·0	1·9	105
1·5 ,,	30	3·4	2·8	097	31	2·2	0·5	226	31	2·7	1·8	113	31	5·1	2·6	246	31	3·7	1·6	288	31	4·1	2·2	246
2·1 ,,	29	3·7	3·1	094	29	2·9	1·0	332	29	2·8	1·4	103	31	6·5	4·5	256	31	5·3	3·2	266	31	6·0	4·3	245
3·0 ,,	27	9·7	8·6	287	24	10·2	9·5	292	23	7·5	6·1	288	31	8·2	6·3	256	31	8·0	6·4	259	30	8·4	6·6	256
3·6 ,,	21	17·8	16·8	284	18	15·7	15·5	282	11	17·7	16·8	283	20	9·5	7·8	254	30	9·8	8·3	253	15	9·3	8·3	261
4·5 ,,	13	22·1	21·4	284	14	19·5	19·3	286	3	19·2	19·2	290	12	11·6	9·1	242	28	12·4	10·4	259	1	4·6	4·6	065
5·4 ,,	4	17·1	17·0	274	8	22·3	21·9	284					9	13·8	10·1	226	24	15·4	14·2	251				
6·0 ,,	1	11·8	11·8	270	4	22·9	22·4	268					7	19·1	12·4	219	21	17·5	16·8	253				
7·2 ,,					2	31·9	29·2	261					3	25·6	25·4	247	14	21·3	20·6	252				
9·0 ,,													3	39·8	38·2	235	3	19·0	18·8	259				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Station	BAJPE												BAMRAULI											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·7	2·4	097	31	3·0	2·7	307	31	1·0	0·7	028	31	0·3	0·3	286	31	1·3	0·8	295	31	0·7	0·6	290
0·15 a. g. .	31	5·1	4·2	084	31	3·4	3·0	301	31	3·5	2·6	337	31	3·9	2·9	300	31	2·1	1·4	284	31	3·8	3·3	300
0·3 a. m. s. l. .	31	5·4	4·1	080	31	3·5	2·8	307	31	3·7	2·8	333	31	3·9	2·9	300	31	2·3	1·6	289	31	3·8	3·3	300
0·6 „ .	31	5·5	4·1	085	31	2·7	1·1	013	31	3·2	2·1	341	31	4·1	3·3	299	31	4·1	3·3	298	31	4·3	3·8	305
0·9 „ .	31	5·1	4·2	089	31	3·3	2·2	080	31	3·2	1·7	035	31	5·2	4·4	302	31	5·7	4·9	300	31	5·4	4·8	306
1·5 „ .	31	4·6	4·1	089	31	6·7	6·3	084	31	6·4	5·8	087	31	6·9	6·3	295	31	7·6	7·1	302	31	7·2	5·5	311
2·1 „ .	31	6·0	5·0	089	31	7·7	7·1	087	31	7·5	7·2	089	31	8·7	8·2	292	31	9·4	8·9	297	31	9·3	8·7	295
3·0 „ .	30	6·0	4·7	094	30	5·2	4·4	083	31	5·3	4·3	089	31	9·5	8·8	281	30	10·5	9·6	285	31	9·9	7·5	286
3·6 „ .	22	5·1	3·3	104	30	5·0	3·8	096	30	4·6	3·8	099	31	10·5	9·6	277	30	11·9	11·1	281	30	11·2	10·0	278
4.5 „ .	15	5·0	4·0	116	30	4·5	1·5	143	22	5·4	4·2	114	29	12·6	12·0	272	28	13·4	12·5	271	30	13·7	12·9	271
5·4 „ .	1	5·7	5·7	075	28	4·5	2·2	107	13	5·2	4·1	120	29	15·7	14·8	266	25	16·1	15·0	267	30	17·4	16·6	260
6·0 „ .					26	5·1	2·1	148	6	7·1	4·4	157	29	18·7	17·8	262	24	18·9	18·0	262	30	20·1	19·1	264
7·2 „ .					20	6·7	2·9	228					28	23·7	22·8	258	16	24·1	23·7	262	29	23·2	22·7	259
9·0 „ .					13	11·9	10·5	240					23	29·4	29·3	254	5	31·0	30.7	255	27	32·0	31·0	252

Station	BAMRAULI				BANGALORE												BAREILLY							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·7	0·5	272	31	2·9	2·7	068	31	3·1	2·8	089	31	3·1	2·8	082	31	1·4	0·9	304	31	1·2	1·0	283
0·15 a. g. .	31	4·4	3·3	291	29	6·8	6·3	075	31	4·8	4·3	085	29	7·7	7·2	083	30	5·7	4·6	321	31	4·2	3·6	294
0·3 a. m. s. l. .	31	4·6	3·4	292													30	5·3	4·2	319	31	4·0	3·9	294
0·6 „ .	31	5·0	3·7	297													30	6·4	5·4	309	31	5·7	4·6	301
0·9 „ .	31	5·7	5·0	305													30	6·5	5·5	305	31	6·5	5·5	307
1·5 „ .	31	7·2	6·2	297	28	7·7	6·7	080	31	5·7	5·3	078	29	6·8	6·2	080	30	7·0	5·8	300	31	7·7	6·8	303
2·1 „ .	30	8·6	7·9	291	28	7·4	6·3	078	28	6·2	5·5	077	29	7·3	5·7	079	30	6·3	5·6	290	30	8·0	7·4	289
3·0 „ .	20	8·4	7·6	285	28	6·2	5·4	091	27	6·5	5·0	079	29	6·2	4·9	082	28	7·9	6·7	276	28	9·0	8·2	288
3.6 „ .	2	10·6	9·0	236	28	5·9	4·9	098	24	6·1	5·2	088	26	5·8	5·0	097	27	8·9	7·6	274	28	11·0	10·2	279
4·5 „ .					24	4·8	3·3	112	22	5·4	4·5	092	22	4·9	4·1	099	25	12·7	11·7	270	28	12·7	12·1	276
5·4 „ .					16	4·9	2·3	125	19	5·2	3·3	092	19	4·9	2·5	133	19	16·8	15·6	266	27	16·6	15·9	269
6·0 „ .					13	5·5	2·3	126	19	4·9	3·1	116	16	5·0	3·0	148	8	19·1	18·2	270	21	20·4	19·4	267
7·2 „ .					10	7·3	0·9	157	17	5·5	2·6	150	6	5·0	3·7	217					15	23·2	21·7	265
9·0 „ .					5	9·9	4·5	228	16	7·4	4·3	231	1	2·6	2·6	190					3	37·7	32·7	249

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Station	BEGUMPET												BHAGALPUR								BHUBANESHWAR			
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·6	0·5	089	31	2·4	2·1	080	31	0·9	0·7	072	31	1·4	1·2	241	31	2·1	1·9	278	31	2·0	1·5	001
0·15 a. g.	30	4·5	1·1	155	31	4·5	3·9	086	31	4·8	4·2	096	31	4·4	3·9	284	31	4·2	3·9	282	30	3·6	2·3	008
0·3 a. m. s. l.													31	4·3	3·9	303	31	4·4	4·2	283	30	4·0	2·0	018
0·6 ,,	30	3·1	2·7	096	31	3·8	3·3	083	31	3·2	2·8	092	31	4·0	3·2	314	31	4·9	4·7	286	30	4·2	2·6	029
0·9 ,,	30	5·3	4·9	094	31	4·4	3·9	082	31	5·5	4·8	093	31	3·9	2·3	316	31	5·3	5·0	287	29	4·7	3·8	020
1·5 ,,	30	6·3	5·3	065	31	4·5	3·7	066	31	5·1	4·0	074	31	6·6	5·0	307	30	7·3	6·8	300	29	5·5	3·5	012
2·1 ,,	29	5·4	3·3	060	31	4·8	3·0	063	30	5·5	3·1	070	31	11·1	10·8	304	30	14·1	13·7	302	25	5·5	4·2	339
3·0 ,,	28	4·6	1·5	083	31	4·3	0·6	065	29	4·1	0·9	076	29	14·6	14·4	295	30	15·6	15·4	296	25	6·5	5·1	312
3·6 ,,	27	4·5	0·7	155	30	4·4	1·3	244	21	4·0	1·1	215	27	14·9	14·7	293	28	15·9	15·5	293	23	7·1	5·8	300
4·5 ,,	26	4·6	1·5	216	28	5·1	2·3	233	11	4·4	3·1	223	16	15·4	15·1	286	27	17·5	16·7	286	22	8·0	6·2	277
5·4 ,,	24	6·1	3·5	250	25	6·2	4·0	242	3	5·5	4·4	218	5	14·2	14·1	269	24	19·3	16·4	283	19	9·0	7·6	269
6·0 ,,	24	7·2	5·0	248	23	7·0	5·3	244	2	5·1	4·7	244	3	17·0	16·5	254	19	21·8	20·8	276	17	11·1	10·1	268
7·2 ,,	22	9·8	7·7	244	18	11·2	10·6	237									10	24·9	23·7	270	9	14·2	13·2	253
9·0 ,,	18	16·2	15·1	242	13	12·1	11·4	244									3	42·0	41·2	351	3	22·1	20·4	249

Station	BHUBANESHWAR								BHUJ												BIKANER			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	0·6	003	31	1·5	0·1	015	31	0·5	0·2	380	31	3·2	2·0	022	31	1·1	0·8	346	31	0·4	0·2	123
0·15 a. g.	30	3·0	1·1	019	31	4·5	1·9	146	31	4·9	3·4	025	31	4·6	2·6	008	31	5·1	3·8	004	31	6·4	4·8	094
0·3 a. m. s. l.	30	3·0	1·2	020	31	4·3	1·2	131	31	5·4	4·3	029	31	4·6	2·5	012	31	5·4	4·0	011	31	5·0	3·2	097
0·6 ,,	30	2·5	1·4	018	31	3·6	0·3	010	31	4·8	2·6	036	31	4·3	2·2	006	31	5·5	3·8	020	31	5·5	2·7	082
0·9 ,,	30	2·9	2·1	007	31	4·4	2·0	339	31	3·4	0·6	300	31	4·0	2·1	008	31	4·9	2·5	035	30	5·3	2·0	062
1·5 ,,	29	5·6	4·2	345	31	5·8	3·8	357	31	4·5	3·5	230	31	4·3	1·9	249	31	4·1	1·8	208	30	4·6	1·9	276
2·1 ,,	27	6·4	4·7	326	28	6·5	5·3	346	31	5·5	4·2	240	31	6·7	5·6	282	30	5·3	4·4	225	30	4·7	2·7	243
3·0 ,,	26	7·6	6·4	313	26	6·8	5·1	330	30	7·9	7·2	240	30	10·0	9·2	240	30	9·3	8·0	242	29	7·0	6·5	244
3·6 ,,	23	8·5	6·8	303	17	7·4	5·8	318	7	11·0	10·9	240	30	12·5	11·5	240	18	10·8	10·1	244	28	10·4	9·6	244
4·5 ,,	21	8·7	7·2	297	9	9·3	7·4	286					29	14·7	14·0	241	7	11·3	11·2	243	22	14·2	13·6	249
5·4 ,,	20	11·0	9·5	282									29	16·8	16·1	245					10	19·0	18·3	249
6·0 ,,	20	11·1	10·1	273									27	19·2	18·7	247					3	20·9	20·9	233
7·2 ,,	13	16·0	15·3	258									12	22·5	21·3	249								
9·0 ,,	6	20·4	19·1	251																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Station	BIKANER								CHIKALTHANA												COCHIN			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·6	0·6	003	31	1·0	0·8	039	31	0·1	0·0	270	31	1·7	1·4	114	31	0·4	0·3	068	31	1·6	1·5	060
0·15 a. g.	31	3·1	2·2	018	31	6·8	5·5	052	31	4·9	4·2	111	31	3·4	2·3	122	31	5·4	4·3	085	31	3·7	2·6	064
0·3 a. m. s. l.	31	2·8	2·0	017	31	6·3	4·8	051													31	3·2	2·2	061
0·6 ,,	31	3·1	1·9	023	31	5·7	3·6	060													31	3·0	1·2	061
0·9 ,,	31	3·2	2·3	028	31	4·7	1·9	096	31	5·9	5·2	121	31	3·2	2·2	113	31	5·5	4·4	091	31	2·7	1·2	073
1·5 ,,	31	4·1	1·1	236	31	4·7	2·5	217	31	4·3	3·4	126	31	3·3	1·5	085	31	4·1	3·2	098	31	3·5	2·2	081
2·1 ,,	31	5·6	3·4	242	30	5·9	4·2	245	31	3·3	1·1	152	31	3·5	0·8	075	31	3·9	1·7	135	31	4·5	3·5	084
3·0 ,,	30	9·1	7·5	246	28	7·3	6·8	252	31	5·5	2·6	241	31	4·9	2·3	247	31	5·1	2·6	219	30	6·1	5·1	086
3·6 ,,	28	11·4	10·4	251	13	10·5	10·0	261	15	6·4	4·7	223	30	6·6	4·0	237	20	6·3	4·0	219	29	6·2	5·1	096
4·5 ,,	28	16·4	15·7	253	1	11·8	11·8	255					29	7·8	5·8	237	7	5·7	5·5	250	14	5·1	4·4	088
5·4 ,,	27	19·2	17·8	250									28	9·8	8·4	238	1	10·8	10·8	250	5	4·5	3·2	103
6·0 ,,	20	20·9	20·3	255									28	11·7	10·6	246	1	13·4	13·4	245	1	2·1	2·1	190
7·2 ,,	3	22·0	21·5	261									13	14·1	13·6	248								
9·0 ,,																								

Station	COCHIN								DARJEELING								DEHRA DUN							
Time in I. S. T.	1730				2330				0830				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·9	2·3	264	31	1·2	0·7	102	31	0·1	0·1	225	31	0·3	0·3	225	31	0·9	0·9	004	31	1·5	1·0	265
0·15 a. g.	31	3·4	3·1	272	29	2·4	0·4	348	15	1·3	1·0	124	7	2·1	1·9	231	31	1·9	0·9	038	30	2·9	2·0	272
0·3 a. m. s. l.	31	3·2	2·5	287	29	2·4	0·1	346																
0·6 ,,	31	2·9	1·4	357	29	2·7	0·9	356																
0·9 ,,	31	3·3	2·3	043	29	2·8	1·6	075									31	1·9	0·9	075	30	2·8	2·0	272
1·5 ,,	31	4·7	4·1	078	28	3·8	3·2	057									31	2·3	0·4	259	30	2·0	1·0	288
2·1 ,,	29	5·0	4·1	082	28	5·1	4·6	072									31	3·5	0·7	212	30	3·7	1·2	280
3·0 ,,	25	6·1	4·9	077	21	6·3	6·1	085	15	3·6	1·3	267	7	2·4	2·1	321	30	4·5	1·6	197	30	4·6	1·7	243
3·6 ,,	23	6·5	5·3	080	18	6·0	5·5	093	13	10·0	7·8	278	6	7·7	7·5	278	29	5·0	2·6	240	30	5·2	2·3	244
4·5 ,,	19	6·8	5·1	086	9	6·5	5·3	094	10	16·2	16·1	282	3	16·6	16·5	276	27	9·4	7·6	255	28	8·0	6·0	253
5·4 ,,	14	7·4	5·3	102	1	3·1	3·1	295	6	16·5	16·1	279	1	25·2	25·2	290	25	15·2	14·3	258	25	13·1	12·0	264
6·0 ,,	10	6·4	4·5	094	1	7·7	7·7	325	3	17·0	17·0	289					22	18·5	17·9	260	25	17·1	16·3	262
7·2 ,,	7	6·5	1·4	080					2	23·4	23·4	283					12	25·8	25·3	260	17	23·8	22·8	261
9·0 ,,	1	5·7	5·7	045					1	39·6	39·6	280					2	26·0	26·0	255	3	25·4	25·1	264

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Station	DUM DUM																GADAG							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·4	0·3	003	31	1·5	1·1	331	31	C	A	L	M	31	0·3	0·1	320	31	3·7	3·1	109	31	3·5	3·1	080
0·15 a. g.	31	3·6	2·7	351	31	2·7	2·4	229	31	2·9	2·6	305		31	3·2	2·1	333	31	7·4	6·3	111	31	4·7	4·2	082
0·3 a. m. s. l.	31	3·9	3·1	345	31	3·2	2·7	332	31	3·2	3·0	310		31	3·5	2·8	328								
0·6 ,,	31	4·1	3·5	339	31	4·5	3·9	322	31	3·5	3·2	318		31	4·7	4·3	324								
0·9 ,,	31	4·8	4·2	320	31	6·3	5·6	320	31	4·8	4·5	315		31	6·4	5·9	324	31	8·1	7·4	099	31	5·4	4·6	085
1·5 ,,	31	7·5	6·6	314	31	9·7	8·6	315	31	8·1	7·6	312		31	8·5	8·0	318	31	7·5	6·8	093	31	6·0	5·3	085
2·1 ,,	31	8·8	7·6	307	31	11·4	10·5	310	31	9·2	8·6	306		29	8·8	8·5	307	30	6·2	5·3	080	31	5·6	4·7	282
3·0 ,,	31	8·5	7·8	295	29	11·2	11·0	302	31	10·0	9·3	293		18	8·4	7·4	288	27	4·6	2·6	100	30	4·6	3·1	085
3·6 ,,	31	9·9	9·4	286	26	12·1	11·8	296	31	10·2	10·0	290		1	9·3	9·3	275	27	4·2	2·0	127	29	4·0	2·3	103
4·5 ,,	31	11·6	10·8	281	17	11·8	11·1	285	31	11·2	9·7	283						26	4·7	2·4	150	28	4·4	1·5	122
5·4 ,,	31	12·3	12·1	275	16	14·2	13·3	277	31	12·7	12·3	275						23	4·8	1·5	200	26	5·0	1·6	172
6·0 ,,	30	14·1	12·9	267	10	14·2	13·8	279	31	14·2	13·4	273						22	6·4	2·8	198	25	5·6	2·6	218
7·2 ,,	30	16·5	15·4	259	4	18·9	18·6	263	31	17·0	16·3	263						18	7·8	6·4	218	23	8·6	7·0	232
9·0 ,,	26	21·4	20·5	255	1	20·1	20·1	285	28	22·7	22·1	257						12	12·0	9.6	222	19	12·7	11·0	230

Station	GADAG				GANNAVARAM												GAUHATI							
Time in I. S. T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·8	3·6	103	31	2·1	1·9	033	31	2·4	2·1	095	31	1·6	1·1	076	31	0·2	0·1	156	31	1·1	0·6	001
0·15 a. g.	31	8·5	6·2	093	30	4·0	3·4	063	31	3·8	3·4	095	31	5·0	3·8	106	31	1·6	0·8	087	31	1·8	1·2	017
0·3 a. m. s. l.					29	4·1	3·7	081	31	4·0	3·7	089	31	5·7	4·8	099	31	1·7	0·9	081	31	2·1	1·1	055
0·6 ,,					29	5·1	4·7	084	31	4·0	3·5	069	29	5·7	5·5	083	31	2·2	1·4	076	31	2·4	1·5	090
0·9 ,,	31	8·9	6·8	091	28	5·1	4·7	060	31	4·5	3·9	058	29	5·5	5·1	064	31	2·4	1·5	074	31	2·6	2·0	097
1·5 ,,	31	7·1	6·5	082	26	5·8	4·8	069	29	5·7	4·7	050	28	5·9	5·0	055	31	2·7	1·3	087	30	2·9	1·5	124
2·1 ,,	31	6·5	6·0	080	25	5·6	4·1	074	29	6·1	4·4	055	28	5·1	4·1	066	31	3·4	0·8	096	30	3·3	0·7	156
3·0 ,,	31	4·7	3·2	094	23	4·4	2·7	085	26	5·3	2·6	057	27	4·5	1·9	068	31	8·2	6.6	285	29	8·4	6·5	275
3·6 ,,	30	4·0	2·2	128	22	3·5	1·4	108	26	4·2	0·9	063	19	3·9	0·6	106	31	14·9	14.2	280	28	15·7	14·9	278
4·5 ,,	20	4·1	0·5	175	20	3·8	1·3	174	24	3·8	0·7	268	12	3·0	0·3	188	30	20·4	20.1	280	24	19·6	19·1	278
5·4 ,,	7	5·6	3·8	249	14	5·1	3·1	202	23	4·1	1·9	252	11	4·4	2·1	193	30	23·0	22.8	278	20	22·9	22·7	278
6·0 ,,	4	4·6	8·9	185	10	6·7	6·2	227	23	5·9	4·0	229	8	7·5	4.0	214	30	24·7	22·5	280	19	25·4	25·2	275
7·2 ,,	1	5·7	5·7	220	8	8·1	6·9	238	21	8·1	6·3	226	4	7·5	7·1	226	28	29·7	29·2	276	12	28·8	28·3	274
9·0 ,,					4	12·8	11·3	222	12	13·5	11·7	253					24	36·2	35·6	275	2	41·7	41·7	280

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Station	GAUHATI								GAYA												GOPALPUR			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·3	0·1	012	31	0·5	0·3	167	31	1·6	1·5	190	31	2·8	2·7	300	31	1·4	1·1	212	31	2·1	2·0	331
0·15 a. g.	31	2·0	1·1	040	31	1·6	0.6	168	31	4·3	3·7	255	31	4·7	4·4	295	31	5·3	4·4	297	29	4·6	4·1	345
0·3 a. m. s. l.	31	2·0	0·9	035	31	1·7	0·7	084	31	4·6	3·9	280	31	4·8	4·6	293	31	5·5	4·6	301	29	3·9	2·5	028
0·6 ,,	31	1·8	0·9	036	31	1·9	0·9	079	31	5·6	5·1	301	31	5·3	5·1	289	31	6·4	6·0	295	28	4·3	3·1	030
0·9 ,,	31	1·9	0·1	032	31	1·7	0·5	048	31	6·8	6·5	301	31	6·6	6·4	291	31	7·3	6·8	292	28	5·2	4·1	033
1·5 ,,	31	2·7	1·3	228	30	2·2	0·5	260	31	9·9	9·6	301	31	10·6	10·4	300	31	10·9	10·3	299	27	5·9	4·5	036
2·1 ,,	31	2·9	2·0	233	28	3·2	0·9	321	28	12·2	11·8	299	31	12·8	12·5	300	23	11·5	10·9	298	25	4·7	3·3	009
3·0 ,,	31	7·6	6·4	279	20	9·9	8·3	278	16	11·3	10·9	298	30	13·4	13·1	297	8	11·4	10·5	294	24	5·1	3·2	344
3·6 ,,	30	12·8	11·3	280	8	13·5	11·5	280	9	11·4	10·4	293	28	14·4	14·2	290					23	4·8	2·8	312
4·5 ,,	27	18·7	18·4	276	1	10·3	10·3	290	6	13·5	11·7	284	24	16·0	15·2	284					21	6·3	4·5	285
5·4 ,,	24	20·8	20·1	278					4	18·3	17·1	266	14	19·9	19·1	274					17	7·7	5·9	262
6·0 ,,	24	23·7	23·5	279					2	25·7	24·2	249	8	22·0	21·4	266					13	9·6	7·5	253
7·2 ,,	24	27·4	26·4	278									2	26·0	25·9	262					5	11·4	9·5	255
9·0 ,,	22	33·2	32·3	274									1	37·0	37·0	245								

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I. S. T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·7	2·1	107	31	1·5	1·2	323	31	0·8	0·4	251	31	1·3	1·1	270	30	0·3	0·1	225	31	0.7	0·5	344
0·15 a. g.	31	4·2	3·0	276	29	3·2	0·7	005	31	4·0	2·8	307	31	3·4	3·1	274	30	3·6	1·4	003	31	2·9	2·2	011
0·3 a. m. s. l.	31	4·2	3·3	065	28	2·9	1·1	062	31	4·5	3·1	307	31	3·8	3·7	275	30	2·9	1·1	339	31	2·5	1·7	007
0·6 ,,	31	3·9	2·9	035	28	3·0	1·9	043	31	4·8	3·1	302	31	4·8	4·5	288	30	3·9	1·8	350	31	3·3	2·2	009
0·9 ,,	31	4·8	3·1	010	27	4·2	3·1	021	31	5·5	3·9	303	31	5·9	5·5	295	30	3·9	1·7	307	31	3·7	1·6	324
1·5 ,,	29	6·1	3·8	360	26	5·9	4·5	021	31	8·8	8·0	298	31	9·2	8·5	304	30	5·3	3·4	268	30	5·6	3·7	287
2·1 ,,	27	5·9	4·3	349	25	5·9	3·8	005	29	11·5	11·0	295	31	12·7	12·4	301	30	7·0	5·9	245	29	8·2	6·9	273
3·0 ,,	26	6·2	4·2	328	25	5·6	2·9	340	22	11·8	11·3	292	31	14·1	13·8	293	29	10·0	9·2	265	30	10·5	9·7	267
3·6 ,,	24	6·8	4·9	314	10	5·8	3·2	221	14	11·0	10·4	285	31	14·7	14·4	291	29	11·4	11·0	263	30	12·1	11·3	264
4·5 ,,	24	7·0	5·3	291	3	4·1	3·5	191	11	14·5	13·0	279	30	16·7	16·0	285	28	13·5	12·9	263	30	14·6	13·9	263
5·4 ,,	23	8·7	6·1	264	1	11·3	11·3	180	6	17·7	16·0	262	27	18·7	18·1	276	25	16·1	15·1	262	29	17·8	16·9	260
6·0 ,,	17	9·7	9·1	269					3	20·4	17·9	249	28	21·0	20·3	271	24	18·4	17·5	259	28	20·1	19·1	258
7·2 ,,	12	11·5	10·7	257									18	26·0	25·3	266	20	28·2	22·9	261	21	24·3	23·5	259
9·0 ,,	5	17·2	16·9	248									8	29·8	29·6	259	7	25·9	25·5	257	9	28·9	25·7	256

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Station	GWALIOR				IMPHAL												JABALPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·1	0·1	135	31	0·1	0·1	315	31	1·1	1·0	227	31	0·3	0·1	191	31	0·8	0·7	138	31	1·0	0·6	030
0·15 a. g.	31	3·9	1·6	044	15	0·9	0.3	121	31	2·2	2·0	222	31	1·1	0·2	151	31	3·7	2·3	138	31	3·0	1·9	029
0·3 a. m. s.l.	31	3·1	1·3	047																				
0·6 ,,	31	3·9	0·3	038													31	4·3	2·2	136	31	3·1	1·9	024
0·9 ,,	31	4·2	1·2	268	15	0·9	0·3	222	31	2·1	1·9	226	31	1·0	0·2	133	31	4·2	0·3	066	31	3·3	1·7	001
1·5 ,,	31	5·2	3.4	262	15	2·0	0·3	025	31	2·8	2·4	235	31	2·2	1·6	237	31	5·1	2·9	316	31	4·5	2·8	334
2·1 ,,	31	7·6	6·6	264	13	4·0	2·2	244	31	4·7	4·0	259	31	4·2	3·2	245	31	6·4	4·7	301	31	5·9	4·3	314
3·0 ,,	31	10·0	8·9	257	11	9·5	9·1	282	29	11·5	11·1	267	29	8·3	7·4	270	31	6·8	5·0	281	30	6·9	5·5	275
3·6 ,,	13	10·0	9·4	264	9	16·6	16·2	283	22	16·3	16·0	275	19	11·5	11·2	272	30	8·0	6·6	267	30	9·1	7·2	271
4·5 ,,					4	17·3	16·2	280	21	19·8	19·6	279	5	9·1	7·8	265	27	9·5	8·1	265	30	12·0	10·6	266
5·4 ,,					1	23·2	23·2	295	13	24·0	23·8	278	2	10·3	10·0	303	22	12·8	11·3	252	30	15·5	14·1	260
6·0 ,,									10	24·8	24·0	275					19	15·1	13·4	254	27	17·7	16·4	256
7·2 ,,									8	28·0	27·6	271					9	15·6	14·6	246	22	20·8	20·1	251
9·0 ,,									3	26·2	26·1	256					1	16·5	16·5	255	8	24·8	23·3	251

Station	JABALPUR				JAGDALPUR												JAIPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·7	0 4	112	31	CALM			31	1·3	0·8	045	31	0·3	0·1	357	31	1·5	1·3	063	31	1·6	0·3	212
0·15 a. g.	31	4·4	2·9	069	31	2·8	2·1	037	31	4·2	2·9	030	31	5·1	4·1	055	31	4·7	2·5	073	31	2·9	0·7	352
0·3 a. m. s.l.																								
0·6 ,,	31	4·4	2·8	063	31	1·2	0·8	029	31	2·8	2·0	030	31	2·9	2·2	059	31	4·3	1·9	078	31	2·8	0·8	356
0·9 ,,	31	3·9	1·9	056	31	4·3	3·4	059	31	4·6	3·3	030	31	5·3	4·3	057	31	3·8	0·9	170	31	3·0	0·8	017
1·5 ,,	31	4·5	2·3	301	31	5·5	4·1	049	31	3·8	2·4	044	31	3·9	2·5	058	31	3·8	2·6	259	31	3·9	1·6	287
2·1 ,,	31	5·4	3·4	283	30	4·6	2·6	039	29	4·0	2·1	028	31	4·1	1·3	056	28	5·9	5·1	259	28	6·3	4·9	256
3·0 ,,	31	7·1	5·1	276	30	4·7	1·1	023	29	5·3	1·6	354	28	4·6	0·6	359	27	8·9	8·4	262	27	11·1	10·0	251
3 6 ,,	25	8·4	7·3	273	28	4·3	0·8	297	28	5·5	2·5	294	17	5·1	3·3	299	13	11·0	10·2	263	26	13·2	12·4	257
4·5 ,,	6	10·7	10·0	257	27	5·3	2·3	267	26	6·4	4·4	263	1	10·3	10·3	215	2	12·1	7·1	269	21	16·5	16·0	257
5 4 ,,					22	7·4	5·3	244	23	8·9	7·6	259									20	19 4	18·8	255
6·0 ,,					19	9·3	8·0	252	22	10·0	8·5	255									19	21·4	20·6	255
7·2 ,,					2	16·2	16·0	231	11	14·4	13·1	254									10	22·0	21·8	261
9·0 ,,																					4	32·6	31·7	262

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Station	JAIPUR				JAMSHEDPUR								JHARSUGUDA											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·0	1·5	059	31	1·5	1·3	293	31	1·2	0·9	325	31	1·7	1·6	023	31	1·1	0·3	239	31	1·1	0·4	056
0·15 a. g. .	30	4·8	2·7	087	31	3·8	3·2	310	31	1·5	1·5	334	31	4·3	3·9	031	31	2·0	0·2	260	31	3·7	0·4	123
0·3 a. m. s. l. .					31	3·9	3·2	318	31	2·1	1·5	333	31	4·2	3·9	029	31	2·3	0·4	237	31	1·8	0·9	100
0·6 ,, .	30	4·9	2·7	086	31	4·1	3·0	327	31	2·9	2·4	324	30	3·8	2·1	019	31	2·1	1·0	310	31	3·7	0·7	305
0·9 ,, .	30	3·7	1·7	129	31	5·1	4·2	320	31	4·3	3·9	317	29	3·9	2·8	352	31	2·7	1·8	322	31	3·5	1·6	338
1·5 ,, .	30	3·5	1·9	245	31	7·7	7·1	320	31	8·3	7·9	310	28	6·1	4·7	348	31	5·4	4·3	333	30	4·3	3·5	342
2·1 ,, .	30	5·5	4·3	255	31	8·9	7·0	320	31	9·5	9·0	306	28	6·2	5·0	324	30	6·4	5·1	322	30	5·3	4·3	322
3·0 ,, .	26	10·0	9·5	253	30	10·2	9·4	299	30	10·9	10·3	300	28	7·2	6·0	302	28	7·2	6·0	302	28	6·9	5·5	241
3·6 ,, .	20	12·1	11·4	250	28	11·3	10·6	292	27	11·3	10·7	290	26	8·2	6·3	299	28	8·6	7·0	291	25	8·4	6·5	285
4·5 ,, .	4	13·4	13·2	266	22	12·3	11·3	286	21	12·1	11·4	282	18	7·7	5·8	270	22	10·4	8·9	286	3	8·9	8·9	273
5·4 ,, .	1	14·4	14.4	270	15	13·6	13·0	278	13	14·2	13·6	283	4	8·7	8·5	242	11	15·7	14·8	278				
6·0 ,, .					2	17·2	16·7	260	11	15·7	15·3	281	1	14·9	14·9	210	6	16·5	14·6	267				
7·2 ,, .									1	23·7	23·7	284					5	24·0	23·3	252				
9·0 ,, .																	2	26·2	26·2	262				

Station	JODHPUR																MADRAS							
Time in I. S. T.	0530*				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·0	2·8	038	31	2.4	1·9	052	31	2·2	1·1	027	31	3·3	2·9	036	31	3·1	2·6	016	31	4·6	4·3	013
0·15 a. g. .	31	6·6	6·6	052	31	3·2	2·3	062	31	5·5	4·2	015	30	7·6	6·4	043	30	7·4	6·2	027	31	6·2	5·6	025
0·3 a. m. s. l. .	31	5·3	5·5	048	31	3·0	2·4	056	31	3·7	2·6	021	30	7·3	6·5	034	30	7·0	6·3	030	31	6·4	5·9	030
0·6 ,, .	31	4·6	4·6	046	31	3·3	1·7	070	31	4·0	2·1	024	30	7·1	5·3	052	30	6·6	6·0	047	31	6·2	5·8	040
0·9 ,, .	31	3·2	3·1	357	31	3·1	0·8	065	31	3·0	0·5	353	30	5·3	3·1	080	29	6·6	5·8	057	26	6·3	5·8	044
1·5 ,, .	31	3·6	1·9	259	31	4·1	1·9	227	31	3·5	1·2	273	30	4·4	1·8	188	28	6·8	6·3	068	17	7·6	6·8	065
2·1 ,, .	31	4·7	3·7	264	31	6·4	5·6	233	31	4·8	3·7	246	28	4·7	4·0	234	28	7·6	6·5	078	12	7·4	6·0	071
3·0 ,, .	31	7·8	7·5	245	31	10·5	9·4	237	31	9·1	8·3	243	23	7·8	6·7	245	28	6·8	5·1	082	9	5·8	4·6	082
3·6 ,, .	31	10·9	9·8	245	29	12·1	11·5	243	31	11·8	10·7	238	8	9·1	8·8	247	28	6·3	5·7	089	8	6·0	4·8	082
4·5 ,, .	31	14·5	13·4	240	28	16·9	15·0	246	31	15·3	14·4	240	5	14·2	13·5	252	28	6·4	5·1	104	7	6·8	5·4	072
5·4 ,, .	31	19·6	17·7	243	25	19·4	18·2	248	31	18·0	16·5	240	3	15·4	15·4	270	27	5·9	3·5	117	2	6·7	3·2	124
6·0 ,, .	31	21·1	20·4	245	23	22·2	9·6	249	31	19·2	18·7	242	1	25·2	25·2	265	27	5·6	3·5	128	1	5·7	5·7	175
7·2 ,, .	31	26·5	25·5	246	11	26·1	25·6	244	28	24·2	22·5	243					26	5·7	3·3	172	1	6·7	6·7	190
9·0 ,, .	31	27·4	27·2	243	1	26·7	26·7	240	27	28·1	27·5	239					27	7·9	5·3	202	1	10·8	10·8	165

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Station	MADRAS								MINICOY												MOHANBARI			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·8	4·0	025	31	2·7	2·2	007	31	1·7	1·4	025	31	2·2	1·7	011	31	2·1	1·6	040	31	0·1	0·1	112
0·15 a. g.	30	8·2	7·9	036	30	5·9	5·6	035	31	3·5	2·8	026	31	2·9	3·3	015	31	3·5	2·9	033	27	2·8	2·6	051
0·3 a. m. s. l.	30	7·4	7·1	035	30	6·7	6·4	040	31	3·5	2·8	030	31	3·8	3·1	020	31	3·7	3·2	032	27	2·7	2·5	047
0·6 ,,	30	6·5	6·0	038	29	7·0	6·6	045	31	3·6	2·9	323	31	4·1	3·2	025	31	3·7	3·0	040	27	1·8	1·6	036
0·9 ,,	30	7·2	6·5	046	28	6·9	6·4	050	31	4·4	3·3	067	30	4·0	2·8	039	31	3·9	3·0	057	27	1·7	1·4	043
1·5 ,,	29	6·9	5·9	061	25	7·6	6·2	067	31	5·6	4·2	083	28	4·9	2·4	063	30	4·9	3·2	081	27	1·6	0·8	074
2·1 ,,	29	7·7	6·2	069	24	8·1	6·4	076	30	5·9	4·4	087	28	6·5	3·9	085	29	6·8	4·2	092	27	2·2	0·5	144
3·0 ,,	30	6·6	5·2	076	21	6·7	5·5	088	29	6·4	5·0	090	27	6·6	4·8	082	27	6·0	4·7	082	26	2·5	0·5	085
3·6 ,,	30	6·2	4·8	098	10	5·0	3·7	075	27	6·2	4·4	088	26	7·3	5·3	089	22	5·7	4·8	086	20	5.6	4·0	273
4·5 ,,	31	5·1	4·0	261	4	6·9	6·1	119	27	6·6	5·1	100	22	7·1	5·4	092	13	5·3	4·0	106	15	12·4	11·6	279
5·4 ,,	31	5·0	3·3	104	2	5·7	5·0	154	25	7·1	5·3	095	19	7·2	4·8	091	5	6·6	6·1	091	10	17·5	17·4	276
6·0 ,,	31	4·9	2·1	124	2	8·0	7·7	162	22	6·6	4·1	103	16	7·4	4·5	089	1	5·1	5·1	070	3	17·7	17·5	275
7·2 ,,	31	6·3	3·3	173					20	7·4	1·5	153	14	7·9	0·7	080					1	27·8	27·8	280
9·0 ,,	24	9·6	5·4	216					15	9·8	7·3	181	9	8·9	3·8	177								

Station	MOHANBARI								NAGPUR															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·5	0·4	036	31	0·1	0.1	045	30	1·0	0·8	348	31	0·8	0·5	070	31	1·4	1·1	067	31	0·8	0·3	018
0·15 a. g.	31	1·8	1·5	029	31	2·3	2·1	043	30	4·7	4·0	063	31	1·6	0·6	093	31	3·4	2·6	063	31	4·3	3·0	096
0·3 a. m. s. l.	31	1·8	1·5	037	31	2·2	1·9	046																
0·6 ,,	31	1·5	0·9	063	31	1·8	1·5	050	30	4·1	3·2	078	31	2·3	1·2	107	31	3·3	2·5	063	31	4·1	2·9	096
0·9 ,,	31	1·5	0·7	070	31	1·8	1·4	055	30	4·1	2·5	100	30	3·1	1·3	098	31	3·1	1·9	064	31	3·8	2.5	085
1·5 ,,	30	1·6	0·5	181	31	1·8	0·5	118	30	4·9	1·7	042	30	4·3	2·2	021	31	4·1	2·0	017	31	4·0	1·9	038
2·1 ,,	29	2·6	1·8	181	31	2·2	1·4	238	30	5·5	1·9	350	28	4·7	1·7	335	31	4·9	2·7	350	30	4·4	1·7	325
3·0 ,,	27	2·8	1·3	193	27	2·6	0·9	238	30	5·7	2·7	280	29	6·0	2·8	276	31	6·0	2·7	282	29	5·3	2·6	258
3·6 ,,	25	5·9	4·1	259	15	5·1	3·3	277	30	6·4	4·0	267	28	7·1	3·8	262	31	6·1	4·2	259	18	6·7	4·4	265
4·5 ,,	22	12·5	12·1	267	4	13·9	13·1	274	30	8·1	6·2	269	28	9·0	7·4	251	31	8·8	7·1	258	8	10·2	9·6	244
5·4 ,,	16	16·8	16·1	258					30	10·7	8·1	247	28	11·4	10·2	248	31	10·9	9·9	252	1	11·3	11·3	255
6·0 ,,	16	20·8	18·9	253					30	12·1	11·2	255	28	13·4	12·5	251	31	13·3	11·8	253	1	14·4	14·4	255
7·2 ,,	9	28·2	27·2	277					30	16·1	15·3	247	27	17·5	16·8	248	31	16·8	15·7	248				
9·0 ,,									29	26·2	24·8	246	11	25·2	24·5	251	28	24·1	23·3	245				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10 —PAUSA 10, 1882 SAKA)

Station	NANPARA								NEW DELHI															
Time in I. S. T.	0530				1730				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·1	0·1	315	31	0·8	0·7	300	31	1.9	1·8	316	31	2·9	2·1	315	31	1·0	0·9	302	31	1·9	1·4	302
0·15 a. g.	25	3·2	2·9	315	27	3·4	3·1	290	31	6·2	5·9	330	31	4·4	3·3	319	31	4·9	4·0	323	31	6·3	4·7	322
0·3 a. m. s. l.	25	3·3	2·9	316	27	3·4	3·1	289	31	4·3	4·2	326	31	3·9	3·0	321	31	3·2	2·7	324	31	5·6	4·1	310
0·6 ,,	25	4·7	3·5	305	27	4·4	3·7	292	31	5·5	4·9	320	31	5·6	4·5	320	31	4·6	3·9	320	31	5·9	4·3	320
0·9 ,,	25	5·2	3·3	304	27	5·3	4·7	300	31	5·2	4·3	309	31	6·2	4·8	309	31	4·4	3·8	314	31	5·5	3·7	314
1·5 ,,	25	7·2	5·7	300	27	7·9	6·8	305	30	5·7	5·0	296	31	5·8	4·4	284	31	5·0	3·9	292	30	5·3	4·0	294
2·1 ,,	22	7·3	6·5	299	27	8·7	8·4	302	30	6·1	5·5	282	31	6·3	4·9	264	31	6·3	4·6	275	30	6·2	4·8	277
3·0 ,,	21	7·9	7·5	295	27	10·5	10·1	298	31	9·4	8·0	262	29	8·8	7·3	249	31	9·2	7·7	260	27	7·6	6·9	271
3·6 ,,	20	10·2	9·6	290	27	11·6	11·4	295	31	12·1	11·3	255	28	11·1	9·9	254	31	11·2	10·3	256	7	7·9	7·8	261
4·5 ,,	19	13·8	13·3	283	26	15·0	14·9	290	31	15·5	14·2	255	25	14·9	14·6	259	31	15·0	14·0	258				
5·4 ,,	10	15·1	14·4	276	26	19·0	18·8	285	31	19·8	17·9	255	23	20·5	19·5	261	31	19·1	17·7	257				
6·0 ,,	7	19·6	19·0	274	26	21·1	20.5	283	31	22·6	20·9	254	22	21·9	20·8	261	31	21·0	19·7	255				
7·2 ,,	2	28.5	28·5	270	21	27·6	27·3	275	31	28·1	27·0	257	12	27·8	26·6	253	31	26.2	25·0	256				
9·0 ,,					11	34·5	34·0	266	30	37·1	35·9	254	8	36·8	34·2	240	30	33·6	32·4	253				

Station	POONA												PORT BLAIR											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·1	0·1	247	31	1·2	0·5	065	31	0·1	0·1	090	31	2·5	1·9	072	31	3·5	2·9	060	31	3·4	2·6	059
0·15 a. g.	31	3·1	2·2	102	31	2·6	1·2	072	31	3·4	0·4	130	31	6·1	5·1	062	31	6·3	5·5	060	31	6·7	5·7	058
0·3 a. m. s. l.													31	6·1	5·1	061	31	6·5	5·6	062	31	6·8	5·8	059
0·6 ,,	31	1·4	0·6	197	31	2·1	1·0	065	31	2·0	0·5	222	31	6·8	5·5	067	31	6·3	5·1	070	31	7·0	6·1	056
0·9 ,,	31	4·9	4·0	251	31	3·1	1·3	077	31	4·2	1·6	091	31	6·7	5·6	080	30	6·2	4·9	077	31	6·4	5·0	065
1·5 ,,	31	5·5	4·8	112	31	3·1	1·6	112	31	5·0	3·9	105	31	6·6	5·5	089	26	6·0	4·4	092	31	5·8	4·0	083
2·1 ,,	31	3·9	2·7	127	30	2·9	1·6	124	31	5·0	4·0	110	31	5·9	4·9	084	20	5·3	3·8	086	31	5·2	3·8	082
3·0 ,,	31	4·2	2·4	216	29	4·2	1·6	204	30	4·5	2·7	198	31	6·9	4·8	075	18	6·1	5·1	070	31	6·6	5·0	080
3·6 ,,	26	5·8	3·7	218	27	5·3	3·1	220	27	5·5	4·2	216	29	7·6	6·3	077	14	6·1	5·7	072	29	7·7	6·5	084
4·5 ,,	11	6·6	3·9	232	25	6·8	5·6	230	11	9·0	8·1	228	28	7·8	6·1	076	12	7·0	6.8	072	29	8·4	7·6	078
5·4 ,,	1	9·3	9·3	050	24	9·2	7·8	242	4	10·3	10·3	223	27	6·7	6·1	086	11	6·9	6·7	078	27	8·6	7·8	090
6·0 ,,					22	11·7	10·1	244					25	6·7	6·2	092	11	7·5	7·1	091	25	8·2	7·3	092
7·2 ,,					15	16·3	15·6	247					25	7.3	6·2	113	7	10·2	9·9	107	24	7·6	6·0	102
9·0 ,,					6	15·4	15·1	234					21	6·1	4·3	226	5	6·6	6·5	133	21	7·6	5·4	136

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9·0 Km. above mean sea level

December 1960 (Agrahayana 10— Pausa 10, 1882 Saka)

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·0	2·5	056	31	0·7	0·7	046	31	1·2	0·8	044	31	1·9	1·3	113	31	0·1	0·1	090	31	0·8	0·8	225
0·15 a. g.	31	5·5	4·9	061	31	3·1	2·5	054	31	2·8	2·2	034	31	4·5	3·0	096	27	2·8	1·2	329	31	3·6	3·5	242
0·3 a. m. s. l.	31	5·6	5·0	061													27	3·1	1·5	314	31	3·4	3·2	246
0·6 ,,	31	5·6	4·8	067	31	3·0	2·2	066	31	2·9	2·2	030	31	4·2	2·5	088	27	2·9	0·2	241	31	2·8	2·3	255
0·9 ,,	29	5·3	4·6	078	31	3·3	2·1	061	31	2·9	2·0	029	31	3·8	1·9	064	27	3·2	1·2	121	31	2·6	1·4	280
1·5 ,,	24	4·2	3·0	102	30	4·8	3·2	017	31	4·4	2·8	003	30	4·3	3·0	016	27	4·5	1·3	120	31	4·7	2·2	234
2·1 ,,	16	4·4	3·3	080	31	5·1	2·4	342	30	4·6	3·3	340	29	4·7	2·8	354	27	8·1	4·4	297	31	8·2	6·3	305
3·0 ,,	13	4·2	3·8	069	29	5·1	2·2	306	29	5·3	3·7	301	28	5·4	3·1	296	27	13·6	13·4	285	27	14·2	14·0	287
3·6 ,,	8	4·8	4·6	066	28	6·0	3·0	266	29	7·1	5·1	292	22	5·3	3·6	278	18	14·3	14·2	285	23	14·4	13·9	285
4·5 ,,	3	5·5	4·3	041	22	7·7	5·5	274	29	9·2	7·4	266	4	7·9	7·6	267	7	11·0	10·8	281	13	13·6	13·4	286
5·4 ,,					10	9·6	7·3	272	25	12·0	10·8	263	2	11·1	10·9	262	2	9·5	9·5	275	7	16·3	16·0	272
6·0 ,,					7	11·2	8·6	248	23	13.8	12·9	258	1	11·3	11·3	215	1	18·5	18·5	255	6	18·8	18·2	264
7·2 ,,					2	16·5	16·2	222	15	18·9	18·1	247	1	18·0	18·0	250					3	26·9	25·4	263
9·0 ,,									5	25·2	24·8	245												

Station	SANTA CRUZ																TIRUCHIRAPALLI							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	1·3	065	31	1·9	1·7	085	31	3·6	3·2	313	31	1·6	1·3	027	31	2·8	2·5	011	31	3·7	3·1	067
0·15 a. g.	31	5·8	4·5	056	31	2·7	2·0	084	31	5·5	4·7	314	31	5·1	4·3	003	31	6·6	6·2	022	31	5·6	5·1	067
0·3 a. m. s. l.	31	4·8	3·6	068	31	3·2	2·5	095	31	4·6	3·4	323	31	5·2	4·3	359	31	7·3	6·9	028	31	5·9	5·5	063
0·6 ,,	31	3·8	2·4	095	31	3·8	2·6	115	31	3·1	0·8	350	31	4·0	3·0	008	31	7·6	6·9	039	31	6·5	6·1	055
0·9 ,,	31	3·8	2·6	108	31	3·7	2·4	123	31	2·8	0·5	073	31	3·4	2·1	036	31	7·2	6·6	046	31	6·8	6·4	048
1·5 ,,	31	3·8	2·8	136	31	3·5	2·1	151	31	4·1	1·7	095	31	4·3	3·2	107	30	6·9	5·5	057	31	7·6	6·6	043
2·1 ,,	31	4·6	3·4	169	31	4·5	2·5	173	31	4·6	2·0	141	30	4·3	2·9	127	28	6·8	5·9	070	26	7·4	6·0	059
3·0 ,,	31	5·7	3·4	218	31	5·1	3·2	208	30	4·6	2·6	205	30	4·6	2·8	195	27	7·2	6·6	082	23	7·5	6·6	079
3·6 ,,	31	6·7	4·8	230	30	6·3	3·9	220	30	5·6	3·7	220	23	6·0	4·7	223	22	7·9	7·5	085	20	7·3	6·6	073
4·5 ,,	31	8·5	6·7	239	30	7·8	6·0	246	30	7·7	6·5	235	13	6·8	5·8	220	20	7·2	6·7	098	17	7·9	6·5	086
5·4 ,,	31	10·3	8·4	240	30	9·3	7·5	230	30	10·1	9·1	236	7	10·0	9·7	230	15	6·6	5·6	092	15	6·5	5·0	095
6·0 ,,	31	11·5	10·5	243	30	11·8	10·1	234	30	12·3	10·9	240	5	10·8	8·9	230	11	6·0	3·8	105	12	6·0	5·3	038
7·2 ,,	31	15·2	14·8	236	29	14·2	13·1	240	30	15·2	14·2	246					3	3·2	2·6	070	7	6·4	4·9	107
9·0 ,,	26	24·9	24·2	240	21	19·2	17·9	240	26	23·7	22·8	241									2	8·0	3·9	065

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Station	TIRUCHIRAPALLI				TRIVANDRUM																UDAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·2	2·8	053	31	1·4	0.7	038	31	1·4	0·4	012	31	2.5	2·0	246	31	1·3	0·5	359	31	0·1	0·1	317
0·15 a. g.	31	7·5	7·1	050	30	2·7	1·1	022	31	2·2	0·7	326	31	3·9	2·6	249	30	3·2	1·9	288	31	2·5	1·6	002
0·3 a. m. s. l.	31	8·4	7·9	050	30	2·7	1·0	026	31	2·1	0·6	325	31	3·7	2·4	249	30	3·0	1·6	302				
0·6 ,,	31	9·1	8·4	048	30	2·5	0·9	093	30	2·2	1·0	023	31	2·8	0·4	355	30	2·9	1·8	347				
0·9 ,,	30	8·3	8·0	045	30	2·7	1·5	084	27	2·9	1·9	048	31	3·7	2·6	044	30	3·6	2·7	043	31	3·2	1·3	051
1·5 ,,	30	7·3	6·2	053	30	4·5	2·8	079	24	3·9	2·6	066	31	5·3	4·5	053	30	4·8	3·9	057	31	4·5	2·8	223
2·1 ,,	28	7·2	4·2	068	28	5·7	4·0	079	21	5·6	4·0	072	31	6·7	4·9	066	29	6·5	4·9	079	31	6·3	4·8	256
3·0 ,,	27	8·0	7·4	084	27	6·0	4·8	092	17	7·5	5·9	081	31	6·9	5·0	031	27	6.3	5·6	094	30	10·4	9·3	270
3·6 ,,	16	5·9	5·3	085	27	6·3	5·1	094	16	7·9	6·5	089	31	6·1	4·7	081	25	6·3	5·5	089	25	13·0	11·5	269
4·5 ,,	4	4·5	2·8	119	27	7·2	6·1	093	14	9·2	8·6	094	30	7·3	5·7	079	19	7·4	6·9	098	12	12·5	11·7	271
5·4 ,,	1	7·2	7·2	125	27	7·9	6·5	105	13	8·1	7·1	091	30	8·1	6·0	094	16	6·6	5·9	104	2	10·8	10·7	258
6·0 ,,					27	7·3	4·9	106	12	7·2	6·0	087	30	7·2	5·7	097	13	6·9	4·4	106	1	13·9	13·9	260
7·2 ,,					27	7·2	3·1	127	10	6·7	3·1	101	30	7·3	2·9	107	4	6·5	5.7	159	1	47·8	47·8	255
9·0 ,,					27	8·5	4·8	196	6	6·3	2·5	213	27	7·8	4·6	183								

Station	UDAIPUR								VENGURLA												VERAVAL			
Time in I.S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·6	0·1	063	31	0·1	0·1	315	31	0·2	0·2	014	31	1·7	1·6	273	31	0·4	0·4	003	31	3·4	3·2	030
0·15 a. g.	31	2·6	0·4	119	31	2·6	1·3	012	31	4·1	3·2	065	31	3·8	3·3	279	31	5·1	4·9	360	31	4·9	3·9	049
0·3 a. m. s. l.									31	4·8	3·4	077	31	3·2	2·7	285	31	5·9	5·3	002	31	4·1	2·6	304
									31	5·5	3·8	087												
0·6 ,,													31	2·5	1·4	005	31	5·5	4·2	024	31	3·1	0·5	129
0·9 ,,	31	2·7	0·3	112	31	3·8	1·3	058	31	6·1	4·6	093	31	3·6	2·5	052	31	6·0	4·3	066	31	2·7	1·1	159
1·5 ,,	31	3·0	1·3	283	31	4·5	1·6	174	31	4·9	4·1	095	31	6·2	5·5	073	31	7·3	6·4	092	31	4·1	2·9	221
2·1 ,,	31	5·2	4·1	273	31	5·9	3·8	241	31	5·1	4·0	110	31	7·1	5·8	084	31	6·1	5·3	099	31	4·7	3·9	234
3·0 ,,	30	9·7	8·1	270	31	8·7	7·6	269	31	4·5	2·7	148	31	4·3	2·1	105	29	4·6	3·0	134	31	6·0	5·4	241
3·6 ,,	30	11·8	10·6	271	29	10·1	9·1	268	15	4·4	3·0	206	31	3·8	1·8	151	10	3·8	2·7	180	31	6·2	5·3	249
4·5 ,,	27	14·8	13·4	271	15	12·3	11·2	271	1	5·1	5·1	320	31	5·1	2·7	179					31	8·0	6·0	242
5.4 ,,	25	18·4	16·7	272	6	16·9	16·4	271					31	6·1	3·8	220					31	9·6	9·4	255
6·0 ,,	24	20·6	18·6	271	3	16·1	15·3	274					31	7·5	5·1	225					31	12·5	12·0	254
7·2 ,,	18	25·0	23·0	269	1	9·3	9·3	270					24	9·3	7·6	244					31	15·4	15·1	156
9·0 ,,	9	23·1	21·4	299									3	12·9	10·1	236					27	19·1	18·2	249

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Station	VERAVAL												VISAKHAPATNAM											
Time in I.S.T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·1	1·9	031	31	4·6	2·8	276	31	2·4	1·9	345	31	1·9	1·9	027	31	1·9	1·7	056	31	1·9	1·8	040
0·15 a. g.	31	3·3	2·4	049	31	4·2	2·7	280	31	5·9	4·0	356	31	9·8	9·1	019	30	2·3	1·5	042	31	8·7	8·3	034
0·3 a. m. s. l.	31	3·6	2·7	062	31	3·7	2·0	303	31	5·7	3·8	002	31	9·0	8·1	026	30	2·6	2·0	055	31	8·4	8·2	037
0·6 ,,	31	3·9	2·0	082	31	2·7	1·3	349	31	4·6	2·3	007	31	5·7	5·1	057	30	3·9	3·4	056	31	6·3	5·7	063
0·9 ,,	31	3·7	1·1	127	31	2·5	1·2	007	31	3·8	1·2	251	31	6·0	5·1	055	29	5·5	4·9	058	31	6·5	5·3	034
1·5 ,,	31	4·2	2·4	197	31	2·5	1·6	269	31	4·8	1·6	135	31	6·0	4·7	062	26	6·1	5·3	055	31	7·2	5·1	035
2·1 ,,	31	5·5	4·3	205	31	3·5	1·9	235	31	6·0	3·4	197	31	5·8	3·6	061	24	5·7	4·3	051	31	5·4	3·7	024
3·0 ,,	31	8·0	6·8	219	31	5·6	4·8	245	31	7·8	5·8	223	31	5·8	1·7	074	23	5·0	2·6	037	31	5·8	2·0	015
3·6 ,,	31	9·6	8·7	228	31	7·5	6·6	248	22	10·4	8·7	242	31	5·5	1·2	032	23	4·5	1·1	011	30	6·1	0·6	287
4·5 ,,	30	11·5	10·8	233	31	8·7	8·4	249	14	9·8	8·7	239	31	4·8	1·5	262	22	4·5	1·5	269	30	5·9	1·5	260
5·4 ,,	27	13·7	13·0	245	31	10·9	10·0	258	12	13·9	11·9	245	31	6·5	3·5	233	19	6·0	2·5	227	30	6·8	4·1	237
6·0 ,,	27	15·5	14·8	245	31	12·6	11·2	255	8	13·4	12·4	241	31	7·5	4·4	234	18	6·5	4·2	239	30	7·9	5·4	234
7·2 ,,	21	16·5	15·4	247	30	15·4	14·3	250	1	16·0	16·0	240	31	10·2	8·8	233	15	9·5	7·9	232	30	10·9	9·3	232
9·0 ,,	15	21·0	19·7	257	26	21·0	19·9	247					30	15·3	13·6	241	10	12·2	10·4	232	30	15·3	13·5	240

Station	VISAKHAPATNAM			
Time in I.S.T.	2330			
Ht. in Km.	n	V	v	D
Surface	31	0·7	0·4	040
0·15 a.g.	30	2·4	1·9	061
0·3 a. m. s. l.	30	3·3	2·9	071
0·6 ,,	30	4·8	4·4	070
0·9 ,,	28	5·3	4·8	055
1·5 ,,	24	6·4	5·5	043
2·1 ,,	24	6·1	4·5	050
3·0 ,,	21	5·0	2·6	043
3·6 ,,	13	4·6	1·7	067
4·5 ,,	9	4·2	1·2	265
5·4 ,,	8	4·4	2·4	250
6·0 ,,	8	5·4	3·8	235
7·2 ,,	4	9·9	9·3	237
9·0 ,,				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Ht. in Km.	n	V	v	D
		AHMDABAD		
		1730 hrs.		
10·5	2	29·7	29·1	551
		ANANTAPUR		
		0530 hrs.		
10·5	9	15·4	12·1	212
12·0	3	18·7	15·1	237
		1730 hrs.		
10·5	23	14·9	13·0	221
12·0	22	17·0	13·3	219
14·1	19	17·4	14·2	225
16·2	15	10·5	8·4	214
18·0	11	6·2	3·6	196
21·0	5	9·7	8·1	110
		BAIRAGARH		
		0530 hrs.		
10·5	3	52·9	52·7	233
		BAJPE		
		1730 hrs.		
10·5	11	15·7	11·9	231
12·0	6	15·6	11·6	215
14·1	3	18·2	17·2	170
16·2	1	11·3	11·3	220
18·0	1	6·2	6·2	030
21·0	1	17·0	17·0	090
		BAMRAULI		
		0530 hrs.*		
10·5	19	36·5	33·8	248
12·0	9	39·8	38·9	244
14·1	1	38·6	38·6	230
		1730 hrs.*		
10·5	20	39·7	38·7	250
12·0	11	44·2	42·9	249
14·1	4	42·5	41·8	250
16·2	1	24·2	24·2	240
		BANGALORE		
		0530 hrs.		
10·5	4	13·1	11·4	222
12·0	3	15·3	12·1	210

Ht. in Km.	n	V	v	D
		BANGALORE		
		1730 hrs.		
10·5	14	12·1	9·4	211
12·0	11	12·5	8·2	208
14·1	8	10·0	6·4	217
16·2	7	7·8	5·8	233
18·0	3	8·4	6·1	138
21·0	1	11·8	11·8	085
24·0	1	6·7	6·7	105
		BEGUMPET		
		0530 hrs.		
10·5	13	20·9	19·6	238
12.0	11	23·7	20·7	220
14·1	8	20·1	16·8	229
16·2	6	10·0	5·3	210
18·0	6	11·2	6·2	078
21·0	5	7·5	6·1	110
24·0	3	8·7	8·6	127
27·0	2	18·8	18·0	165
30·0	2	24·2	23·2	164
33·0	2	31·1	30·6	205
36·0	1	28·8	28·8	190
		1730 hrs.		
10·5	9	19·7	18·8	236
12·0	7	18·6	15·4	230
14·1	4	14·3	13·6	234
16·2	1	13·9	13·9	220
18·0	1	6·2	6·2	220
		BHUBANESHWAR		
		1730 hrs.		
10·5	1	20·1	20·1	220
12·0	1	27·2	27·2	210
		DEHRA DUN		
		0530 hrs.		
10·5	1	26·8	26·8	255
		1730 hrs.		
10·5	1	30·4	30·4	265
12·0	1	34·4	34·4	270
14·1	1	45·8	45·8	265

Ht. in Km.	n	V	v	D
		DUM DUM		
		0530 hrs.*		
10·5	24	24·5	23·0	254
12·0	19	25·6	24·4	256
14·1	8	28·2	26·6	252
16·2	2	25·2	25·1	254
18 0	1	21·1	21·1	240
		1730 hrs.*		
10·5	24	24·7	24·5	252
12·0	22	25·5	22·8	245
14·1	9	27·2	26·2	247
16·2	5	23·0	22·8	255
18·0	2	26·0	25·2	252
		GADAG		
		0530 hrs.		
10·5	2	11·0	11·0	192
12·0	2	17·2	17·0	186
14·1	1	4·1	4·1	260
		1730 hrs.		
10·5	13	16·5	15·7	220
12·0	9	17·5	17·1	223
14·1	1	21·6	21·6	210
16·2	1	18·5	18·5	210
		GANNAVARAM		
		0530 hrs.		
10·5	2	16·5	15·3	220
12·0	1	22·1	22·1	175
		1730 hrs.		
10·5	10	17·5	16·3	241
12·0	7	22·3	20·1	239
14·1	5	21·7	17·0	238
16·2	4	10·6	10·1	252
18·0	1	5·1	5·1	230
		GAUHATI		
		0530 hrs.*		
10·5	24	36·3	35·8	182
12·0	8	35·8	35·4	183
14·1	5	41·2	40·0	184

Ht. in Km.	n	V	v	D
		GAUHATI		
		1730 hrs.*		
10·5	12	41·7	41·2	275
12·0	6	38·0	37·7	274
14·1	2	44·2	44·2	271
		GOPALPUR		
		1730 hrs.		
10·5	2	18·8	18·2	233
12·0	1	22·7	22·7	219
		GWALIOR		
		0530 hrs.		
10·5	3	35·3	35·3	253
12·0	1	35·6	35·6	246
		1730 hrs.		
10·5	2	33·4	33·3	270
		IMPHAL		
		1730 hrs.		
10·5	1	31·4	31·4	260
12·0	1	29·8	29·8	265
14·1	1	28·3	28·3	285
		JABALPUR		
		1730 hrs.		
10·5	2	22·1	21·9	259
12·0	1	28·3	28·3	250
		JAIPUR		
		1730 Hrs.		
10·5	1	30·8	30·8	270
		JODHPUR		
		0530 Hrs.*		
10·5	25	37·9	26·3	242
12·0	13	37·5	36·8	243
14·1	4	30·6	29·8	248
16·2	3	22·8	22·1	254
		1730 hrs.*		
10·5	21	35·6	33·8	237
12·0	12	41·4	38·8	234
14·1	3	39·3	36·3	228

Ht. in Km.	n	V	v	D
		MADRAS		
		0530 hrs.*		
10·5	23	10·8	8·3	212
12·0	22	14·0	9·5	219
14·1	14	15·4	9·7	228
16·2	6	7·8	4·8	262
		1130 hrs.		
10·5	1	6·2	6·2	155
12·0	1	6·2	6·2	150
14·1	1	10·8	10·8	140
		1730 hrs.*		
10·5	21	12·1	9·3	205
12·0	18	16·2	10·9	215
14·1	14	17·5	10·8	208
16·2	8	11·1	7·3	219
18·0	1	11·8	11·8	270
		MINICOY		
		0530 hrs.		
10·5	12	11·0	7·3	185
12·0	6	8·9	3·0	162
14·1	2	6·2	4·6	223
		1730 hrs.		
10·5	4	9·0	8·5	161
12·0	4	7·6	5·8	251
14·1	1	4·1	4·1	155
		NAGPUR		
		0530 hrs.*		
10·5	27	30·1	29·1	240
12·0	23	33·6	31·4	236
14·1	13	25·7	25·1	244
16·2	9	12·6	10·0	240
18.0	3	15·4	11·6	252
21·0	2	9·8	6·1	250
		1130 hrs.		
10·5	5	29·8	29·0	246
12·0	1	23·2	23·2	245
		1730 hrs.*		
10·5	26	29·6	28·0	241
12·0	19	34·7	32·8	233
14·1	14	26·4	26·2	237
16·2	10	23·8	22·7	245
18·0	6	13·8	12·2	249
21·0	3	25·9	23·8	261

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Ht. in Km.	n	V	v	D
	NANPARA			
	1730 hrs.			
10·5	6	41·8	40·6	262
12·0	4	44·0	43·2	460
	NEW DELHI			
	0530 hrs.*			
10·5	26	40·1	37·8	252
12·0	16	41·3	39·4	251
14·1	4	34·3	34·0	250
16·2	1	12·4	12·4	245
	1130 hrs.			
10.5	3	36·9	36·2	257
12·0	1	58·1	58·1	255
14·1	1	79·7	79·7	240
	1730 hrs.*			
10·5	27	42·8	41·1	250
12·0	16	44·0	42·8	246
14·1	6	37·4	37·0	255
16·2	2	38.0	36·9	256
18·0	1	30·3	30·3	255
	POONA			
	1730 Hrs.			
10·5	2	16·2	16·2	239
12·0	2	21·9	19·6	248
14·1	1	19·0	19·0	235
	PORT BLAIR			
	0530 Hrs.*			
10·5	15	8·6	4·9	132
12·0	11	9·2	3·6	128
14·1	7	12·0	6·1	153
16·2	4	12·9	11·2	123
18·0	2	14·9	7·2	178
	1130 Hrs.			
10·5	2	5·1	3·7	126
	1730 Hrs.*			
10·5	16	8·9	5·3	161
12·0	10	11·1	5·3	197
14·1	6	9·3	6·0	190
16·2	2	12·1	8·7	114
18·0	1	18·0	18·0	080

Ht. in Km.	n	V	v	D
	RAIPUR			
	1730 Hrs.			
10·5	2	32·4	31·0	254
	SANTA CRUZ			
	0530 Hrs.*			
10·5	21	29·8	29·3	235
12·0	11	29·5	29·0	230
14·1	2	20·1	19·9	219
	1130 Hrs.			
10·5	10	23·3	22·9	236
	1730 Hrs.*			
10·5	23	30·4	29·6	228
12·0	14	33·7	32·8	225
14·1	6	30·8	29·6	238
16·2	3	26·8	26·8	248
18·0	2	26·5	25·9	251
21·0	1	17·0	17·0	205
24·0	1	3·6	3·6	165
	TRIVANDRUM			
	0530 Hrs.*			
10·5	26	11·1	6·4	179
12·0	24	12·9	7·2	179
14·1	16	14·8	5·8	203
16·2	8	9·1	4·7	127
18·0	2	9·3	3·3	107
	1130 Hrs.			
10·5	5	9·0	5·7	236
12·0	4	10·5	6·5	220
14·1	4	12·4	5·5	213
16·2	2	8·0	8·0	210
18·0	1	4·1	4·1	335
	1730 Hrs.*			
10·5	25	12·3	7·7	191
12·0	21	13·9	7·2	176
14·1	17	14·7	6·2	200
16·2	11	13·1	6·2	169
18·0	7	9·3	4·7	110
21·0	1	20·6	20·6	095
	UDAIPUR			
	1730 Hrs.			
10·5	3	28·3	26·6	269
12·0	2	36·0	34·4	269

Ht. in Km.	n	V	v	D
	VERAVAL			
	0530 Hrs.*			
10·5	20	22·5	21·7	242
12·0	10	23·2	22·7	235
14·1	5	19·1	18·8	236
16·2	2	19·6	19·3	245
	1130 Hrs.			
10·5	12	30·3	25·9	261
12·0	4	30·0	29·6	239
	1730 Hrs.*			
10·5	18	26·1	24·9	238
12·0	12	23·4	23·2	240
14·1	4	18·7	18·5	257
	VISAKHAPATNAM			
	0530 Hrs.*			
10·5	29	20·4	18·6	235
12·0	29	23·9	21·8	234
14·1	28	24·9	22·1	237
16·2	21	17·2	15·1	236
18·0	15	12·0	6·4	199
21·0	1	36·0	36·0	240
24·0	1	32·4	32·4	240
	1130 Hrs.			
10·5	9	17·5	15·4	234
12·0	7	19·6	17·8	240
14·1	5	18·4	14·1	242
16·2	5	15·4	11·8	233
18·0	4	8·2	5·1	237
21·0	3	11·8	11·6	087
24·0	1	27·2	27·2	280
27·0	1	68·9	68·9	260
	1730 Hrs.*			
10·5	28	19·1	17·5	234
12·0	27	23·2	20·2	224
14·1	24	26·9	23·6	228
16·2	19	15·6	12·0	226
18·0	7	9·9	5·5	213
21·0	2	7·2	1·0	123

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad	Clock type	1st October 1944	00 and 12	
2	Bombay	Clock type	7th September 1954	00 and 12	
3	Calcutta	Clock type	13th December 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November 1947.
4	Gauhati	Clock type	22nd July 1955	00 and 12	
5	Gwalior	Clock type	28th June 1960	00 and 12	
6	Jodhpur	Clock type	17th April 1946	00 and 12	
7	Madras	Fan type	29th June 1946	00 and 12	
8	Nagpur	Fan type	1st October 1946	00 and 12	
9	New Delhi	Clock type	3rd December 1943	00 and 12	
10	Port Blair	Fan type	4th December 1949	00 and 12	
11	Trivandrum	Fan type	1st July 1947	00 and 12	
12	Veraval	Fan type	3rd October 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From ascents at 00 hrs. G. M. T.

DECEMBER 1960 (AGARAHAYANA 10—PAUSA 10, 1882 SAKA)

Standard Pressure surface mbs.	ALLAHABAD Surf. Pr. (1004 mb.)						BOMBAY (1011 mb.)						CALCUTTA (1014 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	98	283·2	287	280	281·2	31	13	293·0	297	290	288·9	31	6	288·0	294	284	286·0
1000	29	134	...	...	...	...	31	109	...	...	...	...	31	130	...	...	...	...
900	29	1029	289·4	294	283	272·6	31	1028	294·5	297	288	278·9	31	1028	287·7	292	284	276·0
850	29	1514	287·6	291	284	267·4	31	1521	290·6	294	283	277·4	31	1511	286·6	291	283	270·3
800	29	2024	285·8	290	281	264·5	31	2036	287·3	290	280	273·1	31	2020	285·4	289	283	264·8
700	29	3133	279·9	285	276	256·9	31	3151	281·3	285	273	260·7	31	3132	280·6	285	267	258·8
600	29	4382	271·9	277	267	253·0	31	4406	273·8	278	268	255·2	31	4386	273·8	278	267	255·8
500	29	5812	262·8	267	258	...	31	5849	265·1	269	261	..	30	5827	265·5	272	262	...
400	28	7498	251·9	256	247	...	31	7548	254·1	263	249	...	30	7531	255·2	261	249	...
300	26	9563	237·9	244	233	...	27	9637	241·1	248	234	...	27	9628	241·9	249	234	...
250	26	10812	229·1	237	224	...	22	10905	232·5	237	227	...	22	10901	233·5	240	225	...
200	22	12247	220·2	229	213	...	20	12387	221·3	227	217	...	17	12376	222·4	233	210	...
175	21	13091	214·8	223	210	...	14	13256	215·9	220	211	...	14	13232	216·7	229	205	...
150	17	14091	210·0	218	204	...	13	14216	208·8	214	203	...	7	14184	210·1	215	207	...
125	16	15206	205·9	213	202	...	8	15394	204·5	210	196	...	...	...	...	...	...	...
100	14	16545	202·8	208	198	...	...	...	...	...	...	...	...	...	...	...	...	...
80	5	17903	202·6	205	200	...	...	...	...	...	...	...	...	...	...	...	...	...

Standard Pressure surface mbs.	GAUHATI (1010 mb.)						GWALIOR (992 mb.)						JODHPUR (990 mb.)					
Surface	31	49	288·2	291	285	287·5	31	203	282·6	291	279	279·3	31	218	287·0	290	283	273·5
1000	31	131	...	...	...	...	31	135	...	...	...	...	31	135	...	...	...	...
900	31	1027	287·0	290	285	282·6	31	1024	287·9	296	284	273·2	31	1033	289·5	293	283	268·9
850	31	1507	284·2	293	282	279·1	31	1507	285·5	292	281	270·1	31	1517	286·7	290	281	264·6
800	31	2010	280·7	284	278	274·9	31	2015	283·5	289	278	267·6	31	2025	283·3	288	279	262·2
700	31	3099	275·4	279	271	262·2	31	3118	277·5	282	273	261·5	31	3124	277·3	284	270	253·9
600	31	4333	270·4	279	262	250·0	29	4359	270·3	275	265	...	31	4363	270·3	279	263	...
500	30	5761	262·9	272	256	...	29	5781	261·0	266	255	...	31	5784	260·9	270	254	...
400	28	7447	252·3	259	244	...	29	7453	249·6	256	242	...	31	7456	249·7	260	243	...
300	22	9535	238·0	243	231	...	28	9508	236·8	245	230	...	28	9507	236·0	245	229	...
250	18	10791	229·2	236	224	...	26	10748	228·8	238	222	...	27	10746	228·0	238	221	...
200	17	12266	219·6	224	214	...	21	12209	219·3	225	215	...	16	12192	220·2	229	214	...
175	13	13121	213·5	217	211	...	20	13053	214·5	223	210	...	13	13036	215·8	224	210	...
150	12	14073	208·2	213	205	...	17	14004	210·3	220	203	...	8	14050	211·7	218	203	...
125	7	15206	205·9	211	199	...	10	15089	205·4	216	199	...	6	15158	207·4	214	203	...
100	7	16516	202·9	207	199	...	5	16352	200·0	203	193	...	5	16501	205·2	209	201	...
80	7	17839	202·7	211	195	...	...	...	...	...	...	...	...	...	...	...	...	...

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From ascents at 00 hrs. G. M. T.

December 1960 (Agrhayana 10—Pausa 10, 1882 Saka)

Standard pressure surface mbs.	MADRAS Surf. Pr. (1011 mb.)						NAGPUR (979 mb.)						NEW DELHI (992 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	15	295·2	298	293	293·6	30	311	287·2	293	283	283·7	31	210	281·7	289	278	277·7
1000	31	111	...	...	...	...	30	133	...	...	...	...	31	139	...	...	...	...
900	31	1022	290·9	294	287	286·9	30	1038	292·8	297	289	277·2	31	1029	288·6	294	285	268·4
850	31	1511	288·9	293	284	279·5	30	1528	290·0	294	286	272·6	31	1512	286·3	290	281	264·0
800	31	2026	287·5	292	283	273·8	30	2042	287·1	293	284	268·1	31	2019	283·3	287	277	260·8
700	31	3145	282·3	287	276	267·2	30	3158	282·0	291	277	261·0	31	3118	276·9	283	270	255·7
600	29	4407	274·6	277	272	259·5	30	4416	273·6	279	270	251·9	31	4353	269·2	274	263	...
500	29	5853	265·7	269	259	...	30	5854	264·1	269	260	...	31	5768	259·6	265	254	...
400	29	7557	255.5	267	249	...	30	7546	252·5	256	249	...	31	7428	248·0	253	242	...
300	29	9642	239·0	245	234	...	28	9618	238·2	246	233	...	31	9461	234·5	241	228	...
250	25	10900	228·8	237	222	...	25	10867	228·6	237	222	...	30	10694	227·2	234	221	...
200	25	12358	217·0	225	210	...	21	12316	217·1	225	208	...	27	12140	218·3	226	212	...
175	22	13191	211·1	219	205	...	18	13153	211·8	220	203	...	23	12960	214·2	222	208	...
150	21	14141	204 7	212	200	...	14	14105	205·4	213	196	...	17	13946	212·4	217	206	...
125	18	15206	199·1	205	194	...	12	15165	198·4	205	191	...	11	15103	210·0	215	206	...
100	10	16529	195·2	200	190	...	9	16456	195·0	199	191	...	...	...	...	...	...	...
80	5	17806	195·8	201	190	...	6	17714	198·8	205	195	...	...	...	...	...	...	...

	PORT BLAIR (1003 mb.)						TRIVANDRUM (1003 mb.)						VERAVAL (1013 mb.)					
Surface	31	79	296·9	301	294	295·0	31	64	296·6	299	295	293·5	31	8	291·5	295	287	282·4
1000	31	103	...	...	...	...	31	93	...	...	...	...	31	118	...	...	...	...
900	31	1020	291·1	295	287	287·9	31	1011	292·2	298	288	286·4	31	1033	292·5	296	285	274·6
850	31	1509	288·5	293	285	283·2	31	1502	289·4	293	285	282·3	31	1523	289·1	293	282	270·9
800	31	2022	286·8	291	283	277·2	31	2017	287·5	292	284	277·1	31	2035	285·9	291	278	267·5
700	31	3140	282·3	285	277	270·2	31	3136	282·0	285	278	266·8	31	3144	279·5	283	274	259·2
600	30	4402	274·8	279	269	265·8	31	4395	274·4	280	270	258·5	31	4391	271·6	276	267	252·5
500	30	5851	266·2	272	262	...	31	5841	266·3	269	263	...	31	5819	261·3	265	256	...
400	30	7558	255·0	260	250	...	31	7548	255·0	259	241	...	31	7494	250·1	255	245	...
300	29	9646	238·9	245	232	...	31	9634	239·5	245	236	...	22	9549	236·7	244	226	...
250	26	10898	229·6	238	220	...	29	10887	229·0	236	224	...	19	10789	227·9	237	217	...
200	23	12352	216·4	228	203	...	27	12345	216·8	230	209	...	11	12253	215·3	226	210	...
175	18	13181	210·9	216	198	...	24	13160	210·7	219	204	...	7	13079	210·4	219	204	...
150	16	14129	204·9	214	193	...	24	14108	203·8	212	195	...	6	14039	204.3	214	198	...
125	15	15175	199·6	209	193	...	21	15171	198·4	207	193	...	...	...	...	...	...	...
100	12	16499	195·8	205	189	...	19	16463	194·2	203	186	...	...	...	...	...	...	...
80	6	17874	198·8	207	190	...	12	17780	196·3	206	190	...	...	...	...	...	...	...

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From ascents at 00 hrs. G. M. T.

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1009 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	295.4	299	291	289.9
1000	31	125	...	...	...	...
900	31	1039	291.3	295	289	282.6
850	31	1529	290.0	294	286	274.5
800	31	2045	288·3	292	283	271.2
700	31	3167	283.2	287	279	265.2
600	31	4432	275.5	278	271	260.6
500	31	5822	266.7	271	264	...
400	31	7596	254.8	260	240	...
300	30	9684	239.9	246	232	...
250	29	10941	229.8	237	225	...
200	29	12409	218.4	228	211	...
175	28	13245	212.7	223	207	...
150	27	14204	206.9	217	199	...
125	27	15277	201.5	212	193	...
100	24	16598	196.6	207	185	...
80	18	17871	196.3	205	188	...

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From ascents at 12 hrs. G. M. T.

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Standard pressure surface mbs.	ALLAHABAD Surf. Pr. (1003 mb.)						BOMBAY (1010 mb.)						CALCUTTA (1012 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	98	295·6	299	291	284·8	30	13	301·8	306	290	290·8	31	6	296·7	299	294	287·9
1000	31	125	...	...	...	...	30	98	...	...	...	...	31	115	...	...	...	...
900	31	1033	291·2	297	287	273·2	30	1027	295·7	300	285	282·2	31	1027	291·2	297	286	275.8
850	31	1521	289·5	293	287	265·5	30	1523	292·5	296	287	277·9	31	1514	289·5	294	286	266·9
800	31	2034	287·0	290	283	263·2	30	2041	289·1	297	283	273·9	31	2028	288·1	291	284	262·3
700	31	3147	280·9	285	277	257·8	30	3163	282·9	287	277	261·8	31	3148	282·7	287	278	259·9
600	30	4400	273·5	278	269	246·2	30	4426	275·1	282	269	252·4	31	4412	275·7	281	271	255·4
500	30	5835	263·9	267	259	...	30	5873	266·3	273	261	...	31	5864	266·8	273	260	...
400	30	7523	252·2	256	249	...	30	7578	255·2	262	249	...	31	7574	255·9	260	247	...
300	29	9590	238·6	245	233	...	26	9676	242·5	253	233	...	25	9674	242·3	247	233	...
250	26	10845	230·5	238	224	...	25	10953	233·8	243	221	...	25	10946	233·4	238	225	...
200	24	12314	221·0	227	214	...	24	12455	224·3	235	208	...	24	12444	223·7	229	215	...
175	24	13169	216·2	225	207	...	23	13328	218·8	228	205	...	19	13297	217·5	223	210	...
150	20	14139	211·6	222	207	...	20	14312	213·4	221	199	..	13	14289	212·2	216	207	...
125	17	15255	208·5	218	203	...	15	15437	209·1	217	199	...	10	15411	206·6	209	202	...
100	14	16591	205·3	213	197	...	13	16778	206·1	214	196	...	7	16767	199·7	205	195	...
80	7	17916	205·0	214	197	...	8	18237	207·1	218	203	...	...	...	...	...	...	...

Standard pressure surface mbs.	GAUHATI (1007 mb.)						GWALIOR (991 mb.)						JODHPUR (989 mb.)					
Surface	31	49	293·9	297	291	291·5	30	203	295·6	299	290	283·5	31	218	297·5	301	291	277·7
1000	31	113	...	...	...	...	30	123	...	...	...	...	31	121	...	...	...	...
900	31	1019	289·2	293	287	284·0	30	1034	291·7	296	286	275·6	31	1035	291·6	296	284	270·6
850	31	1503	285·7	289	283	281·4	30	1523	289·0	293	284	270·0	31	1522	287·7	291	280	266·3
800	31	2009	282·3	285	280	277·3	30	2037	286·8	290	282	265·8	31	2031	284·3	288	275	263·2
700	31	3103	276·4	281	273	268·1	30	3151	280·5	285	275	259·8	31	3132	277·8	285	268	253·2
600	27	4348	272·6	277	265	256·0	30	4403	272·5	277	268	251·1	31	4373	270·3	276	263	241·0
500	24	5793	264·9	271	260	...	30	5836	263·3	267	260	...	31	5794	261·0	267	255	...
400	24	7489	254·0	258	249	...	30	7524	252·1	256	249	...	31	7466	249·3	254	245	...
300	21	9559	239·4	246	233	...	28	9594	239·3	247	235	...	27	9515	235·8	240	231	...
250	18	10801	229·3	233	226	...	26	10864	231·8	240	228	...	22	10773	227·6	235	222	...
200	15	12254	218·4	223	216	...	24	12343	222·7	230	214	...	18	12250	220·0	227	214	...
175	13	13098	212·8	219	209	...	20	13211	217·7	225	206	...	17	13109	216·4	224	210	...
150	11	14062	208·5	213	203	...	18	14190	213·9	221	202	...	14	14064	213·3	220	205	...
125	5	15222	205·8	208	202	...	15	15339	210·7	216	201	...	12	15206	210·5	216	205	...
100	...	...	...	...	...	...	12	16696	206·5	211	199	...	10	16564	207·7	213	201	...
80	...	...	...	...	...	...	6	18087	207·3	211	203	...	...	...	...	...	...	...

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From ascents at 12 hrs. G. M. T.

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Standard pressure surface mbs.	MADRAS Surf. Pr. (1010 mb.)						NAGPUR (978 mb.)						NEW DELHI (991 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	15	299·0	301	297	293·8	31	311	300·0	303	296	284·9	31	210	294·2	298	291	280·3
1000	31	104	...	...	...	...	31	111	...	...	...	...	31	131	...	...	...	...
900	31	1021	291·8	294	289	285·3	31	1035	294·4	297	290	280·2	31	1035	289·5	293	285	271·4
850	31	1510	289·2	293	286	280·4	31	1527	290·6	294	286	278·1	31	1520	286·6	290	281	265·2
800	31	2025	287·9	294	285	275·5	31	2042	287·0	291	285	274·1	31	2028	284·1	288	278	265·9
700	31	3146	282·9	288	279	267·7	31	3158	281·3	286	277	259·8	31	3131	277·9	283	270	256·2
600	31	4411	275·4	278	272	262·1	31	4413	273·4	279	269	255·5	31	4371	270·8	278	265	256·1
500	31	5862	266·7	270	262	...	31	5853	264·3	271	258	...	31	5788	260·1	265	253	...
400	31	7569	255·4	260	249	...	31	7547	252·4	258	248	...	31	7453	248·9	255	242	...
300	24	9658	239·8	247	233	...	27	96.8	238·5	243	231	...	29	9497	235·4	239	227	...
250	21	10912	230·9	239	221	...	25	10866	229·4	238	217	...	26	10746	228·1	234	223	...
200	20	12380	218·9	229	210	...	20	12332	217·8	229	204	...	23	12213	220·0	226	214	...
175	20	13225	213·1	223	205	...	17	13157	213·0	224	200	...	21	13059	216·4	222	208	...
150	19	14188	207·5	217	201	...	15	14128	207·4	220	196	...	17	14098	214·4	222	206	...
125	16	15281	201·8	211	195	...	13	15238	202·2	214	196	...	14	15144	213·1	220	205	...
100	5	16625	196·3	206	190	...	11	16576	199·8	208	192	...	10	16515	208·8	216	200	...
80	5	18023	195·8	204	188	...	9	17901	199·5	210	193	...	7	17882	207·0	214	198	...

	PORT BLAIR (1002 mb.)						TRIVANDRUM (1002 mb.)						VERAVAL (1012 mb.)					
Surface	31	79	299·5	301	297	295·9	31	64	301·2	303	299	294·7	31	8	299·6	302	296	293·3
1000	31	96	...	...	...	...	31	81	...	...	...	...	31	110	...	...	...	...
900	31	1016	292·2	296	289	288·6	31	1006	294·4	297	292	287·6	31	1030	293·8	301	286	279·3
850	31	1506	289·7	295	285	284·3	31	1499	291·1	295	289	284·1	31	1522	290·3	297	283	275·5
800	31	2021	287·9	292	285	275·9	31	2017	288·2	291	285	278·3	31	2037	286·4	292	278	271·8
700	31	3142	283·0	287	279	267·9	31	3140	283·4	287	277	269·5	31	3148	279·0	286	264	261·6
600	31	4405	275·4	279	269	264·7	30	4404	275·8	279	271	261·4	31	4396	271·8	278	266	256·4
500	31	5856	266.3	271	258	...	30	5858	267·7	272	263	...	31	5825	262·2	268	258	...
400	31	7565	255·4	261	251	...	30	7573	256·7	263	250	...	31	7500	249·6	257	244	...
300	28	9651	239·1	250	231	...	28	9668	240·5	248	228	...	26	9543	234·9	243	226	...
250	26	10902	228·5	242	220	...	27	10925	230·3	240	210	...	22	10788	226·5	235	213	...
200	22	12363	216·6	235	205	...	26	12405	219·1	230	205	...	16	12256	218·3	229	209	...
175	19	13201	210·3	230	200	...	25	13254	212·8	223	199	...	13	13131	214·5	225	205	...
150	16	14144	204·4	225	194	...	24	14211	206·0	217	191	...	9	14088	209·6	221	201	...
125	13	15238	199·3	218	193	...	22	15274	200·0	211	184	...	6	15252	203·3	206	197	...
100	9	16740	193·3	210	185	...	18	16625	195·8	208	188	...	...	...	...	...	...	...
80	6	17853	198·8	206	193	...	15	17931	195·0	207	187	...	...	...	...	...	...	...

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From ascents at 12 hrs. G. M. T.

DECEMBER 1960 (AGRAHAYANA 10—PAUSA 10, 1882 SAKA)

Standard pressure surface mbs.	VISAKHAPATNAM Surf. Pr. (1008 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point
Surface	31	48	299·0	301	296	291·4
1000	31	115	...	...	...	...
900	31	1033	292·4	295	289	282·1
850	31	1524	290·3	293	284	275·5
800	31	2040	288·2	291	283	271·1
700	31	3161	282·8	289	279	264·0
600	31	4423	274·9	279	270	258·3
500	31	5870	265·6	269	260	...
400	31	7571	253·9	260	245	...
300	31	9653	238·6	244	231	...
250	29	10901	229·1	239	221	...
200	28	12357	216·4	224	209	...
175	27	13179	210·5	217	200	...
150	27	14131	204·1	213	191	...
125	25	15222	198·8	208	190	...
100	21	16535	193·9	203	182	...
80	15	17797	196·3	213	184	...

NOTE.—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273° A.

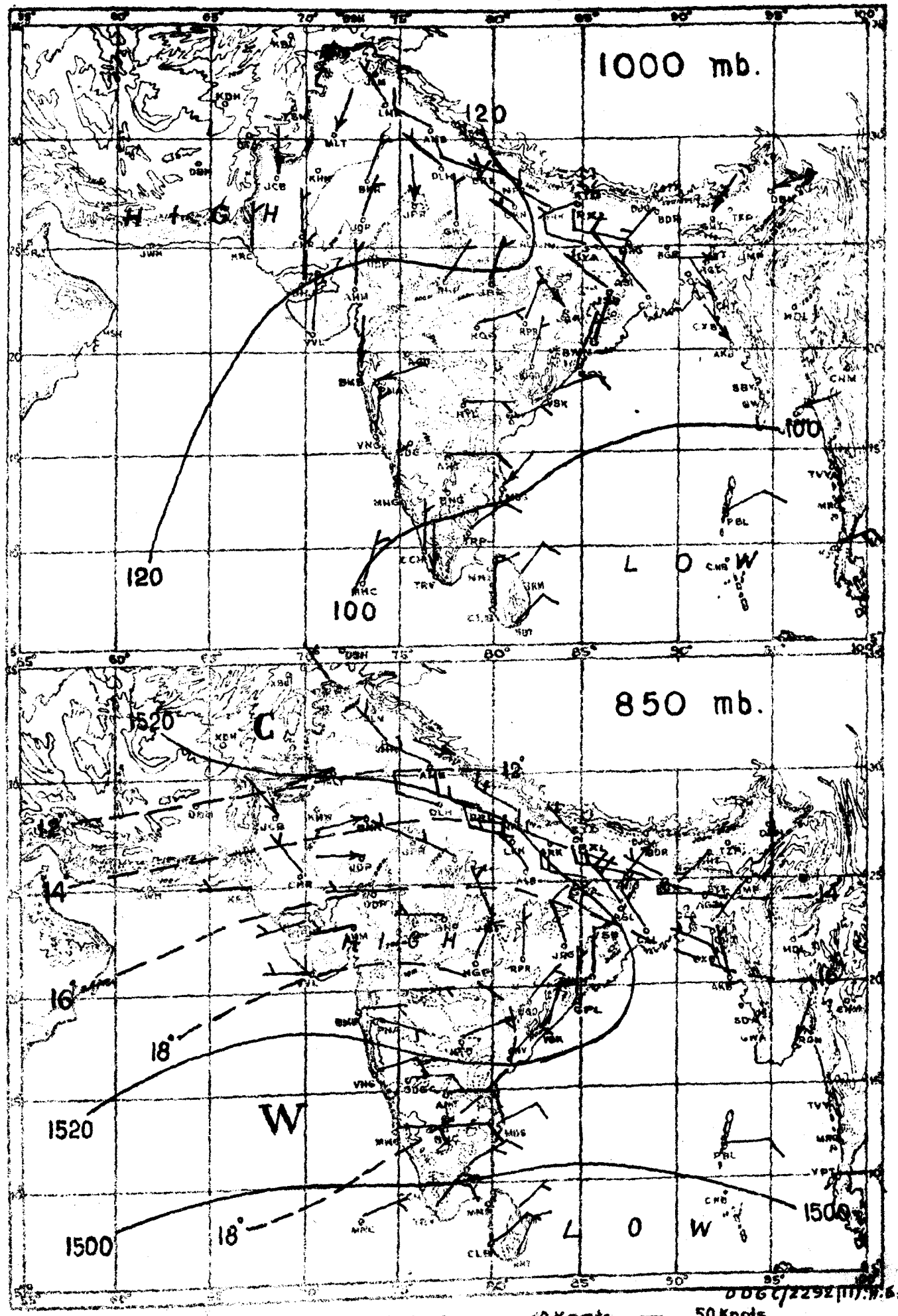
Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S2—7 DDG obs.Poona/65—24-9-65—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

DECEMBER 1960

I.Met.D. Plate I

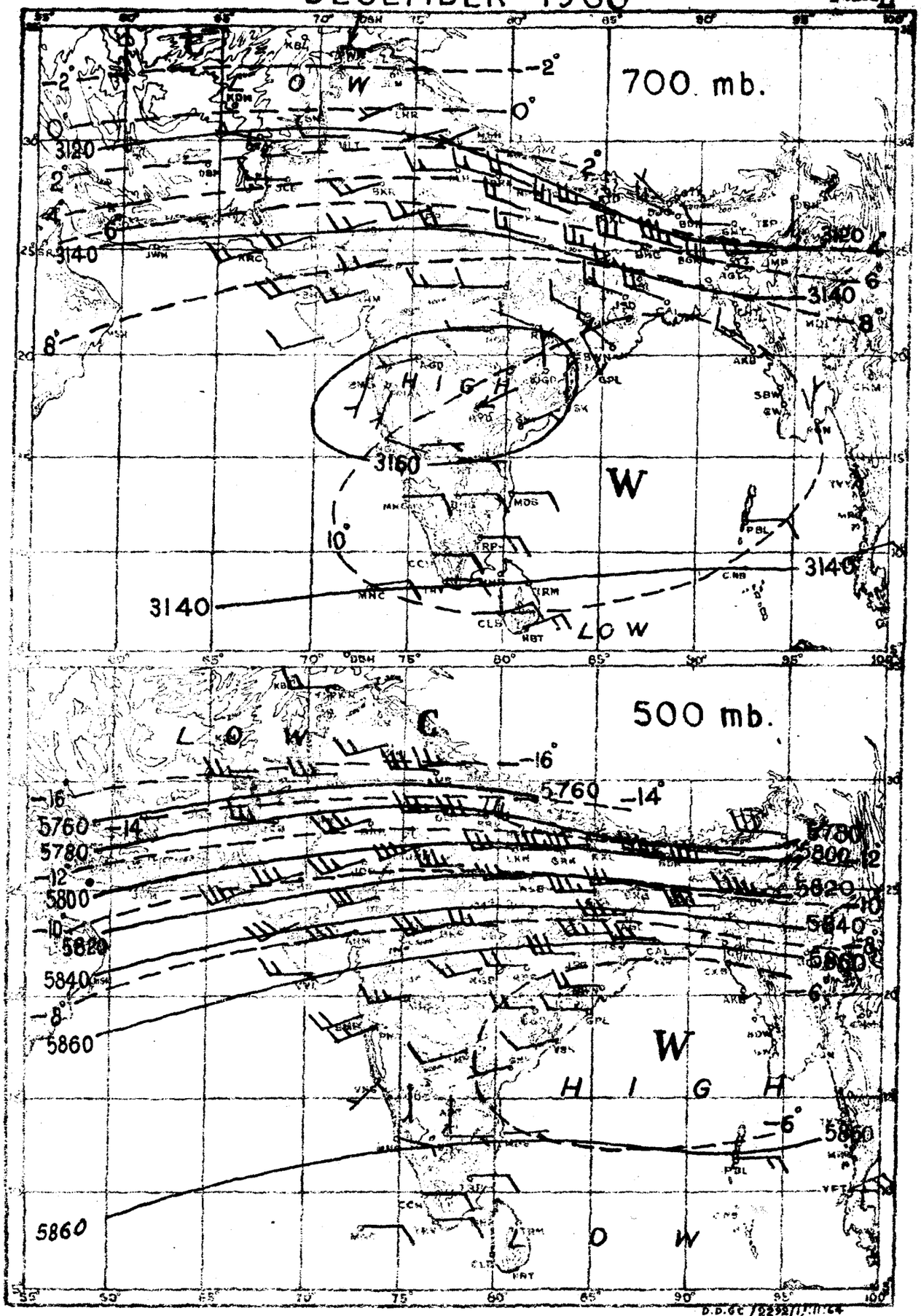


RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

—·—·— Isotherms in degrees centigrade ——— Contours in geopotential metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **DECEMBER 1960** Plate II



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

Isotherms in degrees centigrade — Contours in geopotential metres.

G.P.O. SYDNEY, 1963