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India METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1951

INTRODUCTION

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Director General of Observatories

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INDIA WEATHER REVIEW, 1951

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INDIA WEATHER REVIEW, 1951

INTRODUCTION

The India Weather Review is composed of the twelve Monthly Weather Reports and the Annual Summary.

Monthly Weather Report

Up to 1932, the Monthly Weather Report contained only the means of 8 hrs. L.M.T. observations based upon the figures telegraphed for the Indian Daily Weather Report. The need for an afternoon weather chart for the preparation of forecasts for aviators led to most of the observatories in northern and central India being raised to class II by the end of 1930. It was then considered desirable to include the afternoon observations of these observatories in the Monthly Weather Report and base the means on the scrutinised data from the Monthly Meteorological Registers. When the arrangements for scrutinising were completed, the Monthly Weather Report was expanded in January 1933 to contain the afternoon observations as well as the observations at climatological stations which send their observations by post. The remaining observatories in the Peninsula were raised to class II in April 1937 ; and from 1938 the afternoon observations from these observatories are also published in the Monthly Weather Report. As a result of the constitutional changes in August 1947, the data of Pakistan stations have not been included in the Monthly Weather Reports from August 1947.

From 1933 each Monthly Weather Report gives a short account of the weather of the month and had till 1947 tables I to V. On the omission of the data of stations in South Baluchistan, Iran and Arabia contained in table III from the Monthly Weather Report for August 1947, it now contains only tables I to IV as mentioned below :—

Table I.—Divisional and sub-divisional means.

Table II.—Monthly means of observations at 0830 hrs. I.S.T. and 1730 hrs. I.S.T. at Indian stations.

Table III.—Monthly means of observations at 0830 hrs. I.S.T. at class IV stations.

Table IV.—Data of class V stations.

With the discontinuance of the Upper Air Data Part A, from 1946, the Monthly Weather Report was expanded in 1947 to include two additional tables A and B giving monthly mean directions and velocities of upper winds at heights up to 9·0 km. and above. However, these were discontinued in 1951. From January 1948, two plates giving monthly mean constant pressure charts for 1000 and 850 mbs. and for 700 and 500 mbs. levels have also been added to the Monthly Weather Report. From 1951, tables giving "mean dynamic height, temperature and dew point at standard pressure surfaces" (Radiosonde data) are being included.

Annual Summary

Between 1933 and 1937 the Annual Summary was published in five parts. From the issue for 1938 it is published in four parts as detailed below. The fifth part comprising the "Seismic Records" which was being published in the form of a quarterly bulletin called the "Seismological Bulletin" has been discontinued from the issue for January-March 1946 and is now being issued separately, as a monthly. Data of stations in Pakistan, Iran and Arabia were omitted from 1947.

I. Introduction.—Title page ; table of contents ; introduction including an alphabetical list of observatories, a list of stations equipped with autographic instruments and errata to Monthly Weather Reports and Annual Summary.

II. Part A.—Summary of weather and rainfall and tables of meteorological data. This gives a general description of the weather of the year, and contains annual tables corresponding to the monthly tables in the Monthly Weather Reports, monthly and annual tables for a few stations and special tables of nocturnal radiation temperature, sunshine data, hourly wind velocity and rainfall. From the year 1948, hourly data of pressure, rainfall, temperature and humidity and frequency tables of these elements for stations equipped with autographic instruments have also been included. Besides, three plates A1, A2, A3 showing the monthly and seasonal distribution of rainfall and monthly departures of pressure are given at the end.

III. Part B.—Snowfall. This gives a summary of the snowfall reports pertaining to the mountain regions in the north of India.

IV. Part C.—Storms and depressions. This describes all storms and depressions, and contains notes on western disturbances and local storms and charts of storm tracks.

The following notes concerning the observatories, the instruments in use and their conditions of exposure, the methods of observation and reduction and grouping of results will be of some help to users of this volume.

Observing stations.—An alphabetical list of stations the data of which are included in the Monthly Weather Reports or in Tables I to XII of the Annual Summary, Part A, is given in the table below. The class to which the station belongs, the geographical co-ordinates (φ, λ), the heights of the barometer cistern (Hb) above M.S.L and of the anemometer above the ground (ha) are also given against each station.

The scheme of classification of observatories adopted in this department is explained below.

Class I.—Observatories taking three or more sets of observations per day at fixed times, and having autographic instruments for recording at least pressure, temperature, wind speed and direction.

Class II.—Observatories taking two sets of observations per day.

Class III.—Observatories taking one set of observations per day.

Class IV.—Observatories not equipped with barometers, but taking either two or one set of all the remaining observations per day.

Class V.—Observatories taking instrumental observations of rainfall only.

The three hours of observation adopted at Indian stations were 8 hrs. I.S.T., 12-30 hrs. I.S.T. and 17 hrs. I.S.T. At stations where only a single observation was recorded, *viz.*, Class III, IV and V observatories, the observations were recorded at the morning hour only. At class II stations, observations were recorded at 8 hrs. I.S.T. and 17 hrs. I.S.T. whereas at class I stations observations were recorded at 12-30 hrs. I.S.T. also. The times of observations were changed from the 1st March 1949 as follows :

(*i*) 0530 hrs. I.S.T. observation was introduced at fulltime observer stations.

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(*ii*) The times of the main synoptic observations were changed from 0800 and 1700 hrs. I.S.T. to 0830 and 1730 hrs. I.S.T. respectively.

(*iii*) 1130 hrs. I.S.T. observation was introduced at some of the observatories.

(*iv*) 2330 hrs. I.S.T. observation was introduced at all fulltime observer stations and at restricted part-time stations.

(*v*) 1230 hrs. I.S.T. observation was discontinued from the 1st June 1949.

The Indian Standard Time (I.S.T.) corresponds to the longitude of 82°30·E and is therefore 5 hrs. 30 mins. in advance of the Greenwich Mean Time.

At all observatories of this department, 4 ft. above ground level has been adopted as the standard height for the bottom of the Stevenson Screen, so that the bulbs of the dry and wet bulb thermometers are at height of 4¼ to 4½ ft. above ground. A standard height of 1 ft. above ground has been adopted for the rim of the funnel of the raingauge.

As the wind vane is generally fixed at about the same height as the anemometer, its height is not separately given.

Alphabetical List of Stations

Station	Class	φ		λ		H_b	h_a
		° N	′	° E	′	ft.	ft.
Abu	II	24	36	72	43	3,921	63
Agra	II	27	10	78	02	553	39
Ahmedabad	I	23	02	72	35	182	51
Ahmednagar	II	19	05	74	55	2,154	39
Aijal	II	23	44	92	43	3,599	26
Ajmer	II	26	27	74	37	1,593	45
Akola	II	20	42	77	02	925	45
Alibag	III	18	38	72	52	23	74
Aligarh	II	27	55	78	04	615	45
Allahabad (Bamrauli)	I	25	27	81	44	322	19
Alleppey	II	09	33	76	25	12	37
Ambala	II	30	23	76	46	892	41
Ambikapur	II	23	10	83	15	1,989	57
Amini Divi	III	11	07	72	44	13	27
Amravati	II	20	56	77	47	1,213	26
Amritsar*	I	31	38	74	52	769	46
Anantapur	II	14	41	77	37	1,147	49
Angbung	IV	27	16	87	43	..	..
Angul	II	20	50	85	06	455	25
Arogyavaram	II	13	32	78	30	2,299	35
Arrah	V	25	34	84	40	..	..
Asansol	II	23	41	86	59	414	33
Aurangabad	II	19	53	75	20	1,905	35
Azamgarh	II	26	03	83	13	255	31
Badrinath	IV	30	40	79	30	..	..
Bagdogra	II	26	38	88	19	416	6
Bagratawa	III	22	38	77	59	..	11
Bahraich	II	27	34	81	36	407	37
Balasore	II	21	30	86	56	65	26
Balehonnur	IV	13	22	75	27	..	..
Banaras	II	25	18	83	01	250	81
Banda	II	25	28	80	22	398	35
Bangalore	I	12	58	77	35	3,021	51
Bankura	V	23	14	87	04	..	..
Barahkshetra	II	26	52	87	10	528	11
Bareilly	II	28	22	79	24	568	41
Barkachhar	III	20	34	81	30	..	11
Barmer	II	25	45	71	23	638	22
Barmul	II	20	31	84	52	210	10
Baroda	I	22	18	73	15	115	42
Batticoloa	II	07	43	81	42	9	35
Belgaum	II	15	51	74	31	2,562	42
Bellary	II	15	09	76	51	1,473	33
Berhampore	II	24	08	88	16	62	25
Betul	II	20	52	77	56	2,144	32
Bhagalpur	II	25	14	86	57	160	33
Bhavnagar	II	21	45	72	12	55	27
Bhopal (Bairagarh)	II	23	17	77	21	1,714	35
Bhuj	II	23	15	69	48	343	30
Bidar	II	17	55	77	32	2,178	36
Bijapur	II	16	49	75	43	1,950	35
Bikaner	II	28	00	73	18	734	34
Bokaro	I	23	47	85	53	784	16
Bombay (Colaba)	I	18	54	72	49	35	58
Broach	II	21	24	73	02	57	43
Buldhana	II	20	32	76	14	2,133	30
Burdwan	II	23	14	87	51	106	53
Calcutta (Alipore)	I	22	32	88	20	21	56
Calingapatam	II	18	20	84	08	19	33
Chaibasa	II	22	33	85	49	742	28
Chainpur	IV	27	17	87	20	..	..
Champa	II	22	02	82	42	805	52
Chanda	II	19	58	79	18	634	17
Chandbali	II	20	47	86	44	20	32
Chapra	V	25	47	84	44	..	..
Chautara	IV	27	47	85	43	..	..
Cherrapunji	II	25	15	91	44	4,309	26
Chhindwara	II	22	06	79	00	2,248	36
Chitaldrug	II	14	14	76	26	2,405	26
Chungthang	V	27	36	88	30	..	..
Coimbatore	II	11	00	76	58	1,341	44
Colombo	I	06	54	79	52	24	19
Contai	II	21	47	87	45	35	26
Cooch Behar	II	26	20	89	27	145	34

*Converted to Class I from July 1951.

Station	Class	φ		λ		H_b	h_a
		° N	′	° E	′	ft.	ft.
Coonoor	III	11	21	76	48	5,730	26
Cuddalore	II	11	46	79	46	39	56
Cuddapah	II	14	29	78	50	428	30
Cuttack	II	20	48	85	56	87	37
Dahanu	II	19	58	72	43	15	35
Dalhousie	V	33	22	75	58	..	..
Daltonganj	II	24	03	84	04	725	29
Darbhanga	II	26	10	85	54	161	28
Darjiling	II	27	03	88	16	6,980	18
Deesa	II	24	14	72	12	466	62
Dehra Dun	II	30	19	78	02	2,239	36
Dehri	II	24	55	84	11	352	26
Deolali	III	19	53	73	49	1,874	10
Devgad	II	16	23	73	21	117	25
Dhanbad	III	23	47	86	26	839	48
Dharampore	V	30	54	77	01	..	..
Dharamshala	II	32	16	76	23	3,974	24
Dharoi	IV	24	30	73	00	..	..
Dhubri	II	26	01	89	59	115	32
Dibrugarh	II	27	28	94	55	348	25
Dibrugarh (Mohanbari)	II	27	29	95	01	364	6
Dohad	II	22	50	74	16	1,093	39
Dum Dum	I	22	39	88	27	33	50
Dumka	II	24	16	87	15	489	26
Dwarka	II	22	22	69	05	37	19
Fatehpur	II	25	56	80	50	375	39
Ferozepore	II	30	55	74	40	657	25
Fort Cochin	II	09	58	76	14	10	32
Gadag	II	15	25	75	38	2,131	33
Gannavaram	II	16	32	80	48	79	30
Gauhati	II	26	11	91	45	182	28
Gauhati (D-type)	II	26	05	91	43	162	7
Gaya	I	24	45	84	57	365	19
Gilgit	II	35	55	74	23	4,890	25
Ginabahar	IV	22	48	83	53	..	..
Gonda	II	27	08	81	58	360	32
Gondia	II	21	28	80	12	1,026	31
Gondla	V	32	31	77	02	..	..
Gopalpur	II	19	16	84	53	56	25
Gorakhpur	II	26	45	83	22	254	31
Gulbarga	II	17	21	76	51	1,503	37
Gulmarg	III	34	03	74	24	8,709	20
Guna	II	24	39	77	19	1,571	23
Gurez	V	34	38	74	51	..	..
Gwalior	II	26	14	78	15	688	32
Gyantse	III	28	56	89	36	13,110	27

Station	Class	φ		λ		H_b	h_a
		° N	′	° E	′	ft.	ft.
Hambantota	II	06	07	81	08	61	11
Hanamkonda	II	18	01	79	34	881	38
Hardoi	II	27	23	80	10	467	37
Harnai	II	17	49	73	06	66	5
Hassan	II	13	00	76	09	3,149	41
Hazaribagh	II	23	59	85	22	2,006	63
Hirakud	II	23	31	83	54	522	31
Hissar	II	29	10	75	44	725	42
Honavar	II	14	17	74	27	85	31
Hoshangabad	II	22	46	77	46	992	35
Hyderabad (Begumpet)	II	17	27	78	28	1,778	49
Indore	II	22	43	75	48	1,839	9
Jabalpur	II	23	10	79	57	1,289	35
Jagdalpur	II	19	05	82	02	1,815	35
Jaipur	I	26	55	75	50	1,431	61
Jaisalmer	II	26	54	70	55	793	34
Jalgaon	II	21	03	75	34	660	10
Jalpaiguri	II	26	32	88	43	271	32
Jammu	IV	32	44	74	55	..	..
Jamnagar	II	22	29	70	04	60	39
Jamshedpur	II	22	49	86	11	423	50
Jamui	II	24	56	86	18	270	27
Jamuna Chetty	V	30	53	78	20	..	..
Jeur	II	18	12	75	12	1,709	30
Jhadol	IV	24	23	73	28	..	..
Jhalawar	II	24	32	76	10	1,053	28
Jhansi	II	25	27	78	35	823	37
Jharsuguda	II	21	55	84	05	726	..
Jodhpur	I	26	18	73	01	736	20
Kakinada	II	16	57	82	14	26	27
Kalimpong	II	27	04	88	28	3,965	22
Kallakurichi	II	11	44	78	58	416	..
Kanker	II	20	16	81	29	1,318	40
Kanpur	II	26	26	80	22	414	44
Karnal	II	29	42	77	02	818	34
Katmandu	I	27	42	85	20	4,343	24
Khammameth	II	17	15	80	09	367	29
Khandala	V	18	46	73	22	..	..
Khandwa	II	21	50	76	22	1,044	21
Kharsali	V	30	58	78	26	..	..
Kodaikanal	I	10	14	77	28	7,688	42
Koksar	V	32	25	77	14	..	..
Kolhapur	II	16	42	74	14	1,870	35
Koraput	II	18	49	82	43	2,996	30
Kotah	II	25	11	75	51	843	31
Kothi	V	32	19	77	12	..	..

Station	Class	φ		λ		H_b	h_a
		°	′	°	′	ft.	ft.
		N		E			
Kozhikode	II	11	15	75	47	27	43
Krishnagar	II	23	24	88	31	48	45
Kurnool	II	15	50	78	04	923	49
Kyelang	V	32	35	77	04	..	..
Lachen	IV	27	43	88	32	..	..
Lachun	V	27	42	88	45	..	..
Lakhimpur Khe	II	27	54	80	48	483	35
Leh	II	34	09	77	34	11,529	25
Lhasa	III	29	40	91	07	12,090	31
Lokpal	IV	30	44	79	38	..	..
Lucknow	II	26	52	80	56	371	31
Ludhiana	II	30	56	75	52	810	30
Lumding	IV	25	45	93	11	..	..
Madhosagar*	II	26	13	78	00	757	23
Madras (Meenambakkam)	I	13	04	80	11	51	45
Mahabaleshwar	II	17	56	73	40	4,534	27
Mainpuri	II	27	14	79	03	516	28
Malda	II	25	02	88	08	103	51
Malegaon	II	20	33	74	32	1,432	25
Mandla	II	22	35	80	22	1,452	31
Mangalore	I	12	52	74	51	72	54
Mannar	II	08	59	79	55	12	14
Marmagao	II	15	25	73	47	202	25
Masulipatam	II	16	11	81	08	10	35
Mathurai	II	09	55	78	07	437	38
Mawsynram	V	25	18	91	35	..	..
Meerut	III	29	01	77	43	728	47
Mercara	II	12	25	75	44	3,781	18
Midnapore	II	22	25	87	19	149	28
Minicoy	II	08	18	73	00	6	48
Miraj	II	16	49	74	41	1,817	32
Misgar	II	36	47	74	46	10,190	21
Motihari	II	26	40	84	55	218	30
Muktesar (Kumaon)	II	29	28	79	39	7,582	14
Mussooree	II	30	27	78	05	6,699	25
Muzaffarpur	V	26	07	85	24	..	..
Mysore	II	12	18	76	42	2,518	73
Nagapattinam	II	10	46	79	51	31	39
Nagercoil	II	08	10	77	27	195	32
Nagpur	II	21	06	79	03	1,010	9
Nandi Hills	IV	13	22	77	41	..	..
Neemuch	II	24	28	74	54	1,626	42
Nellore	II	14	27	79	59	65	45
New Delhi	I	28	35	77	12	710	53
Nizamabad	II	18	40	78	06	1,250	47

*Closed from 13-8-1951.

Station	Class	φ		λ		H_b	h_a
		°	′	°	′	ft.	ft.
		N		E			
Nowgong	II	25	04	79	27	750	28
Okhaldhunga	II	27	19	86	31	..	6
Ongole	II	15	34	80	03	38	31
Ootacamund	II	11	24	76	44	7,378	27
Orai	II	25	59	79	30	463	31
Pachmarhi	II	22	28	78	26	3,528	37
Palayamcottai	II	08	44	77	45	167	48
Palghat	II	10	46	76	39	319	23
Pamban	II	09	16	79	18	37	25
Parbhani	II	19	08	76	50	1,393	..
Patiala	II	30	20	76	28	822	60
Patna	II	25	37	85	10	173	51
Pendra	II	22	46	81	54	2,040	20
Phalodi	II	27	08	72	22	794	41
Poona	I	18	32	73	51	1,834	24
Port Blair	I	11	40	92	43	259	27
Puri	II	19	48	85	49	20	29
Purnea	II	25	46	87	28	124	25
Purulia	II	23	20	86	25	835	23
Raichur	II	16	12	77	21	1,311	41
Raigarh	II	21	53	83	23	723	35
Raipur	II	21	14	81	39	979	28
Rajkot	II	22	18	70	47	432	30
Ramagundam	II	18	46	79	26	527	17
Rana	V	30	55	78	23	..	..
Ranchi	II	23	23	85	20	2,150	44
Ratlam	II	23	19	75	03	1,596	46
Rentachintala	II	16	33	79	33	348	27
Roorkee	II	29	51	77	53	899	37
Sabour	II	25	14	87	04	122	24
Sagar	II	23	51	78	45	1,808	6
Salem	II	11	39	78	10	913	54
Sambalpur	II	21	28	83	58	486	31
Sandheads	II	20	51	88	15	32	..
Saugor Island	II	21	39	88	03	10	52
Seoni	II	22	05	79	33	2,027	31
Seychelles	II	04	37	55	27	15	37
Sheopur Kalan	II	25	40	76	41	771	37
Shillong	II	25	34	91	53	4,921	28
Shimoga	II	18	56	75	38	1,872	38
Sholapur	II	17	40	75	54	1,570	30
Sibsagar	II	26	59	94	38	317	20
Sikar	II	27	37	75	08	1,419	41
Silchar	II	24	49	92	48	96	24
Simla	II	31	06	77	10	7,224	86
Sironcha	III	18	51	79	58	405	33

Station	Class	φ		λ		H_b	h_b
		°	′	°	′	ft.	ft.
		N		E			
Skardu	II	35	18	75	37	7,505	17
Sonamarg	V	34	19	75	19	..	..
Sonepur	IV	20	51	83	59	..	14
Sri Ganganagar	II	29	55	73	53	580	26
Srinagar	I	34	05	74	50	5,205	60
Surat	II	21	12	72	50	39	64
Sutna	II	24	34	80	50	1,041	34
Tapkethok	IV	27	29	87	47	..	..
Taplejung	I	27	21	87	40	..	21
Tapoban	IV	30	30	79	30	..	..
Tezpur	II	26	37	92	47	258	30
Tiruchirapalli	II	10	49	78	43	295	34
Titilagarh	II	20	18	83	13	691	29
Thangu	V	27	53	88	31	..	..
Thikri	III	22	04	75	24	..	..
Trincomalee	II	08	35	81	15	24	15
Trivandrum	I	08	29	76	57	211	41
Tura	II	25	31	90	14	1,215	29
Udaipur	II	24	35	73	42	1,910	19
Umaria	II	23	32	80	53	1,506	34
Vellore	II	12	55	79	09	703	21
Vengurla	II	15	52	73	38	29	..
Veraval	II	20	54	70	22	26	34
Visakhapatnam	I	17	43	83	14	11	30
Wallangchung Gola	IV	27	41	87	47	..	..
Yatung (Chumbi)	IV	27	29	88	55	..	..
Yeotmal	II	20	24	78	09	1,481	33

Territorial Divisions—The system of territorial divisions according to which the observatories are grouped is given below. The number of observatories in each of the sub-divisions is given in brackets against the sub-division.

Chief Political Divisions	Sub-divisions
	Bay Islands (1).
Assam (including Manipur and Tripura).	Assam (including Manipur and Tripura) (14).
West Bengal	West Bengal (17).
Orissa	Orissa (10).
Bihar	Chota-Nagpur (7). Bihar (13).
Uttar Pradesh	Uttar Pradesh, East (13). Uttar Pradesh, West (11).
Punjab (I) (including PEPSU and Delhi).	Punjab (I) (including PEPSU and Delhi) (19).
	Jammu and Kashmir (11).
Rajasthan	Rajasthan, West (6). Rajasthan, East (including Ajmer) (7).
Madhya Bharat and Vindhya Pradesh	Madhya Bharat (8). Vindhya Pradesh (3).
Madhya Pradesh	Madhya Pradesh, East (10). Madhya Pradesh, West (14).
Bombay (including Saurashtra and Kutch).	Gujarat (6). Saurashtra and Kutch (6). Konkan (8). Deccan (Desh) (14).
Hyderabad	Hyderabad, North (5). Hyderabad, South (5).
Madras (including Travancore-Cochin).	Coastal Andhradesa (8). Rayalaseema (4). Tamilnad (15). Malabar and South Kanara (3). Travancore-Cochin (4).
Mysore	Mysore (8).

Barometric pressure.—Till 1932 mercurial barometers of the Fortin type with tubes of 0·4″ uniform bore were in use at most of the observing stations in India; but since that year, Kew pattern barometers, made according to departmental specifications, have gradually been introduced at all the plain stations. The Kew pattern barometers were also introduced at two hill stations, Kodaikanal and Mahabaleshwar during 1946 and 1947 respectively. Fortin barometers continued to be used at other hill stations.

An aneroid barometer was in use at Lhasa.

The standard for the measurement of atmospheric pressure in India is the "Calcutta Standard". On the results of all comparisons made till 1935, the correction at present accepted of the "Calcutta Standard" with respect to Kew is —0·009″.

Standard barometers are now maintained at Poona, Bombay, Delhi, Nagpur, Calcutta and Madras for the purpose of standardising barometers before they are issued to land stations. Marine barometers for issue to ships are standardised at Bombay, Calcutta and Madras. These working standards are all corrected with respect to the "Calcutta Standard". The correction of all the barometers issued by this department is therefore ultimately based on the "Calcutta Standard".

The main work of the determination of the corrections of the barometers issued to outstations is done at Poona.

The barometers at all observatories are situated in masonry buildings to protect them as much as possible from rapid changes of temperature.

The heights above mean sea level of the barometers are given in all the tables of pressure as well as in the alphabetical list of stations. Heights of most stations have been obtained accurately by actual measurement from datum levels determined by the Great Trigonometrical Survey of India; the heights of only a few stations, mostly in Kashmir, have been determined barometrically.

Temperature.—Till 1923, thermometers were exposed in large open sided sheds to protect them from extraneous radiation (*vide* Annual Report on the Meteorology of India, 1887, p.37). As a result of experiments carried out at Agra on various types of exposures and described in the Ind. Met. Mem. Vol. XXIV, Part III (1922), all of these have been replaced by Stevenson Screens, which are less costly and cheaper to maintain.

The screen adopted for use in India has free inside measurements of 22″ length, 12″ depth and 16″ height and is somewhat larger than the pattern approved in 1884 by the Thermometer Screen Committee of the English Meteorological Society and larger too than the "small model".

in common use in Germany. It is made of teak wood painted white and has four double louvred sides with a double roof, the lower one having perforations. The upper roof slopes from front to back and protects the top from the Sun and rain. The door on the north side has 14 louvres and the remaining sides have 16 louvres each.

Thermometers in use which were issued up to the end of 1931 were verified by comparison with Kew standard thermometers at Calcutta. Instruments issued from 1932 were compared at Poona with standards provided with certificates of correction from the National Physical Laboratory, Teddington, England. All the thermometers at the observing stations are re-standardised from time to time, the temperatures given in the tables are corrected values.

Up to 1947 both the maximum and minimum thermometers were set and read only once in a day at the time of the morning observations. But from 1948, the minimum thermometer is set in the morning as well as in the evening and the readings of both the maximum and minimum temperatures are taken twice a day at the time of morning and evening observations. The maximum and minimum temperatures published in the reports refer to a period of 24 hours ending at 0830 hrs. I. S. T. The monthly means of these temperatures refer to the month ending at 0830 hrs. on the last day of the month.

Terrestrial radiation.—New terrestrial radiation thermometers were brought into use at most of the departmental first class observatories in 1932 and the method of exposure was also altered. Formerly these thermometers were laid on a thick pad of woollen blanket; but since 1932 they are placed on two wooden forks on a close cropped grass plot so that the bulb of the thermometer is about 1½" above ground. The radiation minimum temperatures recorded by these thermometers at 12 stations appear in Table VA, in which the depression of these temperatures below the minimum temperature in shade at 4 feet above ground is also given.

Hours of bright sunshine.—Sunshine recorders of the standard Campbell-Stoks pattern were in use at 17 stations.

Surface winds.—Prior to 1930, Robinson four-cup anemometers of the dial pattern were in use at Indian observatories. Since 1930, however, the department gradually introduced counter type anemometers manufactured at the departmental workshop at Poona and these are in use at almost all the observatories.

All anemometers issued up to the end of 1931 were compared before issue with the standard Beckley anemograph at the Alipore Observatory. Up to 1911 the factor representing the ratio of air movement to travel of Beckley cups had been taken in India as in other countries, as 3·0; but from that year the generally accepted factor of 2·2 has been used (*see* note on page 8, Monthly Weather Review January 1912). Since January 1932 anemometers are issued from Poona after comparison with the standard cup anemometer there. This standard is provided with a certificate of corrections from Wind Channel tests, made at the National Physical Laboratory, Teddington, England, and has also been compared with the Beckley anemograph at Alipore. However, as only instruments with small corrections are issued and as it is impracticable entirely to prevent slight alterations in exposure resulting from growth of trees or erection of buildings, it has been considered unnecessary to apply any correction to the observed value.

The wind data published consist of the mean hourly air movement as registered by counter type anemometers during the 24 hours ending at the time of morning observations and the frequency of the wind direction from 8 compass points at both the hours of observation.

Humidity and Cloud.—The hygrometric data are calculated by means of the departmental Hygrometric tables. The proportion of cloud was estimated in tenths of the sky expanse, an overcast sky being denoted by 10 and a cloudless sky by 0. From 1949 the cloud amount is expressed in oktas of the total sky, an overcast sky being recorded as 8 and cloudless sky as 0.

Rainfall.—Symons' raingagues with funnels of 5" diameter are now used at all rainguage stations, with the exception of those in Travancore where raingauges of non-standard pattern are in general use. At all the departmental raingauge stations new rain-measuring glasses made according to specifications drawn up by this department and tested at Poona have been introduced. The time of measuring rainfall at all the departmental observatories was 0800 hrs. I.S.T. and at the state raingauge stations 0800 hrs. L.M.T. The time of observations of rainfall at the departmental observatories and at the state raingauge stations has been changed to 0830 hrs. I.S.T. from March 1949 and January 1950 respectively. The amounts measured at these hours give the rainfall of the previous 24 hours.

The rainfall data of State raingauge stations for each State are generally tabulated in the office of the State Officer controlling registration of rainfall in the State, and published by respective States. The data of Rajasthan and Madhya Bharat, Vindhya Pradesh and Bhopal are, however, published by the Meteorological Office, Poona. These State tables are collected together and are issued annually in a separate volume entitled "Rainfall of India". These data are utilised in preparing Tables XIII to XVII in part A. In these State tables and in the rainfall observations at the meteorological observatories published in this volume a "rainy day" is taken to be one on which 0·10" or more of rain was recorded.

Autographic instruments.—In addition to the eye reading instruments, autographic instruments are maintained at all Class I stations and a few other observatories.

The following is a complete list of such stations with the instruments available noted against them. The symbols adopted to denote different instruments are shown below.

W—Anemograph T—Thermograph
B—Barograph R—Self-recording Raingauge.
U—Hygrograph S—Sunshine Recorder.

Station	Autographic Instruments					
1. Ahmedabad		B	U	T	R	S
2. Alibag		B		T	R	
3. Allahabad (Bamrauli)	W	B	U	T	R	S
4. Alleppey		B				
5. Amritsar		B	U	T	R	
6. Asansol					R	
7. Aurangabad		B			R	
8. Bangalore (Central Observatory).	W	B	U	T	R	S
9. Bangalore (Aerodrome)		B	U	T	R	
10. Barmer		B		T		
11. Baroda	W	B	U	T	R	S
12. Bombay (Colaba)	W	B	U	T	R	S
13. Bombay (Juhu)	W					
14. Bombay (Santacruz)		B	U	T	R	
15. Calcutta (Alipore)	W	B	U	T	R	S
16. Calcutta (Dum Dum)	W	B	U	T	R	
17. Calingapatnam		B				
18. Cherrapunji					R	

Station	Autographic Instruments					
19. Cochin		B				
20. Cuddalore		B				
21. Gaya	W	B	U	T	R	
22. Gopalpur	W	B				
23. Hyderabad (Begumpet)	W	B			R	
24. Jabalpur					R	
25. Jaipur	W	B	U	T	R	S
26. Jamshedpur	W	B		T	R	
27. Jodhpur	W	B	U	T	R	S
28. Kakinada		B				
29. Kodaikanal	W	B	U	T	R	S
30. Kozhikode		B				
31. Lucknow		B				
32. Madras (Meenambakkam).	W	B	U	T	R	S
33. Madras (Nungambakkam).		B	U	T		
34. Madras (Port Trust)	W					
35. Mahabaleshwar					R	
36. Mangalore		B				
37. Masulipatnam		B				
38. Nagpur	W	B	U	T	R	S
39. Nagapattinam		B				
40. New Delhi	W	B	U	T	R	S
41. Pamban		B				
42. Poona	W	B	U	T	R	S
43. Port Blair	W	B	U	T	R	S
44. Puri		B				
45. Sandheads		B				
46. Saugor Island	W	B		T	R	
47. Seychelles		B			R	
48. Srinagar		B		T	R	S
49. Tezpur				T		
50. Trivandrum		B		T	R	S
51. Vengurla		B			R	
52. Veraval		B	U	T	R	
53. Visakhapatnam	W	B	U	T	R	S

Tables.—Tables I, II, III and IV in the Annual Summary, Part A, contain the annual means of Indian stations whose monthly data have appeared in the Monthly Weather Reports.

Table IIA is similar to Table II and contains the monthly and annual means of those Indian stations which could not be included in the Monthly Weather Report.

Table V gives the mean duration of bright sunshine, and VA the abstracts of hours of bright sunshine and nocturnal radiation temperature at 17 stations.

Table VI gives the mean hourly and extreme pressure at 24 stations.

Tables VII to VII-I give the total hourly rainfall maximum in one hour and frequency of rainfall amounts in one-hour to six-hour periods and in one-day to three consecutive days at 24 stations.

Table VII-J and VII-K give the frequency of rainfall in one hour and in five minutes respectively (intensity greater than ½" per hour) at 24 stations.

Table VIII gives the mean hourly and extreme wind velocities at 18 stations. Owing to a change in the method of tabulation of the anemographs from 1st January 1939, the velocity given against any hour is the average for the ten minutes immediately preceding that hour.

Table VIII-A gives the frequencies of the number of hours when wind speed was within specified limits at the above 18 stations.

Table VIII-B gives a statement of squalls occurred at 18 first class observatories.

Table IX gives the mean hourly and extreme dry bulb temperatures at 20 stations.

Tables IX-A to IX-C give the frequency of number of hours when dry bulb temperature, maximum temperature and minimum temperature were within specified limits at 20, 21 and 22 stations respectively.

Tables X and X-A give the mean hourly and extreme wet bulb temperatures, and the frequency of the number of days when maximum wet bulb temperature was within specified limits at 13 and 14 stations respectively.

Table XI gives the mean hourly and extreme relative humidity at 17 stations.

Table XII gives the number of days on which the Nilgiris were visible from Kodaikanal.

Tables XIII to XVII give the divisional and subdivisional means of rainfall and the number of rainy days derived from the records of about 3,000 rainfall recording stations and table XVIII gives heavy falls of 10" and above in 24 hours at these stations.

Normals.—The normals used for comparison in Table I to IV and XIII to XVII are generally based on data up to 1940.

In Table V-A the normals of radiation minimum temperature and of its depression below the shade minimum temperature are based on all available data up to the year 1930.

The data of stations under the administrative control of the Regional Meteorological Centres at Bombay, Calcutta, Madras, Nagpur and New Delhi are scrutinised and supplied by the respective centres.

GIPN—S6—2 D. D. G Obs. Poona/61—22-8-61—200

AMS

Registered No. B-3097.

INDIA WEATHER REVIEW, 1951

Monthly Weather Report

January

Published by authority of the Government of India

Chief features.—Generally feeble western disturbances in northern India and weak northeast monsoon in the south of the Peninsula.

Eight western disturbances affected the country during the month. Several of them moved across the extreme north of the country and were feeble. The second, third and fourth disturbances were however comparatively more active. They were responsible for widespread rain or snow in the Punjab (I) and west Uttar Pradesh at the end of the first week and in the Punjab (I), Uttar Pradesh, west Madhya Pradesh, Vindhya Pradesh, Bihar and Assam during the middle of the month. According to newspaper reports, there was exceptionally heavy snowfall in the neighbourhood of Simla on the 16th which caused dislocation of motor traffic on the roads leading to Simla.

The details about the 8 western disturbances and the weather caused by them are set out in the following table :

JANUARY 1951

Precipitation

No.	Period	Course	Region	Nature of Precipitation	Period	Remarks
1.	1st to 4th	Baluchistan to Kashmir	...	...	...	Feeble
2.	4th to 9th	Baluchistan to the hills of West Uttar Pradesh.	The Punjab (I)	Fairly widespread light thundershowers.	7th & 8th	Active
			West Uttar Pradesh	do.	8th	
			The hills of the Punjab (I).	Isolated falls of rain or snow	9th	
3.	9th to 12th	Baluchistan to the hills of the Punjab (I).	...	...	...	Feeble but it induced an active secondary *vide* 3(*a*) below.
3(*a*).	11th to 14th	Sind to East Uttar Pradesh.	The Punjab (I)	Widespread rain or snow	13th	An active secondary.
			West Uttar Pradesh	Fairly widespread rain or snow	13th	
			East Uttar Pradesh	A few falls of rain	14th	
			Vindhya Pradesh	do.	14th	
3(*b*).	15th to 18th	Gujarat to Assam	West Madhya Pradesh	Fairly widespread thundershowers.	15th and 16th	This was induced by the secondary described under 3(*a*) above.
			Uttar Pradesh	Widespread thundershowers	16th and 17th	
			Bihar	Fairly widespread thundershowers.	17th	
			Vindhya Pradesh	do.	17th	
			Assam	A few showers	17th	
				Widespread thundershowers	18th	
4.	15th to 17th	Baluchistan to Western Himalayas.	The Punjab (I)	Fairly widespread rain or snow	16th	
			The Punjab (I) (hills)	do.	17th	
5.	18th to 20th	Sind to the hills of the Punjab (I).	The Punjab (I)	Few showers	19th	
			The Punjab (I) (hills)	do.	20th	
5(*a*).	19th to 21st	North Deccan (Desh) and southwest Madhya Pradesh to Bihar.	East Uttar Pradesh, Vindhya Pradesh and Madhya Pradesh.	Widespread thundershowers	20th	It was probably a secondary induced by the disturbance under (5).
			Bihar	Local thundershowers	20th and 21st	
			Chota Nagpur	do.	21st	
6.	21st to 24th	Baluchistan to extreme north of the country.	The hills of the Punjab (I).	Few falls of rain or snow	21st	
7.	25th to 29th	Baluchistan to the hills of the Punjab (I).				
8.	29th	Baluchistan to the southern districts of the Punjab (P) and of the Punjab (I).	The hills of west Uttar Pradesh.	Local thundershowers	31st	This disturbance continued into February 1951

N.B.—Data from Jammu and Kashmir were very meagre.

JUN 15

The northeast monsoon was weak in the south of the Peninsula throughout the month. It, however, temporarily strengthened on the 8th and 9th causing local showers in Tamilnad on these two days.

Night temperatures were appreciably below normal in northwest India, Uttar Pradesh and the central parts of the country in the first week, being markedly so in east Rajasthan, Madhya Bharat and Madhya Pradesh.

The rainfall for the month was in large excess in the Bay Islands, East Uttar Pradesh and Vindhya Pradesh, in slight to moderate defect in Bihar, west Uttar Pradesh, the Punjab (I), west Madhya Pradesh and Tamilnad and in large defect in Assam, West Bengal, Orissa, Chota Nagpur, Rajasthan, Madhya Bharat, east Madhya Pradesh, Deccan (Desh), north Hyderabad, coastal Andhradesa and Travancore-Cochin. No rain fell in Gujarat, Saurashtra and Kutch, the Konkan, south Hyderabad, Rayalaseema, Malabar and south Kanara and Mysore during the month. Averaged over the plains of India, the rainfall was 42% in defect.

Day temperatures were below normal in east Uttar Pradesh and Saurashtra and Kutch and normal elsewhere. Night temperatures were below normal in Orissa, Chota Nagpur, east Rajasthan and Madhya Bharat; above normal in the Bay Islands and normal elsewhere.

The relative humidity was in excess in west Uttar Pradesh, the Punjab (I), east Rajasthan, and Gujarat; below normal in east Madhya Pradesh, Rayalaseema and Tamilnad and normal elsewhere.

The mean cloud amount was in excess in the Bay Islands, east Uttar Pradesh, Malabar and south Kanara and Travancore-Cochin and normal in Bihar, west Uttar Pradesh, the Punjab (I), Vindhya Pradesh, Hyderabad, Rayalaseema, Tamilnad and Mysore. Elsewhere it was below normal.

Data from Jammu and Kashmir are incomplete.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amounts for the 13 chief political divisions and the 27 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 8-30 hours I.S.T. 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 8-30 hours I.S.T. of the date given in the succeeding column.

Poona 5;
Dated, the 2nd July 1951.

C. RAMASWAMY,
for Director General of Observatories.

—	Rainfall				Departure from normal of				
							8-30 hrs. I.S.T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
Division—	"	"	"		°	°	mb.	%	
Assam (including Manipur and Tripura).	0·24	0·76	−0·52	−68	+1·6	+0·1	0	−5	−1·5
West Bengal	0·01	0·44	−0·43	−98	−0·1	−0·7	−1·0	−5	−0·8
Orissa	0·07	0·39	−0·32	−82	−1·3	−2·3	−1·7	−4	−1·3
Bihar	0·30	0·63	−0·33	−52	−0·2	−1·5	−0·5	−3	−0·6
Uttar Pradesh	0·99	0·85	+0·14	+16	−2·0	−0·2	+0·3	+6	+0·3
Punjab (I) (including PEPSU and Delhi).	0·67	1·08	−0·41	−38	+0·3	−1·5	0	+7	+0·2
Rajasthan	0·06	0·28	−0·22	−79	−0·7	−1·5	−0·4	+5	0 9
Sub-Division—									
Bay Islands	3·25	1·79	+1·46	+82	+1·6	+3·3	+1·1	+3	+1·7
Assam (including Manipur and Tripura).	0·24	0·76	−0·52	−68	+1·6	+0·1	0	−5	−1·5
West Bengal	0·01	0·44	−0·43	−98	−0·1	−0·7	−1·0	−5	−0·8
Orissa	0·07	0·39	−0·32	−82	−1·3	−2·3	−1·7	−4	−1·3
Chota Nagpur	0·19	0·75	−0·56	−75	−1·0	−2·2	−1·1	−5	−1·0
Bihar	0·35	0·57	−0·22	−39	+0·4	−1·0	0	−1	−0·3
Uttar Pradesh, East	1·06	0·67	+0·39	+58	−2·1	+0·2	+0·3	+4	+0·5
Uttar Pradesh, West.	0·93	1·04	−0·11	−11	−1·9	−0·6	+0·4	+9	+0·1
Punjab (I) (including PEPSU & Delhi).	0·67	1·08	−0·41	−38	+0·3	−1·5	0	+7	+0·2
Jammu & Kashmir.	Data incomplete								
Rajasthan, West.	0·04	0·24	−0·20	−83	−0·1	−0·6	−0·1	+3	−1·1
Rajasthan, East (including Ajmer).	0·09	0·32	−0·23	−72	−1·3	−2·4	−0·7	+7	−0·6
Madhya Bharat	0·05	0·23	−0·18	−78	−1·3	−2·0	−0·9	+1	−0·6
Vindhya Pradesh	1·28	0·81	+0·47	+58	−1·1	−1·3	+0·2	+4	−0·2

—	Rainfall				Departure from normal of				
							8-30 hrs. I.S.T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
Division—*contd.*	"	"	"		°	°	mb.	%	
8. Madhya Bharat & Vindhya Pradesh.	0·58	0·48	+0·10	+21	−1·2	−1·7	−0·4	+2	+0·1
9. Madhya Pradesh	0·25	0·44	−0·19	−43	−1·3	−1·7	−0·6	0	−0·4
10. Bombay (including Saurashtra and Kutch).	0·01	0·10	−0·09	−90	−0·4	−0·5	−0·4	+2	−0·8
11. Hyderabad	0·01	0·27	−0·26	−96	−0·6	+0·6	−0·7	−1	−0·7
12. Madras (including Travancore-Cochin.)	0·45	0·85	−0·40	−47	−0·3	+0·8	−0·6	−4	0
13. Mysore	0	0·17	−0·17	−100	−0·6	+1·3	−0·3	+1	+0·3
Mean of India	0·29	0·50	−0·21	−42	−0·7	−0·7	−0·5	+1	−0·4
Sub-Division—*contd.*									
15. Madhya Pradesh, East.	0·16	0·42	−0·26	−62	−1·1	−1·9	−1·5	−7	−1·1
16. Madhya Pradesh, West.	0·32	0·46	−0·14	−30	−1·5	−1·6	0	+5	−0·6
17. Gujarat	0	0·07	−0·07	−100	−1·0	−0·9	−0·1	+6	−0·9
18. Saurashtra and Kutch.	0	0·07	−0·07	−100	−2·0	−1·7	−1·0	+4	−0·8
19. Konkan	0	0·06	−0·06	−100	+0·6	−0·5	0	+2	−0·7
20. Deccan (Desh)	0·02	0·15	−0·13	−87	+0·5	+0·5	−0·4	−2	−0·6
21. Hyderabad, North.	0·02	0·27	−0·25	−93	−0·8	+0·7	1·6	−3	−0·3
22. Hyderabad, South	0	0·26	−0·26	−100	−0·5	+0·6	0	+1	+0·2
23. Coastal Andhradesa.	0.07	0·41	−0·34	−83	−0·7	−0·4	−0·6	−2	−0·9
24. Rayalaseema	0	0·22	−0·22	−100	−0·4	+1·6	−0·7	−8	+0·2
25. Tamilnad	0·96	1·49	−0·53	−36	−0·1	+1·3	−1·1	−6	+0·6
26. Malabar & South Kanara.	0	0·23	−0·23	−100	+0·3	+1·1	+0·3	−1	+0·9
27. Mysore	0	0·17	−0·17	−100	−0·6	+1·3	−0·3	+1	+0·1
28. Travancore-Cochin	0·33	0·84	−0·51	−61	+0·4	+0·4	+1·3	−1	+1 9

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (o

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Bay Islands																					
Port Blair	259	1004·2	—0·7	1001·8	85·8	+1·6	88	15,16	74·9	+3·3	71	3	81·1	78·0	75·1	73·1	27·0	+1·1	25·5	74	+3
Assam																					
Dibrugarh	348	1006·0	—0·4	1002·4	73·1	+1·7	78	1	50·6	+0·5	47	7,8,27	59·9	64·1	57·1	59·8	14·5	+0·1	16·0	83	—8
Mohanbari (R)	364																				
Sibsagar	317	1007·3	+0·1	1003·0	73·7	+3·2	77	31	49·8	+0·1	46	8,26,28	60·4	62·4	58·0	60·1	15·2	+0·6	16·5	86	—7
Tezpur	258	1009·6	0	1004·6	75·5	+1·7	79	22	52·4	—0·1	49	28	59·0	66·0	56·5	61·0	14·5	—0·1	16·1	85	—3
Gauhati D. Type	162	1012·1	...	1007·0	74·9	...	78	31	46·9	...	43	29	60·0	(I) 63·6	57·4	(I) 59·3	15·0	...	15·1	84	...
Gauhati	182	1011·8	+0·1	1007·1	75·2	+0·6	78	2,31	51·0	0	48	26,28	58·8	67·5	56·5	60·8	14·4	—0·4	15·4	87	—1
Dhubri	115	1014·3	+0·5	1010·2	74·0	+0·6	78	28	55·0	+1·8	52	25,28	60·9	66·9	57·5	60·3	15·1	+0·5	15·0	80	—4
Silchar	96	1014·4	—0·2	1010·0	78·6	+0·6	82	21	52·3	0	46	25,27	59·1	71·8	56·7	63·6	14·6	—0·7	16·7	85	+2
Tura	1,215	975·2	...	972·2	74·6	...	78	4,8	54·0	...	50	19,25	60·8	63·8	55·6	59·0	13·0	...	14·7	71	...
West Bengal																					
Dum Dum	33	1016·3	...	1012·6	78·1	...	85	16	54·2	...	50	6 days	63·6	71·9	57·2	60·4	13·1	...	12·7	66	...
Calcutta	21	1016·8	0	1013·1	79·0	—0·6	85	16,17	55·3	+0·7	49	26	62·8	71·1	57·9	61·7	14·2	—0·5	14·6	73	—9
Saugor Island	10	1016·5	—0·4	1013·1	75·3	—1·7	79	30	58·4	—0·2	53	26	66·1	70·8	60·8	62·8	16·2	—1·4	16·0	73	—7
Sandheads	32	1016·3	—0·1	1013·1	...	...	...	...	...	...	...	...	72·3	73·8	64·9	64·8	17·5	—2·0	16·9	65	+2
Midnapore	149	1012·2	—0·1	1008·4	78·3	—2·5	85	17	52·5	—3·1	47	24	63·7	72·1	56·0	61·1	12·0	—1·2	13·5	60	—4
Contai	35	1015·5	...	1012·0	78·5	...	85	10,18	56·5	...	51	2,3	63·9	72·2	58·2	62·1	14·2	...	14·6	68	...
Burdwan	106	1013·2	—0·7	1009·2	79·2	+0·3	98	10	53·7	—1·0	48	24,27	59·0	74·8	54·0	61·9	12·0	—1·2	13·0	69	—1
Krishnagar	48	1016·0	+0·2	1012·3	78·5	+0·4	85	16,17	50·1	—1·5	45	4 days.	59·8	71·3	55·6	61·9	13·4	—0·3	14·6	76	+3
Asansol	414	1003·1	+0·3	999·1	78·3	+0·5	86	17	52·2	—0·5	47	2,24	61·0	72·6	54·1	59·2	11·1	—1·1	11·1	61	—5
Berhampore	62	1015·8	+0·2	1011·6	78·1	+1·4	85	17	52·3	—0·9	47	24,25,27	60·5	71·6	55·2	61·0	12·3	—1·6	13·7	69	—8
Malda	103	1014·3	+0·3	1010·3	75·7	+1·2	81	17	49·7	—0·3	43	24,25	62·5	69·2	56·1	59·6	12·4	—1·0	13·2	65	—7
Cooch Behar	145	1013·1	...	1009·1	76·5	...	80	3	50·8	...	47	19	60·6	67·8	55·9	61·4	13·4	...	15·6	73	—
Jalpaiguri	271	1007·9	—0·1	1004·1	75·3	+0·9	79	8	51·5	+0·5	48	19,24	54·9	70·2	52·8	60·8	12·8	—1·0	13·8	86	0
Bagdogra	418	1002·7	...	...	76·2	...	79	6,7,8	46·4	...	43	6,19	58·9	...	54·9	...	13·0	...	...	77	...
Orissa																					
Balasore	65	1015·2	—0·1	1011·4	79·8	—1·1	86	10	55·2	—1·1	50	13	63·6	71·6	56·9	62·8	13·1	—1·7	15·3	64	—8
Chandbali	20	1016·8	—0·1	1013·2	80·3	—1·0	88	15,17	56·7	—1·3	49	3	65·7	72·4	62·3	69·7	17·5	+1·3	23·8	83	+8
Puri	20	1016·5	+0·1	1013·0	79·5	—0·5	82	10,16	61·7	—2·0	57	3,4	67·4	74·1	61·8	66·3	16·4	—2·4	18·3	72	—5
Cuttack	87	1014·0	—0·5	1010·4	81·8	—1·3	87	17,18	58·5	—1·3	52	3,4	63·1	76·9	58·9	63·4	15·4	—1·3	13·8	76	—2
Gopalpur	56	1015·2	+0·1	1011·5	79·6	—1·0	83	12,16	60·2	—2·1	54	4	67·6	75·0	61·7	66·9	16·0	—2·0	19·0	70	—4
Koraput	2,996	914·4	...	911·8	75·5	...	83	17	50·8	...	43	6	59·9	69·5	54·2	57·3	12·5	...	10·8	70	...
Angul	455	1001·7	+0·4	997·5	78·4	—3·4	82	5 days	53·9	—2·2	48	3,4	62·2	76·3	57·0	62·5	13·7	—1·0	12·9	71	—2
Sambalpur	486	1000·0	—0·4	996·5	81·0	—0·8	86	17	50·1	—4·9	42	3	61·4	76·0	55·4	61·5	12·3	—2·0	12·1	67	—4
Jharsuguda	726	991·7	...	987·7	...	...	...	...	...	...	...	...	61·6	72·0	54·8	58·0	11·4	...	10·2	62	...
Titilagarh	691	992·9	...	988·7	82·3	...	88	17	52·9	...	45	3,4,5	62·5	77·4	56·1	61·8	12·4	...	12·3	65	...
Chota Nagpur																					
Purulia	835	988·8	...	985·0	77·0	...	86	18	53·1	...	48	2,25	61·6	72·1	53·8	59·2	10·5	...	11·3	57	...
Jamshedpur	423	1002·9	0	998·9	79·1	—1·3	86	16	51·0	—0·3	45	2	58·7	73·5	53·3	60·2	11·3	—1·3	11·6	68	—6
Chaibasa	742	991·2	0	987·3	78·3	—0·9	84	4 days	50·3	—2·1	44	3	56·7	73·5	52·1	60·0	11·3	—1·9	11·6	71	—5
Ranchi	2,150	942·6	+0·1	939·6	73·5	0	81	17	47·9	—3·2	43	5 days	57·7	66·3	49·9	54·2	8·9	—1·3	9·5	56	—3
Hazaribagh	2,006	947·6	0	944·7	71·3	—1·5	79	14,16,17	46·5	—3·8	41	26	57·8	64·5	50·3	52·5	9·4	—0·5	8·7	59	—1
Daltonganj	725	992·5	0	988·7	74·4	—1·5	84	14,15	45·8	—1·7	39	4	55·6	69·5	51·1	59·1	10·8	—0·7	12·4	72	—8
Dhanbad	839	987·8	...	...	75·4	...	84	15	51·4	...	46	24,28	60·4	...	52·6	...	9·9	...	...	56	...

(R) Register not received.

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0.10" or more)		Wind velocity miles per hour		Wind direction—Number of winds from :—																		STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
1	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bay Islands
1	+1·7	4·7	3·25	+1·46	1·96	28	4	+1·7	7·5	−1·0	1	18	8	0	0	0	0	0	4	0	21	6	0	1	0	0	0	3	Port Blair
																													Assam
7	−2·4	1·7	0·87	−0·62	0·45	23	2	−1·7	1·0	+0·4	2	8	16	1	0	1	1	0	2	0	1	3	0	4	1	1	0	21	Dibrugarh
																													Mohanbari (R)
7	−3·7	2·3	0·58	−0·63	0·56	18	1	−2·5	1·6	+0·5	3	4	0	5	7	2	1	2	7	4	1	0	0	1	0	0	9	16	Sibsagar
1	−1·6	0·9	0·11	−0·47	0·11	18	1	−0·5	1·0	−0·7	0	11	8	1	0	0	0	1	10	0	2	0	1	0	0	0	0	28	Tezpur
9	...	1·0 (i)	0·34	...	0·34	18	1	...	1·2	...	0	10	2	1	4	1	0	0	13	0	0	0	0	1	0	0	0	21	Gauhati D. Type
7	−0·3	1·3	0·10	−0·28	0·10	10	1	−0·1	1·6	+0·4	4	5	3	5	6	1	1	0	6	0	1	0	1	1	1	0	0	27	Gauhati
5	−0·2	0·8	0·02	−0·29	0·02	17	0	−0·8	0·9	−2·2	0	6	5	1	2	0	0	0	17	0	3	2	0	0	1	0	0	25	Dhubri
1	−0·7	1·5	0	−0·77	0	...	0	−1·5	1·0	−0·1	0	0	2	4	3	1	1	1	19	0	0	0	1	1	0	0	0	29	Silchar
9	...	2·9	0·12	...	0·08	17	0	...	3·6	...	0	1	3	10	1	1	0	1	14	0	4	8	8	6	0	0	0	5	Tura
																													West Bengal
8	...	0·4	0	...	0	...	0	...	2·6	...	11	4	0	0	0	0	1	4	11	9	0	1	0	1	0	1	8	11	Dum Dum
3	−1·5	0·5	0	−0·37	0	...	0	−0·8	2·0	0	6	1	1	0	1	0	1	5	16	3	0	0	0	0	1	1	4	22	Calcutta
4	−1·8	0·7	0	−0·41	0	...	0	−0·9	7·0	+1·5	15	10	0	0	0	0	1	5	0	13	3	0	0	6	4	1	4	0	Saugor Island
5	−1·3	0·7	0	−0·19	0	...	0	−0·5	...	...	11	12	0	0	0	4	0	3	1	11	7	1	4	1	2	0	2	3	Sandheads
9	−0·9	0·3	0	−0·47	0	...	0	−0·9	2·5	+0·9	17	9	1	1	0	0	0	0	3	3	6	0	0	0	0	0	0	22	Midnapore
1	...	1·5	0	...	0	...	0	...	2·5	...	13	4	0	0	0	1	0	8	5	2	0	0	4	11	0	0	1	13	Contai
	−1·8	0	0	−0·45	0	...	0	−0·9	2·4	+1·2	10	3	3	0	0	1	3	10	1	8	4	1	1	1	1	3	10	2	Burdwan
6	−0·7	0·6	0	−0·45	0	...	0	−0·9	1·3	+0·2	10	0	2	0	3	0	12	2	2	0	0	0	0	0	0	5	1	25	Krishnagar
3	−0·6	0·7	0	−0·67	0	...	0	−1·4	4·1	+0·8	4	0	0	1	0	0	5	17	4	4	1	0	1	0	0	3	15	7	Asansol
3	−0·5	0·5	0	−0·38	0	...	0	−1·0	0·9	−0·2	6	1	1	1	1	0	2	4	15	4	0	0	0	0	0	0	0	27	Berhampore
6	−0·4	0·7	0·13	−0·41	0·13	17	1	+0·1	3·0	+0·3	5	1	1	0	3	1	3	11	6	2	0	0	0	0	1	2	13	13	Malda
5	...	1·0	0·02	−0·24	0·02	17	0	−0·5	1·6	...	0	9	11	1	0	0	0	1	9	0	0	0	0	4	2	0	1	24	Cooch Behar
5	+0·1	1·1	0	−0·31	0	...	0	−0·7	1·8	+0·9	12	4	0	0	0	1	0	1	13	0	1	1	1	1	4	2	1	20	Jalpaiguri
2	...	...	0	...	0	...	0	...	1·6	...	5	4	3	0	0	0	0	0	19	...	...	...	...	...	...	...	...	...	Bagdogra
																													Orissa
7	−1·1	1·5	0	−0·53	0	...	0	−1·0	2·5	+0·7	19	4	0	0	0	1	1	5	1	1	0	0	9	1	0	0	0	20	Balasore
1	−1·7	0·4	0	...	0	...	0	...	0	−1·4	0	3	0	0	0	0	1	21	5	0	21	2	7	0	0	1	0	0	Chandbali
3	−1·5	0·7	0	−0·41	0	...	0	−0·6	7·3	+1·1	15	12	0	0	0	1	1	2	0	0	0	6	16	4	5	0	0	0	Puri
3	−1·7	0·6	0	−0·32	0	...	0	−0·7	2·2	+1·1	0	2	0	0	0	0	0	1	28	0	0	0	1	0	0	0	0	30	Cuttack
7	−0·7	1·0	0	−0·28	0	...	0	−0·5	6·0	−0·1	25	1	0	0	0	0	0	5	0	1	2	14	6	8	0	0	0	0	Gopalpur
6	...	2·5	0	...	0	...	0	...	6·6	...	1	1	2	2	13	12	0	0	0	15	4	1	4	0	0	0	7	0	Koraput
6	−1·7	0·3	...	...	...	...	...	...	3·1	+0·1	1	0	1	1	0	1	8	12	7	6	6	4	2	2	0	1	3	7	Angul
4	−1·4	0·6	0·36	−0·07	0·36	21	1	+0·1	1·9	−0·2	7	15	1	0	0	1	0	4	3	5	6	1	0	5	3	1	1	9	Sambalpur
5	...	0·5	0·09	...	0·08	20	0	...	...	...	16	3	0	0	0	0	0	0	12	2	0	0	0	1	0	0	0	28	Jharsuguda
6	...	0·5	0	...	0	...	0	...	1·2	...	0	0	1	4	4	0	0	0	22	0	1	1	0	1	0	0	0	28	Titilagarh
																													Chota Nagpur
6	...	0·8	0	...	0	...	0	...	2·0	...	14	1	0	1	0	1	4	9	1	10	3	1	0	3	1	1	3	9	Purulia
8	−1·1	0·6	0	−0·36	0	...	0	−0·9	2·2	+0·7	0	0	1	1	0	1	11	8	9	3	3	1	2	1	0	6	3	12	Jamshedpur
8	−1·2	0·5	0	−0·64	0	...	0	−1·4	1·0	−0·3	0	1	0	0	0	16	0	0	14	0	2	0	0	0	3	0	0	26	Chaibasa
6	−1·5	0·7	0·30	−0·62	0·23	21	1	−0·8	2·5	−1·0	6	0	0	0	2	1	0	2	20	2	0	0	0	0	0	0	6	23	Ranchi
6	−0·4	1·1	0·23	−0·66	0·15	21	1	−0·9	4·5	−0·7	0	1	1	2	2	3	2	9	11	8	3	0	1	1	0	1	17	0	Hazaribagh
9	−0·7	1·2	0·43	−0·49	0·43	20	1	−0·9	1·2	−0·6	0	0	4	1	0	0	2	2	22	1	5	6	1	0	0	2	5	11	Daltonganj
	...	...	0	...	0	...	0	...	3·7	...	3	4	1	0	0	4	2	6	11	...	...	...	...	...	...	...	...	...	Dhanbad

(i) Mean of 22 days. (a) Mean of 30 days.

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Relative humidity %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean	Departure from normal.	Highest	Date	Mean	Departure from normal.	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	2
Bihar																						
Purnea	124	1013·7	+0·2	1009·7	76·3	+1·6	81	16	46·0	—1·7	42	19,24,26	56·4	65·4	53·0	58·6	12·1	—0·4	13·5	79	—6	6
Darbhanga	161	1012·4	+0·3	1008·9	74·4	+0·1	79	15,16,31	48·5	—1·3	43	25	55·1	64·5	52·9	59·8	13·3	+0·3	15·6	86	+4	6
Motihari	218	1010·5	+0·8	1006·8	72·6	—0·5	77	16,31	46·5	—0·4	41	25	59·4	65·2	55·5	59·4	13·2	+0·7	14·5	77	—1	7
Patna	173	1011·9	0	1008·5	73·9	+0·9	81	16	49·7	—1·4	44	23,24	58·0	68·6	52·8	57·8	11·5	—0·7	11·3	68	—3	4
Dehri	352	1005·5	...	1001·9	73·9	...	80	13,14,15	50·2	...	45	3	57·1	68·4	53·0	58·0	12·0	...	11·7	75	...	5
Gaya	365	1004·9	0	1001·3	74·5	+0·2	81	14,15,16	47·5	—1·7	42	4,26	56·0	68·3	50·7	56·2	10·5	0	10·1	67	+4	4
Jamui	270	1008·7	...	1005·3	75·8	...	83	16	48·6	...	42	26	55·7	68·1	53·7	61·5	13·1	...	16·4	87	...	6
Dumka	489	1000·2	—0·3	996·8	77·8	+1·8	84	16	...	...	...	...	61·6	71·0	53·5	58·2	10·5	—1·6	10·6	55	—11	4
Sabour	122	1013·5	—0·2	1009·7	74·3	+0·3	81	14,16,17	45·6	+0·6	38	26	56·2	66·9	52·6	58·9	12·0	+0·1	13·4	77	—5	6
Bhagalpur	181	1012·0	...	1008·8	75·2	...	82	16,17	50·5	...	45	19	57·6	67·4	53·2	58·9	11·8	...	13·1	74	...	5
U. P. East																						
Gonda	360	1005·1	...	1002·4	71·1	—2·7	80	31	46·4	+0·6	41	2,24,25	51·6	64·4	49·9	57·9	11·8	+1·3	13·3	87	+7	7
Gorakhpur	254	1008·5	+0·1	1005·5	72·4	—0·6	78	31	49·2	+0·7	44	2,4	55·9	67·9	52·2	58·9	11·9	+0·2	13·0	76	—3	5
Azamgarh	255	(b) 1008·4	...	1005·4	72·9	...	79	9,30,31	...	...	...	...	52·1	67·5	49·7	54·2	10·9	...	12·9	85	...	5
Banaras	250	1009·0	+0·1	1005·7	72·1	—2·1	82	15	46·6	—1·5	41	4 days	53·3	69·0	50·5	57·9	10·9	—0·8	11·5	81	+3	4
Allahabad (Bamrauli).	322	1006·5	0	1003·4	72·2	—2·6	80	30	46·9	—0·2	40	26	54·4	67·0	51·1	57·8	10·9	+0·1	12·4	79	—1	5
Fatehpur	375	1005·0	...	1001·4	71·3	—3·9	80	30	47·6	+1·2	41	25,26,27	55·1	67·2	51·2	56·9	11·0	+0·4	10·9	77	+8	5
Banda	398	1003·1	...	1000·8	73·8	...	82	4 days	47·3	...	41	24	53·4	70·0	49·5	57·9	10·1	...	11·1	75	...	4
Orai	463	1000·8	...	(a) 996·9	71·7	...	81	30,31	45·6	...	40	4,26	(b) 52·1	(a) 68·5	(b) 49·8	(a) 61·3	(b) 10·9	....	(a) 15·4	(b) 81	...	(a) 6
Kanpur	414	1003·1	+0·2	1000·4	70·7	—1·2	80	30	47·2	+1·5	41	4 days	52·5	65·5	49·7	57·1	10·9	+0·5	11·8	81	+13	5
Lucknow	371	1004·9	+0·5	1002·1	71·4	—2·5	79	31	46·3	—0·8	41	3,4	51·5	66·1	49·1	58·1	10·5	—0·1	12·9	84	+6	5
Hardoi	467	1001·3	...	997·9	71·1	...	79	31	45·4	...	39	4	52·3	64·3	49·3	56·9	10·5	...	12·2	80	...	6
Kheri	483	1000·3	...	997·5	71·2	...	77	15,30,31	46·5	...	41	3	52·2	63·6	49·2	57·3	10·5	...	13·3	79	...	6
Bahraich	407	1003·7	+1·0	1000·7	71·6	—1·0	79	15	47·1	0	41	24	53·9	65·9	51·4	57·7	11·9	+0·9	12·9	81	0	6
U. P. West																						
Jhansi	823	988·5	—0·5	985·0	71·9	—4·2	83	31	46·3	—1·1	40	23	53·4	69·8	49·1	56·0	9·6	—0·1	9·1	72	+10	3
Agra	553	998·1	—0·1	995·3	70·5	—2·1	80	29,30,31	44·1	—0·2	37	1,2,3	48·1	68·7	45·2	55·4	8·8	+0·6	9·0	78	+14	3
Mainpuri	516	999·5	+0·1	997·0	70·5	—2·7	79	30,31	44·8	—0·8	37	3	51·7	65·6	48·1	58·8	10·1	+0·6	13·9	86	+13	6
Aligarh	615	995·7	...	993·0	70·3	—0·6	80	30	43·7	—1·5	38	3,24,26	49·2	66·6	45·9	56·4	8·8	+0·8	11·4	78	+14	5
Bareilly	568	997·0	—0·1	994·5	70·3	—0·5	77	30,31	46·3	0	41	2	50·4	65·1	47·7	55·6	10·1	—0·3	10·8	81	0	5
Meerut	728	991·8	+0·8	...	68·3	—1·6	77	30	44·2	—0·8	35	3	48·6	...	45·9	...	9·7	+0·7	...	81	+4	.
Roorkee	899	985·4	0	983·0	67·1	—1·3	75	30	44·5	+0·8	39	1,2	48·2	62·5	46·4	55·1	9·7	+0·3	11·7	87	+4	6
Dehra Dun	2,239	939·0	+0·6	937·3	64·3	—1·8	70	29	42·7	—1·3	37	22	47·3	58·8	44·8	52·3	9·0	+0·5	10·9	82	+9	6
Punjab (I)																						
New Delhi	710	992·2	—0·2	989·6	69·6	—0·9	80	29	44·2	+0·9	39	5	48·1	65·1	44·7	54·5	8·4	+0·7	9·8	74	+9	4
Hissar	725	992·3	0	989·4	71·8	+1·0	82	29	36·9	—4·5	33	24	43·3	67·8	40·1	55·1	7·1	—0·6	9·5	74	+5	4
Karnal	818	988·1	...	985·9	69·1	...	77	8	42·1	...	35	2	45·7	64·0	43·7	54·2	8·9	...	9·8	84	...	5
Ambala	892	984·7	—0·9	982·8	70·0	+0·9	79	29,30	42·8	—0·6	35	2	47·2	64·2	44·8	54·5	8·9	—0·1	10·3	83	+8	4
Patiala	822	987·7	...	985·6	68·5	...	78	29	42·4	...	33	2	46·4	62·7	44·0	53·1	8·5	...	9·7	81	...	4
Ludhiana	810	988·5	—0·2	987·3	67·3	+0·4	78	29	41·8	—1·9	35	2	46·3	64·4	44·3	54·5	8·9	+0·1	9·8	85	+6	4
Ferozepure	657	994·5	...	992·5	66·5	...	73	7,29	40·9	...	37	4 days	44·4	62·1	42·7	53·2	8·6	...	9·7	88	...	5
Amritsar	756	990·3	...	988·4	64·8	...	72	29	40·1	...	32	1	44·2	60·7	43·5	55·4	9·4	...	12·6	94	...	7
Jammu and Kashmir																						
Srinagar	5,205	845·3	—0·3	843·3	41·1	+0·1	49	4	29·1	+1·8	23	1,2,3	31·0	37·9	29·9	35·0	5·3	+0·3	5·8	89	+3	7
Gulmarg								Closed during Winter months.														

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

Cloud amount Oktas			Rainfall, inches				Number of rainy days (0.1" or more)		Wind velocity miles per hour		Wind direction—Number of Winds from:—																		STATION
											0830 hrs. I.S.T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from Normal.	Mean 1730 hrs. I. S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bihar
1·1	−0·3	1·0	0·08	−0·33	0·07	21	0	−0·8	2·2	+0·8	1	2	2	0	0	8	10	0	8	0	0	1	0	0	2	6	2	20	Purnea
1·2	−0·4	1·0	0·16	−0·28	0·13	17	1	0	0·3	−1·1	0	1	1	0	0	1	14	2	12	0	0	0	0	0	1	1	1	28	Darbhanga
1·8	−0·2	1·7	0·33	−0·14	0·20	21	2	+0·9	0·8	−0·7	0	0	1	0	0	0	4	2	24	0	0	0	0	0	0	5	0	26	Motihari
1·7	0	1·4	0·40	−0·19	0·16	21	2	+0·7	3·3	+1·1	0	4	0	3	1	16	4	1	2	0	5	0	0	0	3	14	1	8	Patna
1·3	...	1·6	0·69	+0·01	0·24	17,20	3	+1·5	2·7	...	1	0	1	2	6	17	0	3	1	2	7	0	0	0	0	0	14	8	Dehri
0·8	−0·9	1·2	0·73	+0·01	0·36	20	2	+0·7	3·2	0	0	0	2	9	13	3	1	0	3	9	0	2	0	0	0	3	13	4	Gaya
1·2	...	1·4	0·22	...	0·16	21	1	...	2·5	...	1	4	3	3	1	1	2	6	10	1	1	0	1	0	0	1	16	11	Jamui
0·8	−0·6	0·9	0·26	−0·41	0·26	17	1	−0·3	...	...	1	0	2	2	0	0	14	12	0	8	1	1	2	0	0	5	10	4	Dumka
1·7	−0·1	1·1	0·20	−0·34	0·13	17	1	−0·1	3·1	0	0	1	0	0	4	14	6	0	6	6	0	0	0	0	0	6	10	9	Sabour
1·2	...	1·2	0·13	...	0·09	17	0	...	3·3	...	0	1	2	1	2	8	10	2	5	0	0	1	2	0	0	18	8	2	Bhagalpur
																													U. P., East
2·5	+0·2	2·2	1·36	+0·85	0·56	20	3	−1·8	2·1	−0·6	2	1	3	1	0	0	8	3	13	0	0	2	0	0	0	2	1	26	Gonda
1·3	−0·1	1·6	0·95	+0·36	0·42	20	4	+2·7	2·0	+0·9	0	2	5	0	0	1	12	1	10	1	0	2	0	1	3	9	0	15	Gorakhpur
1·0	...	1·5	0·74	...	0·62	18	2	...	...	...	1	0	1	0	0	1	3	0	25	0	1	1	0	0	1	2	0	26	Azamgarh
1·7	+0·1	1·6	1·22	+0·48	0·76	20	2	+0·5	4·5	+2·3	1	0	7	0	1	12	3	1	6	3	2	4	0	0	1	8	13	0	Banaras
2·1	−0·2	1·9	0·66	−0·19	0·37	20	3	+1·9	2·6	0	1	5	5	1	4	8	2	2	3	7	5	1	1	0	0	6	5	6	Allahabad (Bamrauli)
2·5	+0·6	2·2	0·49	−0·05	0·26	20	2	+0·6	3·5	+1·5	0	1	10	1	1	1	6	3	8	0	1	4	0	0	0	2	4	20	Fatehpur
2·6	...	1·9	0·90	...	0·53	16	3	...	2·1	...	0	4	6	0	1	0	6	0	14	3	6	1	0	0	0	6	1	14	Banda
2·4	...	(a) 1·7	0·10	...	0·10	16	1	...	4·0	...	3	3	6	3	0	0	8	2	0	3	6	5	0	0	1	2	13	0	Orai
2·4	+1·1	2·1	1·34	+0·78	0·70	20	2	+0·6	4·4	+2·1	1	5	3	3	0	6	7	1	5	7	6	3	0	1	1	6	4	3	Kanpur
2·5	+0·7	2·3	1·55	+0·79	0·98	16	4	+2·5	1·3	0	0	2	6	0	1	0	9	1	12	1	0	4	0	1	1	6	2	16	Lucknow
1·2	...	1·5	1·07	...	0·50	16	3	...	2·4	...	4	4	3	4	0	2	10	3	1	7	0	6	2	2	2	5	7	0	Hardoi
2·5	...	2·3	1·82	...	1·62	17	2	...	1·3	...	1	3	3	3	0	3	6	3	9	0	1	2	1	0	2	4	2	19	Kheri
2·8	+1·3	2·1	0·92	+0·10	0·73	17	2	+0·4	2·6	+1·0	3	0	1	1	1	3	2	3	17	0	0	2	3	0	3	4	2	17	Bahraich
																													U. P., West
1·3	−0·4	1·1	0·29	−0·25	0·27	16	1	−0·2	1·4	−0·8	1	0	3	0	0	1	7	1	18	1	1	0	0	0	0	4	6	19	Jhansi
1·5	−0·7	1·7	0·43	−0·08	0·43	16	1	−0·2	1·8	−0·9	0	2	0	0	0	0	1	0	28	0	2	2	0	0	0	0	0	27	Agra
2·7	+0·5	2·1	0·71	+0·14	0·63	16	1	−0·3	...	...	0	0	3	3	1	3	5	1	15	0	0	2	4	0	1	2	8	14	Mainpuri
2·5	+1·0	2·2	0·16	−0·30	0·14	16	1	−0·2	3·3	0	0	1	2	0	0	0	3	6	19	1	0	2	0	0	0	1	4	23	Aligarh
2·9	+0·6	3·1	0·69	−0·30	0·34	16	3	+1·1	1·5	0	1	0	4	1	1	1	4	3	16	0	0	2	0	0	1	8	0	20	Bareilly
2·5	0	...	1·29	+0·04	0·56	16	3	+0·5	2·9	...	2	0	1	1	0	0	6	6	15	...	...	...	...	...	...	...	...	...	Meerut
2·3	−0·3	2·5	1·77	+0·10	0·67	17	5	+2·0	1·9	+0·1	0	1	2	2	2	1	3	8	12	0	0	0	3	0	2	2	11	13	Roorkee
2·5	+0·1	3·5	2·08	−0·24	0·58	17	5	+1·1	1·9	+0·4	4	5	0	2	0	0	2	0	18	1	0	0	0	0	10	1	1	18	Dehra Dun
																													Punjab (1)
2·3	+0·7	2·4	0·90	−0·09	0·53	16	2	0	4·7	...	0	0	1	3	1	2	11	7	6	4	2	8	2	0	1	0	10	4	New Delhi
2·5	−0·7	1·4	0·04	−0·46	0·04	13	0	−1·4	3·3	0	2	4	2	2	2	6	5	2	6	4	1	1	1	1	0	3	10	10	Hissar
2·0	...	3·2	1·10	...	0·40	7	4	...	2·6	...	1	3	3	2	0	1	8	5	8	3	0	2	4	0	1	5	6	10	Karnal
2·0	+0·2	3·2	0·64	−0·68	0·29	14	3	+0·5	3·9	+1·4	0	0	3	1	1	0	1	11	14	0	0	4	2	0	1	1	7	16	Ambala
2·3	...	3·6	0·60	...	0·43	8	1	...	4·3	...	4	0	4	5	1	0	2	6	9	8	0	2	7	1	0	0	10	3	Patiala
2·4	+0·7	3·2	1·11	−0·40	0·55	8	4	+1·3	1·1	−0·2	0	2	0	1	0	1	3	2	22	0	1	0	2	0	1	4	5	18	Ludhiana
2·2	...	3·6	1·63	...	0·85	7	4	...	...	...	0	1	0	0	0	0	2	2	26	0	0	0	1	0	0	0	2	28	Ferozepore
2·6	...	4·2	1·30	...	0·42	8	5	...	4·9	...	4	5	4	1	0	2	5	9	1	3	3	1	1	0	1	7	9	6	Amritsar
																													Jammu and Kashmir
9	+0·3	6·6	2·62	−0·28	0·55	13,28, 31	6	−0·1	1·9	−0·3	0	0	0	11	2	0	0	7	11	2	5	1	3	2	2	0	8	8	Srinagar
																													Gulmarg

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (

STATION	Height of bar. above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure Millibars			Relativ humidi %	
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Jammu and Kashmir—*contd.*																					
Dras (R)	10,059																				
Leh	11,529	664·1	—0·6	662·2	29·2	—0·2	33	days	8·9	+0·9	3	23,25	12·1	23·8	9·3	19·2	1·2	—0·5	2·2	53	—(
Skardu (R)	7,505																				
Gilgit (R)	4,890																				
Misgar (R)	10,190																				
Rajasthan West																					
Sri Ganganagar	580	997·4	...	995·0	68·4	+0·6	76	28	39·2	+1·1	33	20,24	45·6	63·7	43·1	54·8	8·5	+1·4	10·7	81	+(
Bikaner	734	991·2	—0·5	988·5	71·9	+0·5	83	28	38·2	—2·7	31	23	43·3	70·0	39·0	54·2	5·9	—1·3	7·1	65	0
Jaisalmer	793	988·9	...	985·9	74·4	...	82	27	44·1	...	37	2,16,17	48·3	71·1	41·6	54·3	6·0	...	6·7	51	...
Jodhpur	736	991·2	+1·2	988·2	75·4	9	83	28	48·4	—0·2	43	8,23	52·2	73·0	44·4	54·9	6·3	—0·3	6·7	49	+
Phalodi	783	989·3	...	987·1	72·9	...	82	28	42·4	...	38	4 days	45·1	70·6	40·4	57·6	6·6	...	10·4	64	...
Barmer	638	994·6	+0·1	991·3	75·8	—0·6	83	27,28	49·5	—0·5	44	20	52·6	73·7	45·3	52·1	7·1	—0·2	3·9	53	+
Rajasthan, East																					
Sikar	1,419	967·8	...	964·9	69·5	...	79	28	39·2	...	29	1	45·6	67·4	42·2	56·7	7·7	...	10·9	72	...
Jaipur	1,431	967·1	—0·6	964·5	72·5	—0·7	79	29,31	45·7	—1·1	37	23,24	53·5	68·3	45·7	52·5	6·6	—1·3	6·1	51	—
Ajmer	1,593	961·6	—0·4	958·6	71·5	—1·2	78	29	42·7	—3·0	35	24	47·2	67·7	42·3	51·3	6·9	—1·2	5·6	65	+
Kotah	843	987·6	—0·5	984·1	76·2	—0·9	85	31	48·6	—2·5	44	4 days	52·0	72·5	46·5	56·6	8·3	—0·7	8·7	63	+
Jhalawar	1,053	979·2	—1·1	976·0	75·9	—2·0	85	31	46·1	—1·8	37	1	49·1	74·2	45·3	56·8	8·4	—0·2	7·8	73	+1
Udaipur	1,910	950·4	—0·1	947·3	74·7	—1·1	81	28	43·7	—3·8	35	1	50·8	71·2	44·9	55·2	7·5	—0·3	7·6	61	+
Madhya Bharat																					
Gwalior	681	993·7	...	990·2	71·9	...	82	29,30	43·5	...	36	3,23,24	58·1	67·7	51·2	54·8	9·8	...	8·9	61	..
Sheopur Kalan*	771																				
Guna	1,571	961·7	—0·9	958·9	76·2	—0·9	84	31	43·8	—1·9	32	1	50·0	72·5	45·0	55·3	8·2	—0·2	8·0	67	+
Neemuch	1,626	960·3	—0·3	957·5	75·8	—1·3	81	7,12,31	46·8	—1·8	39	1	52·2	72·9	44·5	54·1	6·9	—1·5	6·7	52	—
Ratlam	1,596	960·6	[illegible]	957·7	78·3	...	84	31	49·2	...	44	1,2	53·1	75·5	47·5	60·9	9·0	...	12·3	64	..
Indore	1,839	952·1	—0·8	949·0	78·5	—1·0	85	27,31	46·4	—3·0	40	1	55·3	75·4	49·5	56·4	8·1	—2·1	7·9	55	—
Bhopal Bairagarh)	1,714	956·8	—0·9	953·7	77·2	—2·1	84	31	48·5	—1·3	41	23	55·7	73·1	48·6	56·1	8·5	0	7·7	60	+
Madhusagar	757	990·4	...	987·5	72·8	...	83	30	48·3	...	43	4 days	52·0	69·3	48·8	58·0	10·3	...	11·4	78	..
Vindhya Pradesh																					
Nowgong	750	991·2	0	987·8	73·9	—1·0	85	13,31	45·3	—1·3	38	4 days	52·4	70·4	49·2	56·6	10·5	+0·3	9·5	80	-
Satna	1,041	980·9	+0·1	977·3	74·5	—0·5	84	14	46·8	—1·2	38	1	55·8	70·1	51·2	58·3	10·8	+0·4	11·3	72	-
Umaria	1,506	964·4	...	961·1	75·3	—1·7	85	14	45·2	—1·3	36	25,26	54·0	70·0	49·9	57·8	10·2	0	11·4	71	-
Madhya Pradesh, East																					
Gondia	1,026	481·1	...	977·4	79·8	...	85	13,28,30	52·2	...	44	2,3	60·4	76·1	53·9	61·7	11·3	...	12·3	63	.
Pendra	2,040	946·3	—0·3	943·3	73·7	—0·9	81	12	48·4	—2·2	42	2,4	58·4	68·1	50·2	54·4	9·2	—1·8	9·0	55	.
Ambikapur	1,989	...	...	...	73·1	...	81	14	43·0	...	34	3	51·2	70·2	47·4	55·1	9·6	...	8·7	76	.
Raigarh	723	...	...	...	82·0	...	87	17,18	52·9	...	46	4	59·8	76·9	52·8	59·5	10·6	...	9·9	59	.
Champa	805	989·1	...	985·0	80·6	...	85	6 days	52·8	...	46	4	58·5	77·6	52·3	59·5	10·6	...	9·3	63	
Raipur	979	982·7	+0·1	979·0	79·2	—2·4	84	31	53·5	—2·3	47	3	59·6	77·0	52·8	61·6	10·6	—1·8	11·6	62	
Kanker	1,318	970·8	—0·3	967·2	80·5	—2·1	86	31	51·1	—1·1	42	2,3	60·0	78·1	54·4	62·7	11·9	—1·1	13·0	68	
Chanda	634	994·0	—0·4	989·6	85·2	0	89	17,30	54·0	—1·4	41	3	63·8	82·3	55·6	62·2	11·3	—2·7	10·3	56	-
Sironcha	405	...	...				90	17	58·2	...	46	3	64·8	83·9	59·4	65·8	15·2	...	14·3	72	
Jagdalpur	1,815	953·7	—0·4	949·8	81·9	+0·1	88	17	48·0	—2·4	41	5	57·8	76·7	52·7	58·9	11·5	0	9·8	71	

R.—Register not received. *Data not reliable.

Cloud amount (Oktas)		Rainfall, inches				Number of rainy days (0.10" or more)		Wind velocity miles per hour		Wind direction—Number of Winds from:—																			STATION
										0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Jammu and Kashmir—*contd.*
																													Dras (R)
—0·6	4·8	0·14	—0·24	0·05	13	0	—1·0	2·9	+1·8	0	2	0	0	0	0	0	1	28	1	0	1	4	3	11	0	0	11		Leh
																													Skardu (R)
																													Gilgit (R)
																													Misgar (R)
																													Rajasthan, West
—1·1	1·5	0·21	—0·24	0·13	13	1	—0·3	2·0	—1·5	1	2	5	1	1	0	0	3	18	2	1	2	0	0	0	3	10	13		Sri Ganganagar
—1·3	1·2	0	—0·27	0	...	0	—0·8	1·6	—1·4	0	1	0	8	0	2	0	2	18	1	15	0	3	0	2	0	7	3		Bikaner
...	1·0	0	...	0	...	0	...	5·3	...	0	13	2	1	1	6	0	1	7	3	12	0	2	1	1	0	11	1		Jaisalmer
—1·3	1·3	0	—0·15	0	...	0	—0·3	4·0	—2·9	3	13	11	0	0	0	0	0	4	5	8	6	0	0	3	3	5	1		Jodhpur
...	1·5	0	—0·14	0	...	0	—0·5	4·7	...	3	6	8	6	4	1	1	2	0	10	5	4	3	0	0	3	6	0		Phalodi
—0·8	1·3	0	—0·18	0	...	0	—0·4	5·0	+0·3	0	1	0	0	0	0	0	22	8	5	10	2	0	2	1	2	2	7		Barmer
																													Rajasthan, East
...	2·5	0·20	...	0·15	21	1	...	3·3	...	0	3	7	7	2	0	0	0	12	3	2	2	2	2	3	3	7	7		Sikar
—0·2	1·9	0·08	—0·36	0·08	16	0	—1·0	3·8	+0·3	3	5	8	3	2	1	0	0	9	5	4	3	3	2	2	3	5	4		Jaipur
—0·7	1·4	0·05	—0·32	0·05	13	0	—1·0	2·4	+0·8	1	1	1	1	2	1	2	1	21	4	3	1	1	2	0	3	4	13		Ajmer
—1·2	0·4	0·20	—0·04	0·20	7	1	+0·4	1·5	+0·2	0	0	2	0	1	0	0	3	25	0	4	3	0	0	0	4	3	17		Kotah
—0·8	0·8	0·21	—0·07	0·21	7	1	+0·3	2·3	+0·3	6	1	0	1	1	1	0	3	18	7	10	3	0	0	0	3	5	3		Jhalawar
—0·8	1·1	0	—0·20	0	...	0	—0·4	1·5	...	2	0	0	0	0	1	0	6	22	0	7	10	0	1	7	3	2	1		Udaipur
																													Madhya Bharat
..	2·1	0·26	...	0·16	7	1	...	1·2	...	3	6	1	0	3	1	0	7	10	6	4	5	1	0	1	1	8	5		Gwalior
																													Sheopur Kalan*
+0·3	1·4	0·09	—0·17	0·07	7	0	—1·2	3·0	+0·9	2	1	11	3	3	1	1	0	9	3	4	4	2	2	3	4	7	2		Guna
—0·8	0·9	0	—0·20	0	...	0	—0·4	3·7	—0·3	0	16	2	1	0	0	1	3	8	2	14	1	0	1	3	3	2	5		Neemuch
...	3·3	0	...	0	...	0	...	5·3	...	6	13	5	1	0	1	1	2	2	3	5	5	0	0	4	9	4	1		Ratlam
—1·2	0·8	0	—0·20	0	...	0	—0·5	4·3	+0·6	0	6	6	8	3	1	3	0	4	7	5	0	1	3	9	2	4	0		Indore
—0·8	0·9	0·10	—0·14	0·10	7	1	+0·2	5·7	+0·6	2	4	6	8	1	3	1	0	6	4	4	3	1	2	4	2	3	8		Bhopal (Bairagarh)
...	1·8	0·65	...	0·41	16	2	...	3·5	...	4	3	0	0	3	13	0	0	8	8	10	3	2	1	1	0	4	2		Madhusagar
																													Vindhya Pradesh
—0·1	1·6	0·96	+0·37	0·80	16	2	+0·5	1·6	+0·5	1	6	0	0	1	9	2	0	12	8	13	0	0	0	1	1	2	6		Nowgong
+0·3	2·7	2·55	+1·72	1·30	17	3	+1·2	2·7	+0·6	0	0	3	2	1	1	0	0	24	1	0	3	1	0	1	0	3	22		Satna
—0·8	1·8	0·34	—0·67	0·17	20	2	—0·1	1·7	—0·4	2	2	2	6	2	1	0	1	15	7	2	3	0	0	0	2	6	11		Umaria
																													Madhya Pradesh, East
...	0·6	0·13	...	0·13	20	1	...	1·9	...	4	7	4	2	1	3	1	1	8	8	2	3	1	1	2	1	1	12		Gondia
—1·0	1·6	0·29	—0·56	0·29	20	1	—0·7	2·9	+0·1	8	1	2	0	12	2	0	2	4	15	1	0	0	7	3	0	4	1		Pendra
...	0·9	0·49	...	0·32	17	2	...	3·5	...	6	4	1	0	4	5	0	2	9	19	2	0	0	1	1	1	5	2		Ambikapur
...	0·5	0·24	...	0·16	20	1	...	2·6	...	6	19	1	1	1	0	0	0	3	3	5	1	3	0	0	1	5	13		Raigarh
...	0·8	0·53	...	0·53	20	1	...	3·5	...	4	4	2	0	0	0	0	6	5	6	3	5	2	0	0	2	6	7		Champa
—1·0	0·7	0·18	—0·19	0·18	20	1	+0·2	2·5	—0·3	2	2	1	2	2	0	0	0	12	10	3	2	2	0	1	0	2	11		Raipur
—1·4	0·8	0·25	+0·05	0·14	21	2	+1·5	2·0	+0·2	0	0	0	0	1	0	0	0	30	3	7	0	0	0	0	0	2	19		Kanker
—0·3	1·0	0·10	—0·21	0·10	20	1	+0·5	2·1	+0·5	0	1	0	2	0	0	0	0	28	0	2	0	2	0	1	0	2	24		Chanda
...	0·8	0	...	0	...	0	...	2·5	...	3	2	7	6	2	0	0	2	9	5	3	6	5	1	1	1	3	6		Sironcha
—1·7	0·6	0	—0·39	0	...	0	—0·7	1·9	+0·6	4	1	0	2	1	0	4	2	17	3	6	0	0	0	4	3	7	8		Jagdalpur

(*a*) Mean of 30 days.

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Rel hun
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Madhya Pradesh, West																				
Buldhana	2,133	941·8	...	938·7	80·1	...	86	31	58·0	...	53	1,2	61·5	78·1	51·9	60·5	9·4	...	10·9	51
Akola	925	983·7	—0·3	979·0	84·8	—1·3	91	31	54·5	—0·4	47	2	59·0	82·1	52·9	62·7	11·0	+0·8	10·7	61
Amravati	1,213	973·8	—0·3	969·9	82·7	—2·1	89	31	57·5	—1·6	50	2	61·6	81·0	53·6	62·9	10·5	0	11·5	55
Yeotmal	1,481	964·4	...	961·1	82·4	...	88	31	58·2	...	52	1,2	64·4	79·4	54·8	61·0	10·4	...	10·0	51
Khandwa	1,044	979·3	—0·7	975·3	84.0	—0·8	91	31	50·5	—2·1	41	2	58·8	80·8	50·3	59·4	8·6	—1·0	7·7	51
Hoshangabad	992	981·6	—1·0	978·0	78·7	—1·7	88	31	52·7	—1·5	41	2	57·4	76·4	51·7	60·1	10·5	+0·3	10·4	65
Sagar	1,808	953·5	—0·6	950·6	73·4	—3·3	83	31	51·5	—1·0	45	1,23	55·9	69·9	49·2	55·2	9·3	+0·8	9·0	62
Jabalpur	1,289	972·1	+0·3	968·5	77·3	—0·1	84	3,13,15	47·2	—0·7	39	25	54·4	72·4	50·4	60·2	10·7	—0·3	12·3	75
Mandla	1,452	966·2	...	962·1	77·3	...	83	14,30	43·5	...	35	2	49·6	72·2	47·8	53·3	10·5	...	9·2	88
Seoni (R)	2,027																			
Chhindwara	2,248	938·8	...	935·7	76·7	...	81	11,28,30	49·1	...	38	2	55·2	73·7	49·7	56·5	10·0	...	8·6	67
Betul	2,144	942·4	...	939·1	77·1	...	82	4 days	50·0	...	42	2	57·4	71·8	51·0	56·5	10·2	...	9·4	63
Nagpur	1,010	981·4	—0·1	977·2	82·2	—1·5	88	28	52·0	—4·0	40	2	61·1	78·9	53·4	61·1	10·4	—0·6	10·3	57
Gujarat																				
Deesa*	466																			
Surat	39	1013·8	—0·5	1009·9	88·9	+2·1	95	11,28	56·7	—1·1	50	17	59·7	80·2	53·1	65·9	10·8	—1·5	15·3	62
Ahmedabad	181	1009·6	—0·8	1006·0	82·0	—2·3	87	28	50·3	—2·6	46	1	56·8	79·3	49·5	61·2	8·8	+0·1	10·3	56
Dohad	1,093	977·8	...	974·3	81·5	—2·6	88	28	51·9	—0·1	45	1	56·3	78·1	50·8	65·1	10·2	+0·8	15·3	66
Baroda	115	1011·5	...	1007·8	85·2	—1·1	91	28	49·9	+0·3	43	3	52·9	84·2	48·5	62·6	9·7	+0·2	9·7	71
Broach§	57	1013·5	...	1009·7	87·0	...	91	29	53·0	...	47	17	54·5	84·1	49·9	66·8	10·2	...	14·6	70
Saurashtra and Kutch																				
Bhuj	343	1005·1	+0·4	1001·8	77·8	—1·6	85	27	49·1	—3·2	42	4	52·9	76·2	46·9	55·9	8·3	—1·5	6·2	59
Dwarka	37	1015·1	—0·3	1012·3	75·8	—2·1	80	8,10	58·6	—0·9	...	...	61·1	72·3	55·9	60·2	12·9	—0·9	12·4	70
Jamnagar	61	1014·3	—0·5	1011·2	77·4	—3·1	80	4 days	49·5	—0·8	42	1	53·9	74·7	49·0	60·7	9·7	+0·1	11·8	67
Rajkot	432	1000·7	—0·4	997·3	81·3	—2·0	88	28	49·5	—1·5	43	1	53·3	79·3	46·2	57·6	7·5	—0·8	6·5	55
Veraval	26	1014·3	—0·8	1011·1	83·6	...	90	4 days	54·6	...	47	17	60·4	75·2	49·9	66·5	7·5	...	18·3	43
Bhavnagar	55	1014·1	—0·3	1010·3	82·8	—1·2	88	28	51·9	—2·1	47	4 days	53·9	80·5	45·5	61·3	6·7	—2·0	9·9	47
Konkan																				
Dahanu	15	1013·5	...	1011·0	...	...	...	...	59·9	...	56	21,22,31	64·4	74·7	59·2	70·4	14·8	...	23·4	72
Bombay	35	1012·9	—0·8	1009·9	84·7	+1·5	92	10	65·2	—1·5	61	17	70·7	77·3	64·2	69·3	17·6	—0·7	20·8	69
Alibag	23	1013·4	—0·6	...	82·8	+0·2	89	2	63·2	—0·3	58	31	68·1	...	62·0	...	16·3	+0·3	...	69
Harnai	66	1011·0	...	1008·3	82·1	...	91	10	71·1	...	67	16,17,31	74·1	77·9	64·7	72·8	16·6	...	25·3	57
Devagad	117	1009·0	...	1005·7	86·3	...	92	10	69·3	...	67	10,17,31	72·1	82·6	65·4	73·1	18·4	...	23·5	69
Vengurla	29	1012·2	...	1008·8	89·6	...	96	31	64·7	...	58	31	70·6	83·8	64·4	71·6	17·9	...	20·9	70
Marmagao	202	1006·0	—1·1	1002·7	85·9	0	91	10	70·6	+0·3	69	6 days	73·6	82·2	67·2	72·3	19·9	+0·5	22·6	69
Honavar	85	1010·1	...	1006·5	90·2	...	95	11	68·2	...	64	21	73·8	84·8	66·3	73·6	18·7	...	23·3	67
Deccan (Desh)																				
Jalgaon	660	992·1	...	988·5	86·5	...	91	4 days	51·5	...	43	28	57·3	84·6	50·7	65·5	9·6	...	12·9	58
Malegaon	1,432	966·3	—0·1	961·9	85·9	—0·3	91	27	51·2	—1·2	45	21	61·2	82·2	51·7	60·5	8·8	—0·4	8·2	46
Deolali	1,874	950·4	...	...	84·0	...	88	27	49·8	...	45	10,13	60·3	...	50·1	...	8·2	...	...	47
Ahmednagar	2,154	941·2	—0·8	937·0	84·6	+0·1	89	27	54·2	+1·0	49	10	60·9	82·1	52·6	64·1	10·3	+0·4	13·2	56
Poona	1,834	951·8	—0·7	947·8	87·2	+0·7	91	27,30	53·0	0	47	9,10	58·6	82·8	52·8	62·5	11·3	+0·5	11·1	68
Jeur	1,709	956·1	...	951·9	85·8	...	89	26,27,30	55·4	...	46	9	63·4	84·2	54·2	64·9	10·2	...	12·3	52
Sholapur	1,570	960·9	—0·6	956·8	87·8	+0·4	92	31	60·9	+1·6	53	9	69·2	84·9	56·4	63·2	10·4	—0·6	13·2	43

*Data not reliable.

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0-10″ or more)		Wind velocity miles per hour		Wind direction—Number of Winds from:—																		STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
4	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	
																														Madhya Pradesh, West
·5	...	1·6	0·60	...	0·58	15	1	...	...	...	5	0	4	3	14	0	0	1	4	3	7	0	1	2	6	0	12	0		Buldhana
·1	−0·6	1·0	0·40	+0·05	0·18	19	2	+1·3	3·8	+1·1	0	6	8	2	3	2	0	1	9	5	7	5	2	2	3	1	4	2		Akola
·9	−0·8	1·1	0·47	+0·10	0·24	19	2	+1·2	6·0	+2·4	0	26	0	3	0	2	0	0	0	0	9	0	9	0	7	0	6	0		Amravati
·0	...	1·9	0·05	...	0·03	15	0	...	6·4	...	0	17	0	11	0	2	0	1	0	0	14	1	5	1	6	0	4	0		Yeotmal
·6	−0·8	0·6	0	−0·31	0	...	0	−0·6	3·3	+0·6	2	8	3	2	1	1	2	0	12	7	6	1	2	4	4	1	4	2		Khandwa
·4	−0·3	1·5	0·28	−0·12	0·20	16	1	+0·1	2·4	+0·3	1	6	10	3	1	0	0	0	10	0	2	5	1	1	2	0	1	19		Hoshangabad
·6	−0·2	1·6	0·39	−0·18	0·36	20	1	−0·3	9·8	+1·5	1	6	9	7	2	2	1	0	3	1	16	1	2	0	3	0	7	1		Sagar
·2	−0·6	1·3	0·66	−0·16	0·29	16	2	+0·3	2·3	+0·9	2	1	0	19	1	0	0	1	7	2	13	0	6	1	2	1	1	5		Jabalpur
·2	...	1·2	0·74	...	0·48	15	3	...	0·7	...	1	0	0	0	0	0	1	0	29	8	0	0	1	4	0	0	5	13		Mandla
																														Seoni (R)
·9	...	1·0	0·51	...	0·47	15	1	...	3·0	...	3	2	3	1	1	1	1	3	16	3	3	1	2	6	7	2	7	0		Chhindwara
·6	...	1·1	0·56	...	0·28	15,16	2	...	3·1	...	0	1	10	13	1	0	0	0	6	9	7	1	1	4	2	2	3	2		Betul
9	−0·9	1·2	0·01	−0·36	0·01	20	0	−0·8	3·1	...	4	16	2	1	0	0	0	5	3	1	5	14	4	2	2	0	1	2		Nagpur
																														Gujarat
																														Deesa*
1	−1·1	0·2	0	−0·11	0	...	0	−0·2	4·3	+1·5	11	11	1	0	0	0	0	3	5	7	4	0	0	1	1	2	14	2		Surat
3	−1·0	0·5	0	−0·02	0	...	0	−0·1	3·6	+1·1	4	10	4	0	1	1	0	1	10	3	9	2	0	0	1	4	8	4		Ahmedabad
8	−0·7	0·4	0	−0·09	0	...	0	−0·2	5·1	+2·6	2	9	6	4	4	1	1	0	4	5	4	1	1	2	6	6	2	4		Dohad
4	−0·6	0·6	0	−0·06	0	...	0	−0·1	1·8	−0·9	1	12	1	0	0	1	0	0	16	3	8	0	0	0	1	4	4	11		Baroda
1	...	0·6	0	...	0	...	0	...	3·8	...	9	4	2	2	1	0	1	4	1	5	5	1	0	1	2	3	7	0		Broach§
																														Saurashtra and Kutch
3	−1·0	0·2	0	−0·08	0	...	0	−0·2	3·3	−0·8	0	6	0	0	2	0	0	0	23	12	8	0	0	0	0	5	5	1		Bhuj
8	−0·8	0·2	0	−0·10	0	...	0	−0·3	9·0	+0·8	8	15	6	0	0	0	0	2	0	6	6	2	0	0	0	1	16	0		Dwarka
7	−0·3	0·4	0	−0·05	0	...	0	−0·1	9·1	...	1	10	6	3	8	0	1	0	2	14	6	0	0	0	1	6	4	0		Jamnagar
5	−0·5	0·3	0	−0·04	0	...	0	−0·1	6·1	+2·0	4	8	3	2	1	1	0	2	10	9	10	1	0	0	0	1	10	0		Rajkot
1	−1·0	0·3	0	−0·04	0	...	0	−0·1	9·7	...	14	16	0	0	0	0	0	0	1	1	2	0	0	3	5	9	11	0		Veraval
2	−1·2	0·4	0	−0·09	0	...	0	−0·1	2·9	−0·7	1	0	0	0	1	4	11	0	14	1	12	12	0	1	0	2	0	3		Bhavnagar
																														Konkan
5	...	0·3	0	...	0	...	0	...	8·1	...	4	5	12	10	0	0	0	0	0	14	0	0	0	0	0	2	15	0		Dahanu
4	−0·9	0·3	0	−0·14	0	...	0	−0·2	5·4	−1·2	2	14	12	3	0	0	0	0	0	9	0	0	0	0	0	1	21	0		Bombay
1	−1·4	...	0	−0·05	0	...	0	−0·2	2·8	−1·8	1	8	6	2	0	0	0	0	14	...	...	...	...	...	...	...	...	...		Alibag
5	...	0·3	0	...	0	...	0	...	8·5	...	7	6	7	0	0	0	2	8	1	1	0	0	0	0	0	3	27	0		Harnai
6	...	0·4	0	...	0	...	0	...	6·5	...	0	3	28	0	0	0	0	0	0	0	0	0	0	0	1	18	12	0		Devagad
9	...	0·5	0	...	0	...	0	...	...	...	5	1	1	0	0	0	0	0	24	0	0	0	0	0	8	13	1	9		Vengurla
8	+0·3	1·2	0	0	0	...	0	0	6·5	+0·9	0	8	16	7	0	0	0	0	0	0	0	0	0	0	5	17	9	0		Marmagao
8	...	1·5	0	−0·05	0	...	0	−0·1	2·6	...	0	4	19	4	0	0	0	2	2	1	0	0	0	0	1	18	11	0		Honavar
																														Deccan (Desh)
3	...	0·9	0	−0·34	0	...	0	−0·6	3·8	...	0	2	11	10	0	1	0	1	6	1	5	7	1	2	3	4	6	2		Jalgaon
8	−0·6	1·1	0	−0·17	0	...	0	−0·3	3·1	−0·5	0	0	0	1	0	0	5	2	23	0	1	1	2	0	4	6	3	14		Malegaon
3	...	...	0	...	0	...	0	...	3·6	...	7	8	1	0	1	0	0	0	14	...	...	...	...	...	...	...	...	...		Deolali
8	−0·5	1·0	0·16	−0·05	0·13	19	1	+0·6	3·7	0	2	0	0	1	3	1	2	12	10	1	5	2	3	2	9	0	3	6		Ahmednagar
6	−0·8	0·9	0·02	−0·04	0·02	19	0	−0·2	1·4	−2·3	0	0	0	0	0	1	2	0	28	0	0	6	0	0	1	8	3	13		Poona
3	...	2·2	0	...	0	...	0	...	4·1	...	6	7	0	0	1	1	1	3	12	2	2	2	7	8	4	2	2	2		Jeur
5	−0·8	1·8	0·02	−0·13	0·02	15	0	−0·3	6·1	+0·4	0	9	5	3	3	1	0	0	10	6	2	4	5	3	3	1	3	4		Sholapur

§ Observations for 24 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T.

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure Millibars			Re hu
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Deccan (Desh)—*contd.*																				
Miraj	1,817	952·0	—1·3	948·1	87·4	+1·2	91	26,28	58·6	+1·0	53	31	64·4	84·9	55·6	64·9	11·5	—1·1	12·9	57
Kolhapur	1,885	950·1	...	946·0	86·3	...	89	5 days	58·6	...	55	5,7,13	63·6	83·9	54·8	62·2	11·1	...	10·3	57
Bijapur	1,950	947·2	—1·4	*944·0	86·1	—0·1	90	27,30	60·5	+0·3	52	8	68·7	83·8	57·5	63·4	11·6	—1·8	11·7	49
Belgaum	2,562	927·4	—0·7	924·1	83·6	—0·3	86	4 days	58·3	+0·6	55	5,16	63·3	81·2	56·3	61·6	12·7	0	10·8	63
Gadag	2,131	941·6	—0·9	938·0	87·4	+2·1	91	21	62·4	+0·9	52	7	70·5	83·3	60·5	63·4	13·9	—0·1	11·9	55
Hyderabad, North																				
Aurangabad	1,905	950·2	—0·5	946·4	83·9	—0·8	89	28	56·6	—0·1	52	21	62·4	82·0	51·6	63·9	8·7	—1·1	13·0	45
Parbhani	1,350	967·5	...	963·2	85·9	...	91	31	55·0	...	47	4	64·0	83·4	53·1	62·0	8·9	...	9·3	45
Ramagundam	527	998·0	...	993·3	87·6	...	91	30	61·0	...	55	10	69·5	85·1	59·7	66·6	13·1	...	14·0	53
Nizamabad	1,250	971·3	—1·1	967·4	85·6	—0·6	89	20,30	59·1	+1·5	49	3	65·0	82·9	57·0	62·6	12·3	—1·8	10·2	59
Bidar	2,178	940·5	...	936·9	82·8	—0·9	87	28	61·5	+0·6	57	2,3,7	66·3	79·4	57·3	60·2	12·4	—2·0	10·0	57
Hyderabad, South																				
Gulbarga	1,503	963·3	—0·6	959·1	86·1	—1·2	89	4 days	61·1	+1·1	53	3	68·2	84·1	58·0	63·2	12·3	—0·3	11·3	52
Raichur	1,311	969·7	—0·6	965·7	86·0	—0·8	89	4 days	65·5	+0·8	61	7	69·8	84·0	62·6	64·3	16·2	+0·2	11·7	65
Hyderabad (Begumpet)	1,778	954·3	—0·4	950·9	84·3	—0·4	88	30	58·7	0	50	4,7	63·5	79·7	59·8	62·9	16·1	+0·4	12·8	80
Hanamkonda	881	985·3	—0·6	981·2	85·4	+0·4	89	4 days	62·3	+0·4	52	3,4	68·1	81·5	62·9	63·6	17·3	—0·3	12·1	73
Khammameth	367	1003·2	...	998·8	87·3	...	90	4 days	62·9	...	55	7,9,10	69·7	84·8	67·0	70·7	21·5	...	19·3	86
Coastal Andhradesa																				
Nellore	66	1013·1	—0·7	1009·8	85·4	+0·2	89	21	66·7	—0·8	63	31	71·9	78·6	68·9	70·3	22·8	—0·4	21·5	85
Ongole	38	1014·4	...	1010·8	83·6	...	86	21	66·6	...	63	6,10	71·6	78·9	70·4	77·5	24·8	...	32·0	94
Gannavaram	88	1013·1	...	1009·1	...	...	...	...	...	...	...	...	73·4	79·6	67·6	68·7	20·4	...	19·0	73
Masulipatam	10	1015·9	—0·2	1012·1	81·5	—1·5	89	19	66·5	+0·5	62	6	74·1	77·3	68·5	69·7	21·3	—0·9	21·4	74
Kakinada	26	1015·5	—0·1	1011·8	80·6	—0·5	83	21,22	65·7	—0·7	61	4 days	75·1	77·1	67·9	69·1	20·2	—0·1	20·7	67
Visakhapatnam	126	1012·0	—0·2	1008·6	79·5	—1·1	83	10	66·5	—0·9	62	9,11	71·5	76·0	65·0	68·0	18·1	—1·7	19·8	69
Calingapatam	19	1015·7	—0·5	1012·3	79·4	—2·4	84	11	62·0	—1·5	57	5	65·4	76·7	62·0	69·2	17·4	—1·9	21·0	81
Rentachintala	348	1003·7	...	999·1	88·4	+1·2	92	30	62·5	+0·8	53	7	70·3	85·5	64·9	66·6	18·5	+1·2	13·7	73
Rayalaseema																				
Cuddapah	428	1000·8	—0·1	996·0	88·6	+0·5	91	18,21,22	67·7	+2·0	60	7	77·5	85·3	66·4	74·9	17·1	—3·1	24·8	54
Bellary	1,473	964·0	—0·6	959·7	86·3	—1·5	89	20	64·1	+1·8	59	7	68·7	84·1	61·9	65·0	15·8	+0·5	12·5	66
Kurnool	923	983·3	—0·4	978·8	88·3	—0·1	91	22,25	62·6	+1·0	57	7	71·2	85·2	63·7	66·1	16·7	+0·4	13·3	64
Anantapur	1,147	974·8	...	970·5	86·2	...	89	17	63·4	...	58	11,28	71·1	84·0	64·8	69·8	18·1	...	18·5	70
Tamilnad																				
Palayamcottai	167	1008·0	...	1003·8	86·6	...	90	23,29	72·6	...	69	28	75·3	82·1	69·9	72·3	22·4	...	22·7	75
Pamban	37	1011·9	—0·9	1009·0	81·1	—1·5	83	22	75·2	+0·7	72	15	77·3	77·9	73·1	72·8	25·9	—1·1	25·3	81
Mathurai	437	998·8	—0·8	994·8	86·7	+0·9	91	25	69·6	+1·2	64	7,29	75·7	83·4	69·0	71·1	21·2	—1·2	20·5	70
Nagapattinam	31	1013·0	—0·5	1010·0	81·1	—1·2	83	22,26	73·5	+1·7	67	6	76·5	78·6	71·4	72·6	24·0	—0·6	24·6	77
Tiruchi	295	1004·3	—0·7	1000·3	86·9	0	90	25,26	70·1	+1·9	63	6	74·4	83·2	69·2	71·3	22·0	—0·9	20·7	76
Coimbatore	1,341	968·3	—0·6	963·9	87·2	+1·2	90	4 days	67·6	+2·7	61	29	71·2	85·0	65·3	66·3	18·6	—2·0	13·7	71
Salem	913	982·8	—0·9	978·2	89·6	+1·5	94	22,25	67·6	+2·6	61	28,29	72·3	85·5	65·1	69·5	17·9	—2·3	17·4	6[illegible]
Kallakurichi	416	1000·2	...	996·0	86·5	...	89	7 days	68·6	...	60	28	73·3	83·2	67·4	68·3	20·2	...	16·9	7[illegible]
Cuddalore	39	1013·1	—0·7	1009·9	81·8	—0·9	89	15	69·2	+0·3	63	28	74·1	78·0	70·2	72·2	23·4	—0·7	24·4	81
Vellore	703	990·8	—0·3	986·6	84·9	+1·0	89	17	64·1	—0·1	56	28	71·0	81·9	66·2	67·8	20·4	—0·4	16·9	7[illegible]
Madras	51	1013·3	—0·4	1010·2	83·0	—2·3	85	5 days	68·2	+1·1	64	5,6,23	73·5	78·7	69·4	70·1	22·7	—1·1	21·3	7[illegible]
Arogyavaram	2,299	936·8	...	933·2	80·7	...	83	6 days	59·2	...	54	27	[illegible]	77·8	61·0	62·9	16·1	...	13·6	7[illegible]

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0.10" or more)		Wind velocity, miles per hour		Wind direction—Number of Winds from :—																			STATION
											0830 hrs. I.S.T.										1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Deccan (Desh)—*contd.*
1·1	—0·6	1·7	0	—0·01	0	...	0	—0·1	5·1	+0·7	1	9	13	1	0	0	1	1	5	2	5	5	6	1	1	3	4	4		Miraj
0·6	...	0·5	0	...	0	...	0	...	4·7	...	0	7	8	0	0	0	0	1	15	1	8	6	1	0	0	8	0	7		Kolhapur
0·8	—0·7	1·6	0	—0·18	0	...	0	—0·2	3·3	+0·5	4	3	5	6	3	1	0	1	8	1	7	9	5	4	3	0	1	1		Bijapur
1·5	0	2·2	0	—0·12	0	...	0	—0·2	3·5	+0·7	6	5	10	3	0	0	0	0	7	2	9	4	6	2	7	0	0	1		Belgaum
0·7	—0·7	1·9	0	—0·17	0	...	0	—0·2	4·8	+0·2	0	0	1	12	11	0	3	3	1	0	0	1	1	2	0	2	3	22		Gadag
																														Hyderabad, North—
1·2	—0·4	1·3	0·05	—0·24	0·05	19	0	—0·5	4·8	+0·2	0	9	17	2	0	0	1	0	2	1	1	9	3	3	3	7	1	3		Aurangabad
1·1	...	1·0	0·03	—0·33	0·03	16	0	—0·7	...	...	0	19	4	0	0	0	3	3	2	0	12	2	0	0	0	2	3	12		Parbhani
1·7	...	1·5	0	...	0	...	0	...	3·3	...	4	3	0	2	5	0	0	2	15	2	4	5	5	4	0	1	0	10		Ramagundam
1·4	0	1·5	0	—0·20	0	...	0	—0·4	2·1	0	0	0	0	0	1	1	0	0	29	7	5	0	0	0	0	0	2	17		Nizamabad
0·6	—0·5	2·0	0	—0·22	0	...	0	—0·5	7·1	+0·7	0	3	8	6	5	7	0	1	1	2	13	8	2	1	4	1	0	0		Bidar
																														Hyderabad, South—
1·1	—0·2	1·8	0	—0·21	0	...	0	—0·3	6·1	+1·4	0	12	10	2	4	2	0	1	0	0	6	10	7	3	3	1	1	0		Gulbarga
1·1	—0·4	1·9	0	—0·13	0	...	0	—0·2	5·8	+0·4	2	3	10	10	1	1	2	2	0	3	12	6	6	1	0	1	2	0		Raichur
3·0	+0·8	1·5	0	—0·31	0	...	0	—0·5	5·0	+1·8	1	1	6	14	0	0	1	0	8	0	10	9	11	0	0	0	0	1		Hyderabad (Begumpet)
3·1	+0·5	1·0	0	—0·40	0	...	0	—0·7	3·6	0	3	1	0	11	10	3	0	1	2	7	7	0	4	5	0	0	1	7		Hanamkonda
1·2	...	1·7	0	...	0	...	0	...	3·8	...	12	1	13	3	1	0	0	0	1	5	0	21	2	1	0	0	1	1		Khammameth
																														Coastal Andhradesa—
2·8	—0·6	2·7	0·34	—0·97	0·34	8	1	—0·4	2·7	—0·1	2	0	1	0	0	0	0	7	21	0	4	24	2	0	0	0	0	1		Nellore
0·9	...	0·5	0	...	0	...	0	...	4·2	...	4	2	3	0	0	0	0	1	21	0	0	18	8	0	0	0	0	5		Ongole
0·9	...	1·0	0	...	0	...	0	...	...	...	0	13	18	0	0	0	0	0	0	0	0	4	23	4	0	0	0	0		Gannavaram
1·6	—0·3	1·3	0	—0·20	0	...	0	—0·3	6·8	+2·9	1	22	5	0	0	0	0	0	3	0	0	12	18	1	0	0	0	0		Masulipatam
0·9	—1·8	0·5	0·06	—0·22	0·06	23	0	—0·5	8·0	+2·5	0	27	1	0	0	0	0	3	0	0	10	3	18	0	0	0	0	0		Kakinada
1·1	—1·5	1·2	0	0·43	0	...	0	—0·5	4·0	+1·1	4	7	1	0	0	0	10	2	7	0	5	16	7	3	0	0	0	0		Visakhapatnam
2·5	+0·6	2·2	0	—0·22	0	...	0	—0·6	7·5	+2·7	1	1	0	0	0	0	14	15	0	0	2	14	13	1	1	0	0	0		Calingapatam
1·5	—2·1	1·5	0	—0·01	0	...	0	0	3·3	0	0	1	4	7	0	0	0	0	19	3	1	20	1	1	0	0	0	5		Rentachintala
																														Rayalaseema—
3·0	+0·8	2·3	0	—0·39	0	...	0	—0·6	9·2	+2·6	0	0	20	5	0	0	0	0	6	0	0	29	2	0	0	0	0	0		Cuddapah
2·3	+0·2	3·0	0	—0·10	0	...	0	—0·3	2·7	0	0	0	2	12	0	0	0	0	17	0	0	8	17	1	0	0	0	5		Bellary
1·2	—0·5	1·9	0	—0·15	0	...	0	—0·3	2·6	—0·3	0	1	6	12	2	0	1	0	9	0	3	9	10	2	0	0	0	7		Kurnool
1·1	...	1·8	0	—0·24	0	...	0	—0·3	7·5	...	0	4	13	3	2	1	0	0	8	1	11	14	4	0	0	0	0	1		Anantapur
																														Tamilnad—
5·5	...	4·1	2·62	+0·91	2·15	16	3	+0·3	5·3	...	13	1	0	0	0	1	3	13	0	2	7	18	1	0	0	2	1	0		Palayamcottai
5·0	+1·7	4·5	3·83	+1·26	1·20	15	8	+4·0	13·2	+3·4	14	5	0	0	0	0	0	12	0	12	15	1	0	0	0	0	3	0		Pamban
4·4	+0·8	4·9	0·48	—0·30	0·25	9	2	+0·5	4·9	+0·4	18	6	1	0	0	0	0	3	3	0	20	8	1	0	0	0	0	2		Mathurai
6·1	+1·8	5·0	1·44	—1·29	0·45	8	5	+2·0	12·1	+4·2	4	19	0	0	0	0	0	8	0	8	23	0	0	0	0	0	0	0		Nagapattinam
4·0	+1·1	3·8	0·10	—0·89	0·10	9	1	—0·7	7·2	+1·8	6	23	1	0	0	0	0	1	0	0	21	10	0	0	0	0	0	0		Tiruchi
3·3	—0·1	3·1	0·03	—0·60	0·03	16	0	—1·1	4·5	+1·9	7	14	8	1	0	0	0	0	1	3	13	12	2	1	0	0	0	0		Coimbatore
2·8	+0·3	3·0	0·03	—0·26	0·03	16	0	—0·7	7·5	+3·6	0	3	25	1	0	0	0	0	2	0	2	26	3	0	0	0	0	0		Salem
5·3	...	5·6	0·02	...	0·02	9	0	...	...	...	5	3	0	0	0	0	0	21	2	0	31	0	0	0	0	0	0	0		Kallakurichi
4·1	+0·6	4·0	0·97	—1·38	0·65	8	2	—0·4	7·2	+2·7	15	8	0	0	0	0	0	6	2	0	28	3	0	0	0	0	0	0		Cuddalore
3·1	+0·3	2·9	0	—1·45	0	...	0	—2·1	5·3	+2·9	0	3	6	0	0	1	0	0	21	0	11	18	2	0	0	0	0	0		Vellore
3·9	—0·8	3·4	0·12	—1·29	0·12	1	1	—0·7	8·2	+2·2	21	3	0	0	0	0	0	7	0	2	20	9	0	0	0	0	0	0		Madras
4·1	...	3·4	0	...	0	...	0	...	3·9	...	1	0	3	5	7	1	0	1	13	0	18	13	0	0	0	0	0	0		Arogyavaram

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure Millibars			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Malabar & South Kanara																					
Mangalore	72	1010·1	−1·3	1006·6	88·9	−0·2	95	28	71·3	+0·7	67	30	74·8	83·5	68·8	74·2	21·3	+0·8	24·7	73	+5
Kozhikode	27	1011·6	−1·0	1007·8	88·7	+0·8	90	6 days	72·4	+1·5	67	29	77·1	85·5	70·7	76·1	22·7	−0·2	26·8	72	−6
Palghat	319	1002·2	...	997·5	92·7	...	96	23,25,26	72·8	...	67	7	76·9	89·5	69·3	70·3	21·0	...	16·6	67	...
Mysore																					
Chitaldrug	2,405	931·8	−1·3	928·3	83·3	−1·5	87	14	62·6	0	56	7	69·5	81·7	61·5	63·0	15·4	+0·1	12·1	63	+1
Shimoga	1,872	949·9	...	945·5	86·7	...	90	22,26	56·6	...	51	27	64·6	84·6	59·4	64·8	15·2	...	12·9	73	...
Hassan	3,149	908·3	...	904·8	81·9	−0·9	85	25	59·1	+2·1	54	7,28	64·2	79·4	58·9	62·0	14·8	−1·0	11·9	73	+1
Bangalore	3,021	912·5	−0·7	909·3	80·3	0	83	25,26,29	59·2	+1·9	53	7	63·9	76·8	58·6	60·4	14·6	−1·5	11·3	73	−5
Mysore	2,518	928·6	−0·9	925·0	82·9	−1·3	85	18,26,31	62·1	+1·3	57	7,28	65·9	81·8	61·0	62·8	16·3	−0·3	11·9	75	+4
Travancore-Cochin																					
Fort Cochin	10	1012·1	−0·9	1008·3	87·3	+0·4	89	3,20,27	73·9	+0·4	70	7,29	79·4	84·1	71·0	74·6	22·1	+0·1	25·0	65	−5
Alleppey	12	1011·8	...	1008·2	89·6	...	94	10,15	73·1	...	67	7	80·8	84·3	74·7	76·7	26·6	...	27·9	73	...
Trivandrum	211	1004·7	−0·9	1002·5	87·9	...	91	3,4,7	73·3	...	69	7	77·4	83·3	73·3	74·6	26·2	+2·6	25·3	81	+4
Nagercoil	195	1005·4	...	1002·3	89·7	...	94	29	74·4	...	71	4 days	79·4	83·6	69·2	72·9	19·8	...	22·7	58	...
Hill Stations excluding Kashmir																					
Aijal	3,599	894·3	...	889·9	63·5	...	72	19	52·1	...	48	25	57·3	57·3	54·2	54·1	13·1	...	13·1	82	...
Shillong	4,921	852·6	−0·1	850·1	58·5	−1·6	64	1	37·9	−0·9	32	19,23	50·8	51·3	45·2	48·7	8·1	−0·6	10·7	65	−5
Cherrapunji	4,309	872·0	+0·4	869·4	60·7	+0·4	64	4 days	44·3	−1·8	40	24	56·1	52·7	48·6	49·5	8·7	−1·1	10·9	55	−8
Darjiling	7,432	776·8	−0·2	774·4	48·2	+1·2	54	8	35·0	−0·4	32	21,24	41·4	39·4	38·8	38·1	7·1	0	7·2	82	+7
Kalimpong	3,965	882·7	−0·4	880·8	59·8	+0·4	65	2,3	44·6	−1·6	39	21	49·1	51·9	47·5	49·1	10·6	+0·5	10·6	90	+15
Katmandu	4,388	871·1	...	868·0	62·9	−1·7	67	15	34·1	−2·1	28	2	39·9	53·0	38·9	46·8	7·7	+0·8	8·6	91	+6
Mukteswar (Kumaon).	7,592	771·9	−1·2	770·7	48·0	−1·8	57	2	33·1	−2·4	26	22	37·8	39·6	32·4	35·3	4·3	0	5·5	60	+11
Mussooree	6,699	797·0	...	796·1	48·4	−1·1	59	29	34·9	−2·0	28	20,22	39·7	40·8	34·3	37·7	4·8	−0·2	6·7	60	+4
Simla	7,224	781·4	−0·4	780·6	45·4	−2·1	58	11	33·7	−1·7	27	22	38·6	39·6	32·0	34·9	4·0	−0·1	5·5	53	+10
Dharamshala	3,974	887·0	...	884·9	56·4	...	64	29	43·1	...	37	22	47·5	52·3	43·9	47·8	8·2	...	9·4	72	...
Abu	3,945	882·8	−0·4	881·2	66·1	+0·2	70	27,28,30	46·4	−4·3	39	23	52·2	60·9	42·4	46·7	5·4	−0·5	5·3	41	−3
Pachmarhi	3,528	897·2	−0·6	894·8	70·0	−2·0	76	31	45·6	−2·1	33	2	52·6	66·7	47·8	54·7	9·4	−0·6	10·3	71	+8
Mahabaleshwar	4,534	864·7	−0·8	862·7	75·9	+1·5	80	23,29,30	56·4	−0·7	54	4 days	61·1	69·4	51·3	56·6	9·0	−0·4	10·3	50	−2
Mercara	3,781	887·1	−0·8	884·7	76·4	−0·7	79	16	58·1	+0·9	53	7	61·5	74·5	57·4	61·4	14·5	−0·7	13·3	78	0
Kodaikanal	7,688	772·1	0	770·5	61·8	−0·4	68	30	46·8	−0·2	42	7	53·0	54·3	47·0	51·3	8·9	+1·1	11·8	67	+12
Ootacamund	7,364	780·6	−0·6	779·2	66·6	+0·7	72	30	41·1	−1·9	33	7	48·2	58·8	44·3	52·5	8·6	+1·0	11·2	75	+17
Coonoor	5,730	828·0	...	...	63·5	−2·7	67	25,29	47·8	+0·8	39	7	60·1	...	54·0	...	12·1	+1·7	...	69	+4
Tibet																					
Lhasa	12,090	652·8	...	...	43·5	...	54	14	13·7	...	4	10	24·7	...	23·2	...	3·7	...	...	82	...
Gyantse	13,110	623·3	...	...	39·6	−2·7	48	11	5·3	−2·6	−5	26	21·4	...	17·1	...	1·8	−1·3	...	51	−13
Ceylon																					
Colombo	24	1011·0	−1·0	1007·8	85·7	−1·2	91	2	72·4	+0·5	68	6	75·5	80·5	72·0	74·5	25·3	+0·2	26·5	83	−2
Trincomalee	24	1011·8	−0·9	1009·3	79·5	−2·6	82	1	75·6	+1·0	72	16,19,31	77·6	77·5	73·9	74·0	26·9	+0·4	27·1	83	0
Batticoloa	20	1011·7	...	1009·3	80·3 (a)	...	83	2	73·7	...	70	31	77·0	77·5	73·3	74·0	26·3	...	27·1	83	...
Hambantota	61	1009·3	−0·9	1006·4	83·3	−1·4	88	8	73·2	+0·9	71	6,27,31	76·6	79·9	73·0	75·4	26·4	+1·5	28·0	86	+1
Mannar	12	1012·7	...	1009·8	81·8	...	84	25,26	74·5	...	71	30	77·4	79·1	73·9	73·1	27·0	...	25·1	84	...

(a) Mean of 30 days.

oud amount (Oktas)		Rainfall, inches				Number of rainy days (0.10" or more)		Wind velocity, miles per hour		Wind direction—Number of Winds from:—																			STATION
										0830 hrs. I.S.T.									1730 hrs. I.S.T.												
Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52				53
																															Malabar & South Kanara
+0·9	2·1	0	−0·11	0	...	0	−0·2	5·2	+0·4	2	0	29	0	0	0	0	0	0	0	0	0	1	0	5	10	15	0				Mangalore
+0·9	3·1	0	−0·35	0	...	0	−0·6	6·5	+1·3	0	14	15	2	0	0	0	0	0	0	0	0	0	0	5	15	11	0				Kozhikode
...	2·3	0	...	0	...	0	...	7·7	...	0	0	29	2	0	0	0	0	0	0	1	29	1	0	0	0	0	0				Palghat
																															Mysore
−0·1	2·5	0	−0·25	0	...	0	−0·3	5·3	+0·7	0	0	16	13	0	0	0	0	2	0	3	21	6	0	0	0	0	1				Chitaldrug
...	3·6	0	...	0	...	0	...	2·7	...	0	2	0	2	5	2	1	0	19	1	9	12	4	1	3	1	0	0				Shimoga
0	2·7	0	−0·17	0	...	0	−0·3	3·8	+0·7	0	1	18	10	0	0	0	1	1	0	2	17	8	0	0	1	0	3				Hassan
+0·5	2·7	0	−0·24	0	...	0	−0·5	7·5	+2·4	0	5	22	4	0	0	0	0	0	0	9	13	5	1	0	0	0	3				Bangalore
0·1	2·6	0	−0·14	0	...	0	−0·3	7·8	+1·9	0	8	22	0	0	0	0	0	1	0	14	17	0	0	0	0	0	0				Mysore
																															Travancore-Cochin
+3·2	5·4	0·01	−0·88	0·01	20	0	−1·1	5·3	+1·2	0	13	15	3	0	0	0	0	0	0	0	0	0	0	8	20	3	0				Fort Cochin
...	3·3	1·50	...	1·50	16	1	...	5·6	...	1	2	14	12	0	0	1	0	1	0	0	0	0	0	1	16	14	0				Alleppey
+0·6	3·8	0·66	−0·13	0·43	18	2	−0·3	3·1	+0·3	4	15	2	3	1	0	0	1	5	0	1	0	2	2	23	2	1	0				Trivandrum
...	5·6	0·77	...	0·57	16	1	...	8·3	...	1	24	1	0	0	0	2	0	3	0	19	1	0	0	5	6	0	0				Nagercoil
																															Hill stations excluding Kashmir
...	0·3	0	...	0	...	0	...	4·3	...	2	1	17	4	4	1	0	1	1	5	1	3	2	2	1	12	5	0				Aijal
−0·5	6·4	0·28	−0·24	0·16	7	1	−0·1	1·2	−0·3	0	0	1	2	1	0	2	1	24	2	1	0	0	0	0	1	0	27				Shillong
−1·1	2·9	0·05	−0·70	0·05	18	0	−1·5	4·3	+0·8	0	12	13	0	3	3	0	0	0	2	3	1	0	0	13	7	3	2				Cherrapunji
+0·8	5·3	0·22	−0·31	0·12	21	1	−0·2	3·6	+1·0	0	0	18	7	0	1	3	0	2	0	0	3	1	0	8	15	0	4				Darjiling
−1·2	2·3	0	−0·41	0	...	0	−0·9	6·1	−0·6	1	0	0	0	0	0	0	20	10	0	0	0	28	1	0	0	2	0				Kalimpong
+0·1	3·1	0·60	+0·22	0·29	16	2	+1·2	0·6	−0·6	0	0	2	1	0	1	0	0	27	2	1	0	1	1	0	0	3	23				Katmandu
+0·5	3·7	1·70	−0·46	0·58	20	5	+1·4	7·4	+1·8	1	9	9	3	1	1	3	3	1	0	3	7	2	1	7	8	2	1				Mukteswar (Kumaon)
+0·1	5·2	1·82	−0·89	0·55	17	5	0	4·5	+0·1	7	7	1	4	4	0	0	0	8	3	4	0	8	11	4	0	0	1				Mussooree
+0·8	4·6	3·28	+0·67	1·10	17	7	+2·2	2·1	−1·6	1	1	1	5	6	1	0	0	16	0	1	0	3	6	3	1	0	17				Simla
...	4·3	3·36	...	0·85	8	8	...	3·8	...	3	4	5	0	0	0	0	6	13	3	0	1	1	3	11	4	2	6				Dharamshala
−1·2	0·7	0	−0·26	0	...	0	−0·6	2·5	−1·0	0	2	0	1	0	2	2	0	24	4	2	0	0	1	1	1	3	19				Abu
−1·2	1·1	1·55	+0·91	0·96	15	3	+1·7	2·6	+0·2	1	3	2	2	8	6	2	0	7	5	6	1	2	2	1	3	5	6				Pachmarhi
−0·2	1·3	0	−0·14	0	...	0	−0·2	5·1	−0·8	0	8	8	6	1	2	3	1	2	0	1	1	1	2	4	4	13	5				Mahabaleshwar
−0·1	3·2	0·10	−0·06	0·10	16	1	+0·7	5·6	+1·6	0	13	13	0	0	0	1	1	3	0	12	12	0	0	0	1	2	4				Mercara
+1·1	5·4	1·62	−1·57	1·04	16	2	−2·0	7·6	+1·0	2	4	7	10	5	0	1	2	0	3	6	2	7	5	0	1	3	4				Kodaikanal
−0·1	3·5	0·41	−0·88	0·39	16	1	−0·8	2·1	−1·0	0	3	1	1	1	0	0	0	25	3	2	4	2	3	0	0	0	17				Ootacamund
+1·4	...	3·06	−0·60	1·70	16	3	+0·3	3·7	+0·4	3	5	1	13	9	0	0	0	0	...	...	...	...	...	...	...	...	...				Coonoor
																															Tibet
...	...	0	...	0	...	0	...	0·1	...	0	0	0	0	0	0	0	0	31	...	...	...	...	...	...	...	...	...				Lhasa
−0·5	...	0	−0·01	0	...	0	0	3·3	−0·8	0	1	6	7	0	0	0	0	17	...	...	...	...	...	...	...	...	...				Gyantse
																															Ceylon
+1·4	6·8	5·41	+1·62	1·92	26	9	+3·7	...	...	4	22	4	0	0	0	0	0	1	12	12	1	1	2	1	0	2	0				Colombo
+2·1	7·2	12·39	+5·57	2·98	16	13	+4·9	...	...	11	16	1	1	0	0	0	0	2	13	13	3	0	0	0	0	2	0				Trincomalee
...	8·0	23·82	...	6·15	17	18	...	...	...	13	8	1	0	0	0	1	2	6	13	10	1	0	0	0	0	3	4				Batticoloa
+3·2	6·6	10·97	+7·02	3·36	18	12	+6·0	...	...	12	18	1	0	0	0	0	0	0	4	17	7	1	2	0	0	0	0				Hambantota
...	5·7	8·12	...	2·77	15	10	...	...	...	5	25	1	0	0	0	0	0	0	5	24	2	0	0	0	0	0	0				Mannar

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 4TH CLASS STATIONS—JANUARY 1951

STATION	Maximum temperature °F.				Minimum temperature °F.				Bulb °F	Bulb °F	Vapour pressure, Millbars		Relative humidity %			Rainfall, inches				Number of rainy days (0.10" or more)		
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean Dry Temperature 0830 hrs. I.S.T.	Mean Wet Temperature 0830 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 0830 hrs. I.S.T.	Departure from normal	Mean cloud amount 0830 hrs. I. S. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Resultant Direction
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Assam																						
Lumding	76·5	+3·0	79	17	45·7	−1·5	40	27	60·4	56·4	13·7	+0·3	76	−14	...	0	−0·56	0	...	0	−1·4	...
Jammu and Kashmir																						
Jammu	64·7	−0·4	72	29,30	47·3	−0·5	43	1,22,23	48·8	44·8	8·4	−0·3	71	+3	4·5	0·94	−1·35	0·30	20	5	+1·6	N37
Kargil (R)																						
Mysore																						
Balehonnur	81·7	+0·8	85	13,30	59·5	+1·1	54	7,8	65·0	60·7	16·4	+1·2	78	+5	...	0	−0·05	0	...	0	−0·2	...
Nandi Hills	72·5	...	75	4 days	52·8	...	49	7	62·6	54·8	11·5	...	60	...	3·0	0	...	0	...	0	...	S70E
Sikkim																						
Lachen	...	...	...	...	24·4	...	20	4	38·9	...	...	...	...	...	...	1·03	...	0·39	3	4	...	...
Tibet																						
Yatung (Chumbi)	44·4	−0·8	52	11	17·7	−1·9	11	21	30·5	29·1	4·9	+0·9	87	+6	1·3	0·70	+0·14	0·21	3	3	+1·3	...

(R) Register not received.

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 5TH CLASS STATIONS—JANUARY 1951

Division	Station	Rainfall, inches				Number of rainy days (0.10" or more)		Division	Station	Rainfall, inches				Number of rainy days (0.10" or more)
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal			Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7
Assam	Mawsynram	0	...	0	...	0	...	Jammu & Kashmir	Sonamarg	7·60	−2·70	2·45	10	12
West Bengal	Bankura	0	−0·58	0	...	0	−1·2		Gurez	3·08	−2·35	0·65	31	10
Bihar	Muzaffarpur	0·35	−0·17	0·20	17	2	+0·9	Deccan (Desh)	Khandala	0	−0·10	0	...	0
	Chapra	0·24	−0·33	0·09	17	0	−1·3	Sikkim	Thangu	1·98	...	0·42	22	7
	Arrah	0·35	−0·32	0·14	20	2	+0·7		Lachung (R)					
Punjab (I)	Dalhousie	5·58	−1·54	1·70	13	10	+2·6		Chungthang	2·25	...	1·35	21	5
	Kyelang	5·33	+2·82	2·25	31	7	+1·3							
	Gondla	6·93	...	1·41	12	8	...							
	Koksar	7·64	...	1·60	14	9	...							
	Kothi	3·15	...	0·75	7	9	...							
	Dharampore	3·90	+1·13	1·70	14	8	+4·0							
	Kharsali	0·78	...	0·17	14	3	...							
	Rana	4·42	...	1·25	14	7	...							
	Jamuna Chetty	2·12	...	1·00	8	5	...							

(R) Register not received.

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

(From Ascents at 15 hrs. G.M.T.)

JANUARY 1951*

ALLAHABAD (Sur. Pr. 1004 mb.)

No. of obsns.	Height (gpm.)	Temperature °A Mean	Max.	Min.	Dew Point
31	98	288·4	293	285	282·4
30	130	...	...	...	...
30	1032	286·7	292	281	274·4
30	1511	284·4	290	280	288·1
30	2015	281·0	285	276	267·5
30	3102	274·5	278	270	264·9
30	4325	266·4	271	262	...
29	5723	257·2	262	251	...
28	7328	246·0	254	237	...
28	9394	235·4	244	220	...
26	10630	227·7	236	216	...
24	12083	218·7	226	211	...
15	12833	214·7	221	205	...
8	13966	212·1	216	207	...

CALCUTTA (1015 mb.)

No. of obsns.	Height (gpm.)	Temperature °A Mean	Max.	Min.	Dew Point
31	7	290·8	294	289	285·4
31	131	...	...	...	...
31	1035	288·4	295	285	274·2
31	1515	284·4	290	280	271·0
31	2019	281·7	285	277	265·5
30	3113	277·2	283	273	252·1
30	4349	270·1	276	265	...
26	5761	260·7	267	256	...
24	7432	250·6	260	242	...
20	9494	238·0	247	232	...
14	10658	229·7	237	224	...
7	12286	221·1	229	216	...

JODHPUR (990 mb.)

No. of obsns.	Height (gpm.)	Temperature °A Mean	Max.	Min.	Dew Point
31	218	290·3	294	287	274·5
31	132	...	...	...	...
30	1030	287·5	292	283	271·7
29	1509	283·1	288	278	266·8
29	2011	279·3	284	276	268·3
30	3095	273·1	281	267	256·9
29	4311	265·3	272	257	...
29	5701	256·3	261	248	...
30	7344	245·4	253	237	...
28	9370	234·3	245	216	...
19	10598	227·1	235	209	...
10	12123	220·5	225	215	...
6	12933	215·6	218	213	...

MADRAS (1012 mb.)

No. of obsns.	Height (gpm.)	Temperature °A Mean	Max.	Min.	Dew Point
31	15	297·9	299	297	293·6
31	117	...	...	...	...
31	1029	290·2	294	286	283·9
31	1516	288·2	291	285	277·8
31	2029	285·4	289	284	274·6
29	3142	281·3	286	277	268·0
30	4402	274·4	279	271	262·5
30	5847	266·3	271	261	...
28	7554	255·0	259	249	...
25	9637	239·6	244	232	...
15	10897	230·0	237	225	...
5	12408	222·7	226	218	...

NAGPUR (978 mb.)

No. of obsns.	Height (gpm.)	Temperature °A Mean	Max.	Min.	Dew Point
31	307	293·7	298	289	280.2
31	118	...	...	...	...
31	1030	292·4	297	287	279·5
31	1519	288·6	293	284	277·6
30	2028	284·2 ~~282·8~~	289	281	275·4
29	3130	276·9	281	273	266·3
31	4369	271·7	277	266	260·4
31	5798	262·8	269	257	...
29	7482	252·3	259	241	...
23	9549	238·5	247	235	...
12	10836	232·3	237	224	...
6	12388	223·8	229	217	...

NEW DELHI (991 mb.)

No. of obsns.	Height (gpm.)	Temperature °A Mean	Max.	Min.	Dew Point
31	217	287·1	291	285	281·8
30	138	...	...	...	...
30	1029	283·3	291	281	274·4
30	1507	282·6	287	278	270·5
30	2007	279·6	283	276	267·9
30	3089	272·3	277	267	263·6
30	4301	264·3	270	258	...
30	5689	254·4	262	249	...
30	7317	243·3	248	237	...
29	9321	231·6	241	226	...
26	10545	225·4	237	214	...
25	12001	218·1	230	207	...
21	12830	214·5	223	204	...
13	13832	213·8	223	207	...
10	14817	211·3	220	203	...
8	16336	210·3	216	205	...

Beginning from January 1951, the publication of monthly means of upperwinds in the Monthly Weather Report is discontinued. The mean dynamic height, temperature and dew point at standard pressure surfaces from radio sonde ascents over India are included.

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

(From Ascents at 15 hrs. G.M.T.)

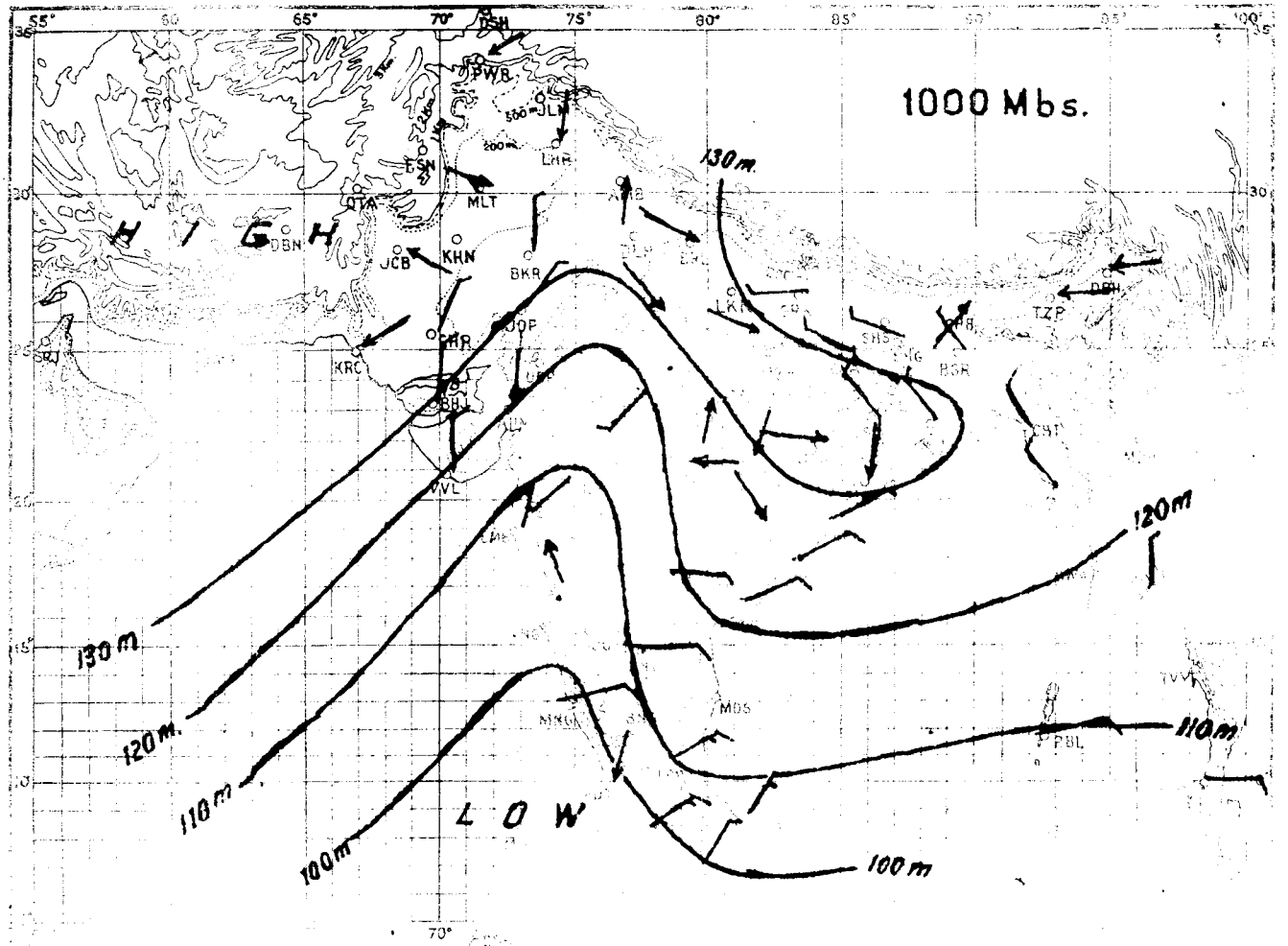
JANUARY 1951

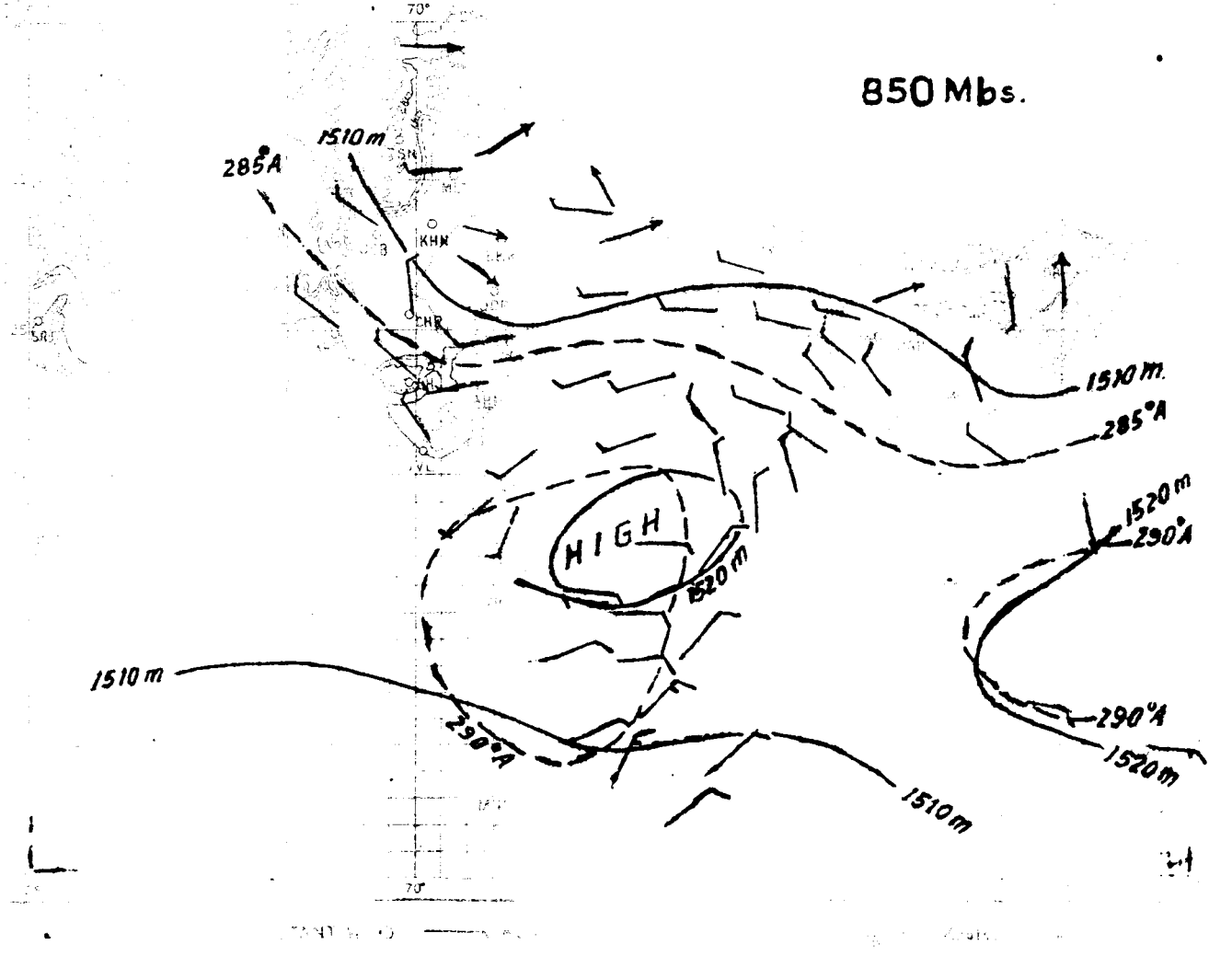
Standard Pressure Surface mbs	POONA (Sur. Pr. 950 mb.)						PORT BLAIR (1010 mb.)						TRIVANDRUM (1003 mb.)				
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °		
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.
Surface	31	56	295·7	299	292	282·7	26	2	299·0	300	297	295·8	31	64	299·3	300	29
1000	31	104	...	...	...	...	26	109	...	...	...	...	31	093	...	...	...
900	31	1022	295·5	299	291	278·5	26	1029	292·8	295	289	287·5	31	1016	293·2	296	29
850	31	1516	292·1	297	288	277·2	25	1521	289·8	293	281	283·7	31	1507	290·3	293	28
800	31	2033	287·4	291	284	275·0	25	2037	287·5	290	285	279·5	31	2026	287·4	290	28
700	31	3143	278·8	284	272	266·0	23	3157	282·3	285	280	271·1	31	3145	281·8	284	27
600	31	4392	274·3	280	269	249·3	20	4420	275·2	278	270	262·1	31	4407	274·3	279	27
500	30	5836	265·6	271	257	...	16	5871	267·4	270	265	...	31	5850	265·7	271	26
400	29	7539	255·6	261	247	...	14	7597	257·6	262	254	...	31	7555	255·6	263	25
300	25	9634	241·6	248	233	..	13	9676	242·2	244	239	...	31	9644	240·5	247	23
250	21	10828	232·8	237	223	...	10	10978	232·4	236	229	...	21	10928	232·5	239	22
200	12	12449	224·3	229	216	...							10	12451	223·8	231	21
175	10	13304	217·9	223	211	..							6	13355	218·7	223	20
150	8	14234	210·4	218	204	...											
125																	
100																	
80																	

							VERAVAL (1013 mb.)						VISAKHAPATNAM (1008 mb.)				
Surface							30	8	294·0	296	291	288·6	30	5	296·4	299	29
1000							30	116	...	...	...	...	30	122	...	...	...
900							30	1027	291·1	295	285	276·2	29	1031	289·8	292	28
850							30	1514	287·9	292	282	272·8	29	1518	287·0	290	28
800							30	2024	284·8	290	278	268·8	29	2028	283·9	287	28
700							30	3129	279·3	284	275	261·2	29	3134	280·0	284	27
600							30	4378	272·3	277	265	255·5	29	4390	273·9	281	26
500							30	5809	262·5	271	255	...	26	5829	265·8	272	26
400							22	7488	252·4	265	245	...	22	7540	254·7	260	24
300							19	9560	238·9	243	233	...	18	9633	240·2	243	23
250							13	10854	230·2	238	226	...	10	10867	229·6	236	22
200							7	12368	222·7	227	220	...	8	12355	218·4	226	21
175													8	13073	212·4	223	20
150													6	13971	207·8	220	19
125																	
100																	
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 temp than 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

MONTHLY MEAN CONSTANT PRESSURE CHARTS
JANUARY 1951

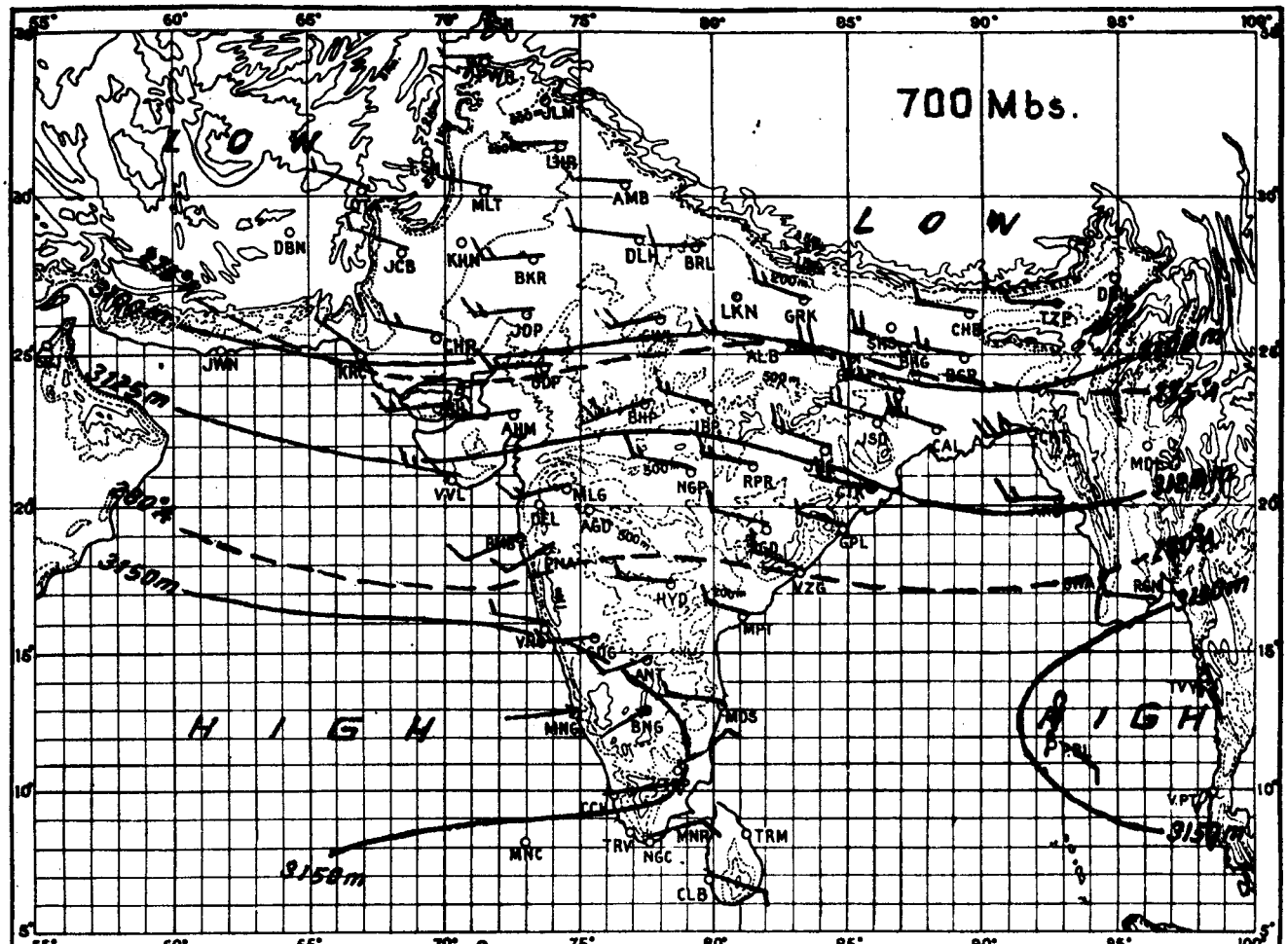


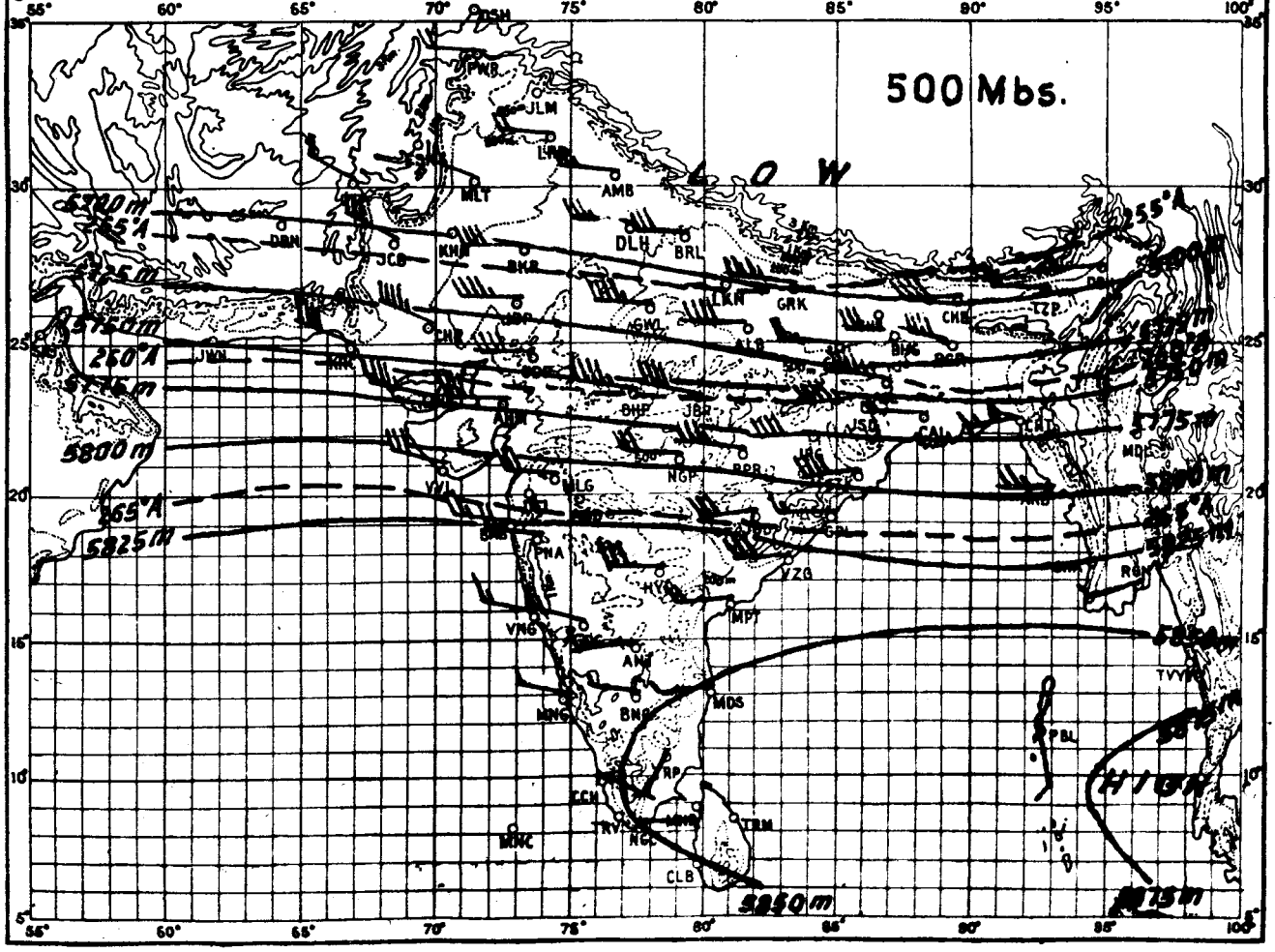


---- Isotherms in degrees Absolute ——— Contours in geopotential metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JANUARY 1951





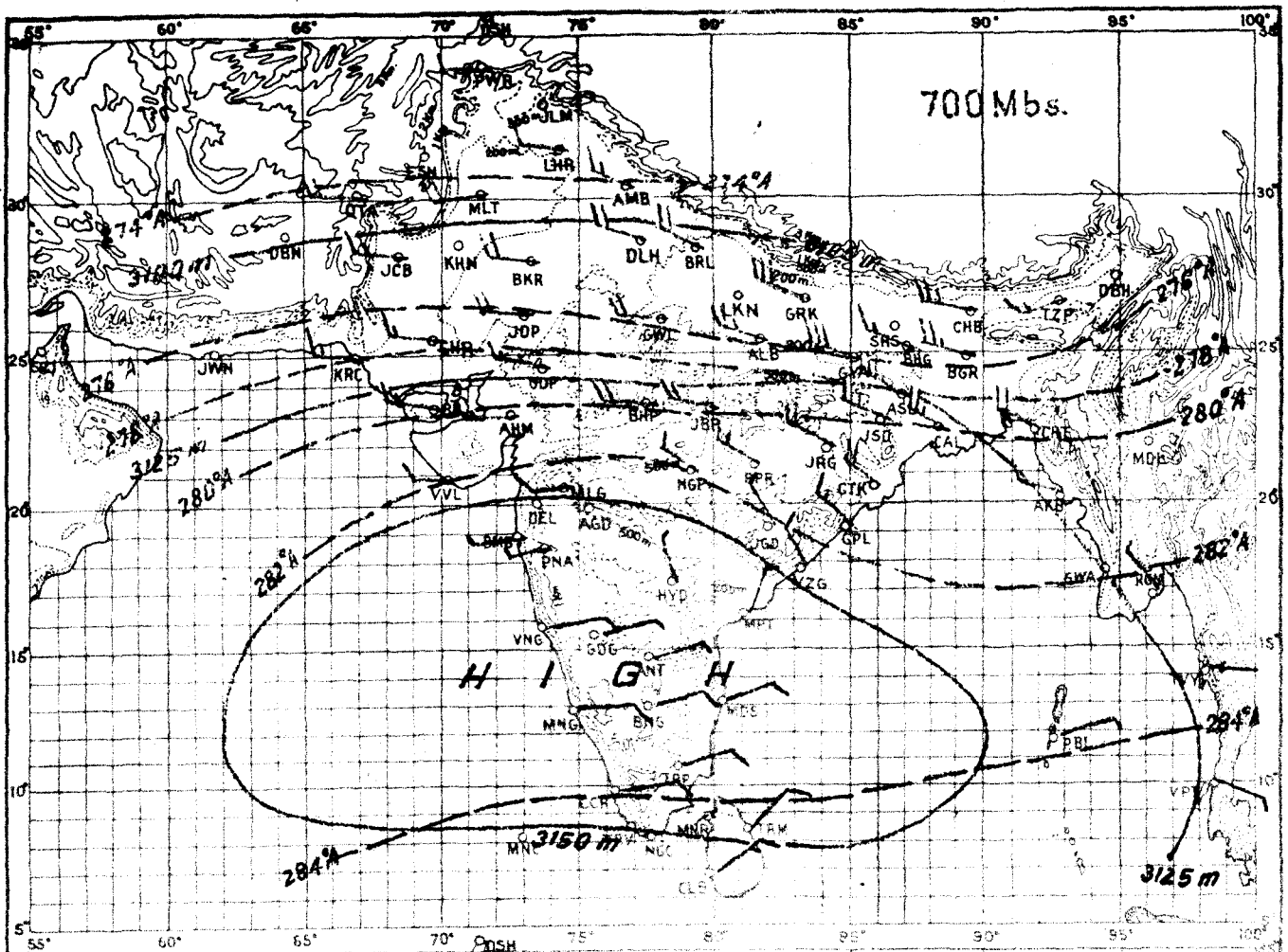
RESULTANT WIND —— = 5 Knots, —— = 10 Knots, —— = 50 Knots.

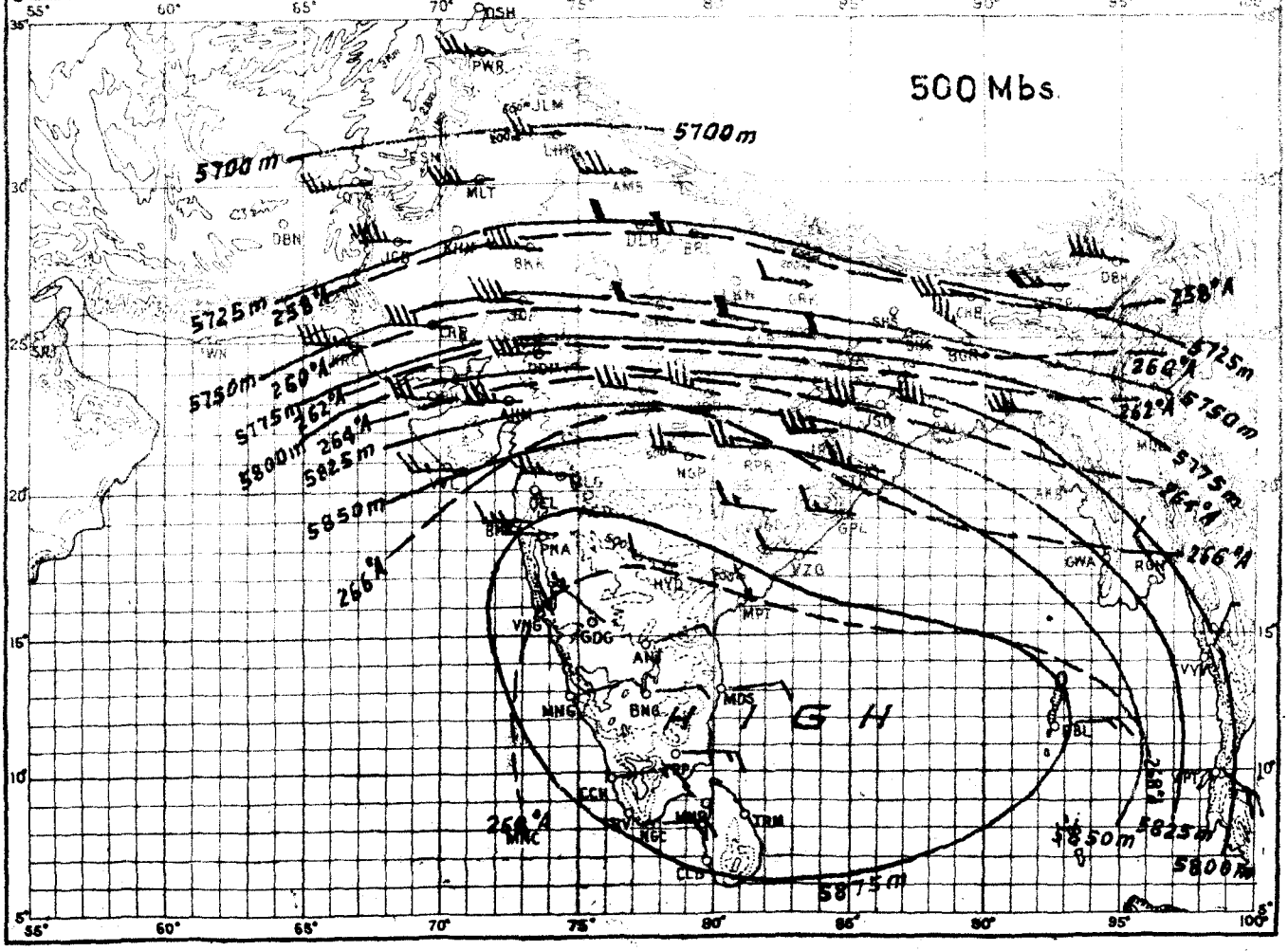
G.P.I.P. POONA, 1951.

- - - *Isotherms in degrees Absolute* ——— *Contours in geopotential metres.*

MONTHLY MEAN CONSTANT PRESSURE CHARTS

FEBRUARY 1951





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

G.P.Z.P. POONA, 1951.

– – – – *Isotherms in degrees Absolute* ——— *Contours in geopotential Metres*

Registered No. B-3097.

INDIA WEATHER REVIEW, 1951

Monthly Weather Report
February

Published by authority of the Government of India

Chief features :—(i) General feebleness of the western disturbances, (ii) abnormal cold spells in northwest India, the central parts of the country and Saurashtra during the first fortnight, and (iii) dry weather over the country outside Assam during the second half of the month.

Four western disturbances moved across the country during February. Of these, the first and second were somewhat active. Along with their secondaries or tertiaries, they caused widespread rain or snow in the Punjab (I) and hills of west Uttar Pradesh on the 2nd and on the 10th and widespread thundershowers in east Uttar Pradesh, Vindhya Pradesh and the adjoining divisions of north Madhya Pradesh on the 5th and 6th. The thundershowers in north Madhya Pradesh were accompanied by hail storms in many places which, according to press reports, considerably affected the rabi crops in these areas. The details regarding the movement and activity of the western disturbances are set out in the following table :—

FEBRUARY 1951

Precipitation

No.	Period	Course	Region	Nature of Precipitation	Period	Remarks
1	1st February .	Southern districts of Punjab (P) & Punjab (I) to Hills of west. Uttar Pradesh .	Punjab (I) Hills of west Uttar Pradesh .	Widespread thundershowers	2nd February	This disturbance continued from the previous month.
				Do. .		
			Hills of Punjab (I) and of	Local rain or snow . .	1st February	This secondary persisted as a well-marked upper air circulation over Punjab (I) till the 4th and induced the low over west Madhya Pradesh on the 5th [*vide* 1(a) below].
			West Uttar Pradesh.	Scattered rain or snow .	3rd February	
						A cold wave spread over northeast India, the central parts of the country, Saurashtra and Gujarat between the 2nd and 4th in the rear of secondary.
1(a)	1st Feb. to 4th.	Punjab (P) to Western Himalayas.				
1(b)	5th Feb. to 6th	West Madhya Pradesh to north Bihar.	East Uttar Pradesh . Vindhya Pradesh .	Widespread thundershowers	5th to 6th	
			West Madhya Pradesh	Local thundershowers .	5th to 6th	
2	4th to 11th .	North Baluchistan to hills of Punjab (I).	Hills of Punjab (I) and of west Uttar Pradesh .	Widespread thundershowers	10th .	The disturbance persisted over Baluchistan from 4th to 8th and then moved eastnorth-eastwards.
				Scattered showers . .	11th	
			Plains of west Uttar Pradesh .	Local thundershowers .	10th	
2(a)	10th to 12th .	Southwest Uttar Pradesh to Upper Assam.	Assam .	A few light showers .	12th .	Feeble secondary of disturbance No. 2.
3	16th to 19th .	Baluchistan northeastwards to Kashmir.	Kashmir . .	Local falls of snow . .	19th	
4	21st to 23rd .	North Baluchistan northeastwards through Kashmir.	...	...	...	Feeble disturbance. The secondary was also feeble and became unimportant *in situ*.
4(a)	22nd to 23rd .	Sind & North Rajasthan.	...	...	...	

N.B.—Data from Jammu and Kashmir were very meagre.

JUN 15 1953

In association with a low pressure wave which moved westwards across Ceylon, Tamilnad had a few showers on the 11th and 12th. Scattered thundershowers occurred in Assam between the 20th and 26th. Elsewhere over the country dry weather prevailed throughout the second half of February.

In the wake of each of the first two western disturbances, extratropical continental air swept across northwest India, the central parts of the country, Saurashtra and Gujarat between the 2nd and 4th and the 11th and 14th respectively. During the former period, many places in Rajasthan recorded night temperatures below freezing point. It is reported that three persons died in Saurashtra due to exposure to cold.

The total rainfall for the month was in large excess in Vindhya Pradesh and in moderate excess in Malabar and south Kanara; in slight to moderate defect in east Uttar Pradesh and west Madhya Pradesh; and in large defect in the Bay Islands, Assam, Chota Nagpur, Bihar, west Uttar Pradesh, the Punjab (I), east Madhya Pradesh, Tamilnad and Travancore-Cochin. Elsewhere no rain fell. Averaged over the plains of India the rainfall was-79% in defect.

Maximum temperature was above normal in northeast India outside Orissa, in the Punjab (I), east Madhya Pradesh and north Hyderabad and normal elsewhere. Minimum temperature was normal throughout the country except in northwest India, Madhya Bharat, Vindhya Pradesh, Gujarat, Saurashtra and Kutch, Coastal Andhradesa and Tamilnad where it was below normal.

Relative humidity was in defect in Assam, West Bengal, Chota Nagpur, Bihar, Uttar Pradesh, northwest India, Madhya Bharat, east Madhya Pradesh, Gujarat, Saurashtra and Kutch, Deccan (Desh), Hyderabad, Rayalaseema, Tamilnad and Mysore and normal elsewhere.

The mean cloud amount was in excess in the Bay Islands, Rayalaseema, Malabar, south Kanara, Mysore, Travancore-Cochin; normal in the Konkan, north Hyderabad and Tamilnad; and in defect elsewhere.

Data from Jammu and Kashmir are incomplete.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amounts for the 13 chief political divisions and the 27 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 8-30 hours I.S.T. 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 8-30 hours I.S.T. of the date given in the succeeding column.

Poona 5 ;
Dated the 28th June 1951.

C. RAMASWAMY,
for Director General of Observatories.

	Rainfall				Departure from normal of				
							830 hrs. I.S.T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
ion—									
ssam (including Manipur and Tripura).	0·15	1·52	—1·37	—90	+3·4	—0·1	—0·4	—8	—1·5
Vest Bengal .	0	1·03	—1·03	—100	+2·9	—0·3	—2·2	—12	—1·4
Orissa . .	0	1·01	—1·01	—100	+1·1	—1·6	—0·9	—3	—1·1
Bihar . .	0.09	1·03	—0·94	—91	+3·4	—1·1	—2·8	—16	—1·3
Uttar Pradesh .	0·47	0·88	—0·41	—47	+0·7	—0·8	—1·4	—7	—0·9
unjab (I) (including PEPSU and Delhi).	0·07	1·15	—1·08	—94	+3·0	—3·3	—1·9	—8	—1·2
ajasthan .	0	0·31	—0·31	—100	+0·8	—3·2	—3·0	—12	—1·2
Division—									
ay Islands	0·28	1·11	—0·83	—75	—1·2	—0·5	—1·2	+2	+2·5
Assam (including Manipur and Tripura).	0·15	1·52	—1·37	—90	+3·4	—0·1	—0·4	—8	—1·5
West Bengal .	0	1·03	—1·03	—100	+2·9	—0·3	—2·2	—12	—1·4
Orissa . .	0	1·01	—1·01	—100	+1·1	—1·6	—0·9	—3	—1·1
Chota Nagpur .	0·04	1·55	—1·51	—97	+3·7	—1·6	—3·3	—17	—1·5
Bihar . .	0·12	0·71	—0·59	—83	+3·1	—0·7	—2·3	—14	—1·0
Uttar Pradesh, East.	0·55	0·73	—0·18	—25	+0·4	—0·4	—1·6	—8	—0·8
Uttar Pradesh, West.	0·38	1·03	—0·65	—63	+1·1	—1·2	—1·3	—6	—1·0
Punjab (I) (including PEPSU & Delhi).	0·07	1·15	—1·08	—94	+3·0	—3·3	—1·9	—8	—1·2
Jammu & Kashmir.	Data incomplete								
Rajasthan, West	0	0·42	—0·42	—100	+0·9	—3·3	—3·2	—17	—1·5
Rajasthan, East (including Ajmer)	0	0·20	—0·20	—100	+0·8	—3·2	—2·8	—9	—1·0
Madhya Bharat .	0	0·16	—0·16	—100	+1·1	—2·3	—2·5	—9	—0·5
Vindhya Pradesh	1·24	0·78	+0·46	+59	+0·4	—2·9	—1·2	—3	—0·9

	Rainfall				Departure from normal of				
							630 hrs. I.S.T		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—*contd.*									
8. Madhya Bharat & Vindhya Pradesh	0·53	0·43	+0·10	+23	+0·8	—2·6	—2·0	—6	—0·7
9. Madhya Pradesh.	0·24	0·70	—0·46	—66	+2·3	—1·2	—2·1	—7	—0·9
10. Bombay (including Saurashtra and Kutch).	0	0·09	—0·09	—100	+1·4	—1·3	—2·1	—6	—0·6
11. Hyderabad .	0	0·37	—0·37	—100	+1·8	—0·2	—3·6	—11	—0·3
12. Madras (including Travancore-Cochin)	0·07	0·50	—0·43	—86	—0·4	—1·6	—2·3	—5	+0·4
13. Mysore . .	0	0·18	—0·18	—100	—0·4	—0·7	—2·7	—7	+0·6
Mean of India . .	0·13	0·61	—0·48	—79	+1·4	—1·5	—2·2	—8	—0·7
Sub-Division—*contd.*									
15. Madhya Pradesh, East	0·10	1·02	—0·92	—90	+3·2	—0·9	—2·9	—12	—1·0
16. Madhya Pradesh, West	0·32	0·50	—0·18	—36	+1·8	—1·4	—1·6	—3	—0·8
17. Gujarat . .	0	0·10	—0·10	—100	+1·5	—2·1	—2·7	—11	—1·0
18. Saurashtra and Kutch.	0	0·12	—0·12	—100	+0·8	—2·1	—2·9	—6	—0·8
19. Konkan . .	0	0·04	—0·04	—100	+1·2	—1·2	+0·1	+4	—0·1
20. Deccan (Desh) .	0	0·09	—0·09	—100	+1·8	—0·5	—2·2	—8	—0·5
21. Hyderabad, North	0	0·37	—0·37	—100	+2·2	+1·1	—4·0	—12	0
22. Hyderabad, South	0	0·37	—0·37	—100	+1·5	—1·2	—3·3	—11	0·6
23. Coastal Andhradesa	0	0·53	—0·53	—100	+0·1	—2·0	—2·0	—3	0·6
24. Rayalaseema .	0	0·22	—0·22	—100	+0·1	—1·5	—2·5	—10	+0·8
25. Tamilnad .	0·12	0·61	—0·49	—80	—1·0	—2·0	—3·3	—7	+0·4
26. Malabar & South Kanara	0·19	0·13	+0·06	+46	—0·1	+0·3	—0·2	0	+1·3
27. Mysore . .	0	0·18	—0·18	—100	—0·4	—0·7	—2·7	—7	+0·6
28. Travancore-Cochin	0·04	0·78	—0·74	—95	+2·3	—0·5	—0·5	—3	+1·9

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Relative humidity %		
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	2
Bay Islands																						
Port Blair	259	1003·1	—1·5	1000·3	84·3	—1·2	86	4 days.	70·0	—0·5	65	2,4	79·4	77·1	73·1	71·8	24·7	—1·2	24·0	73	+2	7
Assam																						
Dibrugarh	348	1001·7	—2·5	997·8	74·3	+1·3	80	8	55·9	+1·2	49	17	63·1	67·5	60·0	62·4	16·4	+0·7	17·0	83	—2	7
Mohanbari (R)	364																					
Sibsagar	317	1003·1	—2·0	999·2	76·2	+3·1	81	28	54·8	+1·2	48	4 days	64·3	68·3	60·5	63·5	16·1	0	17·6	80	—8	7
Tezpur	258	1005·0	—2·5	1000·2	80·5	+4·1	86	28	57·1	+1·1	52	1,5	64·8	72·9	59·8	63·3	15·3	—0·2	15·6	73	—8	5
Gauhati D. Type.	162	1007·6	...	1003·2	81·4	...	87	13	50·4	...	43	4	65·5	71·4	59·4	61·8	14·7	...	14·6	68	...	5
Gauhati	182	1007·3	—1·9	1002·2	81·5	+3·5	85	13,27,28	54·0	+0·2	48	4	64·0	75·2	58·9	63·7	14·8	—0·5	14·9	72	—7	5
Dhubri	115	1009·8	—1·8	1005·6	81·1	+4·1	87	27,28	58·1	+1·9	53	4	65·5	73·7	59·8	62·1	15·2	+0·1	13·9	71	—5	4
Silchar	96	1011·0	—1·7	1006·5	81·6	+1·0	86	6,28	51·1	—4·6	48	5 days	62·0	76·6	58·1	64·1	14·7	—1·8	14·8	77	0	4
Tura	1,215	971·6	...	968·3	79·0	...	83	27,28	58·4	...	52	13	65·8	71·6	59·0	62·3	13·8	...	14·8	64	...	5
West Bengal																						
Dum Dum	33	1012·6	...	1008·5	85·5	...	93	27	60·4	...	52	1	70·6	80·5	62·4	63·2	15·8	...	11·7	61	...	3
Calcutta	21	1013·1	—1·4	1009·0	86·5	+2·8	93	4 days.	61·7	+2·3	53	1,17	69·5	79·9	62·5	64·0	16·1	—1·0	13·3	66	—13	3
Saugor Island	10	1012·6	—2·1	1009·7	80·3	—0·3	90	28	66·1	+1·5	57	1,17	72·6	75·1	66·7	68·1	19·6	—1·3	20·3	72	—6	6
Sandheads	32	1012·1	—2·1	1009·1	...	...	...	...	...	...	...	...	75·7	78·0	70·2	71·0	22·7	+0·1	22·7	75	+5	6
Midnapore	149	1008·5	—1·5	1004·5	87·1	+1·7	96	28	58·0	—3·2	52	16	70·9	81·8	59·2	64·5	12·1	—3·3	12·7	50	—14	3
Contai	35	1011·8	...	1008·0	85·6	...	99	28	63·4	...	56	17	71·1	77·4	65·0	66·6	18·5	...	17·	70	...	5
Burdwan	106	1009·8	—1·8	1006·4	86·8	+3·5	95	26	57·3	—1·2	52	5,16,17	66·1	82·8	56·7	64·0	11·4	—3·5	11·7	53	—14	3
Krishnagar	48	1012·1	—1·6	1008·1	86·3	+3·6	94	26	54·1	—1·6	46	17	65·3	79·6	59·1	64·7	14·6	—0·7	14·0	68	—5	4
Asansol	414	999·1	—1·4	995·1	86·5	+4·2	96	26	57·1	—0·3	53	6 days	68·5	82·2	57·1	62·6	10·7	—2·8	10·6	47	—16	2
Berhampore	62	1011·5	—1·7	1007·0	85·7	+4·2	94	26	54·5	—2·0	49	17	66·3	80·7	56·4	62·3	11·0	—3·8	10·8	51	—19	3
Malda	103	1009·7	—2·2	1005·7	83·0	+3·7	92	26	53·1	—1·0	45	4,17	67·4	77·7	56·6	60·0	10·6	—3·6	9·9	49	—22	3
Cooch Behar	145	1008·6	...	1004·4	80·9	...	85	26,27,28	55·0	...	49	3	64·9	74·6	58·5	63·9	13·8	...	15·7	67	...	5
Jalpaiguri	271	1003·5	—2·2	999·4	79·8	+2·9	84	20,24	55·5	+1·7	49	3	60·3	76·7	56·3	63·6	13·7	—0·9	14·3	77	—3	4
Bagdogra	418	998·3	...	994·2	81·0	...	86	19	51·4	...	44	12	65·2	73·6	58·3	61·7	13·4	...	13·3	65	...	4
Orissa																						
Balasore	65	1011·3	—1·7	1007·8	86·8	+2·0	93	26,27,28	60·9	—0·7	55	5	69·4	77·0	61·4	66·6	15·0	—2·3	17·5	61	—8	5
Chandbali	20	1012·5	—1·8	1009·2	87·0	+1·9	96	26	63·2	—0·5	56	1,16	72·0	78·2	66·2	68·5	19·1	—1·1	19·7	73	—4	6
Puri	20	1012·9	—1·3	1009·4	82·2	—0·7	88	15	69·6	+0·5	62	6,7	75·5	77·6	70·6	72·6	23·3	+0·9	25·1	78	+2	7
Cuttack	87	1010·4	—1·8	1006·2	89·3	+1·1	97	28	64·3	—0·5	59	1,7	69·0	85·9	64·0	66·7	18·1	—1·5	13·9	74	—2	3
Gopalpur	56	1011·6	—1·3	1008·1	83·9	+0·4	89	27	65·0	—2·2	60	16	72·7	78·5	68·2	74·6	21·6	+0·8	27·4	78	+5	8
Koraput	2,996	912·7	...	909·7	82·8	...	89	4 days	55·5	...	51	16,18	65·5	78·5	55·3	61·3	11·0	...	11·8	60	...	3
Angul	455	997·9	—1·0	993·8	87·2	+0·4	95	24,26,28	59·0	—2·3	52	16	68·1	86·3	60·5	68·1	15·3	—1·1	15·5	63	—4	3
Sambalpur	486	996·4	—1·7	992·6	89·6	+3·3	98	27	55·2	—4·2	47	16	68·1	85·9	59·0	65·5	13·1	—2·2	12·1	55	—10	3
Jharsuguda	726	988·2	...	984·1	...	...	...	...	...	...	...	...	69·1	83·5	58·3	62·5	11·6	...	9·8	49	...	2
Titilagarh	691	989·9	...	985·2	91·9	...	100	26	59·3	...	50	17	69·2	88·0	60·0	66·1	13·7	...	11·9	56	...	2
Chota Nagpur																						
Purulia	335	985·2	..	981·2	85·8	...	94	26	58·3	...	54	1,5,17	69·1	81·1	56·2	63·3	9·6	...	11·7	41	...	3
Jamshedpur	423	999·1	—1·2	994·6	87·5	+4·2	96	26	51·4	—3·3	48	16	64·8	83·7	55·2	62·7	10·7	—4·2	10·0	51	—21	2
Chaibasa	742	987·9	—1·2	983·6	87·7	+3·9	95	28	55·8	—1·6	51	16,17	63·5	84·0	54·9	61·8	11·0	—3·8	9·1	55	—16	2
Ranchi	2,150	939·5	—1·3	936·9	82·1	+5·2	91	26	54·6	—0·4	46	6	65·7	75·8	52·1	56·0	7·9	—2·8	7·2	41	—13	2
Hazaribagh	2,006	944·5	—1·0	941·7	79·6	+2·5	89	26	54·0	—0·2	44	17	64·3	73·8	51·0	54·8	7·2	—3·3	7·0	38	—22	2
Daltonganj	725	989·1	—1·0	985·1	82·5	+2·6	92	11,26	49·3	—2·6	42	4	61·2	78·4	53·4	60·2	10·3	—2·4	9·8	58	—15	3
Dhanbad	339	984·0	...	...	84·6	...	93	26	56·8	...	50	17	66·4	...	53·2	...	8·1	...	...	37	...	..

(R) Register not received.

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0.10" or more)		Wind velocity, miles per hour		Wind direction—Number of Winds from:—																		STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bay Islands
5·4	+2·5	5·6	0·23	—0·83	0·25	7	1	—1·0	4·1	—3·0	5	14	2	0	0	0	0	4	3	2	15	3	0	0	0	0	1	7	Port Blair
																													Assam
3·7	—0·7	4·3	0·82	—1·62	0·43	19	3	—3·2	1·1	+0·1	4	8	8	0	0	2	2	2	2	0	6	7	0	0	2	2	1	10	Dibrugarh
																													Mohanbari (R)
3·9	—1·9	4·5	0·26	—1·76	0·18	23	1	—4·2	2·3	+0·5	3	5	4	3	5	3	1	0	4	9	8	0	0	2	0	0	3	6	Sibsagar
2·1	—0·9	1·4	0	—1·03	0	...	0	—2·7	1·0	—1·3	2	11	13	0	0	0	0	0	2	4	2	5	0	0	0	1	0	16	Tezpur
0·1	...	1·4	0	...	0	...	0	...	1·9	...	1	13	3	0	4	1	0	0	6	1	0	0	0	0	0	2	0	25	Gauhati D. Type
0·4	—2·3	1·8	0	—1·17	0	...	0	—2·6	1·8	+0·3	4	3	2	4	4	2	0	1	8	0	2	0	1	0	1	0	0	24	Gauhati
0·2	—1·8	0·1	0	—0·74	0	...	0	—1·5	1·3	—2·2	0	4	4	1	2	3	0	0	14	0	1	1	0	2	1	0	0	23	Dhubri
0·8	—1·5	0·6	0	—1·89	0	...	0	—3·6	1·1	—0·4	1	2	1	3	4	2	0	0	15	0	0	0	0	1	2	2	0	23	Silchar
0·2	...	0·5	0	...	0	...	0	...	4·7	...	0	2	5	8	5	3	0	0	5	0	0	2	12	4	6	0	0	4	Tura
																													West Bengal
1·0	...	0·1	0	...	0	...	0	...	3·3	...	5	4	1	0	0	5	3	5	5	3	1	0	1	1	2	2	2	16	Dum Dum
0·8	—1·7	0·1	0	—1·17	0	...	0	—1·8	2·7	+0·1	2	1	0	0	1	5	6	6	7	0	0	0	0	1	3	3	0	21	Calcutta
1·5	—1·1	0·3	0	—1·15	0	...	0	—1·8	8·9	+2·2	6	7	1	0	0	7	2	4	1	1	0	0	3	14	8	1	1	0	Saugor Island
1·8	0	0·9	0	—0·56	0	...	0	—1·1	...	...	4	4	1	0	2	10	3	2	2	1	3	2	4	2	9	0	1	6	Sandheads
0·4	—1·6	0	0	—1·35	0	...	0	—2·0	2·5	+0·6	13	4	1	0	3	0	0	2	5	3	1	0	0	2	0	0	1	21	Midnapore
0·9	...	0·7	0	...	0	...	0	...	4·5	...	4	3	0	1	2	4	4	2	8	1	1	2	9	13	1	0	0	1	Contai
0	—2·3	0	0	—1·32	0	...	0	—2·0	2·5	+1·0	4	1	0	0	0	7	5	8	3	4	0	0	2	0	6	5	5	6	Burdwan
1·4	—0·8	0·1	0	—1·15	0	...	0	—1·8	2·4	+0·7	3	1	0	0	8	1	13	0	2	3	1	0	0	0	1	7	1	15	Krishnagar
0·1	—2·0	0·2	0	—1·25	0	...	0	—2·5	4·4	+0·8	1	0	0	0	1	1	12	13	0	2	0	0	0	0	1	4	16	5	Asansol
0·3	—1·9	0	0	—0·83	0	...	0	—1·7	1·0	—0·5	2	1	0	1	3	2	8	2	9	0	0	0	0	0	1	0	3	24	Berhampore
0·4	—1·0	0	0	—0·83	0	...	0	—1·7	4·0	+1·1	4	1	0	0	2	6	4	7	4	2	0	0	0	1	1	6	15	3	Malda
0·6	...	0·5	0	—0·81	0	...	0	—1·8	2·4	...	0	2	15	2	2	1	2	0	4	0	0	1	0	0	2	3	1	21	Cooch Behar
0.5	—1·2	0·4	0	—0·67	0	...	0	—1·4	2·5	+1·2	3	5	3	2	0	2	1	1	11	0	2	2	3	0	4	1	0	16	Jalpaiguri
0·9	...	1·7	0	...	0	...	0	...	2·7	...	5	10	4	2	1	0	0	0	6	0	1	1	1	0	4	1	1	19	Bagdogra
																													Orissa
0·7	—1·3	1·0	0	—1·37	0	...	0	—2·4	3·8	+1·2	10	4	0	0	2	1	0	7	4	0	0	0	12	16	0	0	0	0	Balasore
1·5	—0·7	0·2	0	—1·31	0	...	0	—1·8	(h) 4·8	+0·1	0	0	0	1	0	8	0	16	3	0	8	1	18	0	0	0	0	0	Chandbali
0·9	—1·1	1·0	0	—0·92	0	...	0	—1·2	10·1	+1·6	8	3	0	0	0	9	3	3	2	0	0	1	9	13	5	0	0	0	Puri
1·6	—0·7	0·7	0	—0·78	0	...	0	—1·5	2·6	+1·1	0	1	0	0	0	0	0	1	26	0	0	0	1	0	1	0	0	26	Cuttack
0·6	—0·6	0·9	0	—0·90	0	...	0	—1·2	6·8	—0·8	13	1	0	0	0	2	0	5	7	0	0	2	5	18	3	0	0	0	Gopalpur
1·7	...	2·5	0	...	0	...	0	...	6·8	...	0	0	0	1	6	21	0	0	0	12	6	1	1	1	0	1	6	0	Koraput
0·9	—1·5	0·3	0	—1·13	0	...	0	—2·1	3·6	+0·1	4	3	1	0	0	0	7	9	4	2	7	4	3	0	0	5	5	2	Angul
0·5	—1·2	0·6	0	—0·94	0	..	0	—2·0	2·3	—0·1	8	11	2	0	1	0	1	0	5	3	3	2	0	1	4	6	2	7	Sambalpur
0·5	...	0·5	0	...	0	...	0	...	...	...	10	3	1	2	0	0	0	0	12	1	0	0	3	0	0	7	4	13	Jharsuguda
0·5	...	0·8	0	...	0	...	0	...	1·3	...	0	1	0	3	3	2	2	1	16	1	1	2	0	1	0	0	0	23	Titilagarh
																													Chota Nagpur
0·4	...	0·3	0	...	0	...	0	...	2·8	...	2	0	0	0	2	8	7	9	0	4	3	0	1	2	1	4	11	2	Purulia
0·1	—2·2	0·3	0	—1·95	0	...	0	—3·7	2·6	+0·3	0	0	0	0	0	0	12	7	9	3	2	1	2	1	2	2	3	12	Jamshedpur
0·4	—1·7	0·5	0	—1·49	0	...	0	—2·5	1·3	—0·3	0	0	0	0	0	12	1	0	15	2	2	0	0	0	13	1	2	8	Chaibasa
0·1	—2·0	0·4	0	—1·80	0	...	0	—3·4	2·9	—1·1	1	0	1	0	1	0	1	4	20	3	1	0	0	0	0	3	2	19	Ranchi
0·7	—1·5	0·1	0	—1·26	0	...	0	—2·5	6·6	+1·1	2	0	0	1	1	1	1	16	6	3	0	0	0	1	0	0	24	0	Hazaribagh
1·3	—0·3	0·6	·18	—1·09	0·18	6	1	—1·4	1·5	—0·9	0	0	4	2	1	0	2	1	18	1	0	0	0	0	0	12	10	5	Daltonganj
...	...	...	0	...	0	...	0	...	4·8	...	1	0	0	1	0	11	6	2	7	...	...	...	...	...	...	...	...	...	Dhanbad

(h) Mean of 29 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Relati humic %	
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0330 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Bihar																					
Purnea	124	1009·0	—1·9	1004·8	81·9	+3·0	89	24	49·5	—2·1	39	4	62·1	74·3	54·6	60·0	11·2	—2·5	11·1	60	—16
Darbhanga	161	1007 7	—1·8	1004·1	79·7	+1·8	87	26	52·3	—0·6	45	4	60·9	74·9	54·6	60·5	11·6	—2 4	11·4	66	—7
Motihari	218	1006 1	—1·3	1001·9	79·7	+2·9	88	26,27	51·1	+1·1	43	17	65·4	71·6	57·6	61·0	12·5	—1·1	13·7	61	—15
Patna	173	1007.6	—1·7	1004·0	81·3	+3·5	91	26	54·7	—0·1	43	4	64·1	76·9	53·8	59·1	9·4	—3·5	8·9	48	—15
Dehri	352	1001.4	...	998·1	81·9	...	92	25,26	55·8	...	47	4	63·2	77·8	54·0	59·4	10·3	...	9·0	53	...
Gaya	365	1001·1	—1·3	997·3	83·1	+3·7	93	26	52·3	—0·6	44	4	63·8	78·2	53·1	58·4	9·2	—2·3	7·6	46	—14
Jamui	270	1004·4	...	1000·5	84·5	...	94	26	54·4	...	46	17	64·4	78·0	57·7	64 8	13·5	...	15·2	64	...
Dumka	489	996·6	—1·5	992·5	86·6	+6·1	96	26,27	...	...	...	...	68·5	79·9	54 9	59·7	8 8	—4·5	8·6	36	—23
Sabour	122	1009·0	—1·6	1004·9	81·9	+3·7	91	26	49·7	—1·8	41	4,17	64·9	75·7	57·1	63 1	12·2	—2·2	14·2	60	—19
Bhagalpur	181	1007·7	...	1003·9	81·5	...	89	26	57·5	...	48	4	66·5	74·2	56·3	60·9	11·1	...	12·0	50	...
U. P., East																					
Gonda	360	1000·6	...	997·9	78·4	+0·4	90	25	50·1	—1·3	44	4,16	56·4	73·6	51·5	59·9	10·5	—1·8	11·9	71	—4
Gorakhpur	254	1004·2	—1·7	1001·0	80·0	+2·3	91	25,26	53·7	+1·6	48	4,16	60·4	75·9	53·1	59 2	10·1	—2·3	10·0	59	—12
Azamgarh	255	1004·7	...	1001·1	80·7	...	92	25,26	48·6	...	42	4	57·7	75·8	52·4	61 5	11·0	...	12·1	70	...
Banaras	250	1005·2	—1·3	1001·9	79·2	—0·2	91	25	51·3	—0·8	38	4	60·3	77·6	52·5	59·5	9·7	—2·9	9·6	55	—14
Allahabad (Fanrauli).	322	1002·9	—1·1	1000·0	78·9	—0·3	90	25	51·2	+0·3	42	3	59·7	74·9	52 2	59·6	10·1	—1·0	10·4	59	—7
Fatehpur	375	1001·3	...	998·0	78·6	—1·2	92	26	49·7	—2·6	41	3,4	58·5	75·9	51·6	58·8	10·1	—2·3	9·4	61	—10
Banda	398	1000·6	...	997·6	81·1	...	94	25,26	51·2	...	42	3,4	59·5	78·0	53·2	59·3	10·6	...	9·1	58	...
Orai	463	997·9	...	995·1	79·7	...	91	25	48·9	...	36	3	57·5	77·5	51·3	62·4	10·1	...	12·2	63	...
Kanpur	414	1000·0	—0·5	997·1	78·4	+1·4	89	24,25	50·5	—0·5	41	4	57·7	75·1	51·1	59·0	10·1	—0·9	9·9	62	—6
Lucknow	371	1001·4	—0·7	998·1	78·6	0	91	25	51·7	+0·3	43	4	58·0	75·4	51·6	60·0	10·1	—1·3	10·4	62	—6
Hardoi	467	996·9	...	995·0	77·6	...	88	4 days	49·2	...	41	3,4	55·6	76·7	50·7	60·7	10·5	...	11·1	68	...
Kheri	483	996·2	...	993·6	78·0	...	89	25	50·1	...	43	3	57·1	72·4	52·0	60·5	11·0	...	12·3	70	...
Bahraich	407	998·9	—1·2	996·3	78·0	+1·0	89	25,26	50·5	—0·4	43	16	58·5	73·3	52·9	60·4	11·5	—0·4	11·8	66	—8
U. P., West.																					
Jhansi	823	986·2	—0·6	982·5	(d) 80·5	—0·4	92	25	51·7	—0·9	39	3	60·6	79·3	50·0	58 2	7·8	—2·3	7·1	44	—10
Agra	553	995·2	—0·7	992·5	77·7	+0·3	90	25	48·1	—0·1	36	3	53·3	76·9	45·9	56·1	7·1	—2·0	5·9	53	—10
Mainpuri	516	996·2	—0·7	994·0	78·2	+0·5	90	20,25	48·4	—1·4	38	4	55·7	73·8	49·9	59·9	9·6	—1·0	11·4	65	—1
Aligarh	615	992·8	...	990·4	77·3	+1·6	88	24,25	46·2	—4·4	37	3	53·4	74·1	47·9	58·3	8·7	—1·8	9·3	66	—2
Bareilly	568	993·1	—1·7	990·8	77·0	+1·9	87	24,25,28	50·3	+0·2	41	3	56·5	73·0	50·7	58·7	10·1	—1·3	10·3	65	—10
Meerut	728	988·5	—0·9	...	75·4	+1·1	85	4 days	47·3	—0·8	38	3	53·4	...	47·2	...	8·3	—1·3	...	61	—9
Roorkee	899	981·7	—1·5	979 6	74·4	+1·9	85	24	45·9	—1·1	39	3	51·2	70·9	47·9	56·0	9·6	—0·8	8·6	77	—2
Dehra Dun	2,239	935·9	—1·1	934·4	70·9	+1·6	81	28	45 8	—0·8	38	3	52·8	67·4	47·7	54·9	9·4	+0·4	9·5	70	—3
Punjab (I)																					
New Delhi	710	989·2	—0·9	986·8	76·6	+1·9	87	23	47·2	—2·0	38	3	53 2	73.9	45·6	55 2	7·1	—2·8	6·8	52	—16
Hissar	725	989·4	—0·2	986·7	79·2	+3·0	92	23	40·5	—6·7	32	3	47·1	76·3	42·2	59 9	6·9	—2·0	10·0	64	—1
Karnal	818	984·8	...	983 0	75·3	...	86	24	45·9	...	38	3	50·4	72·1	44·9	54 1	7·5	...	6·2	63	...
Ambala	892	981·6	—1·7	980·1	76·8	+3·7	88	24	47·1	—0·7	39	4,6	51·2	72·3	46·5	56 5	8·8	—1·2	8·2	64	—9
Patiala	822	984·7	...	982·9	75·8	...	87	24	46·3	...	38	2	50·1	70·2	45·2	54 4	8·0	...	7·6	67	...
Ludhiana	810	985·6	—0·9	984·3	74·6	+3·4	86	23	43·7	—3·8	35	2,3	49·8	73·4	45·5	55 9	8·4	—1·4	7·2	70	—6
Ferozepore	657	991·9	...	989·9	72·7	...	85	19	43·3	...	33	5	48·4	70·6	44·5	54 9	8·0	...	8·1	71	...
Amritsar	756	987·5	...	986·0	70·7	...	81	19,25,27	41 6	...	35	5 days	47·9	68·0	45·7	57 6	9·7	...	11·5	85	...
Jammu and Kashmir.																					
Srinagar	5,205	844·6	+0·5	843·0	40·7	3·4	54	28	27·7	—1·8	19	6	30·6	38·4	29·4	35 1	5·3	—0·4	5·5	88	0
Gulmarg	8,709							Closed	during	Winter		months.									

(d) Mean of 27 days.

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0.10" or more)		Wind velocity, miles per hour		Wind direction—Number of Winds from:—																			STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
4	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	
																														Bihar
·6	—1·1	0·3	0	—0·62	0	...	0	—1·3	3·6	+1·5	0	1	2	1	1	12	9	2	0	0	0	0	0	0	3	11	0	14	Purnea
·0	—0·7	0·4	0	—0·53	0	...	0	—1·4	1·1	—1·0	0	0	1	1	0	0	15	3	8	0	0	0	0	0	1	8	1	18	Darbhanga
·1	—0·6	0·9	0·12	—0·48	0·06	6,11	0	—1·4	0·9	—1·4	1	1	1	0	0	0	17	1	7	0	0	0	0	0	0	15	0	13	Motihari
·2	—0·7	0·7	0	—0·74	0	...	0	—1·6	5·5	+2·7	1	0	0	1	2	10	11	2	1	0	1	0	0	0	3	17	6	1	Patna
)·9	...	0·6	0·09	—0·75	0·09	6	0	—1·8	4·5	...	0	0	0	1	1	19	1	6	0	1	1	0	0	0	0	0	25	1	Dehri
)·6	—1·2	0·5	0·13	—0·72	0·13	6	1	—0·8	5·8	+1·8	0	0	0	1	13	7	3	1	3	3	0	0	0	0	0	14	11	0	Gaya
)·6	...	0·5	0	...	0	...	0	...	4·5	...	3	0	3	1	0	3	1	15	2	1	0	0	0	0	0	3	19	5	Jamui
)·1	—1·5	0	0	—0·94	0	...	0	—2·0	...	...	1	0	0	0	0	3	14	10	0	1	0	0	0	0	0	15	12	0	Dumka
)·6	—1·8	0·4	0	—0·79	0	...	0	—1·7	5·3	+1·8	1	0	0	2	2	6	15	2	0	1	0	0	0	0	0	15	9	3	Sabour
)·5	...	0·4	0	...	0	...	0	...	5·7	...	0	0	0	1	1	3	13	7	3	1	1	0	0	0	2	10	13	1	Bhagalpur
																														U. P., East
1·1	—1·1	1·0	0·41	—0·50	0·22	6	2	—0·3	4·2	+1·1	0	0	1	1	1	0	11	7	7	0	0	1	0	0	0	11	2	14	Gonda
0·7	—0·8	0·8	0·04	—0·59	0·04	6	0	—1·8	3·6	+1·9	2	0	2	1	0	0	19	1	3	0	0	2	0	2	1	22	0	1	Gorakhpur
0·9	...	0·9	0·39	...	0·38	6	1	...	...	...	0	0	0	0	0	10	7	0	11	0	0	0	0	1	0	11	0	16	Azamgarh
1·1	—0·8	0·9	0·33	—0·38	0·31	6	1	—0·9	6·9	+4·1	0	0	1	0	3	14	7	0	3	1	1	1	0	0	2	20	3	0	Banaras
1·1	—1·1	1·0	0·79	+0·16	0·41	6	2	+0·3	3·5	+0·3	0	0	1	2	2	13	4	1	5	0	1	1	0	1	2	19	3	1	Allahabad (Bamrauli)
1·2	—0·6	1·3	0·41	—0·30	0·23	6	2	—0·4	3·3	+0·7	0	0	0	0	0	4	16	2	6	0	0	0	0	0	0	10	9	9	Fatehpur
1·0	...	1·0	0·21	...	0·21	5	1	...	2·5	...	0	1	0	1	0	1	16	0	9	1	1	0	0	0	0	18	4	4	Banda
0·6	...	1·0	0·17	...	0·17	6	1	...	4·8	...	1	1	0	0	1	3	17	5	0	4	3	1	1	0	1	2	16	0	Orai
1·1	—0·2	0·8	0·87	+0·21	0·86	6	1	—0·6	7·1	+3·0	1	0	2	1	1	3	14	3	3	1	0	1	0	1	5	11	7	2	Kanpur
(d) 0·4	—1·6	1·0	0·82	+0·10	0·54	6	3	+1·4	2·5	+0·8	0	0	2	0	1	3	17	1	4	0	0	0	0	0	4	15	5	4	Lucknow
0·7	...	0·7	0·60	...	0·50	6	2	...	4·0	...	2	2	1	2	0	2	11	7	1	4	0	0	2	0	5	5	12	0	Hardoi
1·4	...	1·5	0·89	...	0·77	6	1	...	2·7	...	2	1	1	2	0	0	10	7	5	1	0	0	1	2	4	11	3	6	Kheri
1·1	—0·5	0·8	0·76	—0·15	0·69	6	1	—1·0	3·9	+1·8	1	0	1	1	0	4	6	8	7	0	0	1	1	0	8	7	4	7	Bahraich
																														U. P., West
1·0	—0·4	0·5	0	—0·45	0	...	0	—1·1	0·6	—2·1	1	2	0	0	0	3	9	1	12	2	2	0	0	0	0	5	6	13	Jhansi
1·0	—1·1	1·1	0	—0·49	0	...	0	—1·1	2·3	—0·9	0	0	0	0	0	1	3	2	22	2	0	0	0	0	1	5	4	16	Agra
1·3	—0·9	1·6	0·39	—0·15	0·39	6	1	—0·2	...	...	0	0	1	0	0	4	11	8	4	0	0	0	0	0	0	4	12	12	Mainpuri
0·9	—1·1	1·7	0·02	—0·74	0·02	10	0	—2·1	4·5	+1·0	0	0	0	0	0	0	8	10	10	1	1	1	0	0	0	1	12	12	Aligarh
1·4	—0·9	2·5	1·05	+0·08	0·84	6	2	+0·1	3·7	+1·7	1	1	2	0	1	1	14	5	3	1	0	0	0	0	1	21	0	5	Bareilly
0·9	—1·4	...	0·22	—0·80	0·12	2	2	—0·2	6·0	...	1	3	0	0	0	0	6	12	6	...	...	...	...	...	...	...	...	...	Meerut
0·4	—1·2	1·8	0·42	—1·10	0·19	10	2	—0·8	3·6	+1·4	2	1	0	3	0	0	0	15	7	0	1	0	0	0	2	2	18	5	Roorkee
2·1	—1·2	2·6	0·91	1·56	0·35	1	4	+0·2	1·9	+0·2	0	3	0	0	0	2	2	0	21	0	0	0	0	0	7	8	2	11	Dehra Dun
																														Punjab (I)
1·7	—0·8	1·7	0·02	—0·81	0·02	10	0	—1·7	7·9	...	0	0	1	0	1	1	12	12	1	4	1	3	0	1	0	0	19	0	New Delhi
0·6	—1·6	0·3	0	—0·54	0	...	0	—1·2	4·1	+0·2	0	1	1	0	1	6	7	4	8	6	0	2	0	0	1	3	12	4	Hissar
1·3	...	1·5	0·03	...	0·03	2	0	...	4·7	...	3	0	2	0	0	0	13	7	3	1	0	2	2	1	1	8	13	0	Karnal
1·6	—1·3	1·4	0·22	—1·65	0·22	2	1	—2·1	5·7	+2·4	1	0	0	4	0	0	0	14	9	0	0	4	0	0	0	1	17	6	Ambala
1·7	...	2·1	0·22	...	0·12	2	2	...	7·0	...	8	0	1	2	0	0	2	13	2	9	0	1	3	0	0	1	14	0	Patiala
1·6	—1·0	0·9	0·05	—1·30	0·05	2	0	—2·7	2·1	+0·4	0	0	0	1	0	0	6	6	15	0	1	0	3	0	0	7	8	8	Ludhiana
1·4	...	2·1	0·10	...	0·09	2	0	...	...	...	0	1	0	0	0	2	4	1	20	0	5	0	0	0	2	0	5	16	Ferozepore
2·3	...	2·0	0·29	...	0·15	1	2	...	7·4	...	3	2	2	0	0	3	4	11	3	2	0	0	1	1	2	6	16	0	Amritsar
																														Jammu and Kashmir
7·3	+1·1	4·6	4·88	+2·04	1·47	1	6	—0·2	2·5	+0·1	5	0	2	5	1	0	0	5	10	2	2	0	3	2	1	3	10	5	Srinagar
																													Gulmarg

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Relative humidity %		
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jammu and Kashmir—*contd.*																						
Dras (R)																						
Leh	11,529	662·8	—1·1	661·1	36·3	+3·3	48	19	12·4	+2·1	2	3,4	18·2	29·9	14·1	23·5	1·5	—0·3	2·3	43	—12	44
Skardu (R)																						
Gilgit (R)																						
Misgar (R)																						
Rajasthan, West																						
Sri Ganganagar	580	994·8	...	992·5	74·6	+1·0	87	19,23	40·8	—4·9	32	3	50·0	71·9	45·2	56·3	8·0	—2·2	8·7	67	—13	32
Bikaner	734	989·4	+0·2	986·8	77·9	—1·2	92	19,22,23	42·4	—4·7	32	3,5	48·8	76·9	40·3	56·2	4·8	—3·0	6·4	42	—17	23
Jaisalmer	793	987·2	...	984·4	80·5	...	94	23	47·6 (d)	...	28	2	54·0	78·6	43·3	54·2	5·0	...	3·6	32	...	12
Jodhpur	736	989·5	+1·5	986·7	82·0	+1·4	93	5 days	50·4	—2·2	32	2	56·0	80·6	43·4	56·5	4·1	—3·4	5·1	27	—20	14
Phalodi	783	988·0	...	986·3	79·2	...	93	19,23	47·3	...	33	2	51·9	77·9	45·9	...	7·9	...	...	59	...	...
Barmer	638	992·8	+1·0	989·6	83·5	+2·2	96	22,24	54·4	—1·2	41	2,3	58·8	81·5	48·3	61·6	6·9	—4·1	9·3	40	—18	27
Rajasthan, East																						
Sikar	1,419	966·0	...	963·4	77·4	...	90	24,25	40·1	...	27	3	49·6	75·0	44·4	...	8·0	...	...	63	...	...
Jaipur	1,431	965·3	—0·4	962·7	79·5	+2·5	91	25	47·8	—2·8	34	2,3	58·9	76·9	46·4	53·7	5·2	—2·8	4·0	33	—15	12
Ajmer	1,593	960·1	0	957·4	77·2	+0·2	89	23,24	46·6	—3·3	35	2	53·2	75·1	43·4	51·7	5·5	—3·0	3·6	42	—10	13
Kotah	843	985·7	—0·4	982·3	82·7	+0·7	95	25	53·0	—2·4	44	3	58·1	80·3	47·7	57·4	6·5	—2·4	5·6	41	—7	18
Jhalawar	1,053	977·8	—0·2	974·2	82·0	—0·3	93	4 days	48·5	—4·3	41	3,5	55·2	81·7	45·9	56·4	6·2	—3·3	4·2	44	—8	13
Udaipur	1,910	949·2	—0·5	946·3	80·3	+0·9	92	22	47·4	—3·2	34	2	55·4	78·6	45·9	57·5	6·6	—2·5	8·0	46	—4	26
Madhya Bharat																						
Gwalior	681	991·3	...	987·4	80·0	...	92	20,25	47·6	...	39	16	65·2	77·8	[illegible]	57·3	6·5	...	6·9	33	...	24
Sheopur Kalan	771	...	...	...	82·8	...	94	25	46·1	...	36	3	52·6	80·0	45·6	60·0	7·3	...	8·7	55	...	26
Guna	1,571	960·0	—0·4	957·2	82·7	+1·5	94	24,25	46·0	—4·2	33	3	54·3	80·1	46·2	57·9	7·4	—2·0	7·5	54	—3	22
Neemuch	1,626	958·9	—0·1	956·2	81·7	+0·9	92	22,24,26	51·1	—0·8	39	3	58·2	79·7	45·2	54·7	5·1	—3·5	4·5	31	—16	13
Ratlam	1,596	959·3	...	956·3	84·1	...	94	22	52·9	...	42	2,3	60·0	82·6	51·0	64·9	9·1	...	13·8	51	...	36
Indore	1,839	950·8	—0·7	947·6	84·6	+1·0	94	22,23,27	48·7	—2·4	37	3	60·4	82·9	48·7	59·3	7·0	—2·2	7·7	40	—6	20
Bhopal (Bairagarh)	1,714	955·2	—0·4	952·1	83·6	+0·8	94	23	52·6	—2·0	39	3	60·[illegible]	81·2	48·4	56·1	6·6	—2·6	5·3	38	—10	15
Madhosagar	757	988·1	...	985·1	80·4	...	93	25	51·7	...	43	4	58·1	78·3	48·4	56·2	5·2	...	5·5	46	...	18
Vindhya Pradesh																						
Nowgong	950	988·8	—0·2	985·4	80·6	+0·6	94	25	46·9	—3·8	37	3	56·7	78·5	49·4	57·1	8·8	—2·0	6·4	57	—9	21
Sutna	1,041	978·0	—0·7	975·0	80·0	+0·7	92	25	50·7	—1·5	42	3	58·6	76·5	52·0	60·1	10·3	—0·4	10·4	63	+4	36
Umaria	1,506	961·9	...	959·0	81·0	—0·1	94	25	48·4	—3·3	41	3	59·6	77·2	52·0	59·9	10·2	—1·3	10·4	58	—4	36
Madhya Pradesh, East																						
Gondia	1,026	978·3	...	974·8	88·4	...	99	27	57·4	...	51	16,17	66·3	85·6	56·8	64·4	11·5	...	11·1	53	...	28
Pendra	2,040	943·9	—0·9	941·0	81·9	+3·8	93	25,26	55·3	+0·8	47	4	65·6	76·9	53·1	58·1	8·8	—2·9	8·9	41	—18	30
Ambikapur	1,989	945·7	...	942·3	81·0	...	91	26	47·2	...	41	4 days	57·7	77·5	50·5	57·4	9·6	...	8·0	61	...	26
Raigarh	723	988·3	...	984·5	90·6	...	99	27,28	58·9	...	52	15	66·5	86·7	55·6	63·2	10·2	...	9·2	44	...	21
Champa	805	985·9	...	981·7	89·2	...	97	25,26,28	60·1	...	54	16	65·6	86·4	55·1	62·0	10·1	...	8·0	48	...	20
Raipur	979	979·7	—1·0	975·7	88·6	+2·6	98	26	61·0	+0·9	56	3,4,17	68·5	87·1	57·0	65·7	10·7	—2·4	12·0	46	—10	28
Kanker	1,318	968·3	—0·5	964·5	87·9	+2·2	95	26,27	56·5	—1·9	48	18	66·1	86·3	58·9	67·7	13·8	—1·4	14·7	63	—5	35
Chanda	634	991·3	—1·1	986·5	93·9	+3·5	103	26	57·5	—2·0	49	6	68·3	91·8	56·3	63·4	10·2	—4·2	7·2	41	—16	17
Sironcha	405	...	...	...	94·3	...	100	4 days	62·6	...	53	16,18,19	67·8	92·6	60·6	68·0	14·9	...	12·3	64	...	24
Jagdalpur	1,815	951·4	0·9	947·5	90·6	+4·0	97	4 days	53·9	—2·1	48	4 days	65·3	86·0	57·0	62·4	12·5	—3·4	9·7	60	—11	23

(d) Mean of 27 days only

R.—Register not received.

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0·10" or more)		Wind velocity, miles per hour		Wind direction—Number of Winds from :—																	STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.								
Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Jammu and Kashmir—*contd.*
																													Dras (R)
3·8	—1·5	4·9	0·39	+0·08	0·14	19	2	+1·1	3·5	+2·1	0	0	0	0	0	0	0	0	28	0	0	0	0	2	13	5	1	7	Leh
																													Skardu (R)
																													Gilgit (R)
																													Misgar (R)
																													Rajasthan, West
1·0	—2·3	0·8	0	—1·13	0	...	0	—2·0	3·3	—0·9	2	0	2	1	3	2	1	3	14	2	0	0	0	0	2	5	16	3	Sri Ganganagar
0·5	—1·7	0·5	0	—0·27	0	...	0	—0·7	2·2	—1·4	0	1	1	7	1	3	2	3	10	3	12	0	0	0	3	1	5	4	Bikaner
1·3	...	1·1	0	...	0	...	0	...	5·6	...	1	11	0	0	0	2	4	1	9	0	12	0	1	0	3	2	8	2	Jaisalmer
0·9	—1·3	1·1	0	—0·24	0	...	0	—0·6	3·5	—3·3	1	15	5	0	0	1	1	0	5	4	7	2	1	0	1	5	5	3	Jodhpur
0·9	...	0·9	0	—0·19	0	...	0	—0·5	6·2	...	1	4	5	5	5	3	4	1	0	10	4	2	0	0	0	7	5	0	Phalodi
1·3	—0·8	1·4	0	—0·28	0	...	0	—0·6	5·0	+0·4	2	1	0	0	0	0	0	19	6	4	6	2	0	0	1	3	2	10	Barmer
																													Rajasthan, East
1·0	...	1·0	0	...	0	...	0	...	3·2	...	0	2	4	7	1	2	0	0	12	2	4	1	0	0	2	9	9	1	Sikar
0·9	—1·2	0·9	0	—0·32	0	...	0	—0·8	3·6	—0·3	5	5	3	1	1	0	0	0	13	6	0	0	0	1	2	4	12	3	Jaipur
0·8	—0·9	0·8	0	—0·26	0	...	0	—0·7	2·7	+0·6	1	2	0	2	0	0	1	1	21	5	2	1	1	1	3	4	5	6	Ajmer
0·6	—1·1	0·6	0	—0·21	0	...	0	—0·5	2·3	+0·6	0	1	0	0	0	2	5	2	18	3	0	1	0	1	0	8	8	7	Kotah
0·5	—1·0	0·3	0	—0·08	0	...	0	—0·4	2·7	+0·1	5	6	0	0	0	0	0	2	15	7	8	1	0	0	1	2	6	3	Jhalawar
0·6	—0·8	0·8	0	—0·14	0	...	0	—0·5	1·9	...	2	0	0	0	0	0	3	4	19	1	7	7	4	0	3	2	3	1	Udaipur
																													Madhya Bharat
0·9	...	1·1	0	...	0	...	0	...	2·0	...	1	0	0	0	0	0	4	15	8	5	2	1	0	1	0	2	15	2	Gwalior
...	...	...	0	...	0	...	0	...	...	...	5	4	1	5	10	1	1	1	0	13	2	0	1	0	1	2	9	0	Sheopur Kalan
1·2	0	0·8	0	—0·19	0	...	0	—0·6	3·3	+0·5	2	2	12	3	1	0	0	0	8	5	3	1	0	1	1	3	14	0	Guna
0·8	—0·6	0·6	0	—0·15	0	...	0	—0·4	4·0	—0·6	4	16	1	0	0	1	1	1	4	5	13	1	1	0	1	1	5	1	Neemuch
1·6	...	3·1	0	...	0	...	0	...	6·1	...	6	10	6	0	0	2	0	0	4	10	7	1	0	0	1	4	5	0	Ratlam
0·4	—0·9	0·3	0	—0·14	0	...	0	—0·5	4·4	+0·3	5	8	4	4	3	0	3	0	1	7	5	1	0	0	1	6	7	1	Indore
0·8	—0·7	0·3	0	—0·15	0	...	0	—0·5	5·6	+0·8	2	10	4	2	1	0	1	0	8	10	2	1	0	1	0	2	7	5	Bhopal (Bairagarh)
1·0	...	1·0	0	...	0	...	0	...	4·7	...	0	1	0	0	3	8	4	5	7	5	4	0	0	1	1	2	15	0	Madhosagar
																													Vindhya Pradesh
0·7	—1·4	1·0	0·25	—0·32	0·20	5	1	—0·3	2·0	+0·4	0	0	0	0	0	15	6	0	7	2	5	1	0	0	1	2	15	2	Nowgong
1·4	—0·5	1·2	1·49	+0·71	0·95	5	2	+0·2	3·1	+0·5	0	0	2	0	2	5	4	1	14	1	2	0	1	0	0	2	6	16	Sutna
1·4	—0·7	1·0	1·97	+0·97	1·51	6	2	+0·1	1·8	—0·7	1	0	0	4	2	3	1	0	17	4	4	0	0	1	0	1	10	8	Umaria
																													Madhya Pradesh, East
0·2	...	0·8	1·00	...	1·00	6	1	...	2·2	...	10	4	0	5	1	2	0	5	1	5	2	0	0	0	1	0	4	16	Gondia
0·7	—1·2	1·1	0·46	—1·01	0·46	6	1	—1·9	3·6	+0·2	13	1	1	0	1	1	1	5	5	17	2	0	1	2	0	0	5	1	Pendra
1·1	...	0·4	0·34	...	0·34	6	1	...	4·3	...	6	15	1	0	5	3	1	0	7	19	3	0	0	0	0	1	5	0	Ambikapur
0·3	...	0·4	0	...	0	...	0	...	2·8	...	4	15	1	1	1	0	0	0	6	4	2	0	1	0	1	5	6	9	Raigarh
0·6	...	0·3	0	...	0	...	0	...	4·5	...	12	4	0	0	0	0	0	8	4	7	2	1	0	1	0	7	8	2	Champa
0·9	—0·7	0·9	0	—0·87	0	...	0	—1·8	3·2	—0·4	6	3	2	0	4	0	1	1	11	4	2	0	1	0	1	2	3	15	Raipur
0·7	—1·1	0·8	0	—0·86	0	...	0	—2·1	2·2	—0·5	0	1	1	0	0	0	0	0	26	2	4	0	0	0	0	2	4	16	Kanker
0·5	—0·9	0·9	0·04	—0·77	0·04	6	0	—1·3	2·0	—0·1	0	0	0	1	0	0	0	1	26	3	2	0	1	0	4	0	9	9	Chanda
0·6	...	0·6	0	...	0	...	0	...	2·5	...	2	3	6	6	1	0	0	0	10	4	2	2	2	4	3	2	2	7	Sironcha
0·3	—1·3	1·6	0	—1·08	0	...	0	—1·6	2·3	+0·4	1	2	3	1	1	0	1	2	17	1	6	0	2	0	6	0	7	6	Jagdalpur

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Relative humidity %		
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Madhya Pradesh, West																						
Buldhana	2,133	940·2	...	937·4	87·0	...	96	23	62·6	...	50	3	67·5	85·9	53·1	61·6	8·0	...	8·8	36	...	21
Akola	925	981·4	—0·8	976·9	92·9	+2·3	101	23,27,28	56·7	—1·1	48	3	63·5	91·2	51·9	66·0	8·0	—1·7	10·5	41	—3	21
Amravati	1,213	971·4	—1·0	967·5	91·7	+2·4	100	27	62·6	+0·5	53	2	67·9	90·8	...	...	...	...	...	...	...	...
Yeotmal	1,481	962·3	...	958·5	91·0	...	99	4 days	63·5	...	53	3	71·6	88·6	56·5	63·6	8·9	...	8·8	37	...	23
Khandwa	1,044	977·7	—0·7	973·6	39·4	+0·7	99	4 days	53·1	—2·8	41	3	62·1	87·6	49·6	60·6	6·5	—2·4	6·0	35	—10	13
Hoshangabad*	992	979·4	—1·2	975·6	35·8	+0·9	96	23	54·7	—2·8	49	7,13,16	60·2	85·2	51·8	60·8	9·4	—1·3	7·2	53	+2	19
Sagar	1,808	951·7	—0·7	948·6	30·7	+0·1	94	25	55·9	+0·2	42	3	62·1	78·0	49·7	56·5	7·2	—1·3	6·9	40	—4	22
Jabalpur	1,289	969·6	—0·3	966·2	33·3	+1·9	95	25	49·6	—1·4	43	13,17	58·9	80·2	51·6	60·9	9·8	—1·4	9·6	58	—2	29
Mandla	1,452	963·6	...	959·9	34·5	...	95	25,26	46·1	..	40	16,18	54·0	80·8	49·6	59·2	10·2	...	7·5	73	...	24
Seoni	2,027	943·8	—1·8	941·3	35·5	+2·5	96	4 days	54·3	—0·6	48	2	61·2	81·6	52·6	61·0	10·1	—0·7	10·0	56	+3	29
Chhindwara	2,248	936·7	...	933·8	35·0	...	94	25	53·6	...	48	14,18	60·8	82·0	50·9	58·4	8·7	...	7·2	49	...	21
Betul	2,144	940·5	...	937·5	34·5	...	94	28	51·2	...	43	18	61·5	80·5	50·6	57·7	8·2	...	7·1	45	...	21
Nagpur	1,010	978·6	—1·0	974·4	91·5	+3·3	100	25	57·0	—2·9	51	2,3	68·2	89·4	55·6	64·9	9·5	—2·3	10·0	41	—10	22
Gujarat																						
Deesa*	466																					
Surat	39	1011·8	—1·3	1008·4	93·0	+3·6	106	22	59·5	—0·5	49	3	63·1	88·4	54·6	66·6	10·7	—2·9	12·4	54	—6	27
Ahmedabad	181	1007·9	—0·8	1004·6	87·5	+0·7	98	22	54·2	—3·0	41	2	62·6	86·1	51·1	61·1	7·7	—2·6	7·1	36	—20	17
Dohad	1,093	976·3	...	972·8	87·6	+0·9	98	22	55·7	—0·8	43	3	62·4	85·1	50·7	62·4	7·4	—3·1	9·1	39	—17	24
Baroda	115	1009·9	...	1006·4	90·0	+0·6	101	22	50·8	—4·0	40	2	57·7	88·0	50·8	64·1	9·6	—2·0	9·6	59	+1	21
Broach	57	1011·7	...	1008·3	92·1	...	104	21,22	56·5	...	45	3,4	58·8	90·4	53·0	71·2	11·0	...	17·4	64	...	36
Saurashtra and Kutch																						
Bhuj	343	1003·1	+0·1	1000·1	85·0	+1·3	97	28	53·5	—3·0	40	2	59·2	83·8	48·6	57·3	6·9	—5·5	4·2	41	—16	11
Dwarka	37	1013·5	—0·6	1010·8	79·9	+1·4	93	21	61·0	—2·2	52	3	64·1	75·2	57·8	62·6	13·5	—3·3	13·7	65	—6	48
Jamnagar	61	1012·6	—0·7	1009·5	83·4	—0·5	94	27	52·9	—0·7	43	2,3,4	58·8	81·2	52·7	62·0	10·9	+0·3	10·3	63	+7	30
Rajkot	432	999·1	—0·5	995·6	87·5	+1·0	99	22	53·1	—1·2	39	3	57·9	86·4	49·1	60·3	8·0	—2·9	6·1	48	—9	14
Veraval	26	1012·8	—1·1	1009·7	85·1	...	97	21	56·3	...	46	3	63·7	77·4	53·3	67·6	9·2	...	18·6	47	—9	61
Bhavnagar	55	1012·3	—0·7	1008·6	88·3	+1·0	99	22	54·4	—3·2	41	3	57·8	87·1	47·8	62·7	6·9	—3·1	8·5	42	—4	19
Konkan																						
Dahanu	15	1012·0	...	1009·5	...	...	...	...	60·5	...	51	3	66·8	77·3	59·7	70·6	14·3	...	22·4	63	...	70
Bombay	35	1011·5	—1·3	1008·5	85·6	+2·5	95	19	65·8	—1·6	59	3	72·0	79·2	65·4	71·0	18·4	—0·6	22·3	69	—2	65
Alibag	23	1012·1	—0·8	...	83·2	+0·6	89	22	62·8	—2·1	57	4,5,6	67·5	...	62·3	...	16·9	—0·6	...	73	+6	...
Harnai	66	1009·6	...	1006·9	81·7	...	92	14,17	71·6	...	66	2	74·9	79·4	65·3	72·7	17·0	...	24·4	59	...	71
Devgad	110	1007·9	...	1004·6	85·0	...	91	9	70·0	...	65	2,3,6	73·0	83·8	67·9	76·1	20·0	...	27·3	76	...	69
Vengurla	29	1011·1	...	1007·8	88·1	...	95	10	65·1	...	56	1	71·5	83·7	66·7	74·0	20·2	...	24·3	77	...	62
Marmagao	202	1004·6	—1·8	1001·9	84·5	+0·6	88	9,15,23	71·3	+0·1	66	1,2	74·5	81·8	70·3	73·6	23·5	+1·6	24·6	80	+7	66
Honavar	85	1009·4	...	1005·7	88·7	...	95	9	69·3	...	64	1,2	74·0	84·5	68·8	75·8	21·7	...	26·5	76	...	66
Deccan (Desh)																						
Jalgaon	660	990·2	...	986·5	93·2	...	101	22,23	54·2	...	45	2	61·6	92·6	49·6	60·3	6·7	...	8·6	36	...	17
Malegaon	1,432	964·6	—0·6	960·5	92·1	+2·2	101	25	52·2	—2·5	43	3	62·3	89·5	49·5	61·1	6·4	—2·7	5·6	34	—11	12
Deolali	1,874	949·1	...	...	89·5	...	97	23	49·8	...	42	3	63·8	...	50·5	...	6·6	...	...	36	...	...
Ahmednagar	2,154	939·7	—1·1	935·7	91·2	+2·7	98	26	57·1	+1·2	50	1,15	64·8	89·1	50·6	61·6	6·8	—2·8	7·6	34	—6	17
Poona	1,834	950·5	—0·9	946·5	92·9	+2·4	99	25,26	54·5	—0·6	47	1	62·0	89·8	53·1	63·0	10·1	—0·9	8·8	54	—7	18
Jeur	1,709	954·7	...	950·4	92·4	...	99	28	57·0	...	47	1,2	64·7	91·0	54·5	70·1	10·3	...	16·6	49	...	32
Sholapur	1,570	959·5	—0·6	955·1	94·2	+1·7	100	4 days	62·0	—0·7	56	2,19	71·4	92·1	55·8	65·7	8·9	—1·2	10·9	35	—5	22

* Data not reliable.

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0·10" or more)		Wind velocity, miles per hour		Wind direction—Number of Winds from:—																			STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Madhya Pradesh, West.
0·5	...	0·5	0	...	0	...	0	...	...	...	10	4	2	3	4	0	2	0	3	3	3	0	0	0	3	0	19	0		Buldhana
0·3	—1·1	0·6	0	—0·30	0	...	0	—0·6	3·5	+0·4	1	7	1	5	1	1	2	3	7	8	3	3	0	0	1	6	5	2		Akola
0·4	—1·0	0·6	0	—0·44	0	...	0	—0·8	5·8	+1·8	0	25	0	0	0	2	0	1	0	0	7	0	2	0	5	0	14	0		Amravati
1·4	...	1·4	0	...	0	...	0	...	6·3	...	0	14	0	7	0	1	0	6	0	0	10	0	3	0	5	0	10	0		Yeotmal
0·4	—0·7	0·3	0	—0·16	0	...	0	—0·4	3·7	+0·3	4	5	1	0	0	0	5	1	12	7	6	0	0	0	1	1	13	0		Khandwa
0·7	—0·7	0·4	0	—0·38	0	...	0	—0·9	2·4	+0·2	0	1	11	1	0	1	0	0	14	0	1	2	1	0	0	0	0	24		Hoshangabad
1·5	—0·1	0·7	1·70	+1·23	1·70	5	1	—0·2	9·3	+0·5	4	10	5	2	1	0	2	2	2	2	15	1	1	0	2	2	5	0		Sagar
1·1	—0·5	0·6	0·78	+0·02	0·65	6	2	+0·3	2·6	+0·9	2	2	1	12	2	1	0	2	6	4	15	1	0	0	2	1	5	0		Jabalpur
1·6	...	1·0	0·38	...	0·23	6	2	...	1·6	...	2	0	0	0	0	0	0	0	26	17	1	0	0	2	0	0	5	3		Mandla
0·3	—1·3	0·3	0·10	—0·71	0·08	5	0	—2·0	4·1	+1·3	6	6	0	0	2	2	0	2	10	11	6	1	2	2	1	0	3	2		Seoni
0·6	...	0·5	0·22	...	0·22	5	1	...	3·4	...	6	3	1	1	0	1	2	2	12	5	5	0	1	1	1	1	13	1		Chhindwara
0·3	...	0·6	0·09	...	0·09	5	0	...	3·3	...	3	2	4	3	1	0	0	1	14	11	9	0	0	0	1	3	3	1		Betul
0·7	—1·1	0·5	0	—0·65	0	...	0	—1·4	3·4	...	12	6	1	0	1	0	0	6	2	4	6	2	3	1	1	3	4	4		Nagpur
																														Gujarat
																														Deesa*
0	—1·0	0·2	0	—0·08	0	...	0	—0·2	4·7	+1·5	3	12	1	0	0	1	0	1	10	4	3	0	0	0	3	0	17	1		Surat
0·4	—1·1	0·5	0	—0·08	0	...	0	—0·2	4·2	+1·6	2	8	10	0	0	0	0	6	2	7	5	2	0	0	0	2	9	3		Ahmedabad
0·6	—0·9	0·5	0	—0·04	0	...	0	—0·2	5·9	+2·7	1	3	7	2	7	5	1	0	2	4	3	1	0	1	10	5	1	3		Dohad
0·2	—0·9	0·3	0	—0·21	0	...	0	—0·3	1·9	—0·4	2	10	0	0	0	1	0	0	15	6	6	1	0	0	0	3	4	8		Baroda
0	...	0	0	...	0	...	0	...	4·3	...	5	8	3	4	2	0	1	3	2	8	4	2	1	1	4	3	5	0		Broach
																														Saurashtra and Kutch
0·7	—0·5	0·3	0	—0·17	0	...	0	—0·4	3·4	—1·2	2	3	0	2	1	1	0	1	18	10	11	0	1	0	1	1	4	0		Bhuj
0·5	—1·3	0·2	0	—0·24	0	...	0	—0·5	9·3	+0·6	11	10	3	0	0	0	0	4	0	10	3	1	0	0	0	2	12	0		Dwarka
0·7	—0·5	0·3	0	—0·08	0	...	0	—0·2	9·2	...	0	4	5	1	2	5	2	1	8	13	7	0	0	0	0	5	3	0		Jamnagar
0·5	—1·1	0·1	0	—0·09	0	...	0	—0·3	6·9	+2·1	2	5	2	2	1	2	1	2	11	5	12	2	1	0	0	3	5	0		Rajkot
0·9	—0·2	0·2	0	—0·07	0	...	0	—0·2	8·8	...	14	6	1	0	0	0	0	3	4	0	2	0	0	2	3	11	9	1		Veraval
0	—1·3	0·7	0	—0·06	0	...	0	—0·2	3·9	—0·3	1	0	0	0	2	8	7	2	8	3	6	9	3	2	0	1	2	2		Bhavnagar
																														Konkan
0·4	...	0·2	0	...	0	...	0	...	8·1	...	5	3	11	7	0	0	0	0	2	15	0	0	0	0	0	3	10	0		Dahanu
0·4	—0·6	0·4	0	—0·08	0	...	0	—0·1	4·7	—2·3	3	9	7	0	0	0	0	0	9	1	1	0	0	0	0	2	24	0		Bombay
0·3	—0·7	...	0	—0·03	0	...	0	—0·2	3·0	—2·4	1	3	2	1	0	0	0	0	21	...	...	...	...	...	...	...	...	...		Alibag
0·4	...	0·2	0	...	0	...	0	...	8·4	...	6	4	6	2	0	0	1	4	5	0	0	0	0	0	1	6	21	0		Harnai
0·5	...	0·6	0	...	0	...	0	...	8·3	...	0	5	22	1	0	0	0	0	0	0	0	0	0	0	1	18	9	0		Devgad
0·7	...	1·0	0	...	0	...	0	...	...	...	5	2	2	0	0	0	0	0	19	0	0	0	0	0	9	12	2	5		Vengurla
2·5	+1·1	1·8	0	0	0	...	0	0	6·9	+0·7	0	6	15	5	2	0	0	0	0	0	0	0	0	0	3	16	9	0		Marmagao
2·6	...	2·4	0	—0·06	0	...	0	—0·1	2·6	...	0	4	20	3	0	0	1	0	0	0	0	0	0	0	1	19	8	0		Honavar
																														Deccan (Desh)
0·8	...	0·8	0	—0·11	0	...	0	—0·4	3·9	...	0	2	4	8	1	4	3	0	6	1	3	2	1	0	8	3	10	0		Jalgaon
0	—1·1	0·5	0	—0·09	0	...	0	—0·2	3·2	—1·0	1	0	0	0	0	0	2	2	23	3	9	1	0	0	1	5	2	7		Malegaon
0·1	...	...	0	...	0	...	0	...	3·8	...	1	4	1	1	1	0	0	0	20	...	...	...	...	...	...	...	...	...		Deolali
0·1	—0·7	0·4	0	—0·13	0	...	0	—0·3	4·0	—0·8	0	0	0	1	0	0	1	15	11	2	9	0	1	1	5	2	7	1		Ahmednagar
0·4	—0·4	0·6	0	—0·06	0	...	0	—0·2	1·4	—2·8	0	0	0	0	0	2	3	0	23	2	0	4	1	1	0	3	8	9		Poona
0·4	...	1·1	0	...	0	...	0	...	3·4	...	4	2	2	0	0	0	0	1	19	5	4	3	4	3	2	2	4	1		Jeur
0·7	—0·2	1·1	0	—0·13	0	...	0	—0·3	4·4	—1·1	3	8	2	2	0	2	0	0	11	6	5	1	3	2	2	2	1	6		Sholapur

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Relative humidity %		
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Deccan (Desh)— *contd.*																						
Miraj	1,817	950·9	—1·0	946·8	92·6	+2·1	99	26	58·9	—0·1	50	2	64·8	90·5	53·9	64·4	9·8	—3·3	10·0	48	—10	2
Kolhapur	1,885	943·8	...	944·8	91·6	...	97	26	60·3	...	53	1	65·8	89·8	56·0	62·7	11·4	...	8·5	54	...	1
Bijapur	1,950	946·4	—1·0	942·7	92·0	+1·0	98	24,26,27	62·9	—1·0	58	16,18,19	71·4	90·6	57·1	64·4	10·1	—2·9	10·0	39	—13	2
Belgaum	2,562	926·5	—0·6	923·2	88·8	+0·5	93	24,25,26	58·6	—0·7	54	1,2	62·9	86·5	55·3	61·8	11·9	—0·5	8·8	61	+5	2
Gadag	2,131	940·4	—0·8	936·8	92·7	+2·0	97	26	65·3	+0·4	59	2	74·1	89·5	59·1	63·2	11·1	—3·1	9·1	39	—18	1
Hyderabad, North.																						
Aurangabad	1,905	948·6	—1·0	944·9	91·2	+2·6	98	25	60·9	+1·3	53	1	65·6	90·1	50·7	61·9	6·6	—2·5	7·6	31	—9	1
Parbhani	1,350	965·5	...	961·3	93·4	...	101	25,27	59·0	...	53	3	68·7	91·2	56·3	68·9	10·0	...	14·1	41	...	2
Ramagundam	527	995·3	...	990·9	94·9	...	102	28	62·3	...	57	5,20	73·5	91·9	61·1	67·1	12·8	...	11·4	45	...	2
Nizamabad	1,250	969·7	—1·4	965·9	93·1	+2·3	101	26,28	61·8	—0·2	54	18	68·7	90·9	57·2	63·6	10·8	—3·4	7·7	47	—7	1
Bidar	2,178	938·8	...	935·3	89·5	+1·3	96	27,28	66·8	+1·3	61	13	72·6	87·1	56·1	61·5	8·7	—4·7	8·3	33	—17	1
Hyderabad, South.																						
Gulbarga	1,503	961·6	—0·9	957·0	93·0	+0·7	99	25	63·6	—0·7	58	17,19	72·9	91·4	56·3	62·3	8·1	—4·6	6·1	32	—16	1
Raichur	1,311	967·9	—0·9	963·9	92·4	+0·3	98	26,27,28	67·1	—1·3	62	17	73·5	90·9	61·7	67·5	13·4	—2·3	12·4	48	—6	2
Hyderabad (Begumpet).	1,778	952·3	—0·8	949·1	91·8	+2·5	99	25	60·6	—1·9	56	16,19	70·5	88·0	59·1	64·1	12·5	—3·7	10·8	50	—15	2
Hanamkonda	881	982·5	—1·6	978·6	92·0	+2·5	100	28	65·1	—0·8	60	16,20	71·4	89·6	63·7	65·1	16·7	—2·4	10·1	63	—7	2
Khammameth	367	1000·5	...	996·3	93·7	...	101	28	66·6	...	61	15	74·1	92·0	71·0	77·7	24·4	...	25·9	84	...	5
Coastal Andhradesa.																						
Nellore	66	1010·9	—1·1	1007·6	89·7	+0·3	95	27,28	66·6	—3.2	64	1,15	73·7	82·9	69·0	70·5	22·1	—2·5	19·8	78	—3	5
Ongole	38	1012·0	...	1008·5	87·5	...	92	27	67·3	...	62	22	74·2	81·5	72·3	76·4	26·2	...	28·4	90	...	7
Gannavaram	88	1010·7	...	1005·4	...	...	...	...	...	...	...	...	74·4	85·5	70·1	69·8	23·2	...	17·8	80	...	4
Masulipatam	10	1013·4	—1.0	1009·6	85·3	—0·8	92	15,16	67·2	—1·4	64	11	76·3	80·4	71·6	71·5	24·3	—0·7	22·3	79	—2	6
Kakinada	26	1013·1	—0·8	1003·8	86·7	+1·1	97	28	68·8	—0·9	65	1,11	78·0	82·0	71·3	71·9	23·1	+0·1	22·2	70	—5	6
Visakhapatnam	126	1009·1	—1·3	1005·7	82·0	—1·5	88	28	69·0	—1·6	64	1	74·8	79·1	68·9	71·5	21·4	—1·0	23·0	74	+1	6
Calingapatam	19	1012·7	—1·5	1008·9	84·7	—1·7	91	28	65·7	—2·1	62	6	69·4	80·6	65·7	72·2	19·9	—2·4	23·1	82	+3	6
Rentachintala	348	1000·9	...	996·5	95·3	+2·9	103	28	66·3	—2·8	63	9,15,16	72·8	93·0	63·5	68·1	15·8	—5·7	12·2	58	—12	2
Rayalaseema																						
Cuddapah	428	998·4	—0·8	993·1	95·1	+0·8	102	28	68·5	—1·1	63	23	80·6	92·1	70·5	81·3	20·9	+0·1	31·5	59	—5	6
Bellary	1,473	952·4	—0·8	957·9	92·4	—1·4	98	28	65·7	—0·4	63	23,24	72·6	90·7	58·5	63·0	10·6	—4·4	7·2	39	—15	1
Kurnool	923	981·2	—0·8	976·5	94·5	+1·0	101	28	63·1	—2·9	59	4 days	72·2	92·0	60·9	66·1	13·1	—3·1	10·2	49	—10	2
Anantapur	1,147	973·0	...	969·5	92·1	...	98	26,27	62·6	...	59	22,23,25	72·0	90·4	61·4	68·2	13·8	...	13·5	53	...	2
Tamilnad																						
Palayamcottai	167	1006·9	...	1002·5	91·3	...	95	21,28	71·1	...	68	23,28	75·7	85·0	69·3	72·8	21·6	...	22·0	71	...	5
Pamban	37	1011·3	—0·9	1007·9	82·3	—2·5	85	27	73·6	—1·4	70	20,28	78·4	78·9	72·3	72·6	24·4	—2·6	24·5	73	—6	7
Mathurai	437	997·8	—1·1	993·2	91·3	+1·0	95	27,28	67·9	—1·6	63	28	74·8	88·9	68·0	68·7	20·3	—3·0	14·6	69	—7	3
Nagapattinam	31	1012·0	—0·8	1008·8	81·7	—3·1	84	27	70·2	—3·0	67	23,24	74·7	79·4	69·9	72·1	22·8	—2·4	23·6	78	+1	6
Tiruchi	295	1003·3	—0·9	998·8	90·4	—1·1	94	28	66·8	—2·5	60	28	74·2	87·9	69·0	72·3	21·9	—2·6	20·2	76	—5	4
Coimbatore	1,341	967·0	—1·2	962·5	91·0	+0·1	95	20,25,28	67·0	+0·5	63	19	72·7	89·3	63·3	64·5	15·7	—5·7	10·6	57	—21	2
Salem	913	981·8	—1·0	976·5	93·9	+0·8	97	6 days	66·0	—1·0	63	15,23	70·4	91·1	63·5	68·7	16·8	—4·8	13·8	67	—7	2
Kallakurichi	416	993·6	...	994·3	91·0	...	96	27,28	65·2	...	61	23	73·0	88·3	65·3	66·3	17·9	...	12·1	64	...	2
Cuddalore	39	1011·9	—1·0	1008·4	82·9	—2·2	87	28	66·3	—3·7	62	24	74·0	79·4	70·5	74·6	23·9	—1·4	27·2	84	0	7
Vellore	703	989·0	—0·8	981·9	89·7	+0·8	96	28	62·3	—3·9	58	22,27	70·8	87·8	64·0	67·8	17·3	—4·3	14·2	67	—15	3
Madras	31	1011·7	—0·8	1003·3	85·6	—2·7	89	4 days	67·2	—1·2	64	25	74·1	80·5	68·9	70·6	21·8	—2·5	21·0	76	—4	5
Arogyavaram	2,299	935·3	...	931·8	86·4	...	92	25,28	61·3	...	57	1,8	71·0	84·2	58·0	60·7	11·2	...	8·6	45	...	2

(d) Mean of 27 days.

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0·10" or more)		Wind velocity, miles per hour		Wind direction—Number of Winds from:—																			STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Deccan (Desh)— *contd.*
0·4	—0·5	0·7	0	0	0	...	0	0	4·4	—0·2	2	2	1	0	0	0	2	3	18	1	7	3	3	3	2	3	4	2		Miraj
0·2	...	0·4	0	...	0	...	0	...	5·0	...	0	3	3	0	0	0	1	0	21	2	9	1	2	0	0	8	1	5		Kolhapur
0·6	—0·4	1·0	0	—0·09	0	...	0	—0·2	3·2	—0·2	7	3	0	2	4	3	0	6	3	6	8	5	2	2	1	0	3	1		Bijapur
0·6	—0·5	0·9	0	—0·05	0	...	0	—0·1	3·6	+0·7	6	3	6	2	3	0	1	6	1	4	6	4	5	1	4	3	1	0		Belgaum
0·4	—0·5	1·3	0	—0·16	0	...	0	—0·4	4·0	—0·3	0	0	6	7	2	1	2	1	9	0	1	6	6	1	2	1	0	11		Gadag
																														Hyderabad, North.
0·2	—0·9	0·6 (d)	0	—0·17	0	...	0	—0·4	5·3	—0·1	1	2	11	0	0	0	1	1	12	2	4	3	3	3	2	8	2	1		Aurangabad
0·7 (d)	...	0·8 (d)	0	—0·29	0	...	0	—0·7	...	...	3	4	1	0	1	0	18	1	0	9	7	1	0	0	0	9	1	0		Parbhani
1·2	...	1·1	0	...	0	...	0	...	2·7 (e)	...	2	1	3	2	3	3	2	0	11	6	8	0	4	2	2	0	1	4		Ramagundam
0·9	—0·3	0·8	0	—0·67	0	...	0	—1·2	2·1	—0·4	0	1	0	3	1	0	0	1	22	1	1	0	3	0	0	0	5	18		Nizamabad
0·9	—0·5	1·3	0	—0·36	0	...	0	—0·7	6·4	+0·2	6	3	5	1	2	7	1	3	0	2	7	7	2	4	3	1	1	1		Bidar
																														Hyderabad, South.
0·7	0	1·5	0	—0·27	0	...	0	—0·5	5·5	+0·1	3	9	3	3	4	0	2	1	3	4	5	7	7	1	2	1	0	1		Gulbarga
1·1	+0·1	2·1	0	—0·28	0	...	0	—0·6	5·5	+0·2	3	3	1	6	3	3	3	3	3	3	3	3	7	3	3	2	2	2		Raichur
1·1	—0·7	1·6	0	—0·36	0	...	0	—0·9	4·3	+0·5	0	1	1	4	3	2	2	6	9	2	7	8	9	0	0	0	0	2		Hyderabad (Begumpet).
0·8	—1·7	0·9	0	—0·58	0	...	0	—1·1	5·1	+0·2	4	1	0	9	7	1	0	3	3	6	4	2	6	4	1	2	1	2		Hanamkonda
1·5	...	1·9	0	...	0	...	0	...	4·3	...	1	1	13	8	3	0	0	0	2	2	0	8	4	6	0	4	0	4		Khammameth
																														Coastal Andhradesa.
2·7	+0·3	3·6	0	—0·24	0	...	0	—0·5	3·1	—0·2	1	0	0	1	5	0	0	0	21	0	0	17	11	0	0	0	0	0		Nellore
0·5	...	1·2	0	...	0	...	0	...	4·5	...	0	0	2	2	1	2	0	2	19	0	2	3	19	2	0	0	0	2		Ongole
1·8	...	1·2	0	...	0	...	0	...	...	...	0	3	14	2	3	3	1	0	2	0	0	0	12	15	1	0	0	0		Gannavaram
1·9	—0·2	1·7	0	—0·53	0	...	0	—0·6	5·0	+1·2	2	5	1	3	2	1	0	1	13	0	0	1	11	16	0	0	0	0		Masulipatam
1·1	—1·5	0·6	0	—0·32	0	...	0	—0·6	5·9	+1·2	0	10	1	4	0	10	1	0	2	0	2	0	22	0	4	0	0	0		Kakinada
0·9	—1·6	1·1	0	—0·94	0	...	0	—1·1	3·8	+0·6	0	1	1	0	0	0	10	7	9	0	1	3	2	11	10	1	0	0		Visakhapatnam
2·7	+0·9	2·6	0	—0·61	0	...	0	—1·3	5·3	+0·3	1	0	0	0	0	0	13	14	0	0	0	4	5	10	9	0	0	0		Calingapatam
1·4	—1·5	2·2	0	—0·53	0	...	0	—1·3	3·5	—1·4	1	1	1	2	1	2	2	0	18	4	4	17	2	0	0	1	0	0		Rentachintala
1·8	+0·4	2·3	0	—0·12	0	...	0	—0·2	7·6	—0·4	0	0	10	0	0	0	0	0	18	0	0	28	0	0	0	0	0	0		**Rayalaseema** Cuddapah
3·5	+2·1	3·5	0	—0·18	0	...	0	—0·3	2·6	—0·3	0	0	0	4	0	1	0	0	23	0	2	8	13	0	0	0	0	5		Bellary
1·0	—0·1	1·9	0	—0·28	0	...	0	—0·5	2·3	—1·2	0	1	0	2	1	1	0	0	23	0	5	6	7	2	0	0	0	8		Kurnool
1·9	...	2·4	0	—0·30	0	...	0	—0·4	4·9	...	1	1	1	2	3	4	1	0	15	1	11	13	2	1	0	0	0	0		Anantapur
2·6	...	2·3	0·06	—1·11	0·06	9	0	—1·7	3·9	...	18	4	0	0	0	0	2	4	0	0	2	24	2	0	0	0	0	0		**Tamilnad** Palayamcottai
2·9	+0·3	3·2	1·13	+0·27	1·13	9	1	—0·4	8·9	+2·2	7	13	4	0	0	0	0	4	0	6	18	2	0	0	0	0	2	0		Pamban
3·9	+0·6	4·6	0	—0·53	0	...	0	—0·7	3·9	+0·1	5	11	2	1	0	0	0	1	8	2	12	11	1	0	0	0	0	2		Mathurai
5·3	+1·6	4·1	0	—0·83	0	...	0	—1·0	7·9	+1·2	2	3	0	0	0	0	0	20	3	1	22	4	1	0	0	0	0	0		Nagapattinam
3·6	+1·3	4·3	0	—0·49	0	...	0	—0·6	5·1	+1·3	7	15	2	0	1	0	0	0	3	0	12	14	2	0	0	0	0	0		Tiruchi
1·7	—1·3	2·3	0.01	—0·35	0·01	11	0	—0·5	3·9	+1·3	10	10	3	0	0	0	1	2	2	3	8	9	7	1	0	0	0	0		Coimbatore
2·3	+0·6	2·9	0	—0·33	0	...	0	—0·6	6·4	+1·9	0	2	18	4	1	0	1	0	2	0	2	16	6	0	0	0	0	4		Salem
4·0	...	5·4	0	...	0	...	0	...	...	...	0	1	0	0	0	0	0	11	16	0	23	2	0	0	0	0	1	2		Kallakurichi
2·8	—0·2	4·0	0	—0·90	0	...	0	—1·2	4·8	+1·1	6	0	0	0	0	0	0	5	17	2	4	18	1	0	0	0	0	3		Cuddalore
2·7	+0·3	3·3	0	—0·25	0	...	0	—0·6	4·3	+1·6	1	0	0	0	0	0	0	2	25	0	5	18	4	1	0	0	0	0		Vellore
2·7	+0·5	3·1	0	—0·41	0	...	0	—0·7	6·2	—0·3	5	1	0	0	0	1	12	9	0	0	8	13	7	0	0	0	0	0		Madras
3·6	...	4·3	0	...	0	...	0	...	4·1	...	0	0	0	5	8	0	0	0	15	0	15	11	2	0	0	0	0	0		Arogyavaram

(e) Mean of 26 days

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Relat humi %	
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Malabar & South Kanara																					
Mangalore	72	1009·5	—1·3	1005·7	87·8	—0·4	95	9	72·8	+0·3	69	2,23	75·6	83·8	71·6	75·0	24·6	+0·9	25·7	81	+[illegible]
Kozhikode	27	1011·0	—1·1	1007·1	88·7	+0·2	90	6 days	73·4	+0·4	69	23	78·6	86·1	72·0	76·5	23·8	—1·3	26·8	71	—[illegible]
Palghat	319	1001·3	...	996·1	96·4	...	101	28	71·9	...	68	25	77·9	93·4	68·3	71·2	19·4	...	16·1	59	...
Mysore																					
Chitaldrug	2,405	930·9	—1·2	927·1	88·9	—0·7	94	26,27	65·9	—0·3	60	24	73·6	87·2	60·5	63·0	12·7	—2·4	9·8	46	—[illegible]
Shimoga	1,872	949·0	...	944·2	91·1	...	97	26	59·0	...	53	23,25	65·0	89·5	60·8	66·6	16·5	...	13·0	79	...
Hassan	3,149	907·5	...	903·9	86·3	—0·7	90	26,27,28	58·5	—1·0	54	25	64·6	83·7	57·5	62·3	13·3	—3·1	10·3	65	—[illegible]
Bangalore	3,021	911·5	—1·0	908·2	85·5	—0·1	90	25	(e) 59·7	—0·3	56	22,23	68·1	82·2	56·7	59·1	11·2	—5·2	7·8	49	—21
Mysore	2,518	927·7	—1·0	923·9	87·3	—1·6	92	26	62·4	—1·8	58	8	67·0	86·5	60·7	60·9	15·6	—1·7	8·0	70	+[illegible]
Travancore-Cochin																					
Fort Cochin	10	1011·6	—1·1	1007·5	87·3	+0·3	90	22	75·0	—0·5		8	80·4	84·2	72·8	75·6	24·2	—0·3	26·4	68	—5
Alleppey	12	1011·4	...	1007·4	89·3	...	92	18	74·3	...	72	5	81·4	84·7	75·5	77·8	27·5	...	29·4	74	...
Trivandrum	211	1004·5	—1·0	1001·3	88·6	...	92	24	72·3	...	68	17	76·1	84·1	71·1	74·2	23·8	—0·8	24·8	77	—1
Nagercoil	195	1005·3	...	1001·7	91·5	...	95	26,28	73·2	...	71	6 days	79·5	84·3	69·0	73·0	19·5	...	22·6	58	...
Hill Stations excluding Kashmir																					
Aijal	3,599	...	...	...	67·5	...	74	7	...	...	...	...	61·4	62·4	57·3	58·5	14·5	...	15·0	77	...
Shillong	4,921	849·9	—1·4	847·9	65·1	+2·6	72	27	43·3	+0·9	36	14,16	56·9	56·8	46·1	49·5	6·2	—2·8	9·0	40	—21
Cherrapunji	4,309	869·6	—0·9	867·4	64·3	+2·1	68	6,8,28	48·8	+0·3	44	15	58·6	57·4	49·7	50·8	8·5	—1·6	10·1	52	—8
Darjiling	7,432	774·6	—1·3	772·8	52·1	+4·3	59	19	38·4	+1·8	34	7	45·0	43·9	42·4	42·0	8·4	+1·0	8·4	83	+7
Kalimpong	3,965	882·1	+0·8	879·1	63·6	+2·3	68	21,22	49·3	+1·0	43	7	54·3	57·9	50·2	52·7	10·8	+0.1	10·8	75	+2
Katmandu	4,388	868·1	...	865·1	70·9	+2·7	80	27	39·0	—0·9	33	12	46·4	60·7	44·1	52·0	8·7	0	9·5	84	—1
Mukteswar (Kumaon)	7,592	770·8	—1·2	769·7	54·0	+3·5	67	22	38·9	+3·1	28	2,3	43·7	49·7	34·9	40·6	3·7	—1·0	5·5	45	—9
Mussooree	6,699	795·8	...	(d) 795·1	56·3	+5·8	73	18	40·3	+2·6	30	2	46·4	47·1	37·9	42·2	4·6	—1·4	7·3	41	—16
Simla	7,224	780·6	0	780·6	52·0	+3·2	63	18,22,28	38·6	+2·5	27	2	45·6	46·9	34·5	37·8	3·0	—1·3	4·6	34	—12
Dharamsala	3,974	884·8	...	883·6	62·3	...	72	19	47·5	...	32	2	52·9	58·3	49·2	54·5	10·7	...	12·6	77	...
Abu	3,945	882·7	+0·5	881·0	72·0	+4·0	82	24,28	52·5	—0·6	37	3	59·4	67·9	44·0	48·0	3·6	—2·7	3·5	22	—21
Pachmarhi	3,528	895·9	—0·5	893·8	77·4	+2·1	87	25,27	48·9	—1·8	38	3	57·5	74·9	48·9	56·2	8·4	—1·1	7·9	52	0
Mahabaleshwar	4,534	864·0	—0·6	862·4	81·3	+4·0	87	21,23,26	60·5	+2·3	52	1	64·6	75·5	50·4	58·3	6·7	—1·7	9·7	33	—14
Mercara	3,781	886·7	—0·9	883·8	80·5	—0·1	85	26	59·2	+0·2	56	20	65·4	78·7	57·5	61·5	13·0	—2·7	11·7	62	—12
Kodaikanal	7,688	771·8	—0·4	770·5	64·9	+0·8	71	25	47·1	—0·3	42	8	53·5	57·4	43·7	49·2	6·2	—1·6	9·0	48	—4
Ootacamund	7,364	780·6	—0·8	779·1	69·6	+2·1	75	24,25,26	42·1	—1·8	37	5	51·8	63·1	44·3	51·5	7.2	—0·9	8·9	52	—14
Coonoor	5,730	827·9	...	...	67·7	—2·1	75	26	44·6	—4·5	41	4,5,6	63·4	...	51·4	...	8·1	—2·8	...	46	—16
Tibet																					
Lhasa	12,090	651·3	...	...	56·7	...	69	16	24·2	...	11	21	34·9	...	33·8	...	6·3	...	...	91	...
Gyantse	13,110	621·6	...	...	52·0	+10·0	63	16	15·0	+4·0	6	8,21	33·2	...	27·4	...	3·9	+0·9	...	52	—6
Ceylon																					
Colombo	24	1010·8	—1·1	1007·4	85·2	—2·8	88	7,28	70·9	—1·3	67	4	75·3	81·3	72·2	74·3	25·7	+0·1	25·8	85	0
Trincomalee	24	1011·3	—1·0	1008·5	80·5	—4·5	84	26,27	74·1	—0·9	70	28	77·4	78·9	72·9	72·9	25·6	—0·8	24·9	80	—1
Batticoloa	20	1011·7	...	1008·8	81·6	...	83	6 days	72·2	...	70	7 days	75·7	79·2	73·0	73·2	26·5	...	25·2	87	...
Hambantota	61	1009·3	—0·9	1006·0	84·3	—1·6	87	6,8,23	72·3	0	68	4	75·6	80·8	72·1	75·8	25·3	+0·6	28·2	84	0
Mannar	12	1012·1	...	1008·5	83·1	...	86	16	72·2	...	69	21	76·0	80·7	72·3	73·2	25·4	...	24·5	83	...

(d) Mean of 27 days (e) Mean of 26 days

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0.10" or more)		Wind velocity, miles per hour		Wind direction—Number of Winds from:— 0830 hrs. I.S.T.									1730 hrs. I. S. T.									STATION
	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
25		26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Malabar & South Kanara
5	+1·7	3·2	0	−0·07	0	...	0	−0·1	5·2	+0·1	1	4	22	1	0	0	0	0	0	1	0	0	0	0	6	12	9	0	Mangalore
9	+0·8	3·7	0·37	+0·18	0·37	11	1	+0·7	7·5	+1·4	0	13	14	1	0	0	0	0	0	0	0	0	0	0	1	14	13	0	Kozhikode
·0	...	3·4	0	...	0	...	0	...	5·4	...	0	1	22	3	0	0	2	0	0	0	1	20	3	0	1	2	1	0	Palghat
																													Mysore
·6	+1·0	2·8	0	−0·11	0	..	0	−0·2	4·6	+0·8	0	1	10	10	1	0	2	0	4	0	1	17	6	0	0	2	0	2	Chitaldrug
·1	...	3·1	0	...	0	...	0	...	3·0	...	0	0	1	8	4	1	0	1	13	2	9	8	1	2	2	2	2	0	Shimoga
·9	−0·7	3·4	0	−0·24	0	...	0	−0·4	3·8	+0·9	1	2	7	4	1	1	2	1	9	0	3	16	6	0	1	2	0	0	Hassan
·6	+0·8	3·0	0	−0·26	0	...	0	−0·4	6·3	+1·6	0	4	14	7	1	1	0	[illegible]	1	0	11	8	4	0	0	0	0	5	Bangalore
·5	+1·3	3·0	0	−0·24	0	...	0	−0·5	5·9	+1·2	3	5	5	0	1	0	2	1	11	3	13	10	1	0	0	0	0	1	Mysore
																													Travancore-Cochin
·0	+3·2	5·4	0·06	−0·74	0·06	3	0	−1·2	5·9	+1·1	2	12	13	1	0	0	0	0	0	0	0	0	0	0	5	19	4	0	Fort Cochin
·6	...	4·0	0	...	0	...	0	...	6·5	...	0	6	12	10	0	0	0	0	0	0	0	0	0	0	4	16	8	0	Alleppey
·6	+0·5	4·3	0·02	−0·74	0·02	7	0	−1·3	3·8	+0·4	3	16	5	3	0	0	0	1	0	0	0	1	0	5	15	5	2	0	Trivandrum
·8	...	5·7	0·12	...	0·12	12	1	...	5·5	...	3	21	1	0	0	0	0	0	3	0	6	6	3	1	6	6	0	0	Nagercoil
																													Hill stations excluding Kashmir
·1	...	0·1	0	...	0	...	0	...	5·6	...	2	3	15	0	2	2	3	1	0	1	1	3	1	1	2	16	3	0	Aijal
·3	−1·8	2·4	0	−1·06	[illegible]	...	0	−2·8	3·1	+0·8	0	0	1	3	3	11	2	0	8	0	0	0	0	1	5	2	0	20	Shillong
·3	−1·2	0·5	0	−2·11	0	...	0	−3·5	6·6	+1·6	0	2	10	2	4	7	0	1	2	0	1	0	0	2	19	3	0	3	Cherrapunji
·4	+0·6	3·9	0·32	−0·87	0·16	7	2	−0·6	4·9	+0·8	0	0	18	4	0	1	5	0	0	0	0	0	1	0	6	20	0	1	Darjiling
·3	−1·5	2·3	0·04	−1·09	0·04	7	0	−3·0	6·0	−0·9	1	0	0	4	0	0	1	11	11	0	0	0	25	0	0	0	3	0	Kalimpong
·4	−0·9	1·8	0·84	−0·83	0·35	1	3	−2·5	0·9	−0·4	0	0	1	2	0	0	0	0	25	4	0	1	2	1	1	0	3	16	Katmandu
·4	−0·9	2·6	2·02	−0·51	0·60	1	6	+1·3	11·0	−5·2	0	4	4	2	1	0	11	5	1	0	2	3	1	0	4	15	3	0	Mukteswar (Kumaon)
·5	−1·3	3·5	0·41	−3·00	0·16	1	2	−3·2	6·2	+1·7	10	9	0	2	3	1	0	0	3	0	1	0	7	13	3	0	0	4	Mussooree
·6	−1·0	2·7	0·99	−1·93	0·43	1	3	−2·7	3·5	−0·2	3	2	0	2	4	2	0	1	14	2	2	1	3	7	4	2	1	6	Simla
·2	...	3·1	4·66	...	1·20	1	6	...	4·7	...	3	2	2	1	2	0	0	5	13	1	0	3	0	5	10	6	0	3	Dharamsala
·4	−1·3	0·8	0·01	−0·22	0.01	5	0	−0·6	3·0	−1·4	4	3	1	0	0	2	1	2	15	4	3	1	0	0	1	2	2	15	Abu
·4	−1·3	0·5	0·84	+0·17	0·70	5	2	+0·5	2·7	−0·4	2	3	2	0	2	1	1	4	13	6	7	0	1	0	0	5	8	1	Pachmarhi
·5	−0·1	0·6	0	−0·10	0	...	0	−0·1	5·1	−0·7	0	8	9	2	0	3	0	4	2	3	1	2	1	0	1	6	14	0	Mahabaleshwar
·4	+0·5	3·2	0	−0·24	0	...	0	−0·5	5·2	+1·9	0	[illegible]	9	0	0	0	1	2	8	0	11	11	0	0	0	2	2	2	Mercara
·0	+1·2	5·1	0·15	−1·38	0·08	12	0	−2·4	8·7	+0·9	9	8	4	1	1	0	0	5	0	4	2	1	10	4	0	2	4	1	Kodaikanal
·3	−0·5	2·8	0	−0·51	0	...	0	−1·1	1·1	0	2	10	0	0	0	0	0	0	16	0	3	1	1	0	0	0	0	23	Ootacamund
·1	+0·1	...	0·02	−2·84	0·02	9	0	−2·7	3·2	−0·1	5	3	1	13	6	0	0	0	0	...	...	...	...	...	...	...	...	...	Coonoor
																													Tibet
0·9	...	...	0	...	0	...	0	...	0·9	...	0	0	0	0	0	0	0	0	28	...	...	...	...	...	...	...	...	...	Lhasa
0·3	−1·7	...	0	−0·08	0	...	0	−0·2	6·6	+1·7	0	0	6	5	2	2	0	0	13	...	...	...	...	...	...	...	...	...	Gyantse
																													Ceylon
5·2	+1·6	6·2	1·00	−1·18	0·44	11	4	+0·5	...	...	1	13	11	1	1	0	0	0	1	12	2	0	[illegible]	0	0	3	11	0	Colombo
6·4	+3·0	5·9	3·72	+1·38	2·44	9	3	+0·1	...	...	5	7	2	0	0	0	0	2	12	12	15	0	0	0	0	0	0	1	Trincomalee
6·1	...	6·5	8·18	...	3·35	9	8	...	...	...	1	0	1	0	0	0	9	7	10	8	17	1	0	0	0	0	1	1	Batticoloa
5·7	+2·9	6·3	5·61	+4·02	3·39	25	5	+2·2	...	...	18	8	1	0	0	0	1	0	0	0	8	18	1	1	0	0	0	0	Hambantota
4·8	...	5·0	4·49	...	3·29	9	2	...	...	...	3	16	5	1	1	0	0	0	2	13	13	2	0	0	0	0	0	0	Mannar

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 4TH CLASS STATIONS—FEBRUARY 1951

STATION	Maximum temperature °F.				Minimum temperature °F.				Dry bulb °F.	Wet bulb °F.	Vapour pressure, Millibars		Relative humidity %		Cloud amount	Rainfall, inches				Number of rainy days (0.10" or more)		Wind
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean Dry temperature 0830 hrs. I. S. T.	Mean Wet temperature 0830 hrs. I. S. T.	Mean 0830 hrs. I. S. T.	Departure from normal	I.S.T. 0830 hrs.	Departure from normal	Mean 0830 hrs. I. S. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Resultant Direction 0830 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Assam																						
Lumding	83·5	+6·4	90	27,28	48·5	—1·8	42	14	65·5	58.5	13·6	—1·4	63	—24	...	0	—1·30	0	...	0	—3·0	S66W
Jammu and Kashmir.																						
Jammu	71·3	+2·7	83	25,28	50·1	—1·1	42	6	53·0	47·5	10·5	+0·9	64	—2	3·1	1·26	—1·17	0·53	1	3	—0·7	N16E
Kargil (R)																						
Mysore																						
Balehonnur	85·4	+1·1	91	26	59·8	—0·3	55	3	65·9	60.4	15·7	—1·3	73	—7	...	0	—0·06	0	...	0	—0·2	...
Nandi Hills	75·5	...	79	25,26	58 8	...	51	2 8	65 8	56·1	11·5	...	54	...	...	0	...	0	...	0	...	N76E
Sikkim																						
Lachen	...	...	...	...	25·6	...	20	3	42·3	...	...	...	...	...	...	1·11	...	0·35	11	5	...	...
Tibet																						
Yatung (Chumbi)	51·5	+6·3	59	22,25	25·2	+3·5	19	2	40·9	39 2	7 8	+4·0	88	+6	0·6	0·22	—1·93	0·13	6	1	—2·9	...

(R) Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 5TH CLASS STATIONS—FEBRUARY 1951

Division	Station	Rainfall, inches				Number of rainy days (0.10" or more)		Division	Station	Rainfall, inches				Number of rainy days (0.10" or more)	
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal			Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
Assam	Mawsynram	0	...	0	...	0	...	Jammu & Kashmir	Sonamarg	7·24	—2·09	3 04	10	9	—0·9
West Bengal	Bankura	0	—1·14	0	...	0	—2·1		Gurez	3·10	—4·47	0·95	18	10	+0·3
Bihar	Muzaffarpur	0·15	—0·42	0·15	21	1	—0·7	Deccan (Desh)	Khandala	0	—0·12	0	...	0	—0·3
	Chapra	0·59	—0·09	0·59	6	1	—0·6	Sikkim	Thangu	0·89	...	0 25	17	4	...
	Arrah	0·25	—0·58	0·16	13	1	—0·6		Lachung (R)						
Punjab (I)	Dalhousie	4·82	—1·83	2·50	2	7	—1·5		Chungthang	0·46	...	0 24	20	1	...
	Kyelang	3·03	+0·49	1·15	7	6	+0·2								
	Gondla	4·45	...	1·10	9	6	...								
	Koksar	8·02	...	1·50	1,2	9	...								
	Kothi	3·37	...	0·92	1	9	...								
	Dharampore	0·83	—2·46	0·50	1	2	—3·5								
	Kharsali	0·37	...	0·18	1	2	...								
	Rana	2·90	...	1·25	2	4	...								
	Jamuna Chetty	2·16	...	1·00	2	3	...								

(R) Register not received.

RADIO SONDE DATA

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

(From Ascents at 15 hrs. G. M. T.)

FEBRUARY 1951

dard sure face bs.	ALLAHABAD (Sur. Pr. 1001 mb.)						CALCUTTA (1011 mb.)						JODHPUR (988 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
rface	28	98	291·5	296	285	280·8	28	7	294·4	298	291	286·2	28	218	294·3	301	285	273·2
000	28	104	...	...	...	...	28	99	...	...	...	...	28	114	...	...	...	...
900	26	1009	290·8	297	283	267·0	28	1017	292·8	298	287	272·5	28	1025	287·4	299	282	269·9
850	26	1490	287·4	295	278	267·0	28	1503	288·6	295	283	270·1	27	1509	286·7	294	278	268·8
800	26	2003	285·0	292	278	262·3	28	2015	284·9	291	276	265·4	27	2017	283·1	290	274	268·1
700	26	3102	275·5	286	271	258·6	27	3126	280·1	284	274	257·0	26	3114	275·8	283	269	264·7
600	25	4347	265·9	277	264	261·3	26	4375	272·8	278	260	261·2	27	4346	268·3	274	267	263·0
500	25	5761	259·9	266	254	...	25	5803	262·9	268	253	...	27	5755	258·8	263	253	...
400	25	7423	243·5	255	240	...	22	7476	250·2	257	243	...	26	7408	247·4	254	240	...
300	23	9451	234·0	243	223	...	15	9523	235·5	243	227	...	24	9425	232·4	238	223	...
250	23	10680	226·9	233	219	...	11	10769	228·7	239	218	...	21	10644	225·1	231	217	...
200	17	12157	217·3	224	209	...	5	12280	219·6	229	217	...	16	12095	218·3	225	211	...
175	11	13060	213·9	222	202	...	5	13122	212·8	224	207	...	12	12964	212·6	221	205	...
150	...	...	...	...	...	...												
125	...	...	...	...	...	...												
100	...	...	...	...	...	...												
80	...	...	...	...	...	...												

	MADRAS (1010 mb.)						NAGPUR (976 mb.)						NEW DELHI (988 mb.)					
urface	28	15	297·9	299	297	292·4	26	307	298·8	303	294	277·7	28	213	291·9	296	285	244·0
1000	28	102	...	...	...	...	26	090	...	...	...	...	28	109	...	...	...	...
900	28	1020	294·1	299	289	277·5	26	1016	297·6	303	292	277·7	28	1018	291·0	297	283	272·0
850	28	1511	292·3	297	288	273·0	26	1511	294·2	299	287	275·0	28	1503	286·6	292	279	267·7
800	28	2031	289·3	295	286	270·9	26	2033	289·4	294	281	274·0	28	2101	283·0	289	275	268·0
700	28	3156	284·4	289	282	263·6	25	3153	282·2	293	276	268·2	28	3106	275·5	283	268	262·5
600	28	4429	277·6	283	275	260·0	22	4415	276·3	279	273	258·4	28	4[illegible]4	266·0	274	257	...
500	28	5889	268·9	275	265	...	26	5863	266·9	272	262	...	28	5731	258·0	267	249	...
400	27	7613	268·6	266	255	...	25	7567	254·9	261	248	...	28	7383	246·0	258	239	...
300	28	9734	244·8	253	238	...	25	9643	240·9	247	234	...	27	9391	232·2	245	223	...
250	28	11009	235·6	243	228	...	20	10906	231·3	239	225	...	24	10571	225·0	240	220	...
200	25	12523	224·9	233	219	...	18	12393	221·7	234	215	...	24	12059	217·2	231	209	...
175	21	13397	218·6	226	213	...	10	13234	215·6	226	209	...	18	12939	214·0	226	206	...
150	17	14377	211·8	223	205	...	6	14247	210·8	220	205	...	11	13827	209·0	216	203	...
125	6	15548	204·3	207	201	...	...	...	...	...	...	...	6	15030	204·0	210	195	...
100	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
80	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

RADIO SONDE DATA

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

(From Ascents at 15 hrs. G. M. T.)

FEBRUARY 1951

Standard Pressure Surface mbs.	POONA (Sur. Pr. 949 mb.)						PORT BLAIR (1009 mb.)						TRIVANDRUM (1003 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A			Dew Point	No. of obsns.	Height (gpm.)	Temperature °A			Dew Point	No. of obsns.	Height (gpm.)	Temperature °A			D Poi
			Mean	Max.	Min.				Mean	Max.	Min.				Mean	Max.	Min.	
Surface	28	557	298·0	302	294	280·0	26	21	298·1	301	296	293·5	28	64	299·7	301	298	294
1000	28	92	...	...	...	...	26	98	...	...	...	...	28	89	...	...	...	...
900	28	1018	299·0	304	292	274·8	26	1015	292·8	296	290	284·3	28	1012	293·3	296	292	289
850	28	1515	295·2	301	291	272·3	26	1506	291·5	295	289	275·3	28	1504	291·1	291	281	286
800	28	2039	291·2	296	287	272·3	26	2025	289·0	293	286	268·8	28	2024	288·9	292	286	281
700	28	3164	283·1	288	280	262·2	26	3149	284·1	288	279	260·2	28	3150	284·4	288	281	267
600	27	4431	276·9	280	272	253·0	26	4418	277·5	287	273	254·1	28	4423	277·0	280	274	264
500	26	5885	267·3	274	263	...	26	5876	268·7	274	264	...	28	5880	268·4	272	265	...
400	23	7601	255·8	265	253	...	26	7598	257·5	265	250	...	28	7602	258·5	263	255	...
300	18	9703	244·1	250	241	...	22	9707	242·7	253	232	...	28	9720	244·3	251	239	...
250	10	10985	233·7	237	231	...	18	10967	233·5	239	225	...	28	11000	235·0	241	229	...
200	11	12480	223·2	230	214	...	7	12553	225·7	228	223		25	12515	225·0	232	218	...
175	8	14315	210·0	214	205	...	6	13416	219·7	221	218		20	13373	218·5	224	212	...
150							7	14388	212·6	215	209		17	14359	212·2	219	204	
125							6	15546	205·2	208	202		7	15548	209·6	214	207	
100																		
80																		

Standard Pressure Surface mbs.	VERAVAL (1011 mb.)						VISAKHAPATNAM (1006 mb.)					
Surface	23	8	295·5	299	292	289·7	24	48	297·9	301	296	293·6
1000	28	103	...	...	...	...	24	97	...	...	...	...
900	28	1022	294·5	301	286	275·9	24	1017	294·1	300	288	283·2
850	28	1513	291·3	297	283	272·8	24	1508	291·1	297	285	282·0
800	23	2031	288·3	293	282	270·7	24	2027	288·2	293	283	276·8
700	23	3148	281·6	286	275	266·0	24	3148	282·3	287	279	266·3
600	27	4413	275·5	280	269	260·3	22	4410	276·5	282	273	258·1
500	26	5855	266·1	271	262	...	22	5865	267·5	273	262	261·3
400	21	7562	254·9	259	250	...	22	7580	256·6	265	250	...
300	16	9646	241·2	247	235	...	19	9680	241·7	249	236	...
250	14	10906	233·9	241	229	...	13	10946	233·8	241	226	...
200	10	12416	221·1	226	213	...	10	12461	222·6	232	216	...
175	8	13247	214·6	220	206	...	6	13341	217·7	225	211	...
150	6	14263	209·6	212	206	...	5	14307	211·4	219	205	...
125												
100												
80												

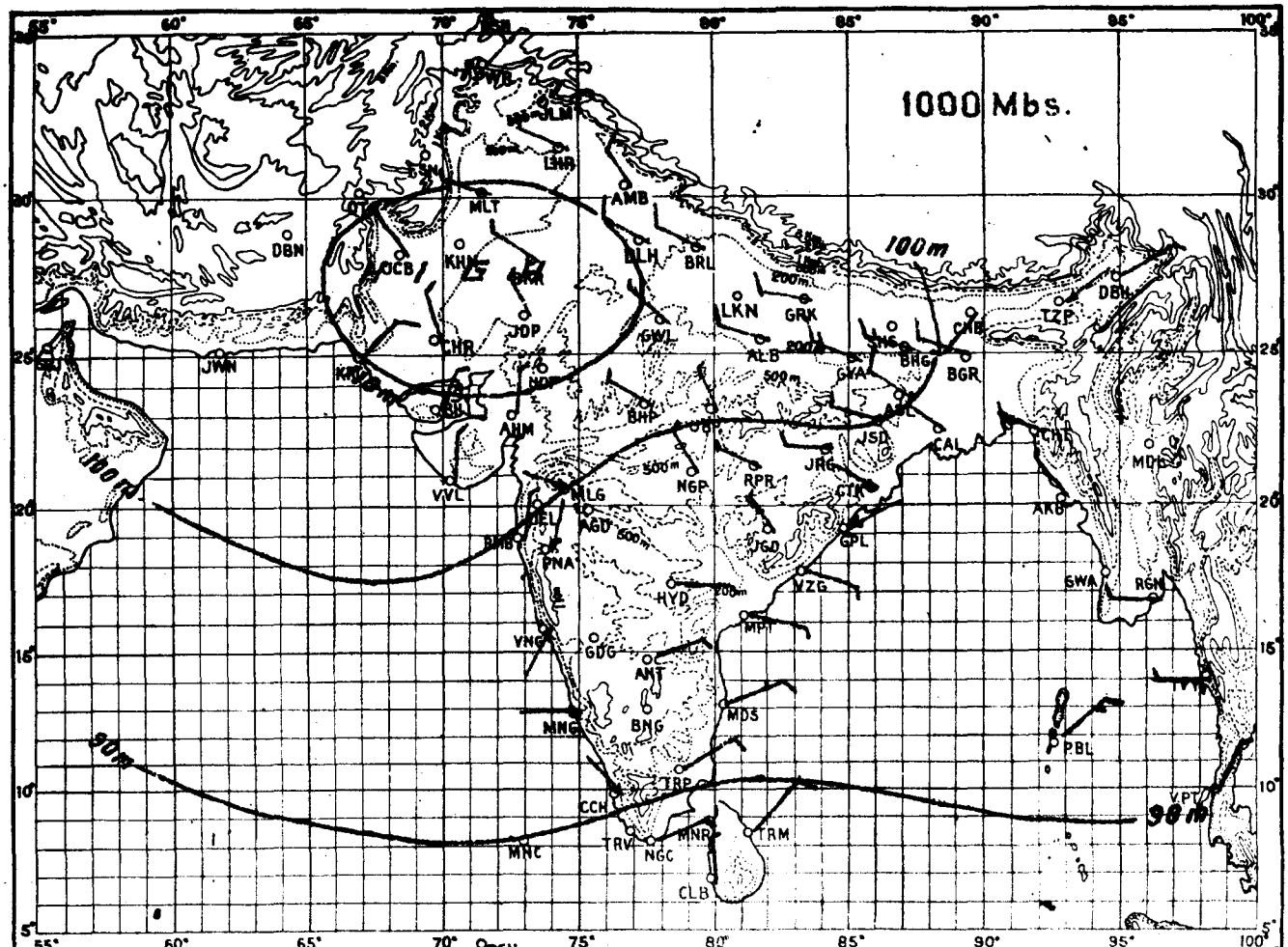
NOTE.—Number of observations refer to those of dynamic height.

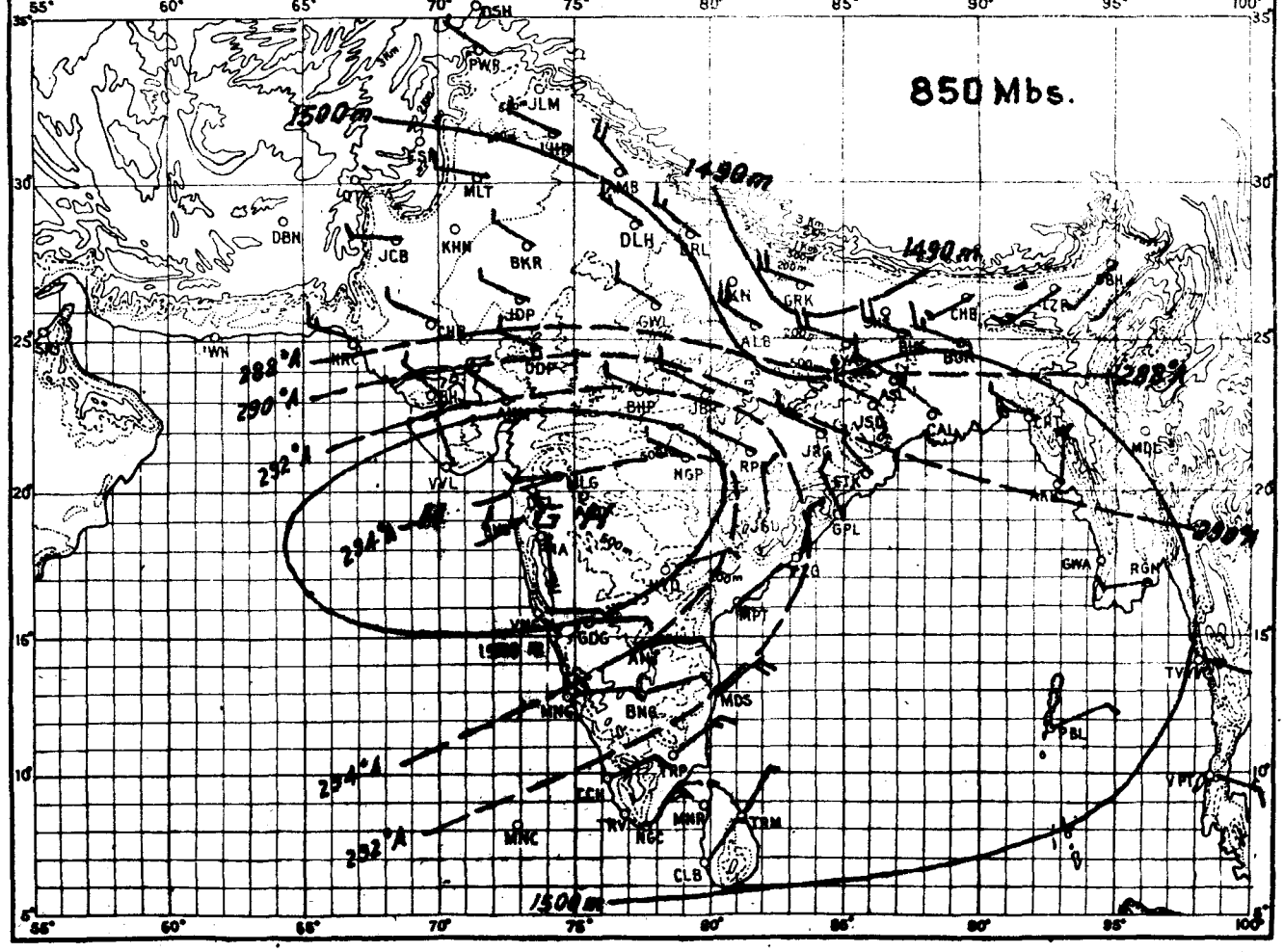
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

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

MONTHLY MEAN CONSTANT PRESSURE CHARTS

FEBRUARY 1951



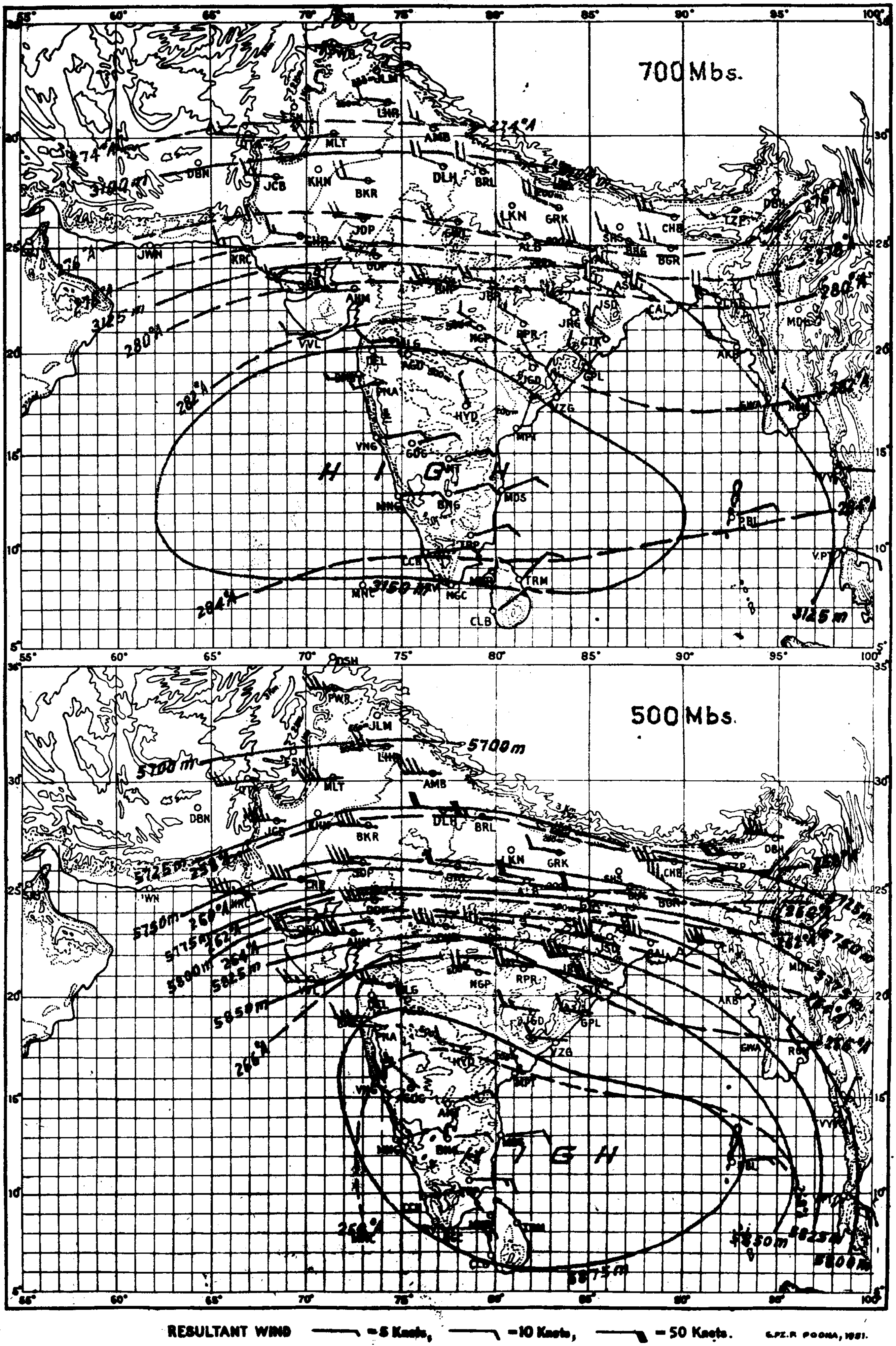


RESULTANT WIND ——\ = 5 Knots, ——\ = 10 Knots, ——\ = 50 Knots. G.P.Z.P. POONA, 1951.

— — — — Isotherms in degrees Absolute ——— Contours in geopotential Metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

FEBRUARY 1951



RESULTANT WIND ——— = 5 Knots, ——— = 10 Knots, ——— = 50 Knots. G.P.Z.R. POONA, 1951.

– – – – Isotherms in degrees Absolute ——— Contours in geopotential Metres

Registered No. B-3097.

INDIA WEATHER REVIEW, 1951

Monthly Weather Report

March

Published by authority of the Government of India

Chief Features.—(1) Mainly dry weather during the first three weeks and, (2) good thunderstorm rain in northern India and the central parts of the country in the last week.

In all, six western disturbances passed across the north of the country during the month. Out of these, only one which moved from Baluchistan to the hills of the Punjab (I) between the 21st and 27th was appreciably active, the others causing little or no precipitation. A detailed account of these is given in the following table :

MARCH 1951

Precipitation

No.	Period	Course	Region	Nature of Precipitation	Period	Remarks
1	4th-8th	Baluchistan to the hills of west Uttar Pradesh.	Kashmir *	Scattered falls of rain	6th	
2	8th-10th	Baluchistan to the hills of the Punjab (I).	Kashmir *	Local falls of rain or snow	9th & 10th	
			The Punjab (I) (hills)	Local falls of rain	9th & 10th	
			The west Uttar Pradesh (hills)	Local falls of rain	9th & 10th	
2a	10th-12th	West Rajasthan and neighbourhood to Nepal Hills.	West Uttar Pradesh (hills)	A few thundershowers	11th	Secondary.
			West Uttar Pradesh (hills)	Local thundershowers	12th	
2b	11th-12th	West Madhya Pradesh	North Madhya Bharat	Scattered thundershowers	11th & 12th	This 'low' became unimportant the next day.
			Southwest Uttar Pradesh	Scattered thundershowers	11th	
			Southwest Uttar Pradesh	Locally light thundershowers	12th	
			Vindhya Pradesh	Locally light thundershowers	12th	
3	15th-17th	Baluchistan to the western Himalayas.	...	...	...	Did not cause any precipitation.
4	17th-19th	Baluchistan to the hills of west Uttar Pradesh.	West Uttar Pradesh (hills)	Scattered rain	18th	
			West Uttar Pradesh (hills)	Widespread rain	19th	
			The Punjab (I)	Widespread thundershowers	19th	
5	21st-27th	Baluchistan to the hills of the Punjab (I).	The Punjab (I)	Widespread showers	24th to 26th	
			Uttar Pradesh (hills)	Widespread showers	24th	
			North Rajasthan	Local thundershowers	24th	
			North Gujarat	Scattered thundershowers	24th	
			Vindhya Pradesh (in & around).	Scattered thundershowers	24th	
			West Uttar Pradesh	Widespread thundershowers	25th & 26th	
			Rajasthan	Local thundershowers	25th & 26th	
			West Uttar Pradesh (hills)	Local thundershowers	27th	
			The Punjab (I) (hills)	Local thundershowers	27th	
6	29th	North Baluchistan to North Madhya Bharat.	The Punjab (I) (hills)	Scattered showers	30th	
			West Uttar Pradesh (hills)	Scattered showers	30th	
			West Uttar Pradesh (hills)	Local thundershowers	31st	
			East Rajasthan	Local thunderstorms/showers	31st	

**Data from Jammu and Kashmir were very meagre.*

JUN 15 1955

In spite of the four western disturbances and the two secondaries induced by them the rainfall for the first three weeks was in large defect throughout the country except in Travancore-Cochin and Gujarat. The last week's thunder-rain, however, made up the deficiency over northern India and the central parts of the country. The western disturbance which was mainly responsible for the rainfall over northern India appeared over Sind and west Rajasthan on the 22nd. It moved to the southern districts of the Punjab (P) and the adjoining areas by the 24th where it persisted for the next two days and was very active during that period. Weakening thereafter, it passed away across the hills of the Punjab (I) and of west Uttar Pradesh on the 27th. There was also a marked and persistent incursion of moist air from the Bay of Bengal into the central parts of the country and northeast India around the periphery of the seasonal high over the Bay of Bengal during the last week. In association with these developments, widespread or local thundershowers occurred over most of the northern India, in the central parts of the country and Hyderabad between the 25th and 27th and on the last two days of the month. Locally heavy falls of rain were reported from the hills of the Punjab (I) and of west Uttar Pradesh on the 26th.

The third and the fourth weeks of the month were also marked by abnormally low day temperatures in northern India and the central parts of the country. The maximum temperatures were as much as 20°-30°F. below normal in the Punjab (I), Uttar Pradesh, and Vindhya Pradesh on the 25th and 15°-25°F. below normal in east Madhya Pradesh and Orissa on the 30th.

Total rainfall for the month was in large excess in West Bengal, Orissa, Chota Nagpur, Uttar Pradesh, the Punjab (I), Vindhya Pradesh, Madhya Pradesh, Saurashtra and Kutch, the Konkan, Hyderabad and Rayalaseema, in slight to moderate excess in Rajasthan, coastal Andhradesa and Travancore-Cochin and normal in Gujarat and Tamilnad. It was in moderate to large defect in Assam, Bihar, Madhya Bharat, Deccan (Desh) and Mysore. No rain fell in the Bay Islands and Malabar and south Kanara. Averaged over the plains of India the rainfall was 90% in excess.

Maximum temperature was above normal in Assam and the Konkan and normal elsewhere. Minimum temperature was normal throughout the country except in Madhya Bharat and Gujarat where it was above normal.

Relative humidity was in excess in the Punjab (I), Vindhya Pradesh and west Madhya Pradesh and below normal in Assam. Elsewhere it was normal.

Total cloud amount was normal in the Bay Islands, Assam, Tamilnad, Malabar and south Kanara and Mysore and was above normal elsewhere.

Data from Jammu and Kashmir are incomplete.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amounts for the 13 chief political divisions and the 27 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 0330 hours I.S.T. 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 hours I.S.T. of the date given in the succeeding column.

Poona 5 ;
Dated the 10th July 1950.

C. RAMASWAMY,
for Director-General of Observatories.

	Rainfall				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
sion—									
Assam (including Manipur and Tripura).	1·48	3·23	−1·75	−54	+2·2	+1·8	−0·6	−6	+0·4
West Bengal	1·97	1·22	+0·75	+61	+1·2	+0·6	−1·5	−4	+1·0
Orissa . .	3·02	0·98	+2·04	+208	−0·4	−0·5	0	+4	+1·4
Bihar . .	1·16	0·57	+0·59	+104	+0·6	+1·1	−0·7	−3	+1·6
Uttar Pradesh .	1·33	0·48	+0·85	+177	−0·4	+1·1	+0·7	+2	+1·6
Punjab (I) (including PEPSU and Delhi).	3·10	0·70	+2·40	+343	+0·1	−0·8	+1·1	+6	+1·2
Rajasthan .	0·29	0·23	+0·06	+26	−0·4	+0·2	+0·1	+2	+1·3
Sub-Division—									
Bay Islands .	0	1·12	−1·12	−100	+1·1	+1·9	+0·5	−4	−0·3
Assam (including Manipur & Tripura).	1·48	3·23	−1·75	−54	+2·2	+1·8	−0·6	−6	+0·4
West Bengal .	1·97	1·22	+0·75	+61	+1·2	+0·6	−1·5	−4	+1·0
Orissa .	3·02	0·98	+2·04	+208	−0·4	−0·5	0	+4	+1·4
Chota Nagpur .	3·15	0·86	+2·29	+266	+0·2	+0·4	−0·3	0	+1·9
Bihar . .	0·28	0·43	−0·15	−35	+1·0	+1·7	−0·9	−5	+1·5
Uttar Pradesh, East.	0·80	0·35	+0·45	+129	−0·8	+1·5	+0·5	+1	+1·8
Uttar Pradesh, West.	1·86	0·60	+1·26	+210	−0·1	+0·7	+1·0	+3	+1·4
Punjab (I) (including PEPSU & Delhi).	3·10	0·70	+2·40	+343	+0·1	−0·8	+1·1	+6	+1·2
ammu & Kashmir.	Data incomplete								
Rajasthan, West.	0·33	0·25	+0·08	+32	0	+0·1	+0·5	+2	+0·7
Rajasthan, East (including Ajmer).	0·23	0·20	+0·03	+15	−0·7	+0·3	−0·3	+1	+2·0
Madhya Bharat .	0·17	0·26	−0·09	−35	−0·6	+2·3	0	+3	+3·3
Vindhya Pradesh	1·55	0·48	+1·07	+223	−1·6	+0·2	+2·5	+16	+2·7

	Rainfall				Departure from normal of				
							0830 hrs. I. S. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—*contd.*									
8. Madhya Bharat & Vindhya Pradesh	0·77	0·36	+0·41	+114	−1·1	+1·4	+1·0	+9	+3·0
9. Madhya Pradesh	1·78	0·57	+1·21	+212	−0·1	+1·4	+2·2	+10	+2·4
10. Bombay (including Saurashtra and Kutch).	0·10	0·11	−0·01	−9	+0·6	+1·5	+0·1	0	+1·3
11. Hyderabad .	0·03	0·34	+0·49	+144	+0·1	+0·2	−1·8	−4	+0·9
12. Madras (including Travancore-Cochin).	0·86	0·55	+0·31	+56	−0·2	+0·3	−0·7	−1	+0·6
13. Mysore .	0·34	0·54	−0·20	−37	−0·3	+0·5	−0·5	+2	+0·1
Mean of India .	1·12	0·59	+0·53	+90	0	+0·8	+0·1	+2	+1·4
Sub-Division—*contd.*									
15. Madhya Pradesh, East.	3·58	0·79	+2·79	+353	−0·3	+0·9	−0·1	+5	+2·0
16. Madhya Pradesh West	0·65	0·43	+0·22	+51	+0·1	+1·7	+3·5	+13	+2·7
17. Gujarat . .	0·03	0·03	0	0	+0·1	+2·8	−0·1	0	+2·1
18. Saurashtra and Kutch.	0·27	0·09	+0·18	+200	+0·3	+1·1	−0·9	−3	+1·3
19. Konkan . .	0·05	0·03	+0·02	+67	+2·0	+1·6	+1·6	+3	+1·1
20. Deccan (Desh) .	0·05	0·19	−0·14	−74	+0·5	+0·9	+0·2	+1	+1·0
21. Hyderabad, North.	0·55	0·22	+0·33	+103	0	+1·1	−2·0	−3	+1·0
22. Hyderabad, South.	1·02	0·36	+0·66	+183	+0·1	+0·4	+1·6	−4	+0·8
23. Coastal Andhradesa.	0·41	0·35	+0·06	+17	−0·2	−0·7	−1·1	+1	+0·6
24. Rayalaseema .	1·70	0·19	+1·51	+795	−1·4	−0·9	−1·2	−3	+1·0
25. Tamilnad .	0·63	0·59	+0·04	+7	+0·1	+1·2	−0·5	−3	+0·3
26. Malabar & South Kanara.	0	0·45	−0·45	−100	+0·2	+0·5	−0·3	−1	+0·3
27. Mysore . .	0·34	0·54	−0·20	−37	−0·3	+0·5	−0·5	+2	+0·1
28. Travancore-Cochin.	2·53	1·77	+0·76	+43	+1·0	+0·1	+0·3	0	+1·4

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure Millibars			Relative humidity %		
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bay Island:																						
Port Blair	259	1003·8	+0·6	1000·9	88·6	+1·1	91	26,27,28	73·4	+1·9	68	11,12	84·7	81·0	76·5	75·1	27·8	+0·5	26·9	68	—4	75
Assam																						
Dibrugarh	348	1000·6	—0·8	996·5	78·9	0	87	14	63·0	+2·2	56	22	69·2	71·0	64·4	65·5	18·2	—0·1	19·0	77	+1	74
Mohanbari (R)	364																					
Sibsagar	317	1001·7	—0·5	997·6	81·8	+2·6	89	13,14	61·4	+1·4	57	1,17,22	70·0	73·1	65·2	69·0	18·9	—0·2	22·5	77	—4	80
Tezpur	253	1003·5	—0·8	998·7	36·1	+2·6	92	14,15	64·8	+2·5	60	18	73·4	79·5	64·9	66·4	17·2	—0·7	16·3	62	—9	49
Gauhati D. Type	162	1005·9	...	1001·2	38·1	...	96	14	60·1	...	51	15	73·5	80·0	64·6	66·5	16·9	...	16·1	61	...	47
Gauhati	182	1005·7	—0·5	1000·0	38·0	+2·1	95	14	62·0	+1·8	56	15	71·8	81·5	64·5	67·1	17·2	—0·4	16·0	66	—4	44
Dhubri	115	1008·1	—0·2	1003·3	89·1	+3·1	95	14	66·6	+3·4	61	5	74·1	82·0	65·2	66·5	17·1	—0·5	15·2	61	—5	42
Silchar	96	1010·0	0	1005·2	87·7	+1·2	95	15	63·3	+0·3	56	1	72·4	81·6	66·9	69·4	20·0	+0·1	19·3	74	+2	53
Tura	1,215	970·2	...	966·8	85·8	...	92	14,16	67·6	...	62	1,2,3	73·2	79·9	64·6	65·4	17·0	...	14·8	61	...	44
West Bengal																						
Dum Dum	33	1010·8	...	1006·7	92·9	...	100	12	68·8	...	60	1	78·8	86·8	69·7	70·1	20·7	...	17·8	63	...	43
Calcutta	21	1011·3	+0·1	1007·2	94·1	+1·6	101	9,12	69·7	+0·9	62	1	78·4	86·6	70·7	70·7	22·2	—0·8	18·4	68	—8	45
Saugor Island	10	1011·5	—0·1	1008·0	87·4	+0·8	97	11	73·8	—0·4	66	30	79·8	81·2	73·8	74·5	25·8	—0·5	26·4	75	+2	74
Sandheads	32	1010·9	—0·3	1007·9	...	...	...	...	...	...	...	...	80·3	81·2	75·4	76·3	27·7	—0·1	28·6	79	+5	79
Midnapore	149	1006·7	0	1002·7	95·1	0	103	10,12,19	67·7	—1·7	59	1	79·7	88·8	66·9	68·4	17·3	—2·2	14·3	51	—8	35
Contai	35	1010·0	...	1006·4	92·8	...	102	12	70·5	...	64	1,2	78·6	83·0	71·6	73·1	23·1	...	23·2	69	...	63
Burdwan (R)	105																					
Krishnagar	48	1010·4	+0·3	1006·3	93·9	+1·2	101	12	65·0	—0·7	54	1	76·5	87·2	67·3	70·1	18·9	—1·3	17·6	62	—1	40
Asansol	414	997·5	+0·3	993·2	94·3	+0·5	101	12	68·4	+2·5	61	1	78·5	89·5	64·2	67·7	13·8	—0·8	13·1	43	—3	30
Berhampore	62	1009·8	0	1005·0	94·1	+2·0	101	12	65·8	+0·5	54	2	77·2	88·9	65·4	67·7	15·8	—2·2	13·8	51	—9	31
Malda	103	1007·8	—0·1	1003·4	92·3	+2·2	99	12	63·0	+1·4	54	1	77·0	86·5	62·6	64·7	12·8	—3·4	10·8	42	—7	26
Cooch Behar	145	1005·8	...	1001·8	87·9	...	92	14,19	63·1	...	58	21	72·7	81·9	64·9	67·6	16·7	...	16·3	60	...	46
Jalpaiguri	271	1002·1	—0·4	997·3	86·5	+1·3	91	14	62·4	+2·1	56	21	68·0	83·0	61·9	66·5	16·3	—0·8	14·8	70	[illegible]	39
Bagdogra	418	996·8	...	991·8	88·4	...	94	14	59·0	...	52	13,21	74·3	82·2	63·0	64·8	14·3	...	13·0	51	...	35
Orissa																						
Balasore	65	1009·5	—0·3	1006·0	94·6	+1·9	102	8	69·5	+0·1	60	1	79·0	83·0	69·2	71·9	19·7	—2·7	21·8	60	—3	58
Chandbali	20	1011·0	—0·3	1007·5	94·1	+0·5	103	9,10	71·0	+0·3	67	30,31	77·6	83·8	72·7	74·5	25·1	—0·2	24·9	78	+2	65
Puri	20	1011·7	+0·2	1008·7	35·5	—0·8	91	15	74·8	—0·8	67	31	79·5	81·0	75·5	76·9	28·3	+0·5	29·9	83	+6	83
Cuttack	87	1008·8	—0·5	1004·6	95·6	—1·0	104	10	71·4	—0·4	65	3	75·5	89·7	70·2	71·2	22·6	—1·6	17·7	76	+3	40
Gopalpur	56	1010·5	+0·4	1005·6	86·7	—0·3	91	15,16	71·7	—1·1	65	3	77·9	81·4	73·4	78·1	26·1	+0·8	31·0	80	+6	86
Koraput	2,996	912·6	...	907·7	83·5	...	94	14	63·8	...	56	2	71·8	81·9	64·9	70·8	18·1	...	21·3	69	...	59
Angul	455	936·8	+0·4	992·7	94·0	—1·8	100	10,19,20	69·0	+0·9	60	2	75·2	91·2	69·1	74·5	21·7	+2·8	21·9	73	+1	46
Sambalpur	486	995·6	+0·2	991	94·4	—1·3	102	19	64·1	—2·7	54	2	76·5	89·5	66·1	69·9	17·1	+0·6	16·3	56	+1	37
Jharsuguda	726	987·3	...	982·7	...	...	...	...	...	...	...	...	76·7	87·0	65·3	68·8	16·1	...	16·1	53	...	39
Titilagarh	691	988·8	...	983·6	96·2	...	103	19	68·2	...	58	2	76·2	91·7	64·4	69·0	15·3	...	14·2	51	...	30
Chota Nagpur																						
Purulia	835	983·8	...	979·6	92·7	...	100	10,11,12	68·8	...	62	1,4,31	78·3	87·0	63·9	66·4	13·7	...	13·0	44	...	32
Jamshedpur	423	997·6	+0·4	993·1	93·7	—0·3	101	4 days	64·8	0	53	1	75·2	89·1	63·2	67·1	14·4	—1·1	12·8	50	—2	31
Chaibasa	742	986·6	+0·4	982·2	94·5	+0·3	101	9,19	66·6	+0·8	57	1	74·1	89·2	63·7	67·4	15·4	—1·6	12·9	55	—3	33
Ranchi	2,150	938·9	0	936·0	88·2	+1·3	95	8,9	63·4	0	55	31	73·7	79·2	59·9	61·6	11·8	+0·9	11·7	45	+6	37
Hazaribagh	2,006	944·0	+0·5	940·8	87·0	—0·7	94	8,17,19	64·2	+1·1	54	5	74·2	80·3	57·9	60·2	9·6	—1·0	9·8	36	0	30
Daltonganj	725	987·5	+0·3	983·4	90·6	—0·6	98	8	60·7	+0·8	51	3	73·0	84·2	62·2	65·2	14·0	+0·5	12·7	52	—2	32
Dhanbad	839	983·2	...	...	92·4	...	99	10,19	67·3	...	60	1,5	77·6	...	62·3	...	12·1	...	...	40	...	...

(R) Register not received.

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0.10" or more)		Wind velocity, miles per hour		Wind direction—Number of Winds from:—																		STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bay Islands
2·6	−0·3	2·3	0	−1·12	0	...	0	−2·1	3·7	−2·2	4	12	7	1	0	0	2	3	2	0	10	16	1	0	0	0	1	3	Port Blair
																													Assam
5·8	+1·6	6·5	4·00	−0·06	0·88	20	9	+0·5	1·8	+0·4	7	8	6	1	1	0	0	4	4	3	13	5	0	0	0	0	0	10	Dibrugarh
																													Mohanbari (R)
4·8	−0·2	6·7	2·60	−1·80	0·68	30	8	−0·5	3·6	+1·2	7	10	3	2	2	2	0	1	4	16	8	1	1	1	0	0	3	1	Sibsagar
2·7	+0·2	2·3	0·55	−1·37	0·27	31	2	−2·5	2·1	−1·2	0	6	16	2	0	0	2	1	4	0	6	9	0	0	0	5	0	11	Tezpur
1·9	...	2·9	0·63	...	0·42	26	2	...	2·7	...	2	11	3	1	0	1	2	1	10	0	1	1	0	0	4	1	2	22	Gauhati D. Type
2·0	−0·3	2·3	0·49	−1·50	0·36	26	1	−2·8	2·5	+0·6	7	7	3	2	0	3	2	1	6	1	1	2	1	0	4	2	1	19	Gauhati
2·5	+0·7	2·5	0·23	−1·43	0·16	26	1	−1·5	3·5	−1·0	1	6	6	1	1	8	1	0	7	0	1	1	1	3	3	3	0	14	Dhubri
3·2	+0·5	3·6	2·07	−4·69	0·78	22	6	−2·1	1·7	−0·2	1	2	4	5	2	2	0	0	15	0	0	2	1	0	2	4	1	21	Silchar
2·8	...	3·5	0·80	...	0·75	26	1	...	5·4	...	0	2	6	6	5	10	1	0	1	0	0	0	5	12	10	0	1	3	Tura
																													West Bengal
4·1	...	4·4	2·61	...	0·89	25	5	...	4·5	...	2	0	1	2	5	5	5	7	4	2	1	1	1	5	8	4	3	6	Dum Dum
3·5	+1·3	4·5	3·96	+2·60	1·62	25	7	+4·7	3·5	0	0	1	1	0	5	10	4	4	6	0	1	2	2	2	8	5	1	10	Calcutta
3·3	+0·3	3·9	3·60	+2·51	1·15	25	7	+5·2	10·9	+1·3	3	1	2	2	5	11	4	2	1	1	0	0	7	13	9	1	0	0	Saugor Island
4·0	+1·8	3·9	1·40	+0·58	0·32	25	5	+4·0	...	...	3	2	0	1	5	14	5	1	0	0	1	1	0	10	16	0	0	3	Sandheads
2·9	+1·1	3·8	5·37	+3·96	2·58	25	6	+3·6	3·6	+1·0	6	4	0	0	0	7	4	1	9	8	5	0	1	5	1	0	0	11	Midnapore
3·5	...	4·6	2·96	...	0·92	25	5	...	6·1	...	5	2	0	2	4	10	3	2	3	1	1	0	5	16	6	0	1	1	Contai
																													Burdwan (R)
3·2	+0·8	4·1	1·35	−0·17	0·51	23	3	+0·9	3·7	+0·8	4	1	0	1	12	4	5	2	2	0	0	0	1	5	3	13	1	8	Krishnagar
3·1	+1·3	4·9	0·26	−0·56	0·17	26	1	−0·8	5·3	+1·1	1	0	0	1	1	2	18	5	3	0	0	1	0	0	2	11	13	4	Asansol
3·3	+1·1	4·2	1·22	+0·18	1·18	26	1	−0·9	1·8	−0·4	0	0	1	1	7	5	10	0	7	1	0	0	0	5	2	10	4	8	Berhampore
3·0	+1·9	4·0	0·18	−0·59	0·11	26	1	−0·3	4·8	+1·1	2	0	2	0	2	10	8	6	1	1	1	1	2	1	3	11	9	2	Malda
2·9	...	3·5	1·32	−0·32	1·20	31	2	−0·5	3·1	...	0	4	16	2	3	1	3	0	2	4	1	0	0	0	3	3	0	20	Cooch Behar
1·7	+0·2	2·1	0·56	−0·71	0·56	31	1	−1·3	3·6	+1·8	6	7	5	1	0	1	1	1	9	3	4	3	1	0	2	6	2	10	Jalpaiguri
2·6	...	3·0	0·59	...	0·45	31	1	...	3·5	...	3	11	11	1	1	1	1	0	2	1	5	1	2	2	5	3	0	12	Bagdogra
																													Orissa
3·7 (a)	+1·8	4·8 (c)	2·49	−0·65	1·12	30	4	+1·1	5·0 (g)	+1·1	4	5	0	1	5	6	1	5	4	0	1	0	13	15	2	0	0	0	Balasore
3·4	+0·8	2·8	2·89	+1·60	1·32	30	4	+1·9	5·1	...	0	1	0	4	2	6	1	13	3	0	2	0	22	0	3	0	1	0	Chandbali
5·0	+2·7	4·9	1·38	+0·88	0·63	29	1	+4·1	11·2	+0·6	5	1	1	2	1	14	6	1	0	0	1	0	5	12	12	1	0	0	Puri
3·3	+0·8	3·3	2·81	+1·77	0·55	25	5	+3·6	2·9	+0·5	1	2	0	0	2	0	0	0	26	0	0	0	2	6	3	0	2	18	Cuttack
3·2	+2·2	3·6	2·44	+1·81	1·06	31	4	+2·9	8·7	−1·1	5	3	0	0	3	7	2	2	9	1	0	2	3	12	11	0	0	2	Gopalpur
2·8	...	4·3	2·72	...	0·82	31	5	...	8·6	...	0	0	0	2	13	15	1	0	0	8	1	2	4	4	1	7	4	0	Koraput
2·9	+0·6	3·5	3·13	+2·40	1·02	31	6	+4·3	4·7	+0·6	2	2	1	3	1	2	6	7	7	4	5	5	4	2	1	3	3	4	Angul
2·5	+1·1	3·2	6·00	+3·14	1·82	26	6	+4·3	2·9	+0·4	4	11	0	2	3	4	4	1	2	7	7	0	2	5	3	2	3	2	Sambalpur
3·7	...	4·6	3·85	...	2·31	26	6	...	...	...	10	3	1	0	2	0	0	3	12	5	0	1	1	2	2	2	3	15	Jharsuguda
3·1	...	3·8	2·34	...	0·68	25	5	...	2·3	...	1	0	1	4	6	4	1	2	12	4	4	0	2	2	0	0	1	18	Titilagarh
																													Chota Nagpur
3·3	...	5·5	1·62	...	0·81	26	5	...	3·8	...	2	2	0	0	4	5	8	9	1	1	2	1	1	0	2	8	14	2	Purulia
3·2	+1·4	4·9	3·95	+3·23	1·33	26	7	+5·0	3·8	+1·1	1	0	2	0	0	2	12	8	6	3	2	1	3	0	4	7	9	2	Jamshedpur
5·2	+3·5	5·9	3·39	+2·52	1·29	26	5	+3·3	2·3	+0·3	2	3	0	4	1	15	0	0	6	4	5	0	0	1	8	1	6	6	Chaibasa
1·8	+0·2	3·4	3·03	+1·84	0·97	26	7	+4·5	4·1	−0·5	3	0	0	0	1	0	1	4	22	4	1	0	1	1	0	2	9	13	Ranchi
4·0	+2·3	4·8	0·76	−0·18	0·41	26	2	+0·1	6·5	+0·1	1	1	0	0	2	5	4	11	7	7	1	0	0	1	0	3	17	2	Hazaribagh
3·5	+2·3	4·8	2·23	+1·56	0·79	26	5	+3·4	2·5	−0·3	0	0	7	2	2	1	1	0	18	2	2	2	1	2	2	6	10	4	Daltonganj
...	...	...	0·37	...	0·26	26	1	...	5·8	...	2	0	2	2	0	14	8	1	2	...	...	...	...	...	...	...	...	...	Dhanbad

(a) Mean of 30 days.

(c) Mean of 28 days.

(g) Mean of 24 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Relative humidity %		
		Mean 0830 hrs. I.S.T	Departure from normal	Mean 1730 hrs. I.S.T	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bihar																						
Purnea	124	1007·2	−0·1	1002·5	91·5	+2·1	97	12	59·9	+0·5	49	1	73·2	84·6	61·7	64·8	13·6	−2·1	11·8	50	−10	30
Darbhanga	161	1005·9	0	1001·6	88·0	−0·9	95	18	61·5	+1·0	54	2,3	73·0	85·6	61·2	64·7	12·9	−2·0	10·7	47	−7	29
Motihari	218	1004·3	+0·7	999·3	90·4	+1·9	98	11	58·5	+0·4	51	2,4	74·1	83·1	62·9	65·6	14·8	0·4	13·7	52	−2	3[illegible]
Patna	173	1005·6	0	1001·5	91·4	+1·6	97	4 days	66·5	+2·2	57	1	76·5	87·1	60·4	63·6	10·8	2·8	9·4	35	−11	23
Dehri	352	999·5	...	995·9	91·1	...	98	9,17	66·9	...	58	1	74·4	86·5	61·2	64·0	12·7	...	10·2	43	...	27
Gaya	365	999·2	+0·2	995·1	92·6	+0·9	99	4 days	64·7	+1·6	56	1	76·3	87·4	61·2	63·6	11·8	+1·7	9·1	39	+6	23
Jamui	270	1002·4	...	998·2	93·1	...	100	12	66·4	...	57	5,23	77·9	87·7	67·1	72·1	17·5	...	19·8	56	...	48
Dumka	489	994·7	−0·1	990·3	94·5	+2·8	101	12,19	...	...	...	...	77·6	88·6	62·6	65·6	12·6	−1·4	11·2	39	−5	25
Sabour	122	1007·1	+0·2	1002·5	92·0	+1·4	99	12	62·3	+3·1	49	1	77·0	86·7	63·8	67·1	14·5	+0·5	14·0	46	−4	33
Bhagalpur	181	1005·8	...	1001·3	91·0	...	96	12,19	67·9	...	61	1	77·7	85·0	62·7	64·7	12·7	...	11·5	40	...	29
U. P., East																						
Gonda	360	999·0	...	995·7	89·8	−0·2	96	4 days	60·1	+1·0	53	4	68·5	84·4	58·0	62·2	12·1	+0·3	9·1	50	+2	25
Gorakhpur	254	1002·1	−0·3	998·3	90·6	+0·6	98	11	64·2	+2·8	57	2	72·7	85·5	59·7	63·2	11·8	−1·6	9·4	43	−9	22
Azamgarh	255	1002·5	...	998·8	92·7	...	99	8,9,10	61·9	...	55	1,2	71·7	86·9	60·3	66·4	12·8	...	13·0	48	...	31
Banaras	250	1003·3	+0·3	999·6	89·8	−1·8	97	8,9,11	63·6	+2·1	55	23	72·3	87·0	61·0	66·1	12·8	+0·1	12·4	49	+1	31
Allahabad (Bamrauli).	322	1001·2	+0·6	997·4	88·9	−2·8	97	9	62·7	+1·7	55	1	72·8	85·5	60·7	65·0	12·9	+1·5	11·5	47	+3	30
Fatehpur	375	999·5	...	995·3	89·5	−1·7	96	18	61·7	+1·5	54	1	71·8 (a)	86·5	60·3	65·0	12·8 (a)	−0·5	11·8	48 (a)	−4	28
Banda	398	998·2	...	994·5	91·7 (a)	...	99	9	62·9	...	57	1,5	72·2	87·7	60·6	66·5	12·8	...	13·1	49	...	29
Orai	463	996·7	...	993·1	90·3	...	99	9	61·0	...	53	4	70·6	87·1	60·8	68·0	13·8	...	14·8	54	...	37
Kanpur	414	997·9	+0·7	994·3	89·2	−0·2	96	7,9	61·9	+1·8	54	4	71·3	85·3	62·1	69·1	14·9	+4·1	17·0	59	+14	42
Lucknow	371	999·3	+0·5	995·9	90·2	−0·6	98	10	61·8	+1·2	54	14	70·5	85·5	60·7	66·7	13·8	+1·4	13·3	55	+7	35
Hardoi	467	997·1	...	992·7	89·0	...	95	5 days	58·8	...	51	13,16	68·1	85·9	58·9	64·1	12·5	..	10·5	59	...	24
Kheri	483	994·6	...	991·4	88·8	...	96	8	60·2	...	55	1,4	68·0	83·4	58·5	6[illegible]·5	12·5	...	11·8	54	...	32
Bahraich	407	997·3	+0·7	994·1	89·1	+0·4	97	8	59·1	+0·3	53	1	68·6	83·1	58·2	6[illegible]·0	12·1	−1·4	10·7	50	−6	29
U. P., West																						
Jhansi	823	984·2	+0·2	980·0	90·9 (c)	−1·5	100	9	62·5	+0·4	55	1	72·4	87·5	59·5	6[illegible]·3	11·2	+0·8	10·0	44	+7	27
Agra	553	993·2	+0·4	989·7	88·3	−0·5	95	7	59·1	+0·8	53	13,14,15	66·5	85·5	56·5	6[illegible]·5	11·4	+1·7	14·5	50	+7	27
Mainpuri	516	994·1	+0·4	991·6	89·6	−0·4	96	9,17,18	58·8	+0·4	52	13,14,15	69·1	84·9	61·4	70·5	13·3	+3·7	18·9	62	+14	48
Aligarh	615	990·8	...	987·7	87·9	+1·8	95	7,9,17	57·7	−0·7	52	1,14	66·7	83·8	57·4	63·1	11·9	+1·8	10·8	54	+7	27
Bareilly	568	991·6	+0·1	988·6	87·9	+0·9	95	9	60·6	+2·0	54	13	68·9	83·1	57·8	6[illegible]·5	11·5	−1·9	9·0	48	−12	24
Meerut	728	986·6	+0·4	...	84·8	−1·1	91	6,8,9	58·6	+1·4	50	15	66·2	...	57·1	...	11·9	+0·1	...	54	−3	...
Roorkee	899	980·0	−0·3	977·6	84·3	+0·5	91	6,17	55·6	+0·6	47	2	62·8	80·2	55·6	6[illegible]·0	12·2	+0·5	9·8	61	0	29
Dehra Dun	2,239	935·4	+0·6	933·4	79·2	−0·2	86	7	54·6	+0·5	49	21	62·6	74·5	54·7	6[illegible]·2	11·5	+1·1	12·1	59	+1	43
Punjab (I)																						
New Delhi	710	987·2	+0·1	984·4	85·5	+0·5	93	8	59·5	+2·4	53	3,13	66·4	81·0	57·0	62·8	11·3	+0·5	11·6	53	+1	33
Hissar	725	987·1	+0·3	984·3	87·3	−0·5	96	6,8	53·2	−3·6	44	12	60·8	82·6	55·1	6[illegible]·1	12·6	+2·1	14·8	67	+16	40
Karnal	818	983·1	...	980·5	84·4	...	92	6	56·7	...	49	14	63·3	80·1	55·4	6[illegible]·9	11·2	...	9·8	58	...	29
Ambala (R)	892																					
Patiala	822	983·0	...	980·7	84·1	...	92	8	55·5	...	48	13,14	61·3	79·3	54·8	61·7	11·6	..	10·8	64	...	33
Ludhiana	810	983·7	+0·3	981·5	83·5	+0·3	92	8	55·2	−1·1	47	13	62·5	80·0	55·7	62·5	12·2	+0·8	11·4	63	+2	36
Ferozepore	657	989·6	...	987·1	80·7	...	88	8	52·6	...	41	21	60·5	77·4	54·8	61·4	12·6	...	11·1	68	...	39
Amritsar	756	985·4	...	983·4	78·8	...	87	8	50·8	...	41	12	60·2	75·4	55·3	61·7	12·5	...	12·6	73	...	45
Jammu and Kashmir																						
Srinagar	5,205	843·7	+0·5	841·3	53·7	−3·2	60	4 days	38·9	+1·9	33	10,11	42·0	51·8	40·3	45·4	8·0	+0·3	8·1	83	−2	6[illegible]
Gulmarg	8,709							Closed during Winter months.														

(a) Mean of 30 days.

(c) Mean of 28 days.

P Register not received.

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0.10" or more)		Wind velocity miles per hour		Wind direction—Number of Winds from:—																		STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bihar
2·7	+1·3	3·8	0·08	0·42	0·06	31	0	−1·1	4·5	+1·7	2	3	4	0	2	9	8	0	3	0	0	0	0	0	5	14	1	11	Purnea
1·8	+0·5	2·5	0·19	0·32	0·17	31	1	−0·1	1·2	−1·5	1	3	4	1	0	1	11	3	7	0	0	0	0	0	5	12	3	11	Darbhanga
1·9	+0·9	1·6	0·10	0·39	0·10	26	1	+0·1	1·8	−1·2	0	1	2	0	0	0	20	0	8	2	0	1	0	0	0	16	0	12	Motihari
3·0	+1·6	4·3	0·31	−0·11	0·29	26	1	−0·1	6·7	+3·2	1	0	0	2	1	13	9	2	3	0	1	0	0	0	4	16	9	1	Patna
3·9	...	5·2	0·76	+0·32	0·56	26	2	+1·0	5·6	...	2	2	0	0	5	15	2	5	0	2	2	1	1	0	2	0	23	0	Dehri
3·7	+2·3	4·5	0·31	0·18	0·26	26	1	−0·2	6·9	+2·2	2	1	1	0	5	17	4	0	1	3	0	0	0	0	2	12	14	0	Gaya
3·6	...	4·9	0·29	...	0·29	26	1	...	4·8	...	3	0	3	3	1	0	6	14	1	2	1	0	1	0	1	5	21	0	Jamui
1·5	+0·3	2·8	0·21	−0·70	0·21	26	1	−0·6	...	...	2	0	0	1	0	6	9	13	0	0	1	0	0	0	6	13	11	0	Dumka
3·5	+1·7	4·2	0·07	−0·35	0·07	26	0	−0·9	6·5	+1·3	4	0	0	2	0	8	13	2	2	0	0	0	0	0	2	21	8	0	Sabour
2·5	...	3·5	0·06	...	0·06	26	0	...	6·7	...	1	1	1	1	0	9	12	2	4	0	0	0	0	0	2	22	6	1	Bhagalpur
																													U. P., East
2·8	+1·4	3·2	0·65	+0·47	0·59	26	1	+0·2	5·2	+0·6	0	1	2	0	0	1	13	8	6	1	0	1	1	0	1	11	11	5	Gonda
2·0	+0·9	1·9	0·30	0·09	0·19	26	2	+1·2	4·6	+2·3	2	3	1	0	0	2	20	3	0	0	1	2	0	1	7	20	0	0	Gorakhpur
3·4	...	2·5	0·48	...	0·48	26	1	...	...	...	0	0	0	0	0	1	2	0	28	0	0	1	0	0	0	21	0	9	Azamgarh
3·4	+2·0	4·0	1·04	+0·67	0·84	26	2	+1·1	6·5	+3·0	1	1	0	1	3	16	8	1	0	0	0	1	0	1	6	17	6	0	Banaras
4·0	+2·4	4·6	1·06	+0·50	0·80	26	3	+1·7	3·3	−0·5	1	0	1	1	3	7	8	2	8	4	2	0	0	2	1	11	8	3	Allahabad (Bamrauli)
3·9	+2·6	3·6	1·08	+0·80	0·92	26	2	+1·1	3·3	−0·1	0	2	2	1	0	1	9	6	10	0	0	1	0	0	0	5	10	15	Fatehpur
2·1	...	1·9	0·93	...	0·50	26	3	...	2·6	...	0	1	3	0	0	4	12	1	10	1	3	3	0	0	2	12	8	2	Banda
3·3	...	3·5	1·13	...	0·87	26	2	...	5·1	...	1	2	2	5	2	6	9	4	0	4	2	4	2	1	2	0	16	0	Orai
2·3	+2·5	3·9	0·94	+0·65	0·56	26	2	+1·2	7·6	+1·6	1	3	2	0	0	6	10	3	6	6	1	1	1	0	1	9	10	2	Kanpur
2·3	+0·9	3·7	0·70	0·42	0·43	26	2	+1·1	2·6	+0·3	4	2	1	0	1	6	11	2	4	1	3	0	1	0	3	9	11	3	Lucknow
1·9	...	2·0	1·41	...	1·00	26	3	...	4·4	...	4	1	3	0	0	4	6	12	1	5	1	1	3	1	0	5	15	0	Hardoi
2·5	...	2·8	0·89	...	0·68	26	2	...	3·0	...	1	1	0	1	0	3	9	10	4	0	1	2	0	1	2	14	7	4	Kheri
3·2	+2·0	3·6	0·57	+0·18	0·35	26	2	+1·2	4·9	+2·1	1	0	1	1	0	4	11	7	6	1	0	2	2	1	4	11	7	3	Bahraich
																													U. P., West
2·9	+1·8	3·2	1·24	+0·91	0·37	26	5	+4·2	4·8	+1·6	3	1	4	0	0	3	6	0	14	1	5	0	0	0	0	7	6	12	Jhansi
2·5	+0·8	2·9	1·01	+0·69	0·40	30	4	+3·2	2·5	−1·2	0	2	3	0	0	0	1	2	23	0	0	2	0	1	0	6	4	18	Agra
4·0	+2·4	4·5	1·54	+1·20	0·95	26	2	+1·2	...	...	0	0	2	0	1	2	9	6	11	0	0	1	1	0	0	6	10	13	Mainpuri
3·5	+2·1	4·1	1·02	+0·45	0·69	26	2	+0·7	4·5	+0·2	0	0	4	0	0	0	3	4	20	2	1	2	1	0	0	1	12	12	Aligarh
3·3	+1·5	4·2	1·72	+1·11	1·31	26	3	+1·7	3·9	+1·4	1	1	2	1	0	2	10	7	7	1	0	1	1	1	0	24	2	1	Bareilly
2·1	+0·3	...	2·22	+1·63	2·15	26	1	−0·4	5·2	...	2	5	5	2	0	0	4	5	8	..	...	...	...	...	...	...	...	...	Meerut
3·1	+1·2	3·1	2·67	+1·89	2·23	26	3	+1·4	3·2	+0·7	1	0	1	6	1	1	3	7	11	2	2	0	2	0	2	3	8	12	Roorkee
3·9	+1·1	4·3	3·43	+2·17	2·40	26	4	+1·3	2·5	+0·4	3	3	0	1	1	2	1	0	20	2	2	0	0	1	10	7	2	7	Dehra Dun
																													Punjab (i)
3·6	+1·8	4·2	2·07	+1·56	1·50	26	2	+0·7	5·6	...	1	1	2	2	2	6	8	6	3	5	4	2	3	1	0	2	13	1	New Delhi
1·9	+0·2	2·0	2·13	+1·49	0·92	26	3	+1·5	4·7	+0·4	2	3	2	3	3	6	4	1	7	4	3	2	1	1	3	3	9	5	Hissar
3·9	...	3·7	1·46	...	0·65	26	3	...	4·0	...	3	4	3	3	0	0	8	7	3	3	2	1	4	0	1	10	8	2	Karnal
																													Ambala (R)
4·1	...	4·2	1·99	...	1·02	26	2	...	5·1	...	10	0	3	5	0	0	2	8	3	10	0	3	4	1	0	2	11	0	Patiala
3·8	+1·6	3·7	5·11	+4·17	3·54	26	3	+1·2	2·2	+0·2	0	1	2	1	0	1	4	5	17	0	3	1	1	0	2	5	7	12	Ludhiana
2·9	...	3·4	0·77	...	0·64	26	1	...	...	...	1	2	0	3	0	1	0	3	21	1	5	0	1	0	1	0	4	19	Ferozepore
3·7	...	4·3	1·79	...	1·55	26	2	...	7·3	...	7	3	2	1	0	3	4	3	8	4	4	3	0	0	2	4	13	1	Amritsar
																													Jammu and Kashmir
5·5	+0·6	5·7	4·43	+0·82	1·73	10	8	+0·6	2·8	−0·4	2	1	0	13	0	0	2	2	9	4	1	1	4	1	1	5	10	4	Srinagar
																													Gulmarg

STATION	Height of bar. cistern above mean sea level in feet.	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Relative humidity %		
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jammu and Kashmir—*contd.*																						
Dras (R)	10,059																					
Leh	11,529	664·8	—0·5	662·2	45·9	+1·7	51	17,18	22·1	+1·1	15	4 days	29	1·	22·8	30·1	2·1	—0·7	2·8	39	—15	30
Skardu (R)	7,505																					
Gilgit (R)	4,890																					
Misgar (R)	10,190																					
Rajasthan West																						
Sri Ganganagar	580	992·0	...	989·2	82·4	+0·5	89	5	52·3	+0·1	44	12	62·7	77·9	56·9	63·2	13·2	+2·4	13·5	63	+10	41
Bikaner	734	986·2	0	983·4	88·4	—1·1	95	6	56·3	—1·9	44	12	63·2	85·9	53·1	63·9	9·3	+0·4	10·5	47	+4	23
Jaisalmer	793	983·7	...	980·9	88·5	...	95	5	60·1	...	52	13,15	67·2	85·7	58·6	69·9	12·9	...	17·8	59	...	45
Jodhpur	736	986·7	+1·4	983·4	90·3	—0·2	97	5,6	61·5	0	53	13	68·8	87·4	54·4	63·5	8·0	—0·3	8·9	34	—2	21
Phalodi	783	984·6	...	982·2	88·4	...	96	5,6	59·9	...	52	12	64·4	80·2	55·2	68·2	10·7	...	15·3	57	...	40
Barmer	638	989·8	+0·2	986·4	92·0	+1·8	99	5	66·6	+2·4	61	27	71·5	89·2	60·8	68·4	13·3	—0·3	13·9	52	—3	31
Rajasthan, East																						
Sikar	1,419	963·7	...	960·6	86·5	...	93	6,8	56·2	...	46	12	66·1	82·8	58·2	59·0	12·9	...	17·9	50	...	50
Jaipur	1,431	963·2	—0·3	960·1	87·4	—0·9	94	7	60·6	+1·8	54	13	71·1	84·0	55·9	59·5	8·6	+0·3	6·4	34	—1	17
Ajmer	1,593	957·9	—0·1	954·7	86·2	—1·5	94	5	59·0	—1·2	50	13	66·0	83·6	54·1	57·9	8·9	—0·9	5·3	44	—8	16
Kotah (R)	843																					
Jhalawar	1,053	975·4	—0·7	971·6	91·9	+0·5	98	7,8,11	62·3	+1·6	56	1,4	69·7	89·3	56·3	63·6	9·5	+0·4	8·5	38	+2	20
Udaipur	1,910	947·3	—0·4	944·2	87·9	—1·1	95	5,67	59·3	—1·1	52	13	69·3	84·5	56·7	62·9	10·0	—1·2	10·3	44	—3	27
Madhya Bharat																						
Gwalior	681	989·1	...	984·9	89·9	...	99	7	59·5	...	49	13	76·3	85·6	59·4	65·7	9·6	...	9·8	33	...	25
Sheopur kalan	771	...	...	...	...	...	...	...	60·1	...	53	4	68·4	88·2	...	...	...	...	...	...	...	...
Guna	1,571	958·2	—0·9	954·8	90·7	+0·4	98	7,8	60·3	+2·6	53	1	69·4	87·2	56·7	63·0	10·6	+1·3	9·8	45	+8	2
Neemuch	1,626	956·9	0	953·8	89·6	—1·0	97	7	63·5	+2·4	56	13	70·8	86·7	54·6	60·1	8·0	—1·8	7·0	32	—5	70
Ratlam	1,596	957·6	...	954·5	90·6	...	98	7,8	65·0	...	59	17	71·6	87·7	62·1	72·0	15·1	...	20·4	57	...	46
Indore	1,839	949·4	—0·5	945·8	91·5	—1·9	98	11	61·4	+2·1	55	21	71·4	87·4	56·5	63·6	9·6	—1·1	9·9	37	+5	23
Bhopal (Bairagarh)	1,714	953·5	—0·4	950·0	91·6	0	98	8,9	64·0	+2·1	60	21	73·2	87·3	57·4	60·9	9·9	+1·5	7·4	35	+6	17
~~Gwalior~~ (Madhosagar)	757	986·0	...	982·5	89·8	...	99	7	62·5	...	55	13,14	70·5	86·7	60·5	68·3	13·5	...	15·3	54	...	39
Vindhya Pradesh																						
Nowgong	750	986·5	+0·3	982·6	90·3	—1·4	99	7,9	59·4	—0·2	50	1	70·6	87·6	59·9	65·2	12·5	+1·0	11·1	50	+4	27
Satna	1,041	976·2	+0·2	972·7	88·7	—1·8	98	9	61·7	+0·3	53	1	70·0	84·7	60·7	6·9	13·9	+3·1	14·5	55	+25	38
Umaria	1,506	960·6	...	957·1	88·7	—1·7	97	8,9	59·9	+0·6	51	1	69·0	83·7	60·5	66·2	14·6	+3·3	14·9	61	+19	40
Madhya Pradesh, East																						
Gondia	1,026	977·3	...	973·0	93·9	...	101	19	67·2	...	60	1,2	74·5	89·2	63·2	66·8	14·7	...	12·4	52	..	31
Pendra	2,040	943·1	0	939·7	87·6	+0·3	97	19	64·2	+1·8	59	15,22,30	73·7	81·3	60·1	63·0	12·2	+0·8	12·3	47	+6	39
Ambikapore	1,989	945·0	...	941·7	86·6	...	95	8	58·5	...	48	1	68·3	81·5	59·2	63·0	13·5	...	12·1	58	...	37
Raigarh	723	987·3	...	983·4	92·4	...	102	8,9	67·8	...	59	1	75·2	90·3	62·7	67·5	12·7	...	12·8	47	...	26
Champa	805	984·9	...	980·2	93·7	...	103	19	68·0	...	60	1	73·9	90·3	61·9	67·1	13·5	...	12·2	49	...	30
Raipur	979	978·5	+0·2	974·4	93·8	—1·4	101	13,19	69·1	+1·1	63	30	75·5	89·5	63·3	69·3	14·4	+1·6	15·3	50	+10	35
Kanker	1,318	967·0	+0·2	962·8	93·4	—0·1	99	19	65·9	+0·4	55	2	73·6	90·3	64·8	71·6	17·0	+1·4	18·0	61	+8	39
Chanda	634	989·7	—0·4	984·8	98·4	—0·4	105	19	68·8	+1·8	56	2	77·7	93·5	63·2	67·2	13·3	—1·2	10·9	45	[illegible]	24
Sironcha	405	...	...	...	99·5	...	105	20	70·9	...	61	2	77·2	96·2	66·6	70·9	17·6	...	14·4	56	...	27
Jagdalpur	1,850	950·8	+0·1	946·3	95·0	0	100	9,13,19	63·1	—0·5	51	2	73·8	89·1	62·5	65·9	14·8	—3·0	12·4	54	—3	28

(R) Register not received.

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0.10" or more)		Wind velocity, miles per hour		Wind direction—Number of Winds from:— 0830 hrs. I. S. T.									1730 hrs. I. S. T.									STATION
Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Jammu and Kashmir—*contd.*
																													Dras (R)
3·9	—1·0	5·0	0·17	—0·11	0·10	27	1	+0·1	4·3	+2·3	0	0	0	0	0	2	0	0	29	4	1	0	1	4	12	3	4	2	Leh
																													Skardu (R)
																													Gilgit (R)
																													Misgar (R)
																													Rajasthan, West
1·3	—1·1	1·6	0·92	+0·41	0·64	26	3	+1·6	3·0	—2·4	3	1	7	2	3	2	0	5	8	2	5	3	0	0	2	2	9	8	Sri Ganganagar
2·1	+0·3	3·4	0	—0·23	0	...	0	—0·6	3·4	—0·8	0	2	0	15	0	5	0	1	8	0	7	0	0	0	10	1	13	0	Bikaner
3·0	...	3·6	0·33	...	0·29	25	1	...	7·3	...	1	5	1	1	1	12	0	0	10	0	3	0	0	0	14	1	11	2	Jaisalmer
3·4	+1·4	4·4	0·11	0	0·11	26	1	+0·8	4·0	—2·9	0	10	1	1	1	5	2	0	11	5	2	1	0	0	9	7	6	1	Jodhpur
3·3	...	4·4	0·64	+0·50	0·50	24	2	+1·6	7·0	...	5	3	0	4	9	8	1	1	0	5	1	1	0	1	6	13	4	0	Phalodi
3·9	+2·3	4·8	0	—0·25	0	...	0	—0·6	6·2	+0·4	1	1	0	0	1	5	3	15	5	3	3	0	1	1	11	4	3	5	Barmer
																													Rajasthan, East
3·1	...	4·9	0·19	...	0·12	1	1	...	5·1	...	0	2	4	10	6	0	1	0	8	0	1	1	1	2	7	2	15	2	Sikar
3·3	+1·6	4·6	0·52	+0·18	0·44	25	1	+0·1	4·3	0	3	2	8	6	0	0	0	1	11	2	1	0	3	2	3	10	8	2	Jaipur
3·8	+2·4	4·4	0·26	+0·03	0·10	26	1	+0·3	3·6	+0·4	0	5	1	2	2	2	1	0	18	2	0	0	0	1	7	8	8	5	Ajmer
																													Kotah (R)
2·7	+1·5	3·7	0·10	—0·04	0·10	31	1	+0·4	2·9	—0·1	3	2	1	2	1	1	0	1	20	3	1	2	2	0	2	5	15	1	Jhalawar
3·7	+2·4	4·7	0·02	—0·08	0·02	26	0	—0·3	2·6	...	4	3	1	0	0	2	3	7	11	4	4	3	0	2	3	7	8	0	Udaipur
																													Madhya Bharat
4·0	...	5·1	0·65	...	0·38	25	2	...	1·5	...	3	3	6	3	4	4	0	6	2	6	3	2	5	1	0	1	12	1	Gwalior
...	...	...	0·29	...	0·17	12	2	...	...	...	9	6	1	5	8	1	0	1	0	10	1	1	0	2	2	7	8	0	Sheopur Kalan
4·0	+3·0	5·3	0·48	—0·02	0·47	25	1	+0·1	3·9	+0·9	3	2	10	6	4	0	2	1	3	3	0	5	0	0	2	10	11	0	Guna
4·8	+3·5	5·3	0	—0·12	0	...	0	—0·3	4·5	—0·6	3	10	2	1	0	5	3	1	6	3	6	0	0	0	7	7	6	2	Neemuch
4·5	...	6·1	0	...	0	...	0	...	5·4	...	6	9	4	0	2	5	4	1	0	3	1	1	0	1	6	9	10	0	Ratlam
4·2	+3·1	4·5	0	—0·08	0	...	0	—0·3	5·5	—0·3	4	7	3	3	1	3	4	3	3	6	1	1	1	0	4	8	8	2	Indore
4·8	+3·7	5·2	0·22	—0·12	0·18	25	1	+0·2	(d) 5·6	—0·5	0	6	6	5	1	2	1	3	7	8	2	0	1	0	3	5	8	4	Bhopal (Bairagarh)
4·1	...	5·2	0·50	...	0·25	25	3	...	5·0	...	1	3	3	0	2	7	2	1	12	5	2	1	4	0	1	4	11	3	~~Gwalior~~ (Madhosagar)
																													Vindhya Pradesh
3·7	+1·9	4·4	0·46	+0·16	0·37	30	1	+0·2	2·7	+0·8	0	7	1	0	3	12	0	1	7	2	7	3	0	0	2	2	13	2	Nowgong
4·8	+3·3	6·1	1·48	+1·03	0·57	26	3	+1·9	3·3	+0·2	0	2	0	0	2	5	2	0	20	2	0	3	0	1	0	2	4	19	Satna
4·6	+2·8	5·5	2·72	+2·02	1·10	25	5	+3·3	1·7	—1·2	0	2	0	4	0	3	0	3	19	0	2	0	4	2	1	0	10	11	Umaria
																													Madhya Pradesh, East
3·0	...	3·0	2·84	...	1·35	29	5	...	2·5	...	6	0	2	4	3	3	0	0	13	4	2	3	3	0	4	1	0	14	Gondia
3·6	+2·2	5·6	1·43	+0·34	0·54	26	5	+2·7	4·0	+0·2	5	1	0	1	7	3	3	5	6	11	2	0	1	6	3	1	6	1	Pendra
...	...	...	1·80	...	0·78	26	5	...	5·2	...	5	3	2	1	6	5	2	2	5	14	6	0	2	2	0	4	3	0	Ambikapore
4·5	...	4·3	4·42	...	2·40	26	6	...	3·3	...	4	17	1	1	1	1	1	0	5	5	7	1	2	1	0	3	1	11	Raigarh
4·2	...	4·5	6·14	...	3·47	26	6	...	4·3	...	11	5	3	2	0	0	0	6	4	5	3	4	0	2	2	6	7	2	Champa
4·4	+3·1	4·9	4·02	+3·31	2·18	26	5	+3·3	4·5	+1·3	10	2	2	2	2	2	2	1	8	2	4	3	2	3	3	4	3	7	Raipur
3·9	+2·2	4·9	6·24	+5·39	1·43	30	6	+3·9	2·9	—0·3	1	0	1	0	4	2	0	0	23	3	5	0	1	2	3	2	4	11	Kanker
3·0	+1·	4·4	4·19	+3·42	1·84	26	5	+3·8	2·0	—0·4	1	1	0	6	0	0	0	0	23	0	2	0	5	0	0	0	6	18	Chanda
2·8	...	2·8	4·03	...	3·74	27	2	...	3·3	...	1	1	9	11	1	0	0	1	7	3	1	4	5	4	4	3	3	4	Sironcha
2·0	+0·7	4·0	2·04	+1·51	1·11	31	3	+1·8	3·3	+0·8	2	1	2	7	1	3	0	1	14	0	4	0	1	0	12	1	6	7	Jagdalpur

(d) Mean of 27 days.

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Madhya Pradesh, West																					
Buldhana	2,133	939·2	...	935·8	93·2	...	99	8	70·9	...	61	26	74·8	90·9	61·8	69·2	13·6	...	15·6	47	...
Akola	925	979·9	−0·3	974·8	99·3	+0·5	104	8,12	68·8	+2·8	58	3	76·7	96·4	65·2	74·0	16·1	+6·6	18·5	52	+20
Amravati	1,213	970·2	−0·1	965·6	97·4	−0·1	102	8	71·2	+1·8	64	22	77·6	94·7	68·0	76·8	19·1	+8·6	23·4	61	+29
Yeotmal	1,481	961·2	...	956·7	96·5	...	102	12,18,19	70·8	...	64	29,31	79·4	92·2	64·4	69·3	13·9	...	14·1	45	...
Khandwa	1,044	975·6	−0·6	971·2	96·9	−0·5	104	8	65·5	+1·0	57	1	74·3	93·8	57·6	65·7	8·8	−0·4	9·0	31	−2
Hoshangabad	992	977·4	−1·0	973·1	95·1	+1·9	101	7,8,9	66·0	+1·2	59	2	72·0	92·8	62·0	65·2	14·5	+4·7	8·8	49	+15
Sagar	1,808	950·2	−0·2	946·5	89·5	−1·1	97	9	67·1	+2·3	60	31	72·4	85·2	57·4	61·3	10·0	+1·6	8·8	39	+9
Jabalpore	1,289	968·1	+0·4	963·9	91·5	−0·1	100	8	61·6	+2·8	51	1	71·2	86·5	60·6	65·7	13·3	+1·9	12·2	52	+9
Mandla	1,452	962·5	...	958·3	90·4	...	99	8	58·2	...	46	1	67·1	84·8	60·3	66·2	14·8	...	13·6	68	...
Seoni	2,027	942·6	−0·7	939·6	92·1	+0·2	99	9	64·3	+1·6	55	1	72·6	87·0	59·7	64·1	12·3	+1·6	11·1	48	+1
Chhindwara	2,248	936·1	...	932·3	89·9	...	96	8,9,13	63·6	...	57	1,2	70·6	86·4	59·1	63·3	12·5	...	10·5	50	...
Betul	2,144	939·4	...	935·6	91·3	...	98	8	62·3	...	53	1	72·7	86·9	58·7	61·7	11·2	...	8·6	42	...
Nagpur	1,010	977·2	0	972·7	96·4	−0·3	103	19	67·0	+0·3	58	26	76·5	91·2	64·0	70·2	14·7	+3·8	15·7	49	+1
Gujarat																					
Deesa *	466																				
Surat	35	1010·3	−0·7	1006·6	97·5	+1·4	107	4	68·8	+1·8	64	29	72·5	91·6	63·5	70·5	15·9	−1·9	15·9	59	—
Ahmedabad	181	1005·6	−0·7	1002·1	95·6	−1·4	102	7	66·1	+1·7	60	17	73·7	92·9	61·9	68·7	13·6	+0·7	13·0	48	+
Dohad	1,09[illegible]	974·4	...	970·9	93·7	−0·5	101	7,8	67·9	+4·0	62	1,21	73·7	90·3	58·5	64·3	9·9	−1·3	8·9	36	−
Baroda	115	1008·0	...	1004·1	97·0	+0·9	105	6	63·7	+3·8	57	1	71·0	93·9	61·2	69·5	14·0	+2·2	13·5	56	+
Broach	57	1010·1	...	1006·1	98·3	...	107	4,5	67·7	...	61	17	71·3	94·6	63·7	72·3	16·7	...	16·9	67	..
Saurashtra and Kutch																					
Bhuj	343	1000·8	+0·2	997·6	92·0	−0·8	100	5	64·9	+0·6	57	13,15	70·5	89·8	60·5	63·6	13·5	−2·2	8·4	54	−
Dwarka	3[illegible]	1011·3	−0·5	1008·7	84·8	+2·5	99	5	70·7	+0·1	64	5	73·3	79·8	68·2	60·7	21·2	0	21·5	76	
Jamnagar	61	1010·4	−0·3	1007·4	91·8	+0·1	101	5	64·0	+1·5	54	14	70·5	86·6	63·9	77·5	17·3	−0·1	14·4	68	−
Rajkot	432	997·2	−0·2	993·4	94·8	−0·3	103	5	64·0	+1·9	57	14	69·9	91·5	61·9	68·6	15·3	+0·2	13·5	62	+
Veraval	2[illegible]	1011·0	−0·9	1008·2	88·9	...	103	8	66·0	...	59	29	73·4	79·7	62·3	72·7	14·2	...	24·3	52	—
Bhavnagar	55	1010·3	−0·5	1006·[illegible]	95·5	−0·2	102	5,8	67·1	+1·5	61	13,15	71·1	92·4	58·4	66·7	11·0	−2·6	10·8	42	−
Konkan																					
Dahanu	15	1010·9	...	1008·2	85·3	...	93	15	69·8	...	64	5	75·9	82·6	68·6	74·8	20·5	...	25·9	68	..
Bombay	35	1010·7	−0·4	1007·6	88·7	+2·5	97	3	73·5	+1·6	70	1	78·8	84·0	72·0	74·1	23·7	+0·6	24·3	71	−
Alibag	23	1011·5	+1·7	...	87·4	+2·0	93	3	70·9	+1·5	67	1	75·6	...	70·2	...	22·7	+2·4	...	76	+
Harnai	66	1009·3	...	1006·8	84·7	...	91	4	75·9	...	73	22,23,27	78·8	82·5	72·5	76·1	24·4	...	27·6	73	.
Devgad	117	1007·6	...	1004·2	88·2	...	93	17	75·4	...	70	25	78·3	85·8	73·5	78·1	26·8	...	29·4	80	.
Vengurla	29	1010·8	...	1007·1	89·7	...	93	17,21,23	71·5	...	67	31	78·8	85·7	73·0	76·1	25·1	..	26·5	75	.
Marmagao	202	1004·9	0	1001·4	86·8	+1·4	89	18	76·2	+1·8	71	13	80·0	83·9	74·1	75·9	26·1	+1·8	26·9	74	
Honavar	85	1009·0	...	1005·2	89·8	...	92	18	73·5	...	68	7	77·3	86·1	72·3	77·1	24·8	...	27·7	77	.
Deccan (Desh)																					
Jalgaon	660	983·3	...	984·2	99·8	...	105	7,8,16	65·7	...	56	1	73·1	97·9	57·5	68·7	9·2	...	10·8	33	.
Malegaon	1,432	963·1	−0·3	958·7	97·9	+0·4	103	8	64·0	+1·3	57	1,2	73·0	94·2	58·1	65·4	9·8	−1·5	8·3	34	
Deolali	1,874	948·2	...	...	94·0	...	100	7	61·2	...	55	1,2	72·4	...	58·6	...	11·2	...	...	43	
Ahmednagar	2,154	938·8	−0·6	934·7	95·6	+0·2	99	8	64·6	+1·5	59	31	73·7	92·7	57·7	64·4	9·8	−1·3	9·2	35	
Poona	1,834	949·7	−0·2	945·6	96·8	−0·1	101	7	63·1	+1·4	57	31	71·0	92·2	59·9	65·5	13·1	−0·2	10·7	51	
Jeur	1,709	953·5	...	948·9	97·3	...	101	15,18	63·8	...	57	4	74·3	95·2	62·0	72·3	14·0	...	17·7	47	
Sholapur	1,570	958·6	+0·3	953·7	99·6	+0·5	102	13,18,19	70·2	+0·9	64	4	75·3	96·7	63·8	68·0	13·4	+2·3	11·8	37	

* Data not reliable

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0.10" or more)		Wind velocity, miles per hour		Wind direction—Number of Winds from:—																	STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.								
Mean 0830 hrs. I.S.T	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Madhya Pradesh, West
4·0	...	4·6	0·12	...	0·12	36	1	...	...	...	13	0	4	1	6	1	1	5	0	0	4	0	2	0	7	1	17	0	Buldhana
3·8	+2·5	4·2	0	−0·36	0	...	0	−0·7	4·5	+0·9	2	4	6	4	0	2	2	7	4	4	3	2	2	0	1	8	9	2	Akola
3·5	+2·3	4·1	0·37	+0·02	0·28	29	1	+0·2	6·6	+2·4	0	22	0	3	0	0	0	6	0	0	4	0	3	0	6	0	18	0	Amravati
4·0	...	4·5	1·08	...	0·53	28	3	...	8·2	...	1	10	0	5	0	7	1	7	0	1	9	0	5	0	10	0	6	0	Yeotmal
3·6	+2·7	4·6	0·13	−0·04	0·08	25	0	−0·5	4·6	+0·5	2	4	1	0	1	2	9	3	9	9	1	0	1	0	3	3	14	0	Khandwa
4·2	+3·0	4·2	0·10	−0·14	0·10	25	1	+0·4	2·7	+0·5	1	2	6	1	0	0	0	0	21	0	1	1	0	0	1	0	0	28	Hoshangabad
4·9	+3·6	5·0	0·21	−0·12	0·11	26	1	+0·1	...	...	0	6	8	7	4	1	1	3	1	0	17	0	0	0	4	1	9	0	Sagar
4·3	+3·1	4·9	1·03	+0·47	0·57	26	4	+2·6	2·9	+0·9	0	0	0	23	1	2	0	0	5	1	13	0	7	1	3	1	2	3	Jabalpore
4·7	...	5·5	3·81	...	1·17	26	6	...	1·3	...	2	0	0	0	1	0	0	0	28	8	1	0	2	0	0	1	5	14	Mandla
2·9	+1·6	2·2	1·21	+0·42	0·49	14	4	+2·0	4·1	+1·2	1	4	3	6	2	3	0	0	12	6	4	1	5	3	5	0	4	3	Seoni
4·4	...	3·9	1·22	...	0·48	27	4	...	3·5	...	3	3	5	3	3	1	3	3	7	4	1	0	1	3	5	4	13	0	Chhindwara
4·2	...	5·0	0·71	...	0·44	29	3	...	3·5	...	0	1	5	10	4	1	0	1	9	7	5	1	1	1	2	7	6	1	Betul
4·4	+3·0	4·3	2·13	+1·5	31·35	29	3	+1·5	4·1	...	6	7	9	3	1	1	1	2	1	1	2	8	4	3	4	5	2	2	Nagpur
																													Gujarat
																													Deesa*
3·0	+2·0	3·2	0	−0·01	0	...	0	−0·1	4·6	+1·3	1	10	1	0	0	1	3	6	9	2	1	0	0	2	9	2	15	0	Surat
3·5	+2·4	3·8	0	−0·05	0	...	0	−0·2	4·4	−0·3	3	5	3	0	0	0	4	9	7	3	2	1	0	2	4	8	11	0	Ahmedabad
3·5	+2·3	3·5	0	−0·06	0	...	0	−0·2	7·6	+4·3	1	4	5	1	3	10	4	1	2	4	4	0	1	1	12	6	0	3	Dohad
2·8	+1·9	3·5	0·12	+0·10	0·12	24	1	+1·0	1·9	−0·8	1	3	1	0	1	3	0	0	22	4	3	0	0	0	4	5	10	5	Baroda
2·3	...	2·1	0·05	...	0·03	24	0	...	4·3	...	4	3	4	4	5	4	2	3	2	4	4	2	0	1	6	7	7	0	Broach
																													Saurashtra and Kutch
2·9	+1·7	2·7	0	−0·11	0	...	0	−0·2	4·7	−0·9	3	0	0	0	3	5	3	1	16	3	4	0	0	1	2	9	11	1	Bhuj
2·9	+1·1	2·7	0·08	−0·03	0·08	24	0	−0·2	10·4	+1·0	12	5	0	0	0	2	7	4	1	5	1	0	0	0	1	9	15	0	Dwarka
3·5	+2·4	3·2	0	−0·08	0	...	0	−0·1	9·2	...	1	2	1	1	3	11	3	0	9	5	5	0	0	0	0	16	5	0	Jamnagar
3·3	+1·5	3·7	0·10	+0·04	0·10	24	1	+0·9	8·8	+2·8	3	4	1	2	2	4	2	7	6	7	3	1	1	0	1	7	11	0	Rajkot
3·0	+1·3	3·0	0	−0·05	0	...	0	−0·1	9·3	...	10	2	0	0	0	0	0	6	13	0	0	0	0	3	2	14	11	1	Veraval
2·8	+1·6	3·5	1·41	+1·30	1·41	24	1	+0·8	4·3	−0·5	1	0	0	0	1	4	12	2	11	1	2	15	3	5	1	2	1	1	Bhavnagar
																													Konkan
4·3	...	2·8	0	...	0	...	0	...	9·0	...	7	3	12	6	0	0	1	2	0	9	0	0	0	0	0	12	10	0	Dahanu
2·9	+1·6	2·6	0·15	+0·10	0·14	25	1	+0·9	4·6	−2·6	6	5	6	3	0	0	0	0	11	1	0	0	0	1	0	6	22	1	Bombay
2·2	+0·9	...	0·05	+0·03	0·03	26	0	−0·1	3·8	−2·2	4	4	7	1	0	0	0	0	15	...	...	...	...	...	...	...	...	...	Alibag
2·1	...	2·0	0	...	0	...	0	...	9·2	...	11	9	4	0	2	0	1	2	2	0	0	0	1	1	4	13	12	0	Harnai
1·1	...	1·3	0	...	0	...	0	...	9·3	...	1	8	17	5	0	0	0	0	0	0	0	0	0	0	1	16	14	0	Devgad
2·9	...	1·9	0	...	0	...	0	...	...	...	7	1	4	0	0	0	0	0	19	0	0	0	0	0	4	19	1	7	Vengurla
3·1	+0·9	3·0	0	−0·01	0	...	0	−0·1	7·6	+1·2	3	7	9	7	4	0	0	1	0	0	0	0	0	0	0	19	12	0	Marmagao
2·6	...	2·0	0	−0·05	0	...	0	−0·1	3·1	...	0	3	19	4	0	0	1	0	4	0	0	0	0	0	1	19	11	0	Honavar
																													Deccan (Desh)
2·3	...	3·1	0·18	+0·03	0·18	26	1	+0·5	5·0	...	1	2	2	6	1	9	4	3	3	0	3	0	0	0	4	1	23	0	Jalgaon
3·3	+2·2	4·2	0·03	−0·05	0·02	28	0	−0·3	4·3	−0·8	0	0	0	0	0	4	4	10	13	2	3	0	0	1	4	4	13	4	Malegaon
3·4	...	...	0·07	...	0·04	26	0	...	4·6	...	3	2	1	3	1	4	3	1	13	...	...	...	...	...	...	...	...	...	Deolali
2·4	+1·6	3·4	0	−0·21	0	...	0	−0·3	4·5	−0·8	5	2	0	1	0	0	1	10	12	1	3	0	2	1	7	8	4	5	Ahmednagar
2·2	+1·4	2·9	0	−0·06	0	...	0	−0·2	2·0	−3·1	0	0	0	0	0	2	2	0	27	0	1	3	1	0	4	15	4	3	Poona
2·4	...	3·6	0	...	0	...	0	...	5·4	...	4	4	2	0	1	0	3	7	10	0	1	3	3	5	5	7	6	3	Jeur
1·5	+0·5	3·1	0·11	−0·12	0·08	18	0	−0·5	5·9	+0·2	1	8	0	3	3	0	0	0	16	2	3	3	5		8	3	1	1	Sholapur

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (03

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Relative humidity %		
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
Deccan (Desh)— *contd.*																						
Miraj	1,817	950·4	0	945·8	97·8	+2·2	100	4 days	65·7	+1·2	61	23	72·8	94·4	62·3	67·1	15·0	+0·3	11·5	55	+3	
Kolhapur	1,835	948·3	...	943·8	96·0	...	99	11	66·1	...	62	31	75·2	92·4	62·5	66·4	14·2	...	11·6	58	...	
Bijapur	1,950	945·4	—0·4	941·6	97·3	+0·3	99	8 days	70·1	—0·1	59	31	77·3	95·4	64·2	67·4	15·2	+0·9	11·5	47	0	
Belgaum	2,552	926·3	+0·4	922·8	93·1	—0·5	95	7,16,17	63·2	—0·4	59	31	68·2	89·8	59·7	65·1	14·0	+0·4	11·2	61	+8	
Gadag	2,131	940·2	+0·3	935·8	96·9	+1·4	99	24	70·5	+1·7	67	11,31	77·9	93·8	66·6	72·1	17·6	+1·0	18·0	55	—2	
Hyderabad North																						
Aurangabad	1,905	947·5	—0·5	943·3	95·9	0	100	8	68·5	+1·6	62	31	73·4	94·0	56·3	64·0	8·6	—0·8	8·2	30	—2	
Parbhani	1,350	964·4	...	959·9	99·1	...	102	14,19	67·5	...	62	2,4	77·4	95·9	64·1	70·1	14·4	...	13·4	45	...	
Ramagundam	527	993·9	...	989·7	100·9	...	105	7 days	69·1	...	66	9,11	80·0	96·0	66·4	69·8	16·0	...	13·0	48	...	
Nizamabad	1,250	968·3	—1·0	964·0	98·3	0	103	19	69·7	+0·8	63	2	76·6	93·8	62·8	67·4	13·3	—1·7	11·0	45	+1	
Bidar	2,178	933·5	...	933·5	95·2	+0·3	98	19	71·7	0	67	4,28	77·5	92·4	61·1	65·0	11·7	—1·4	10·0	38	0	
Hyderabad, South																						
Gulbarga	1,503	960·4	—0·1	955·7	98·6	—0·5	101	19,20	70·2	—0·3	64	4	79·2	96·3	60·8	64·9	10·7	—3·2	8·2	33	—8	
Raichur	1,311	965·9	+0·1	962·3	98·6	+0·1	102	4 days	73·7	—0·1	68	3	79·3	96·8	65·8	71·0	15·6	+1·4	14·1	47	0	
Hyderabad (Begumpet)	1,778	951·3	—0·1	947·5	96·6	—0·1	100	4 days	67·6	—0·8	61	3,4	77·2	92·4	63·7	66·8	14·6	—3·1	12·1	47	—9	
Hanamkonda	831	981·4	—0·6	977·1	97·1	+1·1	102	13	70·7	—0·5	66	2	76·6	92·9	67·7	68·3	19·1	—1·5	12·5	62	0	
Khammameth	367	996·3	...	994·8	99·3	...	103	4 days	72·4	...	65	9,12	78·8	96·4	75·7	80·8	29·0	...	28·8	83	...	
Coastal Andhradesa																						
Nellore	65	1009·8	0	1005·9	95·4	+1·1	105	22	72·3	—0·6	65	8	79·9	86·3	73·6	75·2	25·5	—1·3	24·8	73	—5	
Ongole	38	1011·2	...	1006·9	88·9	...	100	22	72·3	...	66	11	78·6	84·9	75·9	...	29·6	...	...	89	...	
Gannavaram	83	1009·6	...	1015·2	97·6	...	101	20,21,23	71·4	...	64	9	79·6	90·8	75·2	75·9	27·8	...	24·8	81	...	
Masulipatam	10	1012·3	+0·1	1003·5	90·0	—0·5	94	13,20	72·8	+0·5	67	4 days	79·6	83·9	75·4	75·1	28·1	—0·3	25·8	84	+5	
Kakinada	26	1012·0	+0·1	1007·8	92·0	+0·2	97	1,13	73·6	+0·1	69	4 days	82·0	85·8	75·1	76·2	25·9	—0·7	26·5	72	—2	
Visakhapatnam	126	1008·2	0	1004·7	85·8	—1·3	90	13	74·1	—0·5	67	3	79·9	82·2	73·8	75·9	25·8	+0·5	27·7	74	+3	
Calingapatam	19	1011·7	—0·1	1007·9	88·5	—2·1	95	8	72·5	—0·3	65	5	76·7	83·7	72·5	76·5	25·3	—1·0	27·9	81	+6	
Rentachintala	348	999·8	...	995·2	100·0	+1·4	107	20	72·3	—3·3	63	9	78·3	97·0	68·6	71·1	19·5	—4·0	14·2	59	—3	
Rayalaseema																						
Cuddapah	428	997·2	+0·2	991·7	101·3	+0·4	106	21,22,23	74·7	—0·1	68	7,12,25	86·8	97·6	74·5	...	23·6	+1·4	...	56	—1	
Bellary	1,473	961·3	0	956·7	97·3	—2·2	101	23,24	72·3	0	65	9,12,13	77·6	95·3	63·3	66·4	13·4	—2·7	9·0	42	—4	
Kurnool	923	980·2	+0·2	975·1	97·6	—2·4	104	24	69·5	—2·5	59	9	78·3	96·7	64·9	68·8	14·9	—2·3	11·4	46	—3	
Anantapur	1,147	972·2	...	967·3	99·2	...	103	23,24	68·5	...	59	7	77·6	95·8	64·0	66·7	14·2	...	9·2	44	...	
Tamilnad																						
Palayamcottai	167	1006·3	...	1001·9	94·8	...	100	21,24	76·2	...	67	1	81·6	88·5	75·1	75·5	26·8	...	24·2	73	...	
Pamban	37	1010·8	+0·1	1007·1	87·7	—0·9	91	25	78·0	+1·3	71	1	82·9	83·5	77·6	78·5	29·9	+1·2	31·0	78	+2	
Mathurai	437	997·2	—0·1	992·5	96·6	+1·3	102	23	74·2	+1·7	64	2	81·1	92·6	73·9	74·2	25·3	+0·3	20·5	71	+2	
Nagapattinam	31	1011·5	+0·3	1007·6	86·9	—1·3	97	22,23	77·1	+0·8	69	2	81·6	83·7	75·5	76·9	27·4	—0·3	27·5	74	—1	
Tiruchi	295	1002·5	—0·1	997·4	96·7	+0·3	103	23	73·9	+1·7	62	1	80·2	93·7	74·3	75·2	26·3	—0·3	21·3	75	—2	
Coimbatore	1,341	966·5	—0·2	961·9	94·8	—0·6	98	20	72·7	+2·5	67	1,3	78·1	92·4	69·6	70·6	20·9	—2·7	15·8	63	+2	
Salem	913	981·0	—0·2	975·8	97·9	—0·1	103	22	72·9	+1·5	63	1	78·3	94·3	70·7	71·7	22·3	—1·7	16·4	67	—3	
Kallakurichi	416	998·1	...	993·1	97·1	...	104	22	72·4	...	63	1	79·8	93·7	71·6	71·3	22·7	...	16·0	66	...	
Cuddalore	39	1011·0	—0·2	1007·2	97·8	—0·6	95	22	73·3	+0·6	66	1,2	80·2	83·6	75·2	77·8	27·6	—0·4	29·9	79	—1	
Vellore	703	988·0	+0·1	(a) 983·4	96·5	+2·3	105	22	70·0	+0·2	62	1,6	78·8	(a) 92·9	71·1	(a) 73·2	22·5	—0·9	(a) 19·0	67	—9	
Madras	51	1010·8	+0·1	1007·0	91·6	+0·2	99	21	73·2	+0·8	67	1,6	80·6	84·6	74·6	75·4	26·5	—0·1	25·8	75	—2	
Arogyavaram	2,2[illegible]	934·8	...	930·9	92·5	...	97	23,24	67·4	...	62	4 days	76·3	88·9	64·3	65·1	15·7	...	11·4	52	...	

(a) Mean of 30 days.

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0·10″ or more)		Wind velocity, miles per hour		Wind direction—Number of Winds from:—																		STATION
											0330 hrs. I. S. T									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	NW	W	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Deccan (Desh)—*contd.*
1·7	+0·7	2·5	0	−0·15	0	...	0	−0·7	6·0	+0·7	2	1	5	3	1	1	5	3	10	1	3	6	5	4	4	5	3	0	Miraj
1·3	...	1·4	0	...	0	...	0	...	6·1	...	0	0	5	0	1	1	9	0	15	0	3	6	0	0	0	20	1	1	Kolhapur
1·3	+0·4	2·3	0	−0·21	0	...	0	−0·6	4·6	+0·6	7	1	0	1	6	5	1	5	5	2	6	4	2	4	3	3	3	4	Bijapur
0·3	−0·6	0·6	0	−0·41	0	...	0	−0·9	4·0	+0·7	2	1	3	5	6	0	3	2	9	0	1	8	2	1	7	11	1	0	Belgaum
1·3	+0·4	3·1	0·10	−0·12	0·10	29	1	+0·3	5·7	+0·8	0	0	7	7	0	3	2	0	12	0	1	8	7	1	1	0	0	13	Gadag
																													Hyderabad, North
3·3	+2·2	4·1	0·39	+0·19	0·39	26	1	+0·5	6·2	0	2	4	9	1	1	2	2	2	8	2	1	2	6	1	5	12	2	0	Aurangabad
2·5	...	3·7	0·02	−0·25	0·02	30	0	−0·5	...	...	23	2	2	2	0	0	0	0	2	3	3	3	0	1	0	19	1	1	Parbhani
2·6	...	3·5	2·82	...	0·83	25	4	...	5·5	...	9	3	1	8	1	0	0	0	9	3	3	4	9	2	3	3	1	3	Ramagundam
1·9	+0·7	2·8	1·56	+1·16	0·90	29	2	+1·2	3·1	+0·4	1	1	1	5	0	0	0	2	21	0	3	3	1	2	1	0	5	16	Nizamabad
1·6	+0·1	3·3	0·61	+0·19	0·41	27	2	+0·8	8·0	+1·8	2	4	2	0	8	10	1	4	0	0	1	7	6	4	6	4	1	2	Bidar
																													Hyderabad, South
1·8	+1·1	3·1	0·03	−0·34	0·03	29	0	−0·8	6·7	+1·0	6	6	1	2	7	2	0	2	5	1	1	4	8	5	5	3	4	0	Gulbarga
1·7	+0·7	2·2	0	−0·14	0	...	0	−0·4	7·0	+1·5	2	1	1	7	2	2	4	7	5	1	2	3	11	1	3	3	7	0	Raichur
2·4	+1·0	2·9	0·61	+0·15	0·40	27	2	+1·1	5·5	+1·8	0	2	5	6	3	5	0	5	5	1	4	5	11	1	5	1	2	1	Hyderabad (Begumpet)
2·3	+0·3	2·8	3·45	+2·99	1·80	28	4	+3·2	6·3	+1·1	0	1	2	12	13	0	0	2	1	1	1	1	11	9	2	2	2	2	Hanamkonda
3·2	...	2·7	0·65	...	0·36	31	2	...	5·1	...	0	0	9	9	13	0	0	0	0	1	0	4	9	13	0	4	0	0	Khammameth
																													Coastal Andhradesa
2·8	+0·7	2·6	1·09	+0·92	1·09	31	1	+0·7	5·8	+1·5	0	0	0	4	14	1	0	0	12	0	0	14	17	0	0	0	0	0	Nellore
2·4	...	2·0	2·36	...	2·06	30	2	...	5·7	...	0	0	0	10	1	4	2	0	14	0	0	8	22	1	0	0	0	0	Ongole
3·2	...	2·1	0·05	...	0·05	31	0	...	7·4	...	0	3	7	8	2	4	3	2	2	0	0	1	10	16	4	0	0	0	Gannavaram
3·8	+1·5	2·7	0·30	−0·12	0·18	31	2	+1·5	6·8	+2·5	4	1	3	2	9	0	1	0	11	0	0	0	6	25	0	0	0	0	Masulipatam
2·7	0	1·7	0	−0·48	0	...	0	−0·7	6·7	+2·2	0	4	1	7	0	15	1	3	0	0	0	1	22	2	6	0	0	0	Kakinada
2·7	+0·4	2·9	0	−0·47	0	...	0	−0·8	4·9	+0·8	0	4	2	3	0	3	8	6	5	0	1	2	5	6	13	4	0	0	Visakhapatnam
3·3	+1·6	3·8	0·60	+0·16	0·45	31	2	−1·4	7·8	+1·5	1	3	3	1	2	3	9	9	0	0	0	1	3	13	14	0	0	0	Calingapatam
2·6	−0·5	3·0	0·46	+0·37	0·35	30	1	+0·7	4·8	−1·0	0	0	5	7	3	1	1	1	13	1	1	11	13	2	0	2	0	1	Rentachintala
																													Rayalaseema
1·5	+0·3	2·7	0·82	+0·64	0·80	25	1	+0·7	6·8	−0·8	0	1	4	1	3	0	2	0	20	0	1	24	2	0	0	0	1	3	Cuddapah
3·8	+2·6	2·9	1·34	+1·13	1·00	28	3	+2·4	4·1	+0·8	0	1	0	0	0	0	1	8	21	0	0	2	17	0	6	0	5	1	Bellary
1·2	+0·2	1·6	2·69	+2·48	1·73	27	2	+1·6	3·7	−0·2	1	0	2	3	0	3	3	3	16	1	0	4	10	3	1	1	5	6	Kurnool
1·5	...	1·7	1·95	+1·80	1·02	26	2	+1·7	5·7	...	1	0	0	3	4	2	7	1	13	3	0	13	5	1	2	3	3	1	Anantapur
																													Tamilnad
2·1	...	2·2	1·90	+0·86	1·68	28	2	0	4·2	...	10	6	0	1	1	1	2	8	2	0	1	11	11	7	0	0	1	0	Palayamcottai
3·9	+1·3	3·2	0·26	−0·46	0·15	28	2	+0·6	7·9	+2·4	1	10	9	2	3	5	0	1	0	3	14	2	5	5	1	1	0	0	Pamban
3·4	0	4·2	0·36	−0·34	0·25	8	1	0	3·3	−0·1	2	6	3	1	0	0	1	2	16	0	9	6	8	5	0	0	0	3	Mathurai
4·5	+1·0	3·1	0·31	−0·48	0·31	31	1	0	8·6	+2·3	1	8	1	8	0	5	1	4	3	0	10	3	16	1	0	0	1	0	Nagapattinam
2·7	+0·4	2·8	0·12	−0·24	0·12	31	1	+0·3	5·9	+1·2	1	12	6	0	4	2	0	0	6	0	8	11	7	5	0	0	0	0	Tiruchi
1·9	−0·7	3·1	0·41	−0·09	0·39	23	1	+0·1	4·8	+2·3	6	9	5	2	2	2	1	1	3	2	7	9	4	3	3	2	1	0	Coimbatore
1·3	−0·2	2·3	2·05	+1·56	2·05	31	1	+0·1	7·2	+2·7	0	4	20	2	0	3	1	0	1	0	1	19	6	2	1	0	0	2	Salem
4·0	...	5·0	0.23	...	0.23	31	1	...	...	...	2	5	3	3	0	8	2	0	8	0	11	14	4	1	0	1	0	0	Kallakurichi
2·6	+0·1	1·7	0	−0·69	0	...	0	−0·6	6·5	+2·4	1	2	5	7	3	2	1	0	10	0	2	11	18	0	0	0	0	0	Cuddalore
1·7	−0·1	(a) 2·1	0·90	+0·63	0·90	31	1	+0·5	5·5	+2·4	0	0	1	3	3	2	0	0	22	0	3	11	9	6	0	0	0	1	Vellore
2·8	+0·7	1·9	0·04	−0·25	0·03	31	0	−0·4	8·5	+1·9	2	1	2	0	7	8	8	3	0	0	1	15	12	3	0	0	0	0	Madras
1·9	...	2·4	0·19	...	0·19	31	1	...	5·6	...	0	0	0	10	5	4	1	2	9	1	9	9	8	1	0	1	1	1	Arogyavaram

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in Millibars			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars			Relative humidity %		
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Malabar & South Kanara																						
Mangalore	72	1009·3	−0·2	1005·5	89·1	−0·5	94	5	76·3	+0·6	73	7	80·3	85·8	74·7	76·9	26·9	+0·3	27·5	76	+2	65
Kozhikode	27	1010·8	−0·1	1006·7	91·0	+0·9	93	28,29,31	76·5	+0·4	72	6	82·4	87·4	75·4	79·4	26·9	0·8	30·6	71	−5	69
Palghat	319	1001·2	...	995·6	99·2	...	102	15,19	76·4	...	69	1	82·3	94·7	74·3	75·1	25·4	...	20·9	67	...	39
Mysore																						
Chitaldrug	2,405	930·4	−0·7	926·2	93·7	−1·2	96	19,23,24	69·4	−1·0	62	7,8	75·2	91·7	64·2	66·5	16·0	−0·3	12·0	56	+6	24
Shimoga	1,872	948·7	...	943·4	95·5	...	97	10 days	64·7	...	53	7	70·9	93·1	65·9	67·5	19·7	...	12·6	77	...	26
Hassan	3,149	907·2	...	903·4	90·9	−0·7	94	22,23	63·7	+0·5	58	7,10	69·2	87·5	63·9	66·5	18·1	+0·2	13·3	75	+10	32
Bangalore	3,021	911·5	0	907·6	90·0	−0·3	94	22,23	66·3	+1·8	59	6	73·4	86·8	63·1	62·3	15·1	−2·6	8·2	56	−8	21
Mysore	2,518	927·5	−0·2	923·2	92·5	−1·2	96	22	67·6	0	62	1	72·5	91·0	66·2	65·3	19·4	−0·3	10·9	71	+4	23
Travancore-Cochin																						
Fort Cochin	10	1011·6	−0·1	1007·3	88·9	+1·0	92	17,28	78·1	+0·1	72	8	83·7	8[illegible]	76·6	78·2	28·1	+0·1	29·2	71	−4	68
Alleppey	12	1011·3	...	1007·3	91·8	...	97	6	76·7	...	72	4	85·3	87·4	8[illegible]·7	79·9	30·5	...	29·8	74	...	70
Trivandrum	211	1004·4	−0·1	1000·9	89·5	...	91	8 days	75·6	...	69	2	79·1	84·5	74·8	76·9	27·5	+0·4	28·1	81	+4	70
Nagercoil	195	1005·1	...	1001·5	94·2	...	98	28	77·8	...	70	1	84·2	8[illegible]·7	74·8	75·3	25·2	...	24·8	63	...	59
Hill Stations excluding Kashmir																						
Aijal	3,599	...	...	...	71·0	...	80	16,18	61·8	...	55	22,23	67·2	69·7	59·8	61·4	14·4	...	15·0	67	...	65
Shillong	4,921	850·7	0	848·3	72·0	+1·6	80	12	52·7	+1·9	46	1,3,15	64·2	63·3	51·7	53·1	8·1	−1·2	9·8	42	−3	50
Cherrapunji	4,309	870·4	+0·4	867·8	69·4	+0·7	75	10	55·3	+0·4	51	1,22,31	63·0	63·2	55·1	55·7	11·5	−0·7	12·0	63	+5	62
Darjiling	7,432	775·7	−0·3	773·3	59·0	+3·6	64	12,13	44·2	+1·2	38	24,31	52·1	49·8	[illegible]6·1	4[illegible]·7	8·5	−0·2	8·3	67	−2	70
Kalimpong	3,965	881·2	+1·0	878·9	70·1	+0·7	76	29	55·9	+1·3	47	31	60·5	64·9	54·0	[illegible]	11·7	−0·2	12·1	66	+4	60
Katmandu	4,388	868·3	...	864·9	79·1	+1·7	85	11,12	45·3	−0·1	40	23	56·4	67·7	49·9	[illegible]	9·6	+0·2	8·9	62	−4	41
Mukteswar (Kumaon)	7,592	772·3	−0·2	770·9	60·3	+1·0	69	5	43·6	+1·0	35	19,20,26	48·9	53·2	39·4	42·2	4·9	−0·4	5·9	46	+2	47
Mussooree	6,699	797·0	...	796·0	60·7	+1·[illegible]	73	7	45·1	+0·3	35	26	51·2	5[illegible]·0	43·4	45·9	6·6	+0·5	8·1	56	+8	61
Simla	7,224	781·7	+0·4	780·9	56·5	−0·5	66	4	47·0 (h)	+3·4	38	12	49·8	50·9	39·5	42·0	4·5	−0·2	5·9	41	+5	50
Dharamshala	3,974	884·8	...	883·1	69·1	...	77	7	54·2	...	45	26	61·5	64·2	55·4	61·3	12·3	...	17·1	69	...	75
Abu	3,945	881·8	+0·3	879·8	76·1	−0·5	84	5	60·1	−0·9	52	26	66·5	73·1	50·6	53·1	6·2	−1·4	5·8	29	−6	21
Pachmarhi	3,528	895·5	−0·2	892·7	84·5	+0·4	91	8	59·5	+0·1	52	1	67·[illegible]	80·8	56·3	59·5	11·2	+1·6	8·9	51	+14	26
Mahabaleshwar	4,534	864·1	0	862·5	83·2	+0·8	88	3,5	64·0	+1·4	55	31	68·1	76·5	54·6	62·8	9·2	+0·7	14·0	40	+3	46
Mercara	3,781	886·8	−0·3	883·9	83·7	−0·5	87	16	61·5	−0·1	57	1	68·6	80·3	61·7	65·6	16·0	−0·6	15·6	68	−1	46
Kodaikanal	7,688	772·7	+0·5	771·3	66·0	−0·2	70	21	50·1	−0·1	45	4	56·5	58·6	48·7	53·5	9·0	+1·1	12·2	60	+14	73
Ootacamund	7,364	781·4	+0·1	779·8	72·1	+2·1	75	9,15	46·6	−1·3	40	1,11	56·0	65·1	48·2	55·0	8·7	+0·2	11·2	58	+8	55
Coonoor	5,730	828·1	...	...	68·1	−4·8	74	6	50·5	−1·8	47	1,2,6	66·8	...	56·8	...	12·2	+0·8	...	52	−3	...
Tibet																						
Lhasa	12,090	652·5	...	...	56·8	...	68	2	28·3	...	19	9	40·9	...	37·8	...	6·8	...	...	79	...	...
Gyantse	13,110	623·6	...	...	52·5	+2·8	65	5	21·4	+3·0	16	4	39·3	...	32·9	...	4·3	+0·2	...	55	+12	...
Ceylon																						
Colombo	24	1010·9	0	1007·6	87·6	−1·3	90	6,31	73·7	−0·5	68	2	79·2	83·3	75·5	76·8	28·5	+0·6	28·5	83	4	73
Trincomalee	24	1011·3	+0·9	1008·1	85·4	−2·6	89	24	76·4	+0·3	71	1,2	80·0	82·2	75·8	76·2	28·5	0	28·1	82	−1	75
Batticaloa	20	1011·7	...	1008·6	85·3	...	93	23,25	75·2	...	69	2	79·9	82·5	76·2	77·0	29·2	...	29·2	84	...	77
Hambantota	61	1009·4	−0·1	1006·4	86·5	−0·4	91	26	74·0	0	67	2	79·5	82·6	75·5	77·3	28·3	+1·5	29·6	82	2	78
Mannar	12	1011·8	...	1008·0	88·3	...	92	19	75·7	...	68	2	79·5	85·3	76·0	77·8	29·1	...	29·1	85	...	70

(h) Mean of 23 days.

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0.10" or more)		Wind velocity, miles per hour		Wind direction—Number of Winds from :—																		STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Malabar & South Kanara
2·2	+0·4	2·1	0	−0·21	0	...	0	−0·3	4·9	0	0	2	27	2	0	0	0	0	0	1	0	0	0	0	4	14	12	0	Mangalore
2·3	+0·2	3·2	0	−0·68	0	...	0	−0·8	8·0	+1·4	2	13	13	1	1	1	0	0	0	0	0	0	0	0	3	15	13	0	Kozhikode
1·8	...	2·6	0	...	0	...	0	...	5·4	...	0	0	18	1	0	2	8	1	1	0	0	14	1	0	4	11	1	0	Palghat
																													Mysore
2·3	+1·0	3·1	0·62	+0·45	0·59	28	1	−0·6	5·8	+1·9	0	0	4	5	1	6	12	0	3	0	1	14	3	1	3	7	2	0	Chitaldrug
2·7	...	3·3	0·69	...	0·47	27	2	...	3·3	...	0	0	0	6	7	5	1	1	11	0	5	8	5	1	4	5	1	2	Shimoga
1·5	0	2·9	0·03	−0·29	0·26	25	0	−0·6	4·8	+1·6	1	0	5	4	1	3	6	1	10	1	0	11	6	1	1	9	0	2	Hassan
1·3	−0·1	2·2	0·03	−0·37	0·03	30	0	−0·8	6·5	+2·0	0	0	6	5	4	6	2	1	7	2	5	10	9	1	0	1	2	1	Bangalore
1·6	−0·4	2·8	0·43	−0·08	0·43	26	1	−0·2	(e) 5·3	+0·7	0	4	3	2	4	2	9	0	7	0	10	13	1	1	0	3	0	3	Mysore
																													Travancore-Cochin
5·3	+3·3	5·8	1·93	−0·08	0·57	28	4	+1·2	6·3	+0·8	0	14	15	2	0	0	0	0	0	0	0	0	0	0	5	20	6	0	Fort Cochin
3·9	...	3·1	4·88	...	2·30	29	3	...	7·1	...	0	8	14	9	0	0	0	0	0	0	0	0	0	0	3	18	10	0	Alleppey
1·7	−0·5	4·3	3·14	+1·60	0·97	13	5	+2·5	4·0	+0·2	6	11	2	4	0	0	0	5	3	0	2	1	1	5	15	5	2	0	Trivandrum
3·3	...	4·9	0·57	...	0·56	28	1	...	7·3	..	1	9	9	0	0	2	4	3	3	0	3	9	2	0	9	6	1	1	Nagercoil
																													Hill stations excluding Kashmir
2·2	...	2·7	2·15	...	0·67	30	6	...	8·2	...	0	0	4	6	3	10	7	1	0	0	0	2	2	0	15	10	1	1	Aijal
2·8	+0·9	4·3	1·30	−0·67	0·56	26	3	−0·9	5·3	+1·1	0	0	0	0	6	20	3	0	2	0	0	0	0	3	21	3	0	4	Shillong
3·7	+0·7	2·6	7·67	+0·30	2·30	30	6	−1·1	9·1	+2·5	0	7	2	1	2	17	2	0	0	0	1	0	0	0	28	2	0	0	Cherrapunji
4·1	+1·1	4·7	3·10	+1·22	2·87	31	2	−1·6	(b) 6·5	+1·5	2	2	13	4	0	0	8	1	0	0	1	0	0	0	9	21	0	0	Darjiling
0·8	−1·0	2·1	1·51	+0·30	1·35	31	2	−1·0	7·3	−0·4	0	0	0	1	0	0	0	21	9	1	0	0	28	1	0	0	0	1	Kalimpong
2·7	−0·3	4·3	1·08	+0·49	0·84	31	2	+0·3	1·1	−0·3	1	1	1	1	0	0	0	0	27	1	0	1	0	4	1	0	1	23	Katmandu
4·0	+1·4	4·5	2·15	+0·25	0·52	26	6	+1·9	8·9	+2·6	0	4	5	2	0	1	9	7	3	0	1	1	1	0	8	15	5	0	Mukteswar (Kumaon)
4·4	+1·4	5·0	3·45	+1·20	1·34	26	6	+2·3	5·5	+0·8	8	7	0	3	3	1	0	0	9	2	2	0	4	13	7	0	0	3	Mussooree
4·7	+1·5	4·9	4·48	+2·12	1·77	25	5	+0·3	3·3	−0·7	4	5	0	5	8	1	0	0	8	3	2	1	4	10	6	0	1	4	Simla
3·8	...	4·1	4·14	...	1·98	25	6	...	4·9	...	1	6	2	0	1	1	2	3	15	2	3	6	1	4	7	5	2	1	Dharamshala
3·8	+2·3	3·9	0·23	+0·06	0·23	26	1	+0·5	4·2	−0·9	4	3	0	0	1	4	4	2	13	2	0	0	0	1	5	8	3	12	Abu
3·8	+2·2	4·4	0·41	−0·15	0·25	14	1	−0·3	2·8	−0·7	1	1	0	1	8	4	2	3	11	7	6	0	1	0	1	9	4	3	Pachmarhi
1·6	+0·9	2·5	0	−0·17	0	...	0	−0·4	5·8	−0·8	5	6	11	2	1	1	1	3	0	1	2	1	0	0	5	14	8	0	Mahabaleshwar
1·8	−0·8	2·6	2·17	+1·41	1·02	28	3	+1·4	4·7	+1·6	0	2	2	0	0	0	3	4	20	0	3	4	0	0	0	10	11	3	Mercara
2·1	+0·4	5·1	6·87	+5·05	3·11	26	6	+2·9	8·9	+0·7	2	10	4	13	0	0	0	2	0	0	0	1	22	2	0	0	0	6	Kodaikanal
1·4	−0·3	2·5	0·55	−0·73	0·41	29	1	−1·6	1·5	−1·8	1	7	2	1	0	1	0	0	19	1	3	3	2	1	0	0	0	21	Ootacamund
2·4	+0·2	...	6·77	+3·53	6·20	26	3	+0·2	3·9	+0·4	2	2	0	13	9	4	1	0	0	...	...	...	...	...	...	...	...	...	Coonoor
																													Tibet
2·5	...	...	0	...	0	...	0	...	0·2	...	0	0	0	0	0	1	0	0	30	...	...	...	...	...	...	...	...	...	Lhasa
1·2	−0·2	...	0	−0·13	0	...	0	−0·5	5·4	+0·2	0	1	10	8	1	0	0	0	11	...	...	...	...	...	...	...	...	...	Gyantse
																													Ceylon
2·5	−1·2	4·9	6·13	+1·85	2·22	20	11	+4·9	...	...	0	7	9	8	4	1	0	0	2	0	1	1	0	2	10	11	5	1	Colombo
4·1	+1·1	3·5	2·02	+0·06	0·77	31	4	+1·3	...	...	0	6	2	2	3	7	0	0	11	3	10	14	2	0	0	0	0	2	Trincomalee
3·6	...	4·5	4·91	...	2·65	28	6	...	...	...	0	4	3	1	0	3	7	5	8	1	14	10	6	0	0	0	0	0	Batticoloa
3·6	+0·6	5·3	1·40	−2·06	0·95	28	3	−2·0	...	...	20	8	0	0	0	1	1	1	0	1	1	15	4	1	3	0	0	0	Hambantota
2·5	...	3·5	2·81	...	1·41	25	4	...	...	...	0	7	7	8	7	1	0	0	1	10	8	4	0	0	6	1	2	0	Mannar

(b) Mean of 29 days. (e) Mean of 26 days.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 4TH CLASS STATIONS—MARCH 1951

STATION	Maximum temperature °F.				Minimum temperature °F.				Mean Dry bulb temperature 0830 hrs. I. S. T. °F.	Mean Wet bulb temperature 0830 hrs. I. S. T. °F.	Vapour pressure Millibars		Relative humidity %		Mean Cloud Amount 0830 hrs. I. S. T.	Rainfall, inches				Number of rainy days (0.10" or more)		Wind	
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date			Mean 0830 hrs. I.S.T.	Departure from normal	Mean 0830 hrs. I.S.T.	Departure from normal		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Resultant Direction 0830 hrs. I.S.T.	Velocity in
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Assam																							
Lumding	90.2	+4·0	97	13	59·1	+0·9	49	2	75·0	64·5	16·0	−2·1	54	−22	...	0·41	−1·39	0·30	30	1	−3·3	...	
Jammu and Kashmir																							
Jammu	79·8	+0·9	85	4 days	56·0	−3·3	53	4 days	61·9	55·5	12·1	−1·6	64	+12	3·8	2·35	+0·32	0·82	26	4	+0·3	N33E	
Kargil (R)																							
Mysore																							
Balehonnur	89·3	+1·8	92	16,17	63·8	+1·0	59	1	68·9	64·3	18·7	+0·3	79	0	...	0·53	−0·71	0·31	29	2	+0·2	...	
Nandi Hills	79·2	..	85	19	62·1	...	56	2	68·6	60·0	14·2	...	58	...	1·9	1·40	...	1·40	31	1	...	S75E	
Sikkim																							
Lachen	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7·65	...	1·20	21	16	...	...	
Tibet																							
Yatung (Chumbi)	55·4	+3·8	65	9	29·0	+1·5	22	22	40·5	38·6	7·3	+1·3	86	+2	0·2	2·73	+0·67	0·81	31	6	+0·6	..	

(R) Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 5TH CLASS STATIONS—MARCH 1951

Division	Station	Rainfall, inches				Number of rainy days (0.10" or more)		Division	Station	Rainfall, inches				Number of rainy d (0.10" or m	
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal			Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	
Assam	Mawsynram	4·40	...	1·20	20	7	...	Jammu & Kashmir	Sonamarg	9·67	−3·74	3·07	9	9	--
West Bengal	Bankura	1·64	+0·55	0·92	25	4	+2·1		Gurez	5·80	−3·32	1·50	8	12	+
Bihar	Muzaffarpur	0	−0·38	0	...	0	−0·9	Deccan (Desh)	Khandala	0·05	+0·05	0·05	26	0	
	Chapra	0·30	−0·06	0·24	26	1	+0·1	Sikkim	Thangu	5·28	...	0·83	25,26	12	
	Arrah	0·52	+0·14	0·21	23	3	+2·1		Lachung (R)						
Punjab (I)	Dalhousie	3·66	+0·21	1·28	25	6	+0·1		Chungthang	9·25	...	1·75	22	13	
	Kyelang	1·97	−1·87	0·39	24	8	+0·5								
	Gondla	2·80	...	0·59	9,24	8	...								
	Koksar	5·26	...	1·42	10	11	...								
	Kothi	6·70	...	1·35	9	10	...								
	Dharampore	4·09	+2·20	2·10	25	5	+2·1								
	Kharsali	0·57	...	0·21	25	2	...								
	Rana	3·35	...	0·90	25	7	...								
	Jamuna Chetty	2·84	...	0·81	25	6	...								

(R) Register not received.

RADIO SONDE DATA

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

(From Ascents at 15 hrs. G. M. T.)

MARCH 1951

Standard Pressure Surface mbs.	ALLAHABAD (Sur. Pr. 998 mb.)						CALCUTTA (1009 mb.)						JODHPUR (985 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	98	297·8	301	291	281·6	31	7	299·4	302	295	290·7	31	218	300·0	303	292	280·2
1000	31	84	...	...	...	...	31	89	...	...	...	...	30	81	...	...	...	...
900	31	1007	295·5	301	290	274·5	31	1016	295·8	302	291	279·2	30	1006	294·9	300	285	276·1
850	31	1501	291·2	296	287	273·0	29	1506	291·3	297	285	276·8	31	1499	289·4	294	285	274·1
800	31	2014	286·5	292	281	268·2	29	2023	286·1	292	281	273·9	31	2011	284·3	291	279	279·1
700	31	3122	277·2	283	271	266·0	29	3128	277·9	284	274	267·0	31	3105	274·1	279	268	268·6
600	30	4351	262·6	273	258	260·0	26	4361	268·8	273	264	260·5	30	4331	265·4	270	259	...
500	28	5756	257·1	263	248	...	26	5772	259·2	263	252	...	30	5722	255·7	262	249	...
400	28	7400	245·5	251	238	...	23	7428	247·9	252	244	...	29	7357	244·0	253	234	...
300	27	9399	230·3	237	219	...	18	9453	233·6	240	228	...	27	9353	229·3	238	219	...
250	20	10611	222·7	228	213	...	14	10696	226·1	232	218	...	23	10560	221·1	233	209	...
200	13	12040	214·3	222	204	...	7	12143	216·0	222	210	...	10	11925	212·0	217	201	...
175	5	12972	212·6	218	204	...	5	12986	211·6	216	205	...	5	12778	211·4	215	200	...
150																		
125																		
100																		
80																		

	MADRAS (1008 mb.)						NAGPUR (974 mb.)						NEW DELHI (985 mb.)					
Surface	31	15	300·1	302	298	295·7	31	307	300·9	307	293	283·2	31	213	296·5	300	291	282·8
1000	31	90	...	...	...	...	31	73	...	...	...	...	29	81	...	...	...	...
900	31	1018	296·9	301	293	280·5	31	1002	299·0	305	291	281·7	30	1005	294·3	298	285	277·0
850	31	1513	294·6	299	290	277·4	31	1503	296·0	302	290	279·1	30	1492	290·3	294	285	273·9
800	31	2037	291·2	295	288	275·5	31	2029	291·6	297	287	277·6	30	2009	285·3	291	277	271·2
700	31	3166	284·1	286	282	266·5	31	3155	281·7	286	277	273·4	30	3110	276·6	281	274	265·3
600	30	4436	276·7	279	274	261·0	31	4411	271·6	278	267	264·7	30	4341	268·8	275	261	...
500	30	5895	267·8	271	266	...	30	5846	263·2	267	257	...	30	5745	257·4	262	252	...
400	29	7611	257·4	263	254	...	30	7536	252·7	261	245	...	30	7389	245·1	251	234	...
300	27	9718	243·4	250	239	...	29	9602	237·2	248	229	...	29	9371	230·6	241	220	...
250	24	11000	234·1	241	230	...	26	10839	228·9	244	221	...	29	10618	223·4	234	212	...
200	19	12499	223·6	227	215	...	22	12291	219·8	226	212	...	29	12054	217·1	229	206	...
175	13	13366	216·7	221	211	...	19	13121	215·0	220	208	...	19	12897	215·6	225	204	...
150	10	14329	210·4	214	204	...	20	14108	210·0	215	203	...	13	13863	215·1	221	210	...
125							8	15200	205·5	211	201	...	7	15036	211·8	216	206	...
100							5	16566	203·2	209	198	...						
80																		

RADIO SONDE DATA
MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
(From Ascents at 15 hrs. G. M. T.)
MARCH 1951

Standard Pressure Surface mbs.	POONA (Sur. Pr. 948 mb.)						PORT BLAIR (1009 mb.)						TRIVANDRUM (1003 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	557	300·7	303	296	286·5	30	21	300·2	302	299	294·9	31	64	300·3	302	298	296·6
1000	31	83	...	...	...	...	30	99	...	...	...	...	31	88	...	...	...	...
900	31	1013	299·1	304	292	282·6	30	1023	294·2	299	285	286·8	31	1015	295·1	298	293	290·6
850	31	1510	295·6	301	290	276·7	29	1517	294·7	298	289	283·6	31	1510	292·6	295	289	287·8
800	31	2037	293·9	297	286	274·0	29	2039	289·6	297	286	278·6	31	2033	289·7	293	288	283·6
700	31	3163	283·0	290	280	267·8	29	3164	284·1	287	281	267·8	31	3160	284·3	289	281	271·9
600	31	4423	274·2	280	271	260·9	29	4434	277·3	282	273	258·0	31	4433	277·4	282	274	266·2
500	30	5861	264·7	269	261	...	29	5890	268·3	274	264	...	31	5892	268·7	272	265	...
400	29	7559	256·5	260	250	...	29	7609	257·3	261	250	...	31	7616	258·4	263	255	...
300	28	9640	240·5	250	235	...	26	9714	247·8	250	235	...	30	9729	244·1	252	240	...
250	23	10922	233·3	243	228	...	20	11016	234·3	240	229	...	30	11008	234·8	242	231	...
200	20	12412	224·5	229	217	...	12	12538	224·6	232	219		28	12513	224·1	230	217	...
175	15	13299	218·3	224	210	...	5	13349	217·4	221	213		25	13362	217·9	223	211	...
150	14	14315	213·2	220	208	...							21	14351	210·5	215	205	...
125	11	15385	209·1	214	204	...							13	15432	203·9	210	198	...
100	7	16554	203·3	209	200	...							6	16739	196·2	201	190	...
80																		

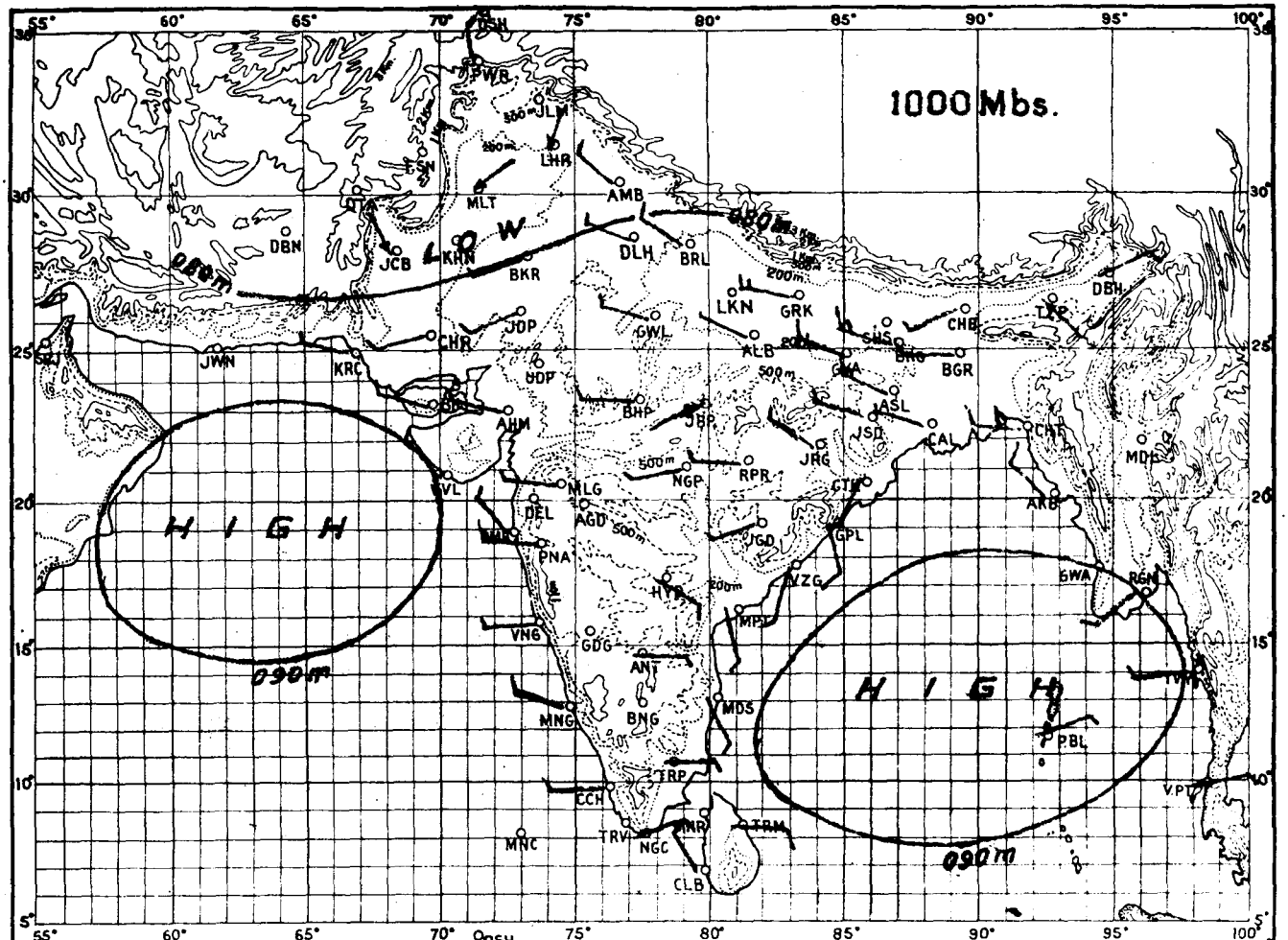
Standard Pressure Surface mbs.	VERAVAL (1009 mb.)						VISAKHAPATNAM (1004 mb.)					
Surface	31	8	298·0	300	296	294·0	31	47	299·9	302	298	295·0
1000	31	90	...	...	...	...	31	84	...	...	...	...
900	31	1016	296·9	301	290	279·0	31	1013	297·2	303	291	281·6
850	31	1511	293·5	298	287	277·7	31	1511	294·8	299	289	280·3
800	31	2033	289·2	294	284	275·4	31	2035	291·6	296	285	277·0
700	31	3153	280·9	283	277	270·4	30	3760	283·5	287	279	271·7
600	31	4408	273·3	278	269	262·9	29	4426	274·9	279	271	262·9
500	31	5846	264·2	268	257	...	29	5874	266·5	271	263	260·0
400	31	7544	254·4	260	248	...	29	7580	255·0	265	250	...
300	21	9625	238·7	244	232	...	25	9664	240·5	251	230	...
250	14	10887	230·8	236	225	...	18	10920	232·6	236	227	...
200	11	12362	221·4	226	217	...	12	12402	223·4	229	220	...
175	8	13232	217·7	223	213	...	7	13261	218·0	222	216	...
150	8	14223	213·1	217	209	...	5	14249	213·4	218	209	...
125	7	15335	210·0	215	203	...						
100	5	16749	208·6	211	206	...						
80												

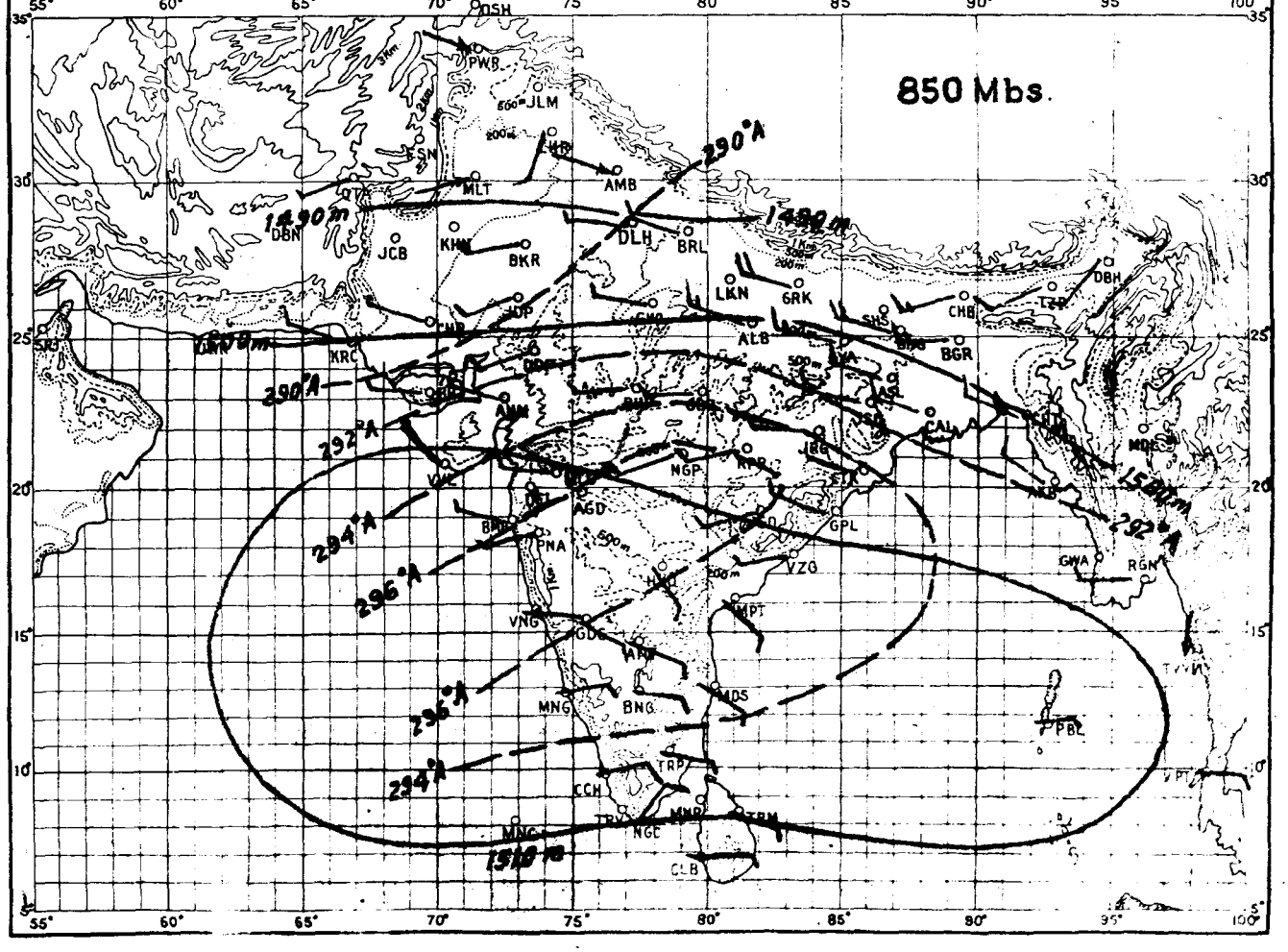
NOTE.—Number of observations refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature le than 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

GIPN S1—3 DDGM Poona—19 8-52—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

MARCH 1951



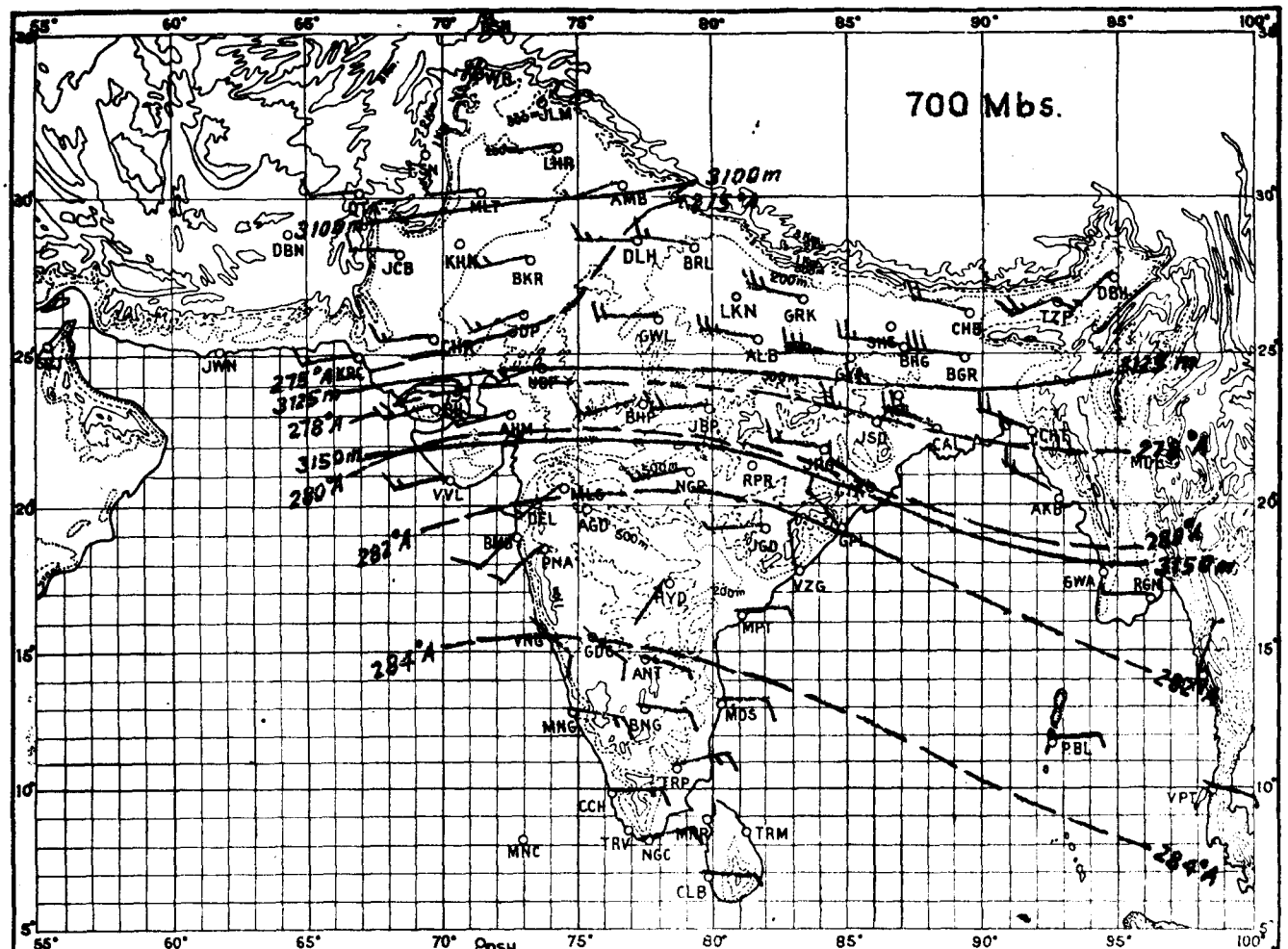


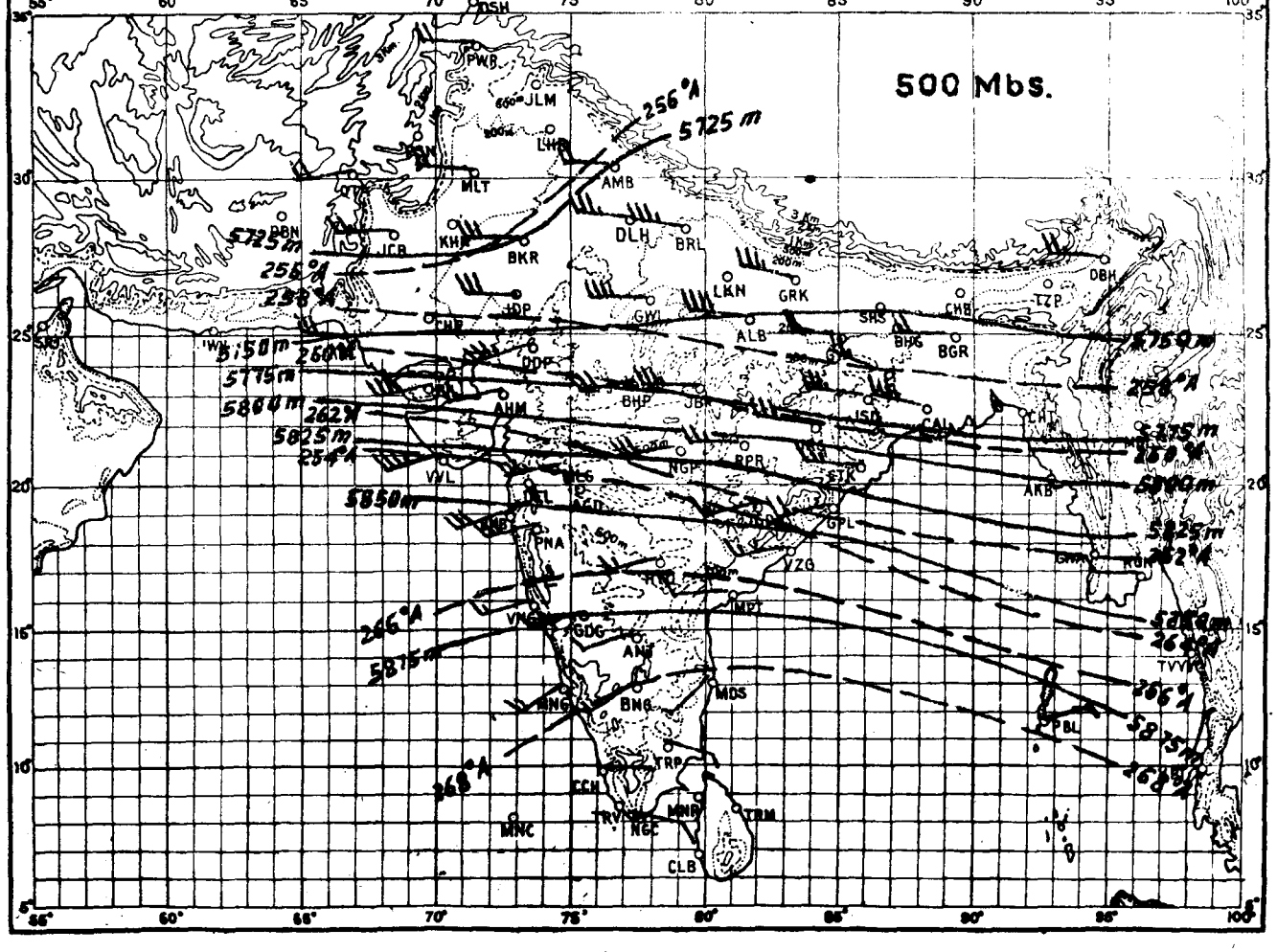
RESULTANT WIND —— = 5 Knots, —— = 10 Knots, —— = 50 Knots.

— — — Isotherms in degrees Absolute —— Contours in geopotential Metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

MARCH 1951





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

G.P.Z.F. POONA, 1951.

- - - - *Isotherms in degrees Absolute* ——— *Contours in geopotential Metres*

Registered No. B-3097.

INDIA WEATHER REVIEW, 1951

Monthly Weather Report

April

Published by authority of the Government of India

Chief features.—(1) The formation and movement of a deep depression in the Arabian Sea, (2) good thunderstorm activity in Assam towards the end of the month, and (3) unusually low day temperatures over the country.

Four western disturbances affected the country during the month. The first one appeared over Baluchistan on the 29th March and moving eastnortheastwards became unimportant over north Madhya Bharat by the 2nd April. The second disturbance rapidly moved across the North-West Frontier Province and Kashmir on the 2nd April. In association with these disturbances, widespread or local thundershowers occurred in the Punjab (I) and west Uttar Pradesh between the 1st and 4th April. Thundershowers also occurred locally in east Uttar Pradesh and at a few stations in Vindhya Pradesh and north Madhya Bharat on the 3rd.

The third western disturbance of the month moved from Baluchistan to the hills of the Punjab (I) between the 5th and 8th and caused widespread thundershowers in the hills of the Punjab (I) and scattered dust or thunderstorms in north Rajasthan and the plains of the Punjab (I) on the 7th. The last disturbance appeared over Baluchistan on the 21st and moved into north Rajasthan and the southern districts of the Punjab (P) on the 23rd and persisted there till the 29th after which it became unimportant. It caused a few thundershowers in the Punjab (I) on the 27th and scattered dust or thunderstorms in Rajasthan between 25th and 27th.

There was an incursion of moist air from the Bay of Bengal into the eastern half of the Peninsula, the central parts of the country and northeast India in the beginning of the month and consequently most parts of these areas experienced moderate thunderstorm activity during the first ten days of the month.

Conditions became markedly unsettled in the East Arabian Sea in the Laccadives-Maldives region by the morning of the 14th. A depression formed on the 18th evening with its centre near Lat. 12°N., Long. 61½°E. and it became deep by the next morning when its central region was near Lat. 13°N., Long. 60°E. The deep depression moved slowly northnorthwestwards and on the 20th evening its centre lay near Lat. 14°N., Long. 59½°E. Thereafter, it gradually weakened into a trough of low pressure without appreciable movement and became unimportant on the 24th. In association with these developments widespread thundershowers occurred in Tamilnad, Travancore-Cochin and Malabar and south Kanara between 12th and 15th, while local or scattered thundershowers occurred in the Peninsula outside Gujarat, Saurashtra and Kutch during the next seven days.

There was very little thunderstorm activity in northeast India outside Assam and in the central parts of the country during the last three weeks of the month. However, widespread or local thundershowers occurred in Assam during the last twelve days of the month, some of the thunderstorms being accompanied by hail. According to newspaper reports, the hailstorms caused some damage to property in and around Gauhati.

Day temperatures were unusually low over most of the country during the first half of April and again between the 19th and 24th. They were as much as 6° to 12°F below normal in northwest India, Uttar Pradesh and the central parts of the country on a number of days.

Total rainfall for the month was in large excess in west Rajasthan, east Madhya Pradesh, Saurashtra and Kutch, Rayalaseema and Tamilnad, in moderate excess in Orissa, Chota Nagpur, the Punjab (I) and coastal Andhradesa, in slight excess in Assam, west Uttar Pradesh and Malabar and south Kanara, and normal in the Konkan, north Hyderabad, Mysore and Travancore-Cochin. It was in slight defect in the Bay Islands, Bihar, Vindhya Pradesh, west Madhya Pradesh and south Hyderabad and in moderate to large defect elsewhere over the country except in Gujarat where there was no rain. Averaged over the plains of India, the rainfall for the month was 27% in excess.

JUN 15

Maximum temperature was normal in the Bay Islands, Assam, West Bengal, Bihar, the Konkan, coastal Andhradesa, Malabar and south Kanara and Travancore-Cochin and below normal elsewhere. Minimum temperature was normal throughout the country except in Assam, the Punjab (I) and west Rajasthan, where it was below normal.

Relative humidity was in excess in Chota Nagpur, west Uttar Pradesh, the Punjab (I), west Rajasthan, Vindhya Pradesh, Madhya Pradesh and Gujarat and normal over the rest of the country except in the Bay Islands where it was in defect.

Total cloud amount was in defect in West Bengal and west Rajasthan and normal in Assam, Orissa, Bihar, west Uttar Pradesh, the Punjab (I), east Rajasthan, Vindhya Pradesh, and coastal Andhradesa. It was in excess elsewhere over the country.

Data from Jammu and Kashmir are not available.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amounts for the 13 chief political divisions and the 26 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 fall 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;
Dated the 30*th July* 1951.

S. BASU,
for Director-General of Observatories.

	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—									
1. Assam (including Manipur and Tripura).	8·98	7·93	+1·05	+13	−0·6	−2·0	−1·4	0	+0·1
2. West Bengal .	0·85	2·08	−1·23	−59	0	−0·3	−2·7	−5	−0·6
3. Orissa . .	1·27	0·95	+0·32	+34	−2·9	−1·0	+0·7	+3	+0·3
4. Bihar . .	0·66	0·59	+0·07	+12	−1·7	−0·9	−0·4	+1	+0·2
5. Uttar Pradesh .	0·30	0·31	−0·01	−3	−3·1	−0·9	−0·4	+3	+0·2
6. Punjab (I) (including PEPSU and Delhi).	0·68	0·47	+0·21	+45	−4·8	−2·6	+1·1	+10	−0·1
7. Rajasthan .	0·25	0·18	+0·07	+39	−3·3	−1·9	+0·4	+5	−0·4
Sub-Division—									
1. Bay Islands	1·80	2·36	−0·56	−24	+1·6	+0·9	−0·3	−7	+1·3
2. Assam (including Manipur and Tripura).	8·98	7·93	+1·05	+13	−0·6	−2·0	−1·4	0	+0·1
3. West Bengal .	0·85	2·08	−1·23	−59	0	−0·3	−2·7	−5	−0·6
4. Orissa . .	1·27	0·95	+0·32	+34	−2·9	−1·0	+0·7	+3	+0·3
5. Chota Nagpur .	1·11	0·76	+0·35	+46	−3·2	−1·5	+0·9	+6	+0·4
6. Bihar . .	0·41	0·50	−0·09	−18	−0·1	−0·2	−1·7	−3	0
7. Uttar Pradesh, East.	0·20	0·28	−0·08	−29	−2·2	−0·1	−1·2	0	+0·4
8. Uttar Pradesh, West.	0·40	0·35	+0·05	+14	−4·0	−1·7	+0·4	+6	+0·1
9. Punjab (I) (including PEPSU & Delhi).	0·68	0·47	+0·21	+45	−4·8	−2·6	+1·1	+10	−0·1
10. Jammu & Kashmir.	Data incomplete.								
11. Rajasthan, West	0·36	0·19	+0·17	+89	−3·3	−2·1	+3·0	+9	−0·7
12. Rajasthan, East (including Ajmer)	0·13	0·18	−0·05	−28	−3·4	−1·7	−1·6	+1	−0·2
13. Madhya Bharat .	0·02	0·19	−0·17	−89	−3·0	−0·7	−0·3	+5	+0·5
14. Vindhya Pradesh	0·23	0·30	−0·07	−23	−2·6	−1·2	+1·8	+7	+0·1

	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—*contd.*									
8. Madhya Bharat & Vindhya Pradesh	0·11	0·24	−0·13	−54	−2·8	−0·9	+0·6	+6	+0·3
9. Madhya Pradesh.	1·22	0·60	+0·62	+103	−3·8	−0·2	+3·9	+13	+0·8
10. Bombay (including Saurashtra and Kutch).	0·27	0·44	−0·17	−39	−2·9	−0·1	+0·2	+3	+0·6
11. Hyderabad .	0·68	0·77	−0·09	−12	−2·6	+0·2	−0·4	+2	+0·9
12. Madras (including Travancore-Cochin)	3·06	1·55	+1·51	+97	−2·5	+0·1	+0·1	+3	+1·5
13. Mysore . .	2·30	2·13	+0·17	+8	−2·6	+0·3	−0·1	+4	+2·2
Mean of India . .	1·30	1·02	+0·28	+27	−2·8	−0·7	+0·5	+4	+0·5
Sub-Division—*contd.*									
15. Madhya Pradesh, East	2·73	1·07	+1·66	+155	−4·7	−0·6	+4·6	+15	+0·5
16. Madhya Pradesh, West	0·27	0·31	−0·04	−13	−3·2	0	+3·4	+12	+1·0
17. Gujarat . .	0	0·03	−0·03	−100	−4·5	−0·5	+1·0	+9	+0·6
18. Saurashtra and Kutch.	0·09	0·04	+0·05	+125	−3·4	−0·6	−0·7	+1	+0·7
19. Konkan . .	0·55	0·53	+0·02	+4	−0·5	−0·2	0	0	+0·8
20. Deccan (Desh) .	0·38	0·80	−0·42	−53	−2·7	+0·5	+0·5	+4	+0·6
21. Hyderabad, North	0·68	0·65	+0·03	+5	−2·9	+0·1	0	+4	+0·8
22. Hyderabad, South	0·69	0·89	−0·20	−22	−2·3	+0·3	−0·7	0	+1·1
23. Coastal Andhradesa	0·98	0·75	+0·23	+31	−1·6	+0·4	+0·3	+3	+0·5
24. Rayalaseema .	1·29	0·68	+0·61	+90	−3·8	−0·5	−0·3	+3	+2·3
25. Tamilnad .	4·73	1·55	+3·18	+205	−3·2	+0·2	−0·1	+2	+1·7
26. Malabar & South Kanara	2·83	2·55	+0·28	+11	−1·0	−0·5	+0·2	+3	+1·9
27. Mysore . .	2·30	2·13	+0·17	+8	−2·6	+0·3	−0·1	+4	+2·2
28. Travancore-Cochin	4·75	4·75	0	0	−1·0	0	+0·4	+4	+2·1

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bay Islands																						
Port Blair	259	1002·4	+0·4	999·5	90·7	+1·6	93	11,14	75·6	+0·9	73	26	86·7	82·5	78·0	76·6	29·1	—0·3	28·7	66	—7	7
Assam																						
Dibrugarh	348	998·2	—0·8	993·9	78·5	—2·5	92	10	64·1	—1·7	59	1	69·6	72·9	65·5	67·8	19·7	—2·0	21·0	81	+2	7
Mohanbari (R)	364																					
Sibsagar	317	999·4	—0·3	994·9	80·4	—1·2	93	10	64·4	—1·6	60	2	71·4	74·3	67·3	69·4	21·1	—1·3	22·2	81	0	7
Tezpur	258	1001·0	—0·8	995·7	85·6	+0·5	95	9,10	66·4	—1·5	61	2	73·4	79·4	66·7	68·9	19·6	—2·2	19·4	71	—3	5
Gauhati D.Type.	162	1003·3	...	997·9	88·0	...	101	9,10	65·3	...	58	1	76·6	82·0	68·1	69·7	19·6	...	19·2	65	...	5
Gauhati	182	1003·1	—0·5	996·7	87·6	0	99	9	65·7	—2·2	61	1,11,21	74·2	82·1	66·9	69·9	19·0	—3·4	19·7	69	—4	5
Dhubri	115	1005·3	—0·2	999·5	89·5	+1·3	100	9	68·7	—1·4	62	21	76·7	83·6	68·1	70·7	19·7	—3·0	19·7	65	—6	5
Silchar B	96	1007·2	—0·4	1002·1	84·6	—3·4	93	9,10	67·2	—1·6	62	22,23	73·6	79·7	69·5	72·2	22·9	—1·4	23·6	81	+6	6
Tura	1,215	967·9	...	963·8	90·3	...	97	18	70·9	...	60	21	78·7	84·9	68·5	70·0	19·2	...	18·3	57	...	
West Bengal																						
Dum Dum	33	1007·1	...	1002·7	96·9	...	104	17	76·8	...	69	11	85·5	89·9	75·4	75·7	25·5	...	24·2	61	...	
Calcutta	21	1007·7	—0·1	1003·3	97·2	+0·4	105	17	77·1	+1·6	68	2	85·3	89·3	76·3	76·9	26·9	—1·9	25·9	65	—8	
Saugor Island	10	1008·3	—0·1	1004·5	87·3	—2·4	92	9	80·2	+0·8	75	1,19	84·3	83·7	78·3	78·1	30·3	—0·5	30·4	76	+2	
Sandheads	32	1007.9	—0·7	1004·2	...	...	...	...	...	...	...	...	82·9	83·1	78·7	78·9	31·9	0	32·1	82	+4	
Midnapore	149	1008·3	+0·1	998·9	98·6	—2·3	107	4 days	74·6	—1·6	67	2,13	85·1	90·4	73·9	73·4	23·8	—2·1	20·4	59	—5	
Contai	35	1006·8	...	1002·7	92·0	...	101	14	77·6	...	72	1,13	84·2	84·6	76·9	77·6	28·0	...	29·2	71	...	
Burdwan	106	1003·8	—0·7	999·3	99·3	—0·4	106	4 days	74·9	—0·1	69	11	83·5	95·4	72·1	70·0	21·6	—4·6	13·4	57	—11	
Krishnagar	48	1006·4	—0·2	1001·6	101·0	+2·1	108	17,18	73·1	—1·1	64	11	83·9	93·5	75·2	73·7	26·2	—0·6	19·2	66	+1	
Asansol	414	993·6	—0·1	988·7	101·8	0	109	17,30	75·0	+0·8	68	1,21	87·5	97·1	69·9	71·8	17·2	—3·5	14·9	39	—11	
Berhampore	62	1005·8	—0·4	1000·5	100·9	+1·9	108	17,28	73·5	—0·5	64	13	84·1	94·7	71·7	70·6	20·8	—4·2	14·8	53	—11	
Malda	103	1004·2	—0·3	998·9	97·9	+0·4	105	18,29	70·9	—0·4	63	1,11,21	83·5	93·1	71·1	72·5	20·2	—2·4	18·0	53	+3	
Cooch Behar	145	1004·0	...	998·1	89·8	...	97	7,10	66·1	...	59	12	76·7	84·1	67·1	71·0	18·5	...	20·1	59	...	
Jalpaiguri	271	999·3	—0·5	993·6	89·8	+0·3	98	9	66·3	—1·8	57	11	73·9	85·7	65·6	69·4	17·9	—4·2	16·9	63	—7	
Bagdogra	418	993·9	...	988·0	92·2	...	102	9	64·2	...	54	11	78·9	86·4	66·8	67·7	17·2	...	14·9	51	...	
Orissa																						
Balasore	65	1006·2	0	1002·2	97·1	+0·1	107	27	76·1	+0·1	69	1,13	84·9	87·3	75·6	76·0	26·0	—1·8	25·5	64	—5	
Chandbali	20	1007·9	—0·5	1004·1	97·3	—1·3	104	26,27	(f) 76·8	+0·1	...	...	85·4	86·9	78·9	77·4	30·8	+1·4	27·8	73	+1	
Puri	20	1009·1	+0·7	1005·3	87·5	—0·2	90	10,13,14	79·2	+0·1	74	1,21	84·3	83·3	79·4	79·3	31·9	+0·4	32·4	79	—1	
Cuttack	87	1006·1	0	1001·6	97·9	—3·3	106	27	76·4	—1·1	70	21	82·6	91·2	76·0	75·9	27·8	—0·8	23·3	72	+2	
Gopalpur	56	1007·7	+0·7	1004·1	87·8	—0·4	91	15	76·4	—0·7	72	1,14	82·8	82·4	79·8	78·7	33·4	+3·3	32·1	78	0	
Koraput	2,996	910·8	...	907·2	89·8	...	95	18	68·2	...	61	1	77·4	82·1	69·9	71·8	21·6	...	22·0	67	...	
Angul	455	993·9	+0·8	989·2	95·1	—6·9	104	27,28	74·3	—1·0	70	4 days	81·7	93·6	73·4	74·2	24·0	—0·1	19·9	67	+6	
Sambalpur	486	992·5	+0·6	987·9	96·6	—6·4	105	30	71·7	—3·2	66	13,23	82·9	94·5	73·1	79·8	23·1	+3·3	28·3	62	+14	
Jharsuguda	726	984·3	...	979·4	...	...	...	...	...	...	...	...	83·2	93·0	72·7	73·3	22·7	...	19·3	60	...	
Titilagarh	691	985·9	...	980·9	98·5	...	106	27	75·4	...	69	2	83·7	94·7	71·6	75·4	21·1	...	21·0	54	...	
Chota Nagpur																						
Purulia	835	979·6	...	975·7	98·9	...	107	17	74·9	...	66	20	84·9	91·7	69·9	73·2	18·2	...	19·5	47	...	
Jamshedpur	423	994·0	+0·1	989·0	98·6	—3·4	105	4 days	73·3	—0·5	68	10,15,23	83·5	94·1	70·4	70·0	19·6	+0·7	14·3	51	+5	
Chaibasa	742	983·6	+0·8	978·5	98·7	—3·4	106	30	74·4	—0·3	61	19	83·5	94·3	70·3	69·7	19·6	—1·5	13·8	50	—3	
Ranchi	2,150	936·3	+0·2	932·8	93·7	—2·0	100	6 days	67·9	—3·4	59	2	80·6	85·7	67·7	68·9	17·8	+4·1	17·1	52	+16	
Hazaribagh	2,006	941·0	—0·1	937·1	94·3	—2·9	104	30	69·4	—2·4	61	22	82·4	88·1	63·1	64·2	11·7	—1·1	10·7	33	+5	
Daltonganj	725	983·6	+0·3	978·9	97·0	—4·4	107	30	69·0	—1·0	60	11	83·7	91·9	68·7	69·3	17·2	+2·5	14·4	44	+5	
Dhanbad	839	979·1	...	974·6	99·7	...	108	30	73·2	...	65	1	86·3	93·9	66·1	66·6	12·8	...	11·2	32	...	

(R) Register not received.

Cloud amount, (Oktas)			Rainfall, inches.				Number of rainy days, (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Bay Islands
5·0	+1·3	5·0	1·80	—0·56	1·06	22	4	—1·1	5·1	—0·8	0	10	5	1	1	1	5	5	2	2	2	9	1	4	0	7	2	3		Port Blair
																														Assam
6·1	+1·0	6·5	9·61	+0·12	1·50	28	15	+1·4	2·0	+0·4	1	14	12	0	0	0	0	1	2	3	9	7	0	1	0	0	0	10		Dibrugarh
																														Mohanbari (R)
5·8	—0·2	5·8	13·71	+3·59	1·51	1	19	+4·9	4·8	+2·1	7	15	2	4	0	1	0	0	1	10	11	4	2	0	1	1	1	0		Sibsagar
3·8	—0·3	3·4	7·79	+1·78	1·62	20	15	+4·3	3·8	—0·4	3	15	10	0	0	2	0	0	0	2	4	9	0	0	2	5	1	7		Tezpur
2·4	...	(d) 1·9	5·19	...	0·92	24	13	...	4·2	...	2	20	5	0	0	2	0	1	0	4	6	1	0	1	3	1	3	8		Gauhati D. Type
3·4	—0·4	2·5	6·27	+0·56	0·99	20	12	+2·0	3·4	+1·4	3	11	10	2	0	1	1	2	0	0	7	6	1	1	3	2	1	9		Gauhati
3·0	—0·8	2·3	3·73	—1·69	1·32	30	6	—2·1	5·1	—1·2	2	13	8	0	2	3	1	0	1	1	8	4	0	1	4	3	1	8		Dhubri
5·7	+1·5	5·2	15·54	+0·37	2·48	20	20	+5·7	2·0	—0·2	1	1	5	3	0	0	0	0	20	1	0	1	1	0	1	1	0	25		Silchar
2·8	...	1·5	0·77	...	0·46	21	2	...	6·4	...	0	1	2	10	2	7	0	2	6	0	1	1	3	8	7	2	1	7		Tura
																														West Bengal
2·8	...	3·0	0·31	...	0·26	2	1	...	9·3	...	1	0	0	0	8	13	6	2	0	0	0	1	0	14	13	2	0	0		Dum Dum
2·6	—0·4	2·7	1·22	—0·53	1·22	2	1	—2·0	5·2	+0·3	0	0	0	0	3	18	5	3	1	0	0	1	0	12	12	1	1	3		Calcutta
3·7	—0·7	3·9	0·40	—0·77	0·36	20	1	—1·1	17·6	+3·9	1	0	0	0	2	22	4	1	0	0	0	0	1	9	17	1	1	1		Saugor Island
3·9	+0·8	4·1	0·24	—0·34	0·24	20	1	—0·1	...	...	0	0	0	0	1	25	0	4	0	0	1	0	0	6	22	1	0	0		Sandheads
1·7	—0·4	2·6	1·43	—0·27	1·09	2	2	—1·1	3·8	+0·1	3	1	0	0	7	8	5	1	5	0	2	0	0	16	5	1	0	6		Midnapore
3·7	...	4·5	0·19	...	0·15	20	1	...	9·6	...	1	0	0	1	2	18	2	4	2	0	0	0	1	12	14	0	1	2		Contai
0·3	—2·6	0	0·02	—1·92	0·02	4	0	—3·2	4·7	+1·7	2	0	0	0	7	16	1	4	0	2	1	0	2	5	16	3	0	1		Burdwan
2·5	—0·3	2·7	0·21	—2·07	0·12	19	1	—2·7	5·5	+0·4	2	0	0	0	17	3	7	0	1	2	0	1	0	10	2	14	1	0		Krishnagar
2·2	0	2·5	0·11	—0·72	0·11	20	1	—0·8	5·5	+0·6	0	0	0	2	1	3	17	6	1	0	1	0	1	2	5	13	5	3		Asansol
2·7	—0·5	2·8	0·03	—1·45	0·03	20	0	—2·7	2·1	—1·4	0	2	1	1	9	4	2	0	11	1	0	2	1	4	7	8	2	5		Berhampore
2·3	+0·4	1·0	0·26	—0·92	0·17	21	1	—1·0	5·6	+0·6	2	6	4	0	4	3	7	3	1	3	1	1	0	3	3	6	12	1		Malda
3·3	...	1·7	2·51	—3·14	1·00	30	6	—1·3	4·2	...	1	4	18	2	2	0	2	0	1	4	5	7	0	0	1	4	1	8		Cooch Behar
2·0	—0·6	1·4	2·89	—0·80	1·80	30	3	—2·5	6·3	+3·9	1	4	19	1	1	1	1	0	2	5	8	6	1	0	2	4	1	3		Jalpaiguri
1·7	...	1·6	1·03	...	0·55	20	2	...	5·4	...	0	5	19	2	1	0	1	0	2	2	5	8	2	1	2	8	0	2		Bagdogra
																														Orissa
(b) 2·6	+0·3	4·5	1·24	—0·51	0·47	1	6	+2·5	(b) 8·0	+2·6	0	1	0	0	10	15	0	1	2	0	0	0	7	13	9	0	0	0		Balasore
(f) 3·1	—0·2	(f) 3·1	(h) 2·23	...	...	...	...	...	...	...	1	0	0	5	0	14	3	0	0	0	1	0	18	0	0	5	0	1		Chandbali
3·1	—0·1	3·9	0·53	—0·05	0·39	21	2	+1·0	13·6	+1·1	1	0	0	0	1	20	7	1	0	1	0	0	2	4	22	1	0	0		Puri
2·5	—0·6	3·4	1·59	+0·52	0·63	21	4	+2·3	4·4	+0·8	1	0	0	0	0	4	1	3	21	0	1	1	0	7	8	0	0	13		Cuttack
2·7	+1·1	4·5	1·65	+0·95	0·88	22	3	+1·6	11·1	—1·3	1	0	1	0	7	11	1	2	7	1	0	0	1	15	13	0	0	0		Gopalpur
2·3	...	5·0	1·35	...	0·70	28	3	...	7·4	...	2	1	0	1	6	13	4	3	0	2	2	4	6	5	5	4	2	0		Koraput
2·7	—0·1	3·7	1·49	+0·46	0·81	9	3	+0·8	4·1	—0·6	5	4	2	1	1	1	6	4	6	0	1	0	2	6	5	3	9	4		Angul
3·1	+1·2	2·6	1·13	+0·54	0·57	5	4	+2·4	3·4	+0·5	2	4	2	1	6	8	6	1	0	1	1	0	1	6	5	11	4	1		Sambalpur
2·8	...	2·3	1·28	...	0·37	7	5	...	...	...	2	3	3	1	4	2	0	0	15	0	0	0	0	3	6	8	3	10		Jharsuguda
2·9	...	3·5	0·98	...	0·43	10	3	...	2·8	...	2	1	1	9	10	2	2	1	2	2	0	1	1	2	4	3	2	15		Titilagarh
																														Chota Nagpur
2·7	...	3·2	2·19	...	0·60	3	6	...	3·3	...	3	1	0	0	0	6	14	5	1	3	0	1	3	2	7	8	5	1		Purulia
2·4	+0·6	3·2	0·43	—0·47	0·17	20	2	—0·1	4·3	+1·0	0	0	0	0	0	1	19	4	6	3	0	0	1	2	6	10	5	3		Jamshedpur
2·7	+0·9	3·6	0·73	—0·33	0·54	9	2	—0·2	3·0	+0·5	0	0	0	0	0	21	2	4	3	2	0	0	0	1	16	2	7	2		Chaibasa
2·2	+0·4	3·9	1·96	+1·07	0·67	21	3	+0·6	4·8	—0·1	0	0	0	0	5	4	0	3	18	1	0	0	0	2	4	5	5	13		Ranchi
1·9	+0·1	2·7	1·13	+0·58	0·65	7	3	+1·5	6·1	—0·4	1	0	0	0	1	11	6	8	3	2	0	0	0	1	5	3	18	1		Hazaribagh
1·1	—0·2	2·7	1·29	+0·88	0·80	7	4	+3·2	3·3	—0·2	2	1	1	3	3	0	4	2	14	2	0	0	4	0	3	4	15	2		Daltonganj
2·5	...	2·4	0·83	...	0·51	19	2	...	5·7	...	1	0	0	0	2	17	8	1	1	5	1	0	0	2	9	5	8	0		Dhanbad

(b) Mean of 29 days. (f) Mean of 25 days. (d) Mean of 27 days. (d) Observations for 23 days.

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bihar																						
Purnea	124	1003·7	−0·2	998·1	97·3	+1·0	104	19	67·9	−1·3	58	1,11,12	80·3	91·9	67·3	67·7	16·9	−3·9	12·4	49	−11	28
Darbhanga	161	1002·0	−0·3	996·9	96·1	−0·9	103	17,18,19	69·8	0	62	1,2,21	81·7	94·8	67·6	67·9	16·9	−4·0	11·0	46	−10	22
Motihari	218	1000·8	−0·9	995·1	97·0	0	103	17,19	66·7	−1·0	56	10,12	80·9	89·8	70·5	71·9	20·6	+0·8	18·6	51	+7	41
Patna	173	1001·5	−0·1	996·7	99·4	+0·5	107	19	73·7	+0·2	65	1	84·6	95·8	66·4	66·7	14·2	−3·3	9·3	35	−9	16
Dehri	352	995·1	...	991·1	99·4	...	109	30	74·0	...	67	2,11,12	80·6	94·7	63·3	68·8	11·8	...	12·3	43	...	24
Gaya	365	995·1	+0·1	990·2	101·2	−0·7	109	17,30	72·6	−0·1	64	11	86·5	96·3	65·6	67·3	12·0	+0·9	9·7	30	+8	18
Jamui	270	998·3	...	993·2	101·6	...	108	17,19 30	72·8	...	65	1,11,12	86·9	96·8	72·1	75·5	19·9	...	20·2	47	...	35
Dumka	489	990·6	−0·6	986·0	102·5	+2·6	113	19	...	...	...	...	85·4	96·8	66·8	66·9	14·2	−5·4	8·9	35	−12	16
Sabour	122	1003·3	−0·3	998·0	98·7	−0·5	106	19	69·8	+0·2	61	2,11	83·5	94·5	70·0	71·5	19·0	+2·0	15·9	49	+5	30
Bhagalpur	181	1001·8	...	997·1	99·2	...	107	19	73·4	...	66	1,21	84·1	94·1	69·1	69·7	17·5	...	13·6	45	...	27
U. P., East																						
Gonda	360	995·2	...	990·8	98·7	−1·1	106	29	68·6	+0·1	62	11,21	80·9	94·6	64·8	67·4	13·9	−1·6	11·2	38	+6	21
Gorakhpur	254	998·4	−0·4	993·7	98·1	−1·2	105	17,19	71·8	+0·5	64	1	82·8	95·4	65·2	66·1	13·6	−3·7	8·1	35	−11	15
Azamgarh	255	998·3	...	994·0	100·3	...	108	30	70·4	...	63	11	83·2	96·1	66·9	69·4	14·8	...	12·6	38	...	23
Banaras	250	999·1	+0·2	994·4	99·3	−2·5	108	30	71·3	−0·3	63	10,11	83·6	97·3	68·5	72·2	17·4	+1·7	15·5	44	+5	26
Allahabad (Bamrauli).	322	996·9	+0·3	992·4	98·6	−4·0	108	30	71·1	−0·3	63	10,11	84·6	96·1	65·2	67·2	12·7	−0·5	9·5	31	−1	18
Fatehpur	375	994·9	...	990·8	98·4	−2·6	108	30	71·0	+1·1	61	10	83·4	96·3	65·8	70·0	13·6	−1·9	12·6	36	−1	23
Banda	398	994·6	...	990·2	99·9	...	109	30	71·5	...	61	10	82·9	96·6	67·1	(h) 69·5	15·4	...	(h) 14·6	42	...	(h) 24
Orai	463	992·1	...	988·3	98·9	...	108	30	69·8	...	60	1,10	82·7	95·7	64·3	69·6	12·4	...	13·3	34	...	24
Kanpur	414	993·7	+0·5	989·9	97·3	−2·1	108	30	71·1	+0·5	62	1,10	81·1	94·9	63·9	66·8	12·7	+0·3	10·0	35	+2	18
Lucknow	371	994·9	+0·3	993·9	98·1	−3·3	108	30	70·4	−0·4	63	1,4,21	77·0	85·6	63·4	69·1	13·9	−0·4	12·5	46	+10	22
Hardoi	467	993·6	...	987·9	96·5	...	107	30	67·7	...	59	9	80·2	90·5	60·1	67·1	8·7	...	12·4	40	...	20
Kheri	483	990·8	...	986·8	96·3	...	105	25,30	(d) 67·1	...	59	1	78·8	92·1	63·9	67·2	13·6	...	11·3	42	...	23
Bahraich	407	993·4	+0·2	989·7	97·9	−1·0	106	17,30	67·1	−2·2	61	12	80·5	94·3	63·4	65·8	12·7	−3·6	8·6	35	−10	17
U. P., West.																						
Jhansi	823	980·2	−0·1	975·9	98·5	−4·8	107	16	71·9	−0·3	60	10	81·7	96·7	63·5	67·9	12·3	0	10·3	33	+4	17
Agra	553	989·1	+0·3	(b) 985·6	95·5	−4·5	106	30	67·2	−2·4	59	1,9,11	78·6	(b) 94·1	62·2	(b) 66·0	11·9	+1·2	(b) 9·2	37	+9	(b) 17
Mainpuri	516	990·2	+0·4	986·3	97·4	−3·8	109	30	68·0	−1·2	59	11	80·1	93·3	65·3	68·5	14·3	+1·1	12·1	44	+8	25
Aligarh	615	986·9	...	980·2	94·6	−2·0	105	30	66·6	−1·5	59	1,9,10	78·2	91·7	63·6	66·1	13·5	+2·5	10·7	43	+14	27
Bareilly	568	987·6	−0·1	984·0	95·1	−2·7	106	30	67·8	−1·0	61	1,9	79·4	92·0	65·2	67·8	14·8	−0·6	12·5	44	0	26
Meerut	728	982·5	+0·4	...	91·8	−5·9	103	30	66·5	−0·8	57	1	75·8	...	62·1	...	13·2	−0·4	...	45	+4	..
Roorkee	899	976·6	−0·1	973·1	91·2	−4·5	101	30	62·2	−2·8	54	9	73·2	88·8	60·9	63·4	12·4	−0·3	8·5	47	+6	20
Dehra Dun	2,239	932·1	−0·1	929·6	85·8	−4·2	96	30	59·3	−3·2	51	1	70·8	82·7	57·7	60·7	11·2	−0·6	9·4	44	0	20
Punjab (I)																						
New Delhi	710	983·4	+0·1	980·1	92·4	−4·2	103	30	67·4	−0·3	59	1,9	77·0	89·9	(c) 62·1	(c) 64·1	(c) 12·8	+0·6	(c) 8·7	(c) 42	+5	(c) 2
Hissar	725	983·3	+0·3	980·7	91·3	−6·5	104	29	63·2	−3·5	56	9,10	72·3	89·2	62·3	66·6	14·5	+1·5	12·1	56	+15	20
Karnal	818	979·6	...	976·5	90·8	...	102	30	63·9	...	54	1	74·6	88·8	61·3	64·3	12·6	...	9·7	44	...	2
Ambala	892	976·6	−0·1	974·2	93·0	−3·0	104	30	64·4	−2·0	57	1	73·3	89·8	61·2	(f) 63·8	12·9	+0·3	(f) 9·1	47	+10	(f) 2
Patiala	822	979·2	...	976·6	92·1	...	104	30	63·1	...	55	1,4	72·9	88·3	61·9	66·0	14·0	...	11·3	52	...	20
Ludhiana	810	979·7	+0·1	977·7	90·2	−5·5	101	30	61·8	−4·7	56	8,9,10	71·8	89·0	62·1	67·8	15·0	+1·8	13·9	56	+10	3
Ferozepore	657	985·9	...	983·3	89·6	...	102	29,30	60·3	...	51	8	71·7	86·7	61·7	64·2	14·5	...	10·6	56	...	2
Amritsar	756	981·6	...	979·5	87·1	...	100	30	58·5	...	52	8	70·8	85·1	61·7	65·8	14·9	...	12·7	60	...	3
Jammu and Kashmir.																						
Srinagar	5,205	842·1	−0·3	939·5	61·1	−5·7	75	29	43·0	−1·6	34	8	48·8	58·8	45·7	50·6	9·5	−1·2	9·9	80	−5	5
Gulmarg	8,709	Closed during Winter months																				

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

Cloud amount (Oktas)			Rainfall, inches				Number of rainy days (0·10" or more)		Wind velocity miles per hour		Wind direction—Number of winds from:—																		STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bihar
1·9	—0·3	1·0	0·80	—0·48	0·73	21	1	—0·8	5·6	+2·2	2	1	16	0	0	2	8	0	1	0	0	2	0	0	2	16	0	10	Purnea
1·0	—0·4	0·4	0	—0·68	0	...	0	—1·3	2·6	—1·2	0	5	10	0	0	0	7	4	4	0	0	2	0	0	3	11	5	9	Darbhanga
1·1	0	1·5	0·07	—0·75	0·07	21	0	—1·4	5·4	+1·5	0	1	9	1	0	0	11	1	7	0	0	2	0	0	1	16	1	10	Motihari
1·6	+0·3	1·4	0·03	—0·24	0·03	2	0	—0·6	5·7	+1·4	1	4	2	2	2	4	9	6	0	2	0	0	0	8	1	10	17	0	Patna
1·3	...	1·8	1·37	+1·14	1·10	7	2	+1·4	5·2	...	1	1	0	0	2	17	2	7	0	0	2	0	2	1	1	0	23	1	Dehri
1·7	+0·4	2·3	0·52	+0·28	0·51	7	1	+0·4	7·9	+2·1	1	0	1	1	3	12	9	1	2	0	0	0	0	2	1	12	14	1	Gaya
1·9	...	1·6	0·09	...	0·06	20	0	...	5·2	...	1	2	5	4	2	1	0	14	1	1	1	1	0	0	3	6	18	0	Jamui
1·3	—0·3	1·3	0·10	—0·74	0·10	21	1	—0·9	...	...	0	0	0	4	2	8	12	4	0	0	0	0	1	0	12	11	6	0	Dumka
1·7	—0·2	1·2	0·38	—0·34	0·34	21	1	—0·3	7·2	+1·2	1	6	7	1	0	2	10	3	0	0	0	1	1	1	1	13	13	0	Sabour
1·6	...	0·7	0·38	...	0·34	21	1	...	7·6	...	0	1	10	1	1	2	12	2	1	0	0	2	0	1	0	20	6	1	Bhagalpur
																													U. P., East
1·5	+0·1	1·1	0·03	—0·32	0·03	1	0	—0·1	5·3	+0·5	2	0	4	0	0	1	6	9	8	0	0	0	0	0	0	15	13	2	Gonda
0·8	—0·3	0·9	0·02	—0·35	0·02	1	0	—0·7	4·4	+1·6	0	3	4	0	0	2	15	3	3	0	0	0	0	1	6	19	4	0	Gorakhpur
1·4	...	0·7	0·18	...	0·18	1	1	...	...	...	0	0	2	0	0	4	8	0	16	0	1	0	0	0	0	25	0	4	Azamgarh
1·1	—0·2	1·6	0·20	0	0·11	3	1	+0·6	7·1	+3·8	0	1	2	0	4	13	8	2	0	0	1	1	0	1	2	18	7	0	Banaras
1·6	+0·2	1·6	0·34	+0·17	0·34	3	1	+0·6	4·3	+0·2	1	0	3	2	5	10	6	2	1	3	1	1	0	1	2	16	5	1	Allahabad (Bamraull)
1·9	+0·6	1·9	0·10	—0·23	0·10	3	1	+0·4	3·9	+0·4	0	2	2	1	1	2	7	6	9	1	1	1	0	0	1	6	13	7	Fatehpur
0·9	...	1·1	0·20	...	0·20	3	1	...	3·5	...	1	0	4	2	1	3	13	2	4	2	0	1	1	0	1	22	2	1	Banda
1·5	...	2·0	0·13	...	0·13	3	1	...	6·7	...	4	2	1	2	1	6	8	6	0	6	3	0	1	0	2	3	15	0	Orai
1·9	+1·3	1·9	0·50	+0·28	0·38	1	2	+1·4	7·8	+0·5	3	2	2	0	1	3	13	5	1	2	0	2	0	1	2	12	10	1	Kanpur
1·8	+0·6	1·5	0·41	+0·16	0·36	1	1	+0·4	2·8	+0·3	3	1	1	0	3	7	6	8	1	1	0	1	1	0	7	7	13	0	Lucknow
1·4	...	0·6	0·25	...	0·25	1	1	...	5·3	...	4	1	0	2	1	4	6	9	3	3	2	0	1	2	1	6	14	1	Hardoi
1·5	...	0·9	0·15	...	0·13	1	1	...	3·3	...	3	1	2	2	0	1	7	11	3	0	1	3	0	0	2	17	7	0	Kheri
1·6	+0·6	1·1	0	—0·32	0	...	0	—0·6	4·5	+1·1	2	1	2	2	0	2	5	7	9	2	0	0	0	0	4	13	9	2	Bahraich
																													U. P., West
1·3	+0·2	1·5	0·15	+0·01	0·15	7	1	+0·5	4·3	+0·7	1	3	4	0	0	1	14	1	6	0	0	0	0	0	1	10	7	12	Jhansi
0·9	—0·4	2·0	0·15	—0·06	0·15	1	1	+0·4	2·7	—1·2	1	4	0	0	0	3	4	2	16	2	0	1	0	0	1	7	5	13	Agra
2·3	+0·9	2·3	0·81	+0·58	0·56	1	2	+1·3	...	...	2	1	0	1	1	5	11	4	5	0	1	0	2	0	6	11	7	3	Mainpuri
1·7	+0·7	2·1	0·86	+0·37	0·46	1	4	+3·0	5·0	0	1	0	0	0	0	2	8	1	18	3	0	1	0	0	2	6	13	5	Aligarh
1·6	0	1·5	0·10	—0·17	0·06	3	0	—0·6	3·8	+1·2	3	1	0	1	1	1	11	5	7	1	0	0	1	0	1	22	2	3	Bareilly
1·3	—0·2	...	0·80	+0·43	0·65	2	2	+1·2	5·7	...	3	1	2	1	1	1	4	9	8	...	...	...	...	...	...	...	...	...	Meerut
1·7	+0·2	2·5	0·17	—0·28	0·16	3	1	—0·1	4·0	+1·2	0	1	0	2	0	0	0	10	17	1	0	0	2	0	0	1	23	3	Roorkee
1·9	—0·4	2·9	0·19	—0·46	0·18	20	1	—0·7	2·7	+0·3	0	2	0	0	1	5	3	0	19	0	6	0	0	1	4	16	0	3	Dehra Dun
																													Punjab (I)
1·4	—0·1	2·5	0·94	+0·61	0·46	2	2	+1·1	8·2	...	2	3	1	1	1	4	10	8	0	2	2	1	2	0	1	3	18	1	New Delhi
1·1	—0·3	1·5	0·94	+0·68	0·39	2	3	+2·1	4·5	+0·2	3	3	1	0	4	2	3	3	11	5	0	1	0	0	3	6	10	5	Hissar
1·0	...	1·4	0·50	...	0·28	3	1	...	4·3	...	1	5	0	2	0	1	9	9	3	1	3	0	0	0	2	9	14	1	Karnal
1·4	—0·4	1·9	0·14	—0·50	0·06	3,7	0	—1·6	5·6	+2·0	0	3	17	3	0	0	0	7	0	0	0	11	2	0	0	5	12	0	Ambala
1·5	...	2·9	0·17	...	0·10	7	1	...	5·1	...	6	2	2	4	0	0	1	12	3	9	0	0	3	1	0	2	14	1	Patiala
2·0	+0·2	2·8	0·70	+0·05	0·43	3	2	+0·7	2·1	+0·1	1	1	0	3	0	0	6	6	13	0	0	0	0	0	4	5	6	15	Ludhiana
1·3	...	2·4	0·38	...	0·18	3	1	...	...	...	0	3	1	0	1	2	0	1	22	0	4	0	0	0	6	0	4	16	Ferozepore
1·8	...	2·4	0·92	...	0·60	3	3	...	6·2	...	3	5	5	3	0	0	3	6	5	2	3	0	0	0	1	11	11	2	Amritsar
																													Jammu and Kashmir
4·0	—0·1	6·1	3·00	0·65	1·41	8	7	—0·8	3·2	0	0	0	5	9	4	1	1	2	8	3	2	0	7	0	0	5	10	3	Srinagar
																													Gulmarg

STATION	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jammu and Kashmir—*contd.*																						
Dras (R)	10,059																					
Leh	11,529	664·8	—2·0	661·9	49·8	—5·6	56	29,30	28·3	—2·0	21	22	36·4	43·9	28·8	32·5	3·0	—1·3	2·7	40	—10	30
Skardu (R)	7,505																					
Gilgit (R)	4,890																					
Misgar (R)	10,190																					
Rajasthan, West																						
Sri Ganganagar	580	988·3	...	985·1	90·0	—5·4	103	29	60·5	—1·5	55	4,9,10	73·8	86·7	63·5	68·1	15·3	+3·6	15·4	56	+14	36
Bikaner	734	982·7	+0·3	978·9	95·4	—4·8	106	29	65·3	—5·1	51	8	73·8	90·8	63·6	65·2	15·9	+7·1	10·0	42	+14	17
Jaisalmer	793	981·2	...	977·3	96·3	...	105	5 days	67·8	...	54	8	74·9	95·2 (b)	66·2	73·2 (b)	18·4	...	17·7 (b)	61	...	34 (b)
Jodhpur	736	983·9	+1·9	979·8	97·5	—1·9	107	16	70·5	—0·3	57	10	78·0	95·4	63·1 (l)	67·8 (l)	12·9 (l)	+2·2	10·0 (l)	40 (l)	+8	19 (l)
Phalodi	783	981·8	...	978·6	96·5	...	107	29	69·0	...	56	9	76·1	95·1	63·3	69·1	14·4	...	14·0	54	...	34
Barmer	638	986·9	+0·4	982·9	99·4	—0·9	109	15,16	72·7	—1·6	58	8	79·0	97·4	67·7	72·9	17·8	—0·9	16·1	55	+2	28
Rajasthan, East																						
Sikar	1,419	960·3	...	956·4	94·5	...	102	29,30	63·7	...	50	9,10	76·7	91·0	66·9	70·7 (j)	18·0	...	17·1 (j)	57	...	39 (j)
Jaipur	1,431	960·1	—0·1	956·6	94·9	—3·3	105	30	67·7	—1·1	55	10	80·4	92·1	61·1	62·3	9·1	—1·3	5·5	28	0	12
Ajmer	1,593	955·1	+0·1	951·3	93·2	—4·1	102	16	68·9	—2·6	55	10	77·8	91·3	60·7	62·4	10·7	—1·9	5·9	35	+5	16
Kotah	843	979·8	+0·1	975·6	98·2	—3·5	107	10	74·2	—1·6	64	9,11	82·4	96·5	61·8	65·2	9·4	—1·2	7·3	26	+1	12
Jhalawar	1,053	972·3	—0·8	968·0	98·8	—1·7	106	16	70·4	+0·3	61	9,11,12	80·7	96·5	62·2	63·6	11·0	—0·1	5·3	30	+1	14
Udaipur	1,910	945·0	+0·3	941·6	93·2	—4·5	102	16,17	67·6	—3·6	55	9	78·5	91·0	61·6	65·7	11·3	—3·6	10·0	36	—4	24
Madhya Bharat																						
Gwalior	681	985·0	...	981·0	98·6	...	108	16	69·6	...	59	10,11	86·6	94·5	63·4	65·6	9·5	...	8·5	25	...	17
Sheopur Kalan	771	...	...	...	99·2	...	107	16,18	68·1	...	57	10	...	...	...	...	...	...	...	...	...	...
Guna	1,571	995·2	—0·6	951·5	98·1	—1·5	106	16	67·3	+0·4	53	10	79·9	95·3	62·3	66·0	12·0	+2·1	9·9	35	+9	18
Neemuch	1,626	954·4	+0·2	950·9	95·6	—3·5	104	16,17	69·9	—1·0	56	9	78·6	93·3	61·3	63·0	11·5	—1·5	7·4	35	+1	14
Ratlam	1,596	955·6	...	951·8	95·6	...	106	16	70·4	...	62	8	77·5	93·5	68·6	76·1	20·2	...	23·6	62	...	45
Indore	1,839	947·5	+0·1	943·2	95·9	—5·0	102	16,17	67·9	—0·1	58	5	78·2	93·4	63·5	67·5	14·0	—1·8	12·4	43	+5	24
Bhopal (Bairagarh)	1,714	951·3	+0·2	947·1	97·3	—1·9	104	17,18,30	69·0	—1·9	59	10	80·9	94·9	61·0	63·8	10·3	+0·2	7·7	29	+5	13
Madhosagar	757	982·4	...	978·1	98·0	...	107	16	71·3	...	62	10,11	82·2	95·0	62·4	65·0	10·3	...	7·6	28	...	15
Vindhya Pradesh																						
Nowgong	750	982·7	+0·2	978·3	98·9	—2·9	108	30	68·4	—1·4	61	12	82·9	97·0	62·9	66·7	10·6	—2·6	8·7	29	—5	15
Sutna	1,041	972·5	+0·1	968·5	97·7	—2·8	106	17,30	70·3	—1·2	59	10	82·2	94·6	67·8	72·8	16·7	+4·9	17·6	45	+16	33
Umaria	1,506	957·5	...	953·3	96·8	—2·1	105	30	67·6	—1·1	55	11	83·9	92·3	65·8	67·5	14·3	+3·1	13·0	38	+10	26
Madhya Pradesh, East																						
Gondia	1,026	974·7	...	969·9	97·8	...	105	26,29	74·7	...	69	4,14	83·0	94·0	70·5	72·0	19·8	...	16·8	53	...	33
Pendra	2,040	943·9	+0·2	936·5	92·3	—3·1	100	29	68·6	—1·5	61	20	80·8	85·6	65·4	66·2	15·2	+2·9	14·1	45	+14	38
Ambikapur	1,989	942·1	...	938·3	93·0	...	101	30	65·1	...	57	11	78·3	88·4	65·5	66·7	16·3	...	13·9	50	...	33
Raigarh	723	984·2	...	979·9	98·2	...	106	4 days	74·1	...	69	1	82·5	95·5	71·3	72·6	21·1	...	17·0	57	...	32
Champa	805	981·7	...	976·9	97·9	...	106	30	73·7	...	69	4 days	81·9	95·2	70·9	72·7	20·8	...	17·3	57	...	33
Raipur	979	975·7	+0·4	971·0	96·7	—6·1	105	25	74·7	—1·6	68	1,3	81·4	94·1	70·7	72·5	20·8	+6·0	17·5	59	+25	33
Kanker	1,318	964·6	+0·3	960·8	94·2	—5·5	100	29	73·3	+0·1	67	11,23	81·1	91·7	71·1	73·6	21·4	+3·7	20·2	61	+17	41
Chanda	634	987·2	0	982·6	99·2	—6·2	107	29	75·5	—0·4	70	6	85·7	96·9	73·5	75·5	23·2	+11·1	20·4	54	+17	37
Sironcha	405	995·8	...	990·2	100·2	...	105	4 days	78·8	...	72	12	83·8	98·6	74·0	74·9	24·3	...	18·7	62	...	31
Jagdalpur	1,815	948·6	0	944·2	96·6	—2·6	103	29	71·0	+0·2	64	23	81·9	89·6	70·8	69·9	21·2	—0·9	17·0	58	+2	37

(R) Register not received.

(b) Mean of 29 days.

Cloud amount, (Oktas)			Rainfall, inches.				Number of rainy days, (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from :— 0830 hrs. I. S. T.									1730 hrs. I. S. T.									STATION.
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date	Total in the month.	Departure from normal.	Mean	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Jammu and Kashmir—*contd.*
																													Dras (R)
4·1	—0·1	5·7	0·23	0	0·06	8,10	0	—0·3	4·7	+2·0	1	0	0	1	2	2	0	0	24	4	3	0	1	4	7	0	3	8	Leh
																													Skardu (R)
																													Gilgit (R)
																													Misgar (R)
																													Rajasthan, West
0·7	—0·8	0·7	0·41	+0·11	0·24	7	2	+1·1	3·6	—1·9	3	2	3	2	5	3	1	2	9	1	3	5	1	0	1	6	12	1	Sri Ganganagar
0·8	—0·6	1·8	1·38	+1·19	0·66	25	2	+1·5	4·4	—0·3	0	5	1	9	1	8	1	3	2	0	6	0	2	0	5	2	15	0	Bikaner
0·4	...	1·8	0·06	...	0·06	1	0	...	10·0	...	0	7	1	1	1	16	1	1	2	0	1	0	0	0	16	2	11	0	Jaisalmer
1·1	—0·6	1·9	0	—0·13	0	...	0	—0·5	5·5	—1·3	2	7	2	1	1	7	5	0	5	2	1	0	1	0	10	9	7	0	Jodhpur
0·1	...	1·6	0	—0·12	0	...	0	—0·3	9·2	...	3	2	4	2	4	10	4	1	0	4	0	1	0	1	7	12	5	0	Phalodi
0·7	—0·6	1·9	0·01	—0·18	0·01	3	0	—0·4	7·9	+2·1	1	2	0	0	3	7	5	7	5	1	0	2	1	2	8	9	3	4	Barmer
																													Rajasthan, East
0·9	...	2·9	0·21	...	0·18	3	1	...	6·0	...	1	3	4	7	1	8	3	0	3	1	1	1	1	0	3	13	10	0	Sikar
1·2	—0·2	2·2	0·08	—0·09	0·05	26	0	—0·5	5·7	+1·1	2	6	3	4	1	1	3	5	5	6	3	0	0	1	0	3	16	1	Jaipur
1·3	—0·1	1·7	0·42	—0·27	0·40	26	1	+0·6	6·8	+2·3	0	5	0	1	2	11	4	0	7	1	1	2	0	1	8	11	2	4	Ajmer
0·6	—0·8	1·3	0	—0·21	0	...	0	—0·5	4·6	+1·9	1	0	0	2	0	2	9	5	11	2	0	2	0	0	0	11	13	2	Kotah
0·9	—0·2	1·7	0·16	—0·11	0·16	30	1	+0·5	4·0	+0·5	3	3	1	0	0	4	10	2	7	1	0	1	1	0	2	10	15	0	Jhalawar
1·4	+0·4	1·7	0	—0·11	0	...	0	—0·2	4·1	...	4	1	0	0	1	3	6	7	8	3	2	1	0	2	10	9	3	0	Udaipur
																													Madhya Bharat
1·6	...	3·0	0·12	...	0·10	3	1	...	2·9	...	1	3	3	4	2	1	7	8	1	4	5	1	1	0	2	2	15	0	Gwalior
...	...	...	0	...	0	...	0	...	...	...	3	4	2	4	5	7	2	2	1	6	1	0	0	0	4	11	8	0	Sheopur Kalan
1·6	+0·8	2·3	0	—0·29	0	...	0	—0·5	5·8	+2·2	5	2	5	2	2	4	7	2	1	2	1	0	0	0	6	8	13	0	Guna
1·5	+0·4	2·5	0	—0·12	0	...	0	—0·3	6·4	+4·5	1	5	2	2	0	8	9	0	3	1	6	1	0	1	8	9	3	1	Neemuch
2·1	...	4·0	0	...	0	...	0	...	6·3	...	4	1	3	1	0	9	11	1	0	3	2	2	0	0	5	16	2	0	Ratlam
1·9	+0·5	2·0	0·06	—0·07	0·04	7	0	—0·3	8·1	+1·2	1	3	2	2	0	0	15	7	0	1	0	4	0	1	3	14	7	0	Indore
1·8	+0·4	2·4	0·01	—0·21	0·01	7	0	—0·7	7·2	+0·4	3	2	2	2	1	3	5	8	4	7	3	0	0	1	3	8	7	1	Bhopal (Bairagarh)
1·3	...	2·8	0·11	...	0·10	2	1	...	6·6	...	2	4	1	1	2	6	4	4	6	3	3	0	1	0	3	8	11	1	Madhosagar
																													Vindhya Pradesh
1·9	+0·2	2·4	0·04	—0·13	0·02	7,8	0	—0·3	4·0	+1·7	2	4	2	2	6	12	1	0	1	5	2	0	0	1	2	5	14	1	Nowgong
1·5	0	2·5	0·11	—0·17	0·06	3	0	—0·7	4·3	+0·6	1	2	2	0	2	4	5	0	14	2	0	2	1	0	2	4	12	7	Sutna
2·0	+0·1	3·5	0·54	+0·08	0·21	7	3	+2·1	3·0	—0·5	0	2	1	7	2	6	2	5	5	1	3	0	3	2	4	1	12	4	Umaria
																													Madhya Pradesh, East
2·2	...	3·3	1·09	...	0·73	4	3	...	3·2	...	4	2	0	4	4	12	0	1	3	4	3	0	2	0	13	0	4	4	Gondia
1·7	—0·3	4·5	3·49	+2·52	1·28	9	5	+2·9	4·9	+0·6	8	1	0	0	12	2	0	3	4	8	3	1	3	4	3	2	5	1	Pendra
1·3	...	3·0	1·41	...	0·84	7	4	...	(c) 5·8	...	3	3	0	1	7	9	4	0	3	7	1	0	2	2	6	5	7	0	Ambikapur
3·3	...	2·5	1·29	...	1·15	6	2	...	3·8	...	0	10	2	3	2	2	4	1	6	3	2	0	0	1	7	5	1	11	Raigarh
2·2	...	2·6	0·60	...	0·21	5	2	...	4·3	...	6	1	1	0	8	4	3	3	4	5	1	0	0	3	8	8	4	1	Champa
3·3	+1·6	3·9	2·67	+2·03	1·20	12	5	+3·3	5·6	+0·5	0	3	2	2	8	5	3	2	5	1	2	0	4	5	7	4	2	5	Raipur
3·2	+0·8	4·0	4·98	+3·81	1·74	10	8	+5·7	3·7	+0·2	0	2	0	0	8	2	0	0	18	0	1	0	1	2	4	5	2	15	Kanker
2·6	+0·3	4·0	1·84	+1·06	1·48	7	2	+0·2	1·8	—1·1	0	5	0	3	0	1	0	4	17	0	0	0	6	0	1	0	1	22	Chanda
3·3	...	2·7	0·31	...	0·21	12	2	...	4·0	...	1	0	5	10	9	3	0	2	0	1	0	3	6	6	3	4	3	4	Sironcha
1·7	—0·1	4·0	0·67	—1·11	0·41	1	2	—1·5	3·8	+0·8	0	4	4	0	7	5	5	1	4	0	1	0	7	0	12	1	6	3	Jagdalpur

(c) Mean of 28 days. (j) Mean of 21 days. (l) Mean of 19 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Madhya Pradesh, West																					
Buldhana	2,133	938·0	...	934·2	95·6	...	100	4 days	73·7	...	68	12	77·0	92·7	64·4	69·3	15·6	...	14·9	49	...
Akola	925	977·7	+0·3	972·5	102·1	—3·4	107	17,30	76·5	+1·6	67	1	84·1	99·0	71·4	77·3	20·5	+8·6	22·3	52	+24
Amravati	1,213	967·9	+0·4	962·9	101·2	—3·1	107	30	76·6	+0·1	66	1	83·4	98·7	72·6	82·3	22·5	+10·0	30·2	58	+30
Yeotmal	1,481	959·1	...	954·2	100·1	...	107	30	75·0	...	69	1	84·4	95·3	68·4	70·6	16·5	...	14·4	44	...
Khandwa	1,044	973·8	+0·4	968·7	100·9	—3·5	107	15,16,17	74·8	+0·1	63	9	82·7	98·4	64·5	68·1	12·6	+1·1	9·7	34	+6
Hoshangabad	992	975·0	—0·2	970·2	99·8	—2·0	107	16,17	72·9	—0·6	61	21	81·8	97·1	61·8	66·4	9·9	—0·8	9·0	28	0
Sagar	1,808	947·4	—0·2	943·4	96·6	—3·1	104	17	72·2	—1·3	61	29	81·4	93·2	60·1	62·3	9·1	—0·4	6·9	26	+2
Jabalpur	1,289	965·1	+0·5	960·4	98·5	—2·1	105	17,29	68·4	0	58	11	82·6	95·2	65·7	68·0	14·7	+2·6	12·3	38	+7
Mandla	1,452	959·3	...	955·0	96·5	...	102	28,29,30	63·6	...	57	11	75·8	89·4	65·9	71·8	17·3	...	18·6	59	...
Seoni	2,027	940·4	—0·3	937·0	95·6	—3·9	104	29	71·0	+0·4	64	11	80·3	89·3	66·4	70·0	16·5	+4·5	17·3	47	+17
Chhindwara	2,248	933·6	...	929·6	94·5	...	101	29,30	70·6	...	63	1	80·5	92·1	66·3	68·9	16·3	...	14·7	47	...
Betul	2,144	937·4	...	933·1	96·1	...	101	17,30	69·1	...	60	1	80·8	92·4	61·5	64·5	10·9	...	9·4	30	...
Nagpur	1,010	974·6	+0·2	969·7	99·8	—4·4	106	28	74·5	0	67	1	85·3	95·8	69·2	71·7	17·1	+1·7	15·6	43	+9
Gujarat																					
Deesa*	466																				
Surat	39	1008·8	+0·2	1004·9	94·9	—4·2	105	11	74·0	+0·3	64	10	78·4	90·5	70·3	73·7	21·7	—2·0	20·8	65	+3
Ahmedabad	181	1003·9	+0·3	999·3	99·4	—6·0	109	16	71·3	—1·6	61	8,9	78·8	98·3	68·7	73·7	19·4	+1·0	17·3	59	+11
Dohad	1,093	972·7	...	968·4	96·8	—4·6	107	16	72·2	—1·9	63	9	79·3	94·8	66·1	70·7	16·0	+1·8	14·7	47	+8
Baroda	115	1006·4	...	1001·6	99·5	—3·4	109	15,16	69·9	+1·1	58	9	78·3	98·1	68·7	73·1	19·6	+3·1	16·5	60	+13
Broach	57	1007·9	...	1004·1	98·3	...	106	12,16	72·9	...	61	9	77·3	95·9	69·8	72·2	21·5	...	16·2	67	...
Saurashtra and Kutch																					
Bhuj	343	998·3	+0·7	994·9	95·5	—4·3	107	16	70·4	—0·9	62	9	76·3	93·3	67·0	67·8	18·3	—2·6	11·7	60	+5
Dwarka	37	1009·3	+0·3	1006·7	83·9	—1·2	87	27	75·5	—0·9	67	10	77·9	81·3	73·0	74·5	25·5	—1·8	26·1	78	—5
Jamnagar	61	1008·5	+0·4	1005·0	92·3	—3·3	103	17	69·8	+0·5	59	11	78·2	87·3	71·2	71·3	22·9	+1·4	19·0	69	+3
Rajkot	432	995·1	+0·2	990·9	97·9	—3·9	107	15,16	69·5	0	59	10	75·6	95·7	68·8	71·9	21·0	+0·4	15·9	69	+6
Veraval	26	1009·6	+0·3	1006·6	86·7	...	101	12	70·3	...	60	3	78·2	81·6	70·4	75·0	21·9	...	26·7	66	—8
Bhavnagar	55	1008·7	+0·7	1004·1	97·8	—4·2	108	17	71·7	—1·8	61	9,10	77·6	94·2	66·6	71·7	17·3	—1·1	16·4	54	+4
Konkan																					
Dahanu	15	1009·9	...	1006·8	87·3	...	95	16	75·5	...	67	3	80·5	84·3	75·1	79·1	27·3	...	31·4	77	...
Bombay	35	1009·7	+0·5	1006·3	89·0	—0·1	93	16	76·4	+0·3	71	3	82·1	85·3	74·2	75·4	25·3	—2·0	25·5	68	—7
Ailbag	23	1010·4	+0·5	...	87·0	—0·6	90	18	75·8	+0·5	69	1	81·7	...	76·6	...	29·0	+3·2	...	78	+9
Harnai	66	1008·3	...	1005·2	83·9	...	87	4 days	77·1	...	73	1,6	80·2	82·6	75·1	77·3	27·5	...	29·6	78	...
Devgad	117	1006·5	...	1003·2	87·2	...	93	18	77·8	...	73	1,2	81·0	85·6	75·5	78·3	27·7	...	29·8	76	...
Vengurla	29	1009·6	...	1005·9	89·9	...	92	6 days	75·0	...	70	1,2,8	82·3	86·1	74·7	76·8	26·0	...	27·3	68	...
Marmagao	202	1003·6	+0·3	1000·2	86·7	—0·9	90	17,18	77·6	—1·4	73	1,2	81·3	84·1	75·0	76·4	26·8	—1·3	27·6	73	—2
Honavar	85	1007·9	...	1004·4	89·4	...	92	13,18	76·0	...	69	1	82·0	86·2	76·3	78·0	28·4	...	29·0	76	...
Deccan (Desh)																					
Jalgaon	660	986·8	...	982·2	102·8	...	108	16,29	74·5	...	63	10	81·5	100·8	67·2	70·4	16·3	...	11·6	45	...
Malegaon	1,432	961·5	+0·3	956·8	99·2	—4·0	104	12,29,30	70·3	—0·6	61	10	81·4	96·3	65·6	69·2	14·4	—0·5	12·1	40	+2
Deolali	1,874	947·1	...	...	93·9	...	101	12	66·3	...	57	5	75·9	...	65·1	...	16·7	...	...	56	...
Ahmednagar	2,154	937·1	—0·6	932·8	97·1	—3·2	102	29	70·4	+0·6	63	1	78·7	93·2	64·7	68·7	15·2	+1·2	14·0	45	+14
Poona	1,834	948·4	+0·1	943·9	97·0	—3·9	105	12	68·7	+0·4	60	1	77·8	92·0	65·8	70·3	16·8	+0·9	16·5	56	+6
Jeur	1,709	952·1	...	947·0	99·2	...	104	29	72·1	...	65	1	80·7	96·5	69·5	70·1	20·2	...	14·4	57	...
Sholapur	1,570	956·8	+0·3	951·5	101·2	—2·3	105	5 days	76·7	+1·4	69	1	83·9	98·6	68·1	70·4	17·0	+1·9	13·9	43	+5

* Data not reliab e.

Cloud amount, (Oktas)			Rainfall, inches.				Number of rainy days, (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																		STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Madhya Pradesh, West.
2·8	...	4·3	0·36	...	0·24	12	1	...	...	...	15	0	1	0	6	0	0	8	0	0	1	0	2	3	4	1	19	0	Buldhana
2·7	+1·2	3·6	0·01	—0·19	0·01	12	0	—0·5	6·8	+2·3	3	2	3	2	0	0	10	9	1	3	2	2	1	1	2	9	10	0	Akola
2·6	+1·1	4·0	0·30	—0·04	0·30	12	1	+0·2	6·8	+2·2	0	10	0	2	0	10	6	2	0	0	1	0	5	0	11	3	10	0	Amravati
2·5	...	5·1	1·03	...	0·53	2	3	...	8·0	...	0	6	0	4	0	5	0	15	0	0	6	0	2	0	8	0	13	1	Yeotmal
1·6	+0·4	3·5	0	—0·11	0	...	0	—0·3	(c) 6·0	+0·8	2	3	0	1	1	1	20	2	0	5	1	0	0	1	7	11	5	0	Khandwa
3·0	+1·7	3·4	0	—0·13	0	...	0	—0·3	3·1	+0·6	0	2	1	1	2	5	3	0	16	0	0	1	0	0	4	2	3	20	Hoshangabad
2·2	+0·8	4·2	0	—0·21	0	...	0	—0·5	(c) 11·2	+0·7	0	4	4	1	2	3	12	4	0	0	4	0	0	0	3	3	20	0	Sagar
1·9	+0·6	3·6	0·30	—0·02	0·21	7	1	—0·2	3·8	+1·4	0	1	1	12	2	11	1	2	0	0	6	0	7	2	11	0	4	0	Jabalpur
3·1	...	4·2	1·41	...	0·76	5	3	...	1·7	...	1	0	0	0	1	0	0	0	28	8	0	0	1	6	1	3	3	8	Mandla
2·7	+1·2	3·9	0·73	+0·13	0·30	5	3	+1·3	4·5	+1·1	4	1	1	3	3	3	2	2	11	2	6	2	5	6	6	1	1	1	Seoni
2·4	...	2·9	0·31	...	0·26	2	1	...	4·2	...	6	0	3	1	3	3	9	5	0	1	1	0	1	3	8	10	6	0	Chhindwara
1·8	...	3·4	0·03	...	0·02	29	0	...	3·8	...	2	2	2	2	2	4	9	7	0	2	0	2	1	2	3	11	8	1	Betul
2·7	+0·9	4·7	0·86	+0·26	0·45	3	2	+0·7	4·8	...	2	4	4	3	3	4	1	6	3	2	4	3	4	5	5	1	6	0	Nagpur
																													Gujarat
																													Deesa*
2·1	+0·6	1·6	0	—0·03	0	...	0	—0·1	6·2	+2·0	4	2	0	0	5	9	5	4	1	0	1	0	0	2	19	1	7	0	Surat
2·4	+1·3	1·2	0	—0·05	0	...	0	—0·1	5·5	+0·6	2	1	3	1	0	4	6	13	0	0	3	0	1	1	7	12	5	1	Ahmedabad
1·4	+0·1	0·8	0	—0·02	0	...	0	0	(c) 12·4	+6·7	0	0	3	3	0	9	12	1	1	2	0	0	0	0	16	6	0	5	Dohad
1·1	+0·4	1·1	0	0	0	...	0	0	3·0	—0·3	1	4	0	0	0	11	1	4	9	0	2	0	0	0	8	8	6	6	Baroda
1·1	...	0·8	0	...	0	...	0	...	6·2	...	4	3	1	3	5	5	6	2	1	2	3	0	2	1	11	8	3	0	Broach
																													Saurashtra and Kutch
1·2	+0·2	0·6	0·43	+0·36	0·43	2	1	+0·9	6·8	—0·6	1	0	0	0	0	6	7	7	9	3	1	0	0	2	11	9	4	0	Bhuj
2·4	+0·5	1·5	0	—0·03	0	...	0	0	11·5	+1·9	7	0	0	0	0	2	11	10	0	0	0	0	0	0	5	13	12	0	Dwarka
2·4	+1·1	1·3	0	—0·02	0	...	0	0	14·1	...	2	0	1	0	3	9	10	5	0	5	0	0	0	0	0	19	6	0	Jamnagar
3·0	+1·2	2·0	0·07	+0·04	0·07	28	0	—0·1	11·1	+3·0	3	3	0	0	0	4	11	7	2	6	2	1	0	0	2	3	15	1	Rajkot
2·9	+1·2	1·7	0	0	0	...	0	0	11·5	...	10	2	0	0	0	1	7	8	2	0	0	0	0	1	2	17	10	0	Veraval
1·1	—0·2	2·2	0·05	—0·05	0·05	28	0	—0·3	6·5	+0·8	5	0	0	1	1	8	8	6	1	3	1	4	6	14	2	0	0	0	Bhavnagar
																													Konkan
4·1	...	2·1	0·03	...	0·03	17	0	...	10·7	...	3	2	5	6	2	1	7	4	0	3	0	0	0	0	5	18	4	0	Dahanu
3·2	+0·9	2·2	0·11	+0·08	0·11	22	1	+1·0	6·4	—0·7	8	5	4	3	1	0	2	3	4	0	0	0	0	0	4	10	16	0	Bombay
3·1	+0·8	...	0	—0·01	0	...	0	0	5·9	—0·9	5	6	1	5	1	0	0	5	7	...	...	...	...	...	...	...	...	...	Alibag
2·8	...	1·5	2·05	...	1·13	22	2	...	12·0	...	5	4	1	7	0	1	1	11	0	0	1	0	2	0	7	6	14	0	Harnai
2·4	...	2·0	1·82	...	0·85	22	5	...	11·8	...	5	11	5	3	0	0	0	6	0	0	0	0	0	0	0	13	17	0	Devgad
3·2	...	2·6	0·27	...	0·14	21	1	...	...	...	7	6	0	0	0	1	0	0	16	0	0	0	0	0	2	20	4	4	Vengurla
4·1	+0·7	3·8	0·86	—0·46	0·48	20	2	+1·2	9·5	+3·0	7	8	7	2	0	0	2	4	0	1	0	0	0	0	2	15	12	0	Marmagao
5·2	...	5·3	1·25	+0·51	0·82	14	3	+1·9	3·5	...	1	1	18	1	0	0	4	2	3	0	0	1	0	0	1	18	10	0	Honavar
																													Deccan (Desh)
2·1	...	2·7	0·62	+0·55	0·62	16	1	+0·8	8·3	...	0	3	1	2	1	0	14	8	1	0	2	0	1	0	3	3	21	0	Jalgaon
2·1	+1·0	3·8	0·15	+0·03	0·15	28	1	+0·7	5·2	—1·1	0	1	0	2	0	2	6	16	3	1	3	1	0	2	4	7	11	1	Malegacn
2·4	...	...	0·72	...	0·54	15	2	...	5·9	...	2	2	2	0	0	6	11	4	3	...	...	...	...	...	...	...	...	...	Deolali
2·6	+1·4	3·8	0·46	+0·06	0·23	26	1	—0·1	5·6	—0·5	1	0	0	5	2	0	1	20	1	3	3	1	3	1	4	1	13	1	Ahmednagar
2·4	+1·0	2·9	0·01	—0·58	0·01	15	0	—1·3	2·6	—3·8	0	0	0	0	0	0	11	0	19	2	0	1	0	0	1	15	8	3	Poona
2·6	...	4·5	0·46	...	0·18	18	3	...	7·5	...	4	1	2	3	2	0	5	13	0	3	2	2	0	3	4	11	5	0	Jeur
1·8	+0·2	4·2	0·02	—0·51	0·02	12	0	—1·2	6·8	+0·4	3	15	0	3	3	0	1	2	3	2	3	0	7	1	6	4	4	3	Sholapur

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level, in millibars			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Deccan (Desh)— *contd.*																					
Miraj	1,817	948·9	0	944·2	98·5	—0·7	103	4 days	71·2	+1·2	60	2	77·0	95·1	68·2	71·2	19·9	—0·3	16·3	64	+[illegible]
Kolhapur	1,885	947·0	...	942·3	95·8	...	103	11	69·9	...	61	1,2	75·7	91·5	67·5	71·0	19·7	...	17·6	66	...
Bijapur	1,950	944·3	+0·2	939·3	98·8	—1·9	103	10,11	74·8	+0·3	67	1	81·4	96·8	68·2	69·8	18·2	0	13·9	50	—
Belgaum	2,562	924·8	+0·2	921·2	...	...	...	...	67·4	+0·2	59	2	72·7	86·6	65·7	69·9	18·8	+0·3	18·2	69	+[illegible]
Gadag	2,131	938·8	+0·1	934·0	97·6	—1·2	103	29	72·5	+0·1	66	1	79·1	93·7	70·8	74·5	22·4	+0·6	21·4	66	—[illegible]
Hyderabad, North.																					
Aurangabad	1,905	945·9	—0·1	941·6	97·4	—3·9	101	4 days	72·1	—1·6	64	1	78·3	95·1	64·7	69·1	15·3	+3·6	13·7	47	+[illegible]
Parbhani	1,350	962·7	...	957·5	101·6	...	106	25,29,30	74·5	...	66	1	84·0	97·8	69·2	73·4	17·6	...	17·0	45	...
Ramagundam	527	991·6	...	986·4	101·2	...	103	26,29	74·9	...	68	12	85·2	98·7	73·7	73·9	23·2	...	17·3	56	...
Nizamabad	1,250	966·2	—0·6	961·5	100·8	—2·8	106	26,30	77·7	+1·4	72	1	85·8	98·5	69·1	71·3	16·8	—1·2	13·9	41	—
Bidar	2,178	936·2	...	931·8	96·9	—1·8	103	26	75·8	—0·2	69	1,12	81·4	94·7	66·3	68·1	15·9	—0·9	12·7	45	[illegible]
Hyderabad, South.																					
Gulbarga	1,503	958·8	+0·5	953·4	100·6	—2·8	105	26,30	76·8	+0·5	68	2	84·2	98·3	65·9	70·5	14·3	—3·5	14·2	36	—
Raichur	1,311	965·3	+0·5	960·3	99·9	—2·6	105	26	78·8	0	73	1	84·2	97·2	72·5	73·4	22·0	+0·6	17·3	55	+
Hyderabad (Begumpet).	1,778	949·7	+0·5	945·5	99·0	—1·5	103	26,27,30	76·1	+1·0	71	9	83·2	94·5	70·2	70·5	20·0	—1·5	15·7	52	—
Hanamkonda	881	979·5	0	974·9	98·2	—2·5	105	29	76·6	—0·5	72	20	82·4	95·3	73·5	72·6	24·2	+1·4	17·1	65	+
Khammameth	367	997·3	...	992·7	100·8	...	107	25	79·2	...	75	4 days	83·0	96·9	...	...	...	...	...	...	...
Coastal Andhradesa.																					
Nellore	65	1007·7	+0·4	1003·8	97·5	—1·9	105	24	78·1	+0.7	73	9	86·6	88·5	77·7	78·5	28·3	—1·5	28·7	66	—
Ongole	38	1008·7	...	1004·5	94·0	...	109	23	79·0	...	75	8,17,20	85·4	87·2	81·7	...	35·3	...	...	85	...
Gannavaram	88	1007·4	...	1002·9	100·6	...	107	23	77·4	...	73	9	85·8	92·1	78·7	77·5	30·3	...	25·6	72	...
Masulipatam	10	1010·0	0	1006·1	91·3	—2·9	98	22	78·8	+1·1	72	20	85·5	86·3	78·4	78·3	29·9	—2·1	29·4	73	—
Kakinada	26	1009·7	+0·4	1005·4	94·4	—1·7	101	27	78·6	+0·1	75	9,20	85·0	89·0	79·4	79·9	31·3	+0·8	30·7	74	+
Visakhapatnam	126	1005·9	+0·4	1002·2	87·8	—1·8	92	22,28	79·0	+0·8	76	1,9,28	84·3	84·6	78·0	79·3	29·9	+1·6	31·8	74	+
Calingapatam	19	1009·1	+0·2	1005·7	90·8	—1·7	94	14,17	78·1	—0·1	74	18,21,22	82·0	85·9	77·7	79·9	30·5	0	32·2	81	+
Rentachintala	348	997·9	...	993·0	102·0	+0·5	108	26	78·8	—0·4	74	10	84·7	96·0	76·3	74·9	27·2	+2·8	20·9	67	+[illegible]
Rayalaseema																					
Cuddapah	428	995·4	+0·6	989·9	101·6	—3·2	107	27	81·3	+0·4	76	4	88·5	96·3	75·0	...	23·5	—2·2	...	52	—
Bellary	1,473	959·8	+0·3	954·7	98·4	—4·3	103	27	77·9	+0·5	74	1,12,28	82·5	95·9	70·6	71·4	20·2	+0·3	15·2	54	+
Kurnool	923	978·5	+0·7	973·0	99·6	—4·0	106	27	76·5	—2·5	72	29	84·1	97·2	73·1	72·3	22·8	+1·1	15·8	58	+
Anantapur	1,147	970·6	...	965·4	98·4	...	104	27	77·5	...	72	9,23,28	83·6	96·3	71·7	71·3	21·1	...	14·9	54	...
Tamilnad																					
Palayamcottai	167	1004·3	...	1000·6	95·0	...	102	30	78·5	...	74	14	83·8	88·7	77·4	78·7	29·2	...	29·0	75	...
Pamban	37	1009·0	+0·4	1005·6	89·1	—2·0	92	23	79·9	+0·2	74	10,15	84·8	85·2	80·3	80·4	33·3	+1·9	33·2	82	+[illegible]
Mathurai	437	995·3	+0·1	991·2	95·1	—2·7	100	4 days	77·1	+0·4	72	14	83·4	90·1	76·9	76·9	28·6	+0·6	25·6	74	+[illegible]
Nagapattinam	31	1009·4	+0·3	1005·8	89·2	—2·8	97	23	79·3	—0·4	74	2	84·6	85·9	78·8	79·3	31·0	+0·2	31·2	76	+[illegible]
Tiruchi	295	1000·5	+0·2	995·8	96·0	—4·1	100	27,28	78·1	+0·1	75	5 days	82·9	91·3	76·9	76·7	28·9	—0·2	24·7	75	+[illegible]
Coimbatore	1,341	964·9	+0·2	960·8	93·1	—3·4	98	8	74·2	+0·6	71	2,21	79·1	88·0	73·7	73·7	25·9	—1·2	21·9	77	[illegible]
Salem	913	979·1	0	974·7	95·1	—5·1	99	5 days	76·7	+0·2	71	1,12	81·3	89·7	74·9	74·6	26·6	—1·2	22·4	73	+[illegible]
Kallakurichi	416	995·9	...	991·2	93·2	...	103	28	77·6	...	73	13	82·9	92·7	76·2	74·9	27·8	...	21·5	72	...
Cuddalore	39	1009·0	+0·1	1005·2	90·0	—2·2	94	25,26	77·5	—0·2	72	3	84·9	85·5	78·2	79·3	29·9	—1·4	31·5	73	—[illegible]
Vellore	703	985·2	+0·4	981·9	95·2	—3·6	101	27	76·8	+0·6	73	4 days	83·3	91·0	76·1	76·4	27·6	+0·5	24·5	71	+[illegible]
Madras	51	1008·7	+0·5	1004·8	92·8	—2·7	99	24	78·3	+0·2	73	12,20	84·4	86·0	78·0	78·6	29·8	+0·1	29·9	74	+[illegible]
Arogyavaram	2,299	933·4	...	929·2	92·3	...	96	27,30	71·5	...	67	1	78·5	87·0	71·3	70·9	23·3	...	18·9	70	...

Cloud amount, (Oktas)			Rainfall, inches.				Number of rainy days, (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																		STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	
																														Deccan (Desh)—*contd.*
2·4	+0·6	4·7	0·39	—1·60	0·30	14	1	—2·1	7·5	+1·5	2	0	0	2	1	2	12	9	2	2	1	2	2	4	5	10	3	1		Miraj
1·1	...	2·8	1·56	...	0·93	23	3	...	7·8	...	1	2	1	0	0	0	20	2	4	0	0	0	0	0	1	24	3	2		Kolhapur
2·0	+0·4	3·5	0·12	—0·73	0·12	13	1	—0·8	5·5	+0·9	9	3	1	2	1	3	2	8	1	4	2	4	2	2	3	4	5	4		Bijapur
...	...	...	1·85	+0·10	0·95	14	4	+0·7	4·4	+0·8	5	2	3	0	2	4	6	6	2	2	0	1	1	1	9	15	1	0		Belgaum
2·9	+1·1	6·4	0·16	—1·30	0·09	26	0	—2·8	6·6	+0·5	0	0	1	2	0	9	8	0	10	1	1	3	2	2	5	3	1	12		Gadag
																														Hyderabad, North.
2·4	+1·0	4·0	0·42	+0·18	0·18	16	2	+1·4	7·6	+0·1	2	3	5	1	1	2	11	4	1	2	1	4	0	2	5	11	5	0		Aurangabad
1·8	...	3·5	0·18	—0·24	0·18	12	1	—0·2	...	...	0	0	2	0	0	0	25	2	1	4	0	1	0	1	0	22	1	1		Parbhani
(b) 3·2	...	(b) 3·1	0·16	...	0·12	1	1	...	(c) 5·5	...	0	3	0	9	11	1	3	1	1	4	1	0	11	6	2	1	1	3		Ramagundam
2·5	+0·6	2·9	0·34	—0·51	0·33	12	1	—1·0	3·7	+0·5	2	1	2	3	1	4	4	4	9	0	3	2	1	0	4	3	0	17		Nizamabad
2·8	+1·0	5·1	1·78	+0·71	1·35	12	3	+0·5	7·7	+1·3	4	1	2	1	3	7	4	8	0	5	2	7	4	0	2	4	5	1		Bidar
																														Hyderabad, South.
2·3	+0·9	4·0	0·32	—0·51	0·22	12	1	—1·1	7·5	+1·1	4	2	3	3	2	4	3	8	1	3	4	6	2	4	2	4	5	0		Gulbarga
3·2	+1·5	4·7	1·04	+0·40	0·58	23	3	+1·6	7·2	+1·2	0	0	2	4	3	7	8	6	0	1	3	5	8	1	4	4	4	0		Raichur
3·0	+0·9	3·8	1·01	—0·16	0·97	20	1	—0·9	6·2	+1·6	2	1	4	6	5	1	4	6	1	1	4	11	7	2	2	1	2	0		Hyderabad (Begumpet).
3·5	+0·9	3.0	0·37	—0·54	0·18	20	2	+0·4	7·2	+1·3	1	0	2	13	10	1	1	2	0	0	0	2	10	9	3	1	3	2		Hanamkonda
3·3	...	3·6	0·83	...	0·74	30	1	...	6·5	...	0	0	6	14	8	1	0	1	0	4	0	4	5	7	1	1	2	2		Khammameth
																														Coastal Andhradesa.
4·5	+1·5	4·5	0·45	—0·03	0·38	24	1	+0·4	6·4	+0·8	0	0	0	6	17	0	3	0	4	0	0	15	14	0	0	0	0	1		Nellore
3·4	...	3·7	0·43	...	0·41	20	1	...	6·3	...	0	0	0	13	1	3	0	0	13	0	0	3	23	2	1	1	0	0		Ongole
4·3	...	4·0	1·98	...	1·65	27	2	...	8·2	...	0	0	3	10	11	5	0	1	0	0	0	0	9	17	2	2	0	0		Gannavaram
4·7	+1·3	4·3	0·83	+0·14	0·83	20	1	+0·1	8·0	+2·2	0	1	0	9	15	1	0	0	4	1	0	0	5	23	1	0	0	0		Masulipatam
3·6	—0·5	2·8	0·83	+0·19	0·70	1	1	0	6·4	+1·3	0	0	0	9	0	18	2	1	0	0	0	0	17	0	13	0	0	0		Kakinada
3·0	—0·5	4·5	0·76	+0·05	0·26	28	3	+1·7	5·8	+0·3	0	0	0	1	4	9	13	2	1	0	0	0	0	9	18	2	0	1		Visakhapatnam
3·7	+1·1	4·3	0·40	—0·36	0·32	22	1	—0·5	8·7	+0·4	0	1	1	0	1	12	13	2	0	0	0	0	0	15	15	0	0	0		Calingapatam
4·2	—0·2	4·9	2·59	+1·40	0·92	27	3	+0·3	5·7	—0·9	1	1	4	3	2	2	3	0	4	1	0	11	5	9	0	3	0	1		Rentachintala
																														Rayalaseema
4·1	+1·9	5·2	1·77	—1·20	1·55	20	2	+0·9	5·7	—1·3	0	0	2	1	0	1	6	0	20	0	1	15	3	0	0	0	1	10		Cuddapah
5·6	+3·5	5·5	0·44	—0·40	0·19	23	2	+0·1	(b) 4·6	+0·7	0	1	0	0	0	4	0	15	10	0	3	5	7	0	2	3	6	4		Bellary
3·3	+1·4	4·1	2·04	+1·37	1·34	3	3	+1·5	4·0	—0·7	0	0	2	4	2	0	6	5	11	0	1	6	7	1	2	0	3	10		Kurnool
4·4	...	4·7	0·92	+0·28	0·70	28	1	—0·3	7·1	...	1	1	1	3	4	4	9	1	6	0	5	8	6	0	1	4	3	3		Anantapur
																														Tamilnad
2·9	...	2·7	1·32	+1·54	1·69	14	5	+1·3	2·7	...	5	1	1	1	0	1	3	7	11	1	3	8	12	3	1	0	0	2		Palayamcottai
4·5	+1·7	4·3	8·48	+6·65	1·90	14	9	+5·8	6·3	+0·2	0	2	4	15	4	3	1	1	0	1	5	3	13	6	0	2	0	0		Pamban
5·4	+1·3	6·1	5·93	+3·77	2·55	14	8	+4·9	2·6	—0·3	2	2	2	0	0	0	1	5	18	0	2	4	9	4	2	1	0	8		Mathurai
6·0	+2·2	5·2	5·20	+4·09	3·50	1	6	+4·7	7·1	+0·8	0	4	0	11	2	5	1	0	7	0	2	4	22	1	0	0	0	1		Nagapattinam
5·3	+2·3	6·1	4·35	+2·85	2·35	17	6	+4·0	5·6	+0·1	2	2	6	1	3	5	7	2	2	1	5	7	8	3	3	1	1	1		Tiruchi
4·0	+0·9	5·6	4.64	+3·06	2·15	2	6	+2·8	4·3	+1·7	3	7	5	1	4	4	1	2	3	2	4	5	4	6	6	3	0	0		Coimbatore
4·7	+2·0	5·8	3·71	+1·78	1·44	13	7	+3·4	4·5	+0·6	0	3	11	7	0	2	6	1	0	0	3	6	2	8	1	2	0	8		Salem
4·3	...	5·0	2·56	...	0·77	13,14	5	...	...	...	2	3	2	6	1	2	3	1	10	0	5	13	3	1	1	3	2	2		Kallakurichi
4·4	+1·0	4·0	2·66	+1·68	0·81	11	5	—3·9	6·5	+1·4	1	1	1	5	3	11	0	0	8	0	0	2	27	0	1	0	0	0		Cuddalore
4·2	+2·0	5·5	4·39	+3·39	3·27	20	3	+1·5	4·9	+1·2	1	0	0	0	7	5	2	1	14	1	1	3	6	13	1	1	2	2		Vellore
5·2	+1·8	4·5	3·60	+2·99	2·56	12	4	—3·1	7·9	+0·8	0	0	0	2	9	14	1	1	3	1	0	4	18	6	1	0	0	0		Madras
5·9	...	5·3	1·54	...	1·09	12	3	...	4·8	...	1	0	1	6	6	1	4	6	5	5	6	4	9	1	0	0	2	3		Arogyavaram

(b) Mean of 20 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M.

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level, in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Malabar & South Kanara																					
Mangalore	72	1008·1	+0·1	1004·7 (b)	88·9	−2·3	91	17,19,24	76·2	−0·3	74	14,15	82·3	85·9 (b)	76·2	78·1 (b)	28·1	−0·2	29·3 (b)	74	+3
Kozhikode	27	1009·4	0	1006·1	91·3	+0·3	93	26,29,30	77·7	−0·7	73	13	83·2	87·1	78·0	81·5	30·4	+0·6	35·0	79	+2
Palghat	319	999·7	...	995·4	95·1	...	101	9	77·1	...	72	11	81·7	88·3	76·5	77·1	28·8	...	26·7	78	...
Mysore																					
Chitaldrug	2,405	929·4	−0·2	924·9	93·8	−3·5	97	10,11	72·1	−0·8	68	1	76·0	91·4	68·7	70·0	21·0	0	16·3	69	+7
Shimoga	1,872	947·3	...	942·7	94·4	...	98	4 days	71·2	...	64	26	76·9	88·5	70·3	71·3	22·6	...	19·2	72	...
Hassan	3,149	906·1	...	902·6	89·2	−3·2	94	9	67·7	+0·4	63	21	72·2	83·2	67·4	69·7	21·0	−0·2	19·3	77	+6
Bangalore	3,021	910·3	+0·2	906·5	90·1	−2·4	94	27	70·7	+1·6	67	1,12	75·6	84·6	69·1	67·8	21·6	−0·2	16·4	71	+2
Mysore	2,518	926·2	−0·3	922·4	90·7	−3·9	95	10	70·0	−0·4	65	21	75·5	87·3	70·1	70·0	22·9	0	18·0	75	+3
Travancore-Cochin																					
Fort Cochin	10	1010·2	0	1007·0	87·6	−1·0	90	16	78·7	0	74	10,14	83·7	84·8	78·3	79·7	30·7	+0·6	32·3	78	+3
Alleppey	12	1010·0	...	1006·7	90·7	...	93	13,19,26	78·1	...	71	19	84·6	86·1	79·3	79·7	31·8	...	31·8	79	...
Trivandrum	211	1003·1	+0·1	1000·0	90·0	..	93	5 days	76·7	...	71	23	80·5	84·3	76·8	77·7	29·8	+0·2	29·4	84	+5
Nagercoil	195	1003·4	...	1000·5	92·4	...	98	28	77·8	...	71	14	82·8	84·8	76·5	77·6	28·3	...	29·1	74	...
Hill Stations excluding Kashmir																					
Aijal	3,599	888·2	...	886·1	73·5	...	80	8	62·5	...	53	23	68·5	70·2	62·9	62·1	17·3	...	15·7	74	...
Shillong	4,921	848·8	−0·8	845·9	74·5	+0·4	82	8	57·3	+0·3	50	21	68·0	66·5	56·1	57·1	10·5	−0·2	12·0	46	−8
Cherrapunji	4,309	868·7	−0·1	865·5	70·1	−1·2	77	8	57·3	−1·6	51	1	64·2	65·4	61·8	63·2	17·7	+1·3	19·1	88	+14
Darjiling	7,432	774·4	−1·6	771·5	61·3	+0·1	68	9,10	47·8	−1·0	40	1,21	56·3	53·5	49·9	48·5	9·6	−1·6	9·9	66	−6
Kalimpong	3,965	877·5	−1·3	874·5	72·6	−1·5	78	9	58·2	−1·3	49	1	64·2	67·7	56·1	58·9	12·2	−2·4	13·2	60	−5
Katmandu	4,388	866·3	...	862·9	84·5	+0·6	91	30	49·2	−3·3	42	10	64·9	72·7	55·3	57·4	11·2	+0·3	9·7	53	−2
Mukteswar (Kumaon)	7,592	771·0	−1·6	769·5	65·1	−2·8	76	30	47·5	−2·8	37	20	54·1	60·1	42·8	47·1	5·2	−0·9	6·4	40	+3
Mussooree	6,699	795·3	...	794·2	65·5	−3·7	75	18,30	49·3	−3·5	38	1	57·8	59·9	46·7	48·6	7·1	−0·2	7·5	45	+1
Simla	7,224	780·1	−1·3	779·5	60·7	−5·2	73	30	47·1	−3·5	36	20	55·8	57·8	43·1	46·0	5·2	−0·8	6·3	35	+2
Dharamsala	3,974	883·4	...	880·9	71·0	...	83	29,30	57·9	...	49	8	66·0	71·0	55·0	56·1	10·3	...	9·3	50	...
Abu	3,945	885·5	+0·2	878·4	81·4	−2·9	93	17	64·6	−3·7	52	7	70·9	79·3	53·2	57·5	6·7	−1·8	7·4	27	−1
Pachmarhi	3,528	893·9	0	890·5	90·2	−1·7	96	18,29	67·2	−1·6	57	10	76·4	87·5	59·0	61·6	10·0	−0·3	8·3	32	+3
Mahabaleshwar	4,534	863·0	−0·8	860·8	82·0	−3·4	91	11	63·4	−2·7	53	1	70·3	76·9	59·5	67·2	13·0	+2·8	18·8	53	+17
Mercara	3,781	885·8	−0·3	883·3	80·2	−3·5	86	9	64·4	+0·5	60	1	69·0	76·4	65·5	69·4	20·0	+0·4	21·4	83	+6
Kodaikanal	7,688	772·4	+0·6	770·5	64·9	−3·3	69	28	53·0	−0·1	51	4 days	53·1	58·9	62·9	56·8	11·8	+1·1	15·0	74	+16
Ootacamund	7,364	780·7	−0·1	779·0	69·5	−2·0	75	6,7	49·9	−1·6	44	21	57·4	62·3	54·0	58·2	13·0	−2·3	15·1	80	+23
Coonoor	5,730	827·5	...	...	69·3	−5·3	75	28	57·0	−0·5	54	9	67·5	...	62·9	...	17·9	+3·3	...	79	+16
Tibet																					
Lhasa	12,090	652·0	...	...	55·7	...	69	7	31·4	...	25	30	44·5	...	42·5	...	8·7	...	...	87	...
Gyantse	13,110	622·7	...	...	54·8	−0·9	63	9,10	25·2	−0·6	14	1	42·9	...	34·5	...	4·2	−1·4	...	46	+2
Ceylon																					
Colombo	24	1009·9	+0·1	1006·4	87·7	−1·1	90	7,28,29	75·6	−0·3	73	2	81·0	83·8	77·3	78·1	30·3	+0·3	30·3	84	−3
Trincomalee	24	1009·8	+1·1	1006·5	88·7	−3·0	94	23	77·7	+0·1	74	13	81·6	84·1	77·3	78·1	30·1	+0·1	30·1	80	−2
Batticoloa	20	1010·1	...	1007·1	87·7	...	93	30	76·8	...	74	14	81·9	83·6	77·9	78·1	30·8	...	30·4	83	...
Hambantota	61	1008·4	+0·3	1005·6	86·6	−1·2	89	22	75·7	−0·4	74	4 days	80·5	83·4	77·0	78·7	30·1	+1·0	31·4	85	−1
Mannar	12	1010·1	...	1006·8	89·1	...	92	9	78·0	...	75	13,16	81·8	84·	78·3	79·3	31·5	...	31·7	85	...

(b) Mean of 29 days.

Cloud amount, (Oktas)			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																		STATION.
											0830 hrs. I.S.T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Malabar & South Kanara
5·6	+2·1	5·3 (b)	2·04	+0·54	1·60	14	2	−0·3	6·4	+1·4	7	7	8	3	0	0	1	2	2	0	0	0	0	1	2	8	19	0	Mangalore
5·5	+1·6	6·5	3·63	+0·05	1·76	13	6	+1·8	9·1	+1·4	4	8	7	0	1	1	2	7	0	0	0	0	0	0	1	12	16	0	Kozhikode
4·2	...	6·2	7·94	...	2·98	14	8	...	5·3	...	0	0	8	0	0	0	21	0	1	0	1	2	1	1	2	20	3	0	Palghat
																													Mysore
4·2	+1·8	5·3	1·22	+0·25	0·45	13	4	+2·0	5·3	+1·0	0	0	2	1	0	9	15	2	1	0	1	10	5	2	2	8	2	0	Chitaldrug
4·0	...	5·8	1·30	...	0·33	30	6	...	3·3	...	4	5	0	2	3	3	3	3	7	3	3	2	3	3	9	5	1	1	Sihmoga
5·3	+2·6	6·4	2·72	+0·52	0·69	26	5	+0·8	5·4	+1·5	1	1	3	2	1	3	12	7	0	0	2	5	3	2	4	11	3	0	Hassan
5·2	+2·6	5·9	0·44	−1·17	0·22	1	2	−0·6	6·3	+2·0	0	0	2	4	4	5	9	5	1	1	2	5	9	0	5	3	2	3	Bangalore
5·1	+1·7	5·9	3·30	+1·00	1·32	13	5	+0·4	4·8	0	3	3	3	2	2	3	9	2	3	3	4	7	2	4	1	6	1	2	Mysore
																													Travancore-Cochin
6·7	+2·9	7·3	5·89	+0·95	2·39	2	8	+1·3	7·8	+2·5	4	11	8	2	0	0	1	2	2	0	1	1	1	1	2	10	14	0	Fort Cochin
6·4	...	6·6	3·09	...	0·65	13,19	9	...	8·7	...	2	10	8	5	0	0	0	5	0	0	1	1	0	1	3	9	15	0	Alleppey
5·4	+1·4	6·2	3·61	−0·94	1·19	18	9	+2·1	5·1	+0·8	9	6	2	2	0	0	0	7	4	2	2	1	4	1	3	8	9	0	Trivandrum
5·7	...	6·6	4·37	...	2·74	14	7	...	5·5	...	1	2	1	0	0	1	7	6	12	0	2	2	2	0	9	14	1	0	Nagercoil
																													Hill stations excluding Kashmir
3·3	...	5·0	11·47	...	3·00	23	13	...	9·1	...	0	0	2	2	6	13	6	1	0	0	0	2	2	2	15	5	3	1	Aijal
2·5	−0·7	3·9	2·34	−2·76	0·69	21	8	−1·2	8·2	+3·0	0	0	0	0	4	21	5	0	0	0	0	0	1	2	18	4	1	4	Shillong
5·4	+0·6	4·9	14·25	−11·98	2·30	17	17	+1·0	9·9	+3·3	1	2	5	1	4	12	4	1	0	0	5	1	3	5	16	0	0	0	Cherrapunji
3·2	−0·7	4·1	2·75	−1·39	0·91	20	7	−0·5	9·9	+4·2	0	2	14	3	0	3	7	1	0	0	0	0	0	0	12	18	0	0	Darjiling
0·5	−2·0	2·1	1·58	−1·15	0·42	26	5	−0·8	7·0	−0·9	0	0	0	2	0	0	0	28	0	0	0	0	26	0	1	0	3	0	Kalimpong
1·1	−0·2	3·7	0·61	−0·40	0·16	25	3	−0·2	0·8	−0·5	1	1	0	2	0	0	0	0	26	3	0	0	0	2	1	0	2	22	Katmandu
2·0	−0·2	2·7	1·14	−0·27	0·37	20	4	+0·7	10·7	+4·0	0	3	6	0	0	2	11	5	3	0	4	1	0	0	5	19	1	0	Mukteswar (Kumaon)
2·2	−0·1	3·6	0·60	−0·73	0·25	20	2	−1·8	6·1	+0·9	7	6	1	2	3	1	0	0	10	3	2	0	3	11	6	2	1	2	Mussooree
2·6	−0·1	3·6	1·86	+0·05	0·79	1	4	−0·1	3·1	−0·8	1	4	3	4	5	3	0	0	10	3	2	1	1	6	6	2	3	6	Simla
2·5	...	4·3	4·17	...	1·60	8	5	...	5·0	...	6	3	1	2	2	1	0	1	14	2	2	7	1	5	4	4	1	4	Dharamsala
1·0	−0·2	1·0	0	−0·11	0	...	0	−0·3	5·9	0	3	2	1	0	0	4	7	3	10	3	0	0	0	1	8	9	3	6	Abu
1·5	−0·3	2·3	0	−0·37	0	...	0	−0·9	3·3	−0·9	1	2	2	0	1	2	10	8	4	2	3	0	0	0	1	12	12	0	Pachmarhi
2·8	+1·1	1·8	0·88	−0·30	0·38	22	3	+1·5	5·6	−1·4	8	5	2	1	1	4	2	7	0	1	0	0	0	0	5	8	16	0	Mahabaleshwar
4·8	+1·1	5·5	3·46	+0·90	2·03	13	4	−1·1	5·2	+2·0	0	1	2	0	0	0	9	9	9	0	1	2	0	0	0	12	13	2	Mercara
5·4	+2·8	7·3	18·22	+13·40	3·12	14	16	+8·3	8·4	+0·9	1	12	4	9	1	0	0	2	1	2	5	2	14	0	0	0	0	7	Kodaikanal
3·6	+0·6	5·6	7·11	+4·07	2·00	14	12	+5·5	1·8	−1·5	0	4	1	0	2	0	0	0	23	1	4	2	1	1	0	0	1	20	Ootacamund
5·3	+1·5	...	11·05	+5·18	5·42	14	7	+0·1	4·2	+1·0	3	4	1	12	8	0	0	2	0	...	...	...	...	...	...	...	...	...	Coonoor
																													Tibet
3·7	...	...	0	...	0	...	0	...	0	...	0	0	0	0	1	0	0	0	29	...	...	...	...	...	...	...	...	...	Lhasa
1·1	−1·3	...	0	−0·20	0	...	0	−0·7	6·0	+1·2	0	1	0	5	0	6	0	1	17	...	...	...	...	...	...	...	...	...	Gyantse
																													Ceylon
6·6	+1·7	7·0	4·75	−4·68	0·76	12	12	+1·1	...	...	0	3	8	13	3	0	2	0	1	0	0	1	0	3	14	8	2	0	Colombo
5·9	+2·8	5·9	2·84	+0·82	1·12	14	3	−0·3	...	...	0	1	0	0	2	17	1	1	8	0	7	11	4	1	1	0	0	6	Trincomalee
5·9	...	6·9	5·40	...	3·00	9	7	...	...	...	0	0	0	0	1	6	10	7	6	0	8	10	5	1	1	2	0	3	Batticoloa
6·4	+2·9	7·0	4·89	+1·12	1·57	15	7	+0·8	...	...	9	3	0	0	0	3	10	5	0	0	0	1	8	2	1	3	1	0	Hambantota
5·5	...	6·4	6·22	...	1·72	13	8	...	...	...	0	0	3	9	10	8	0	0	0	2	2	1	2	4	12	3	3	1	Mannar

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M.

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relat humid %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
HYDROMETEOROLOGICAL OBSERVATORIES																					
Damodar Catchment																					
Bokaro . .	784	981·3	..	976·7	98·7	..	106	17,30	68·4	..	61	11,20,22	83·1	93·0	66·1	66·1	14·3	..	9·8	39	..
Mahanadi Catchment																					
Baramul . .	210	1002·0	..	997·5	97·6	..	105	27	70·4	..	64	15	82·3	88·6	73·1	74·0	24·0	..	22·2	64	..
Hirakud . .	522	992·3	..	987·7	97·5	..	106	29	74·5	..	66	1	83·3	94·0	71·7	73·9	21·4	..	19·6	55	..
Barakachhar .	1,136	..	..	..	95·3	..	103	30	70·8	..	86	1	80·9	91·6	71·2	72·2	22·0	..	17·5	61	..
Narbada Catchment																					
Punasa . .	877	..	...	..	101·4	..	109	17	72·3	..	94	1	85·0	98·8	66·3	69·1	13·8	..	11·2	33	..
Bagra Tawa .	1,087	..	..	..	100·0	..	107	30	72·7	..	64	1	85·1	97·4	67·0	71.6	14·5	..	15·2	34	..
Sabarmati Catchment																					
Dharoi . .	..	..	..	..	98·4	..	109	16	70·9	...	59	15	75·9	96·7	66·6	75·5	18·7	..	20·5	59	..

Cloud amount, (Oktas)			Rainfall, inches.				Number of rainy days, (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																		STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													HYDROMETEOROLOGICAL OBSERVATORIES
																													Damodar Catchment
2·3	..	3·0	2·95	..	1·82	20	4	..	5·6	..	2	0	0	2	2	8	6	6	4	1	0	0	1	0	5	11	12	0	Bokaro
																													Mahanadi Catchment
..	..	..	2·04	..	0·56	21	7	..	1·6	..	1	10	0	8	0	6	0	2	3	1	0	0	2	0	5	0	3	19	Baramul
..	..	..	0·98	..	0·32	6	3	..	2·8	..	2	4	0	1	2	8	2	3	8	1	1	0	1	5	2	2	7	11	Hirakud
0·6	..	1·1	3·39	..	0·80	2	11	..	3·8	..	1	1	0	4	2	10	0	0	9	0	1	1	1	4	6	1	1	12	Barakachhar
																													Narbada Catchment
0·6	..	1·5	0	..	0	..	0	..	5·8	..	2	3	2	0	0	9	10	3	1	2	2	1	0	0	8	13	2	2	Punasa
0·8	..	1·3	0	..	0	..	0	..	4·1	..	0	3	0	1	2	11	11	1	1	1	1	0	1	0	8	18	0	1	Bagra Tawa
																													Sabarmati Catchment
..	..	..	0	..	0	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Dharoi

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 4TH CLASS STATIONS—APRIL 1951

STATION.	Maximum temperature, °F.				Minimum temperature, °F.				Mean Dry bulb temperature, 0830 hrs. I. S. T. °F.	Mean Wet bulb temperature, 0830 hrs. I.S.T. °F.	Vapour pressure, millibars-		Relative humidity, %		Mean Cloud amount 0830 hrs. I. S. T.	Rainfall, inches,				Number of rainy days, (0.10" or more)		Wind	
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.			Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 0830 hrs.I.S.T.	Departure from normal.		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Resultant Direction 0830 hrs. I.S.T.	Velocity in
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	2
Assam																							
Lumding	91·1	+1·3	100	9,10	62·5	−3·8	51	1	77·1	72·4	25·3	+3·3	79	+8	...	6·19	+2·58	3·19	21	9	+1·8	...	..
Jammu and Kashmir.																							
Jammu	88·0	−2·0	102	31	62·9	−6 0	53	2,3	71·3	60·5	12·7	+0·9	53	+13	2·9	0·28	−1·01	0·12	2	2	−0·6	N21E	..
Kargil (R)																							
Mysore																							
Balehonnur	87·3	0	93	9	66·7	+0·6	62	1	71·2	68·4	22·4	0	86	0	...	3·84	+0·29	1·01	25	6	−0·5	...	..
Nandi Hills	81·1	...	85	10	63·3	...	58	12	69·6	63·5	17·5	...	71	...	6·4	2·44	...	1·20	13	4	..	S45E	..
Sikkim																							
Lachen	...	...	...	...	32·1	...	25	2,22	46·9	...	...	...	...	...	...	6·76	...	1·30	12	18	...	...	..
Tibet																							
Yatung (Chumbi)	55 9	−1 2	63	7,8	34·2	−0·7	26	11,12	48·2	46·3	10·0	+2·2	88	+6	0·2	3·35	−0 56	0·85	28	10	−0·4	...	..
HYDROMETEOROLOGICAL OBSERVATORIES																							
Mahanadi Catchment																							
Sonepur *	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·42	...	0·20	28	3	...	SIW	4
Ginabahar	95·7	...	102	29,30	65·7	...	59	22	80·0	67·9	16·6	...	48	...	...	1·62	...	0·60	20	4	...	...	..
Ganga Catchment																							
Tapoban	60·8	...	79	30	40·6	...	38	1,11	52·9	45·7	8·2	...	58	...	...	4·19	...	1·08	3	7	...	...	..
Badrinath (R)																							
Narbada Catchment																							
Thikri	97·8	...	108	15,16, 17	71·9	...	62	10	80·2	64·5	13·6	...	38	...	...	0	...	0	...	0	...	...	..
Sabarmati Catchment																							
Jhadol	93·5	...	103	16	61·1	...	48	9	76·4	64·5	15·3	...	49	...	...	0	...	0	...	0	...	...	..

(R) Register not received. *Data except rainfalfand wind not available.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 5TH CLASS STATIONS—APRIL 1951.

Division.	Station.	Rainfall, inches.				Number of rainy days (0.10" or more).		Division.	Station.	Rainfall, inches.				Number of rainy days. (0.10" or more	
		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.			Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
Assam	Mawsynram	6·01	...	1·05	28	11	...		Dharampore	0·84	−0 54	0·50	7	4	+1·3
West Bengal	Bankura	0·25	−1·00	0·20	20	1	−1·7		Kharsali	2·08	...	0·49	20	4	...
Bihar	Muzaffarpur	0	−0·48	0	...	0	−0·9		Rana	2·64	...	0·50	20	11	...
	Chapra	0·06	−0·26	0·06	2	0	−0·7		Jamuna Chetty	0·59	...	0·28	4	2	...
	Arrah	0·53	+0·28	0·53	1	1	+0·5	Jammu & Kashmir	Sonamarg	3·77	−6·16	2·04	8	11	−1·7
Punjab (I)	Dalhousie.	7·71	+4·72	4·42	8	7	+1·3		Gurez	3·83	−2·92	1·05	7	11	−0·7
	Kyelang	5·61	+2·28	1·98	30	9	+2·6	Deccan (Desh)	Khandala	0	−0·01	0	...	0	−0·7
	Gondla	8·07	...	2·23	7	11	...	Sikkim	Thangu	1·48	...	0·32	1	5	...
	Koksar	4·65	...	1·01	7	13	...		~~Lachung (R)~~						
	Kothi	6·58	...	0·76	30	13	...		Chungthang	6·41	...	1·30	21	16	...

~~(R) Register not received.~~

RADIOSONDE DATA

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

(From Radiosonde Ascents at 15 hrs. G. M. T.)

APRIL 1951

Standard Pressure Surface mbs.	ALLAHABAD (Sur. Pr. 993 mb.)						CALCUTTA (1005 mb.)						JODHPUR (981 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	28	98	303·3	308	298	280·7	30	7	301·1	303	297	295·1	30	218	304·5	309	299	280·0
1000	28	39	...	...	...	...	30	53	...	...	...	...	29	52	...	...	...	...
900	28	975	300·5	308	294	274·0	29	988	299·1	305	294	283·4	29	988	299·5	306	293	275·6
850	28	1478	295·3	305	288	272·2	29	1486	295·6	301	291	280·2	29	1487	294·4	301	288	271·9
800	28	2000	289·7	299	282	272·0	29	2011	290·8	298	285	276·9	29	2011	288·8	296	282	274·3
700	28	3115	279·5	289	271	266·6	29	3131	280·3	287	275	271·6	29	3118	277·5	284	272	269·2
600	27	4356	268·8	275	262	260·8	27	4375	270·0	277	265	266·7	29	4349	267·0	274	261	265·5
500	27	5765	258·9	263	253	...	28	5792	262·0	269	258	...	29	5749	257·4	262	251	...
400	27	7421	247·4	254	239	...	25	7490	251·0	259	241	...	27	7407	247·0	252	242	...
300	25	9446	234·6	244	223	...	19	9524	238·0	247	233	...	20	9451	236·1	245	227	...
250	23	10637	227·9	235	216	...	7	10791	229·6	235	224	...	13	10692	228·5	237	217	...
200	22	12192	218·8	225	211	...	6	12274	220·2	226	216	...	12	12181	224·0	235	214	...
175	11	12945	211·7	218	207	...												
150	6	13566	208·0	216	203	...												
125																		
100																		
80																		

	MADRAS (1007 mb.)						NAGPUR (971 mb.)						NEW DELHI (981 mb.)					
Surface	30	15	301·6	304	297	297·9	29	307	303·9	309	297	288·5	30	213	301·1	306	294	283·7
1000	30	73	...	...	...	...	29	44	...	...	...	...	30	43	...	...	...	...
900	30	1007	298·4	303	295	286·3	29	987	302·0	306	297	284·5	30	980	298·1	304	291	277·1
850	30	1507	295·8	300	293	282·8	29	1491	298·7	304	295	283·5	30	1477	294·1	301	287	275·5
800	30	2036	292·5	296	288	280·0	29	2026	295·1	300	285	281·5	30	1998	289·4	296	281	273·5
700	30	3168	284·8	288	282	272·9	28	3163	284·6	293	280	277·1	30	3112	279·2	287	271	267·5
600	29	4443	277·1	280	275	267·4	25	4433	274·4	281	270	270·5	30	4352	269·1	278	265	...
500	29	5907	269·1	272	267	...	25	5879	266·4	274	263	...	30	5762	258·6	266	253	...
400	29	7634	259·5	262	256	...	25	7591	257·0	265	249	...	30	7411	246·1	254	235	...
300	25	9761	245·4	250	243	...	25	8684	244·2	252	239	...	30	9441	235·0	244	224	...
250	21	11050	236·1	241	232	...	22	10980	235·6	245	231	...	28	10675	227·0	238	219	...
200	13	12535	225·0	228	223	...	19	12498	226·5	238	218	...	19	12155	221·1	234	211	...
175	10	13388	217·8	221	215	...	14	13370	220·3	230	215	...	18	13029	216·4	227	208	...
150	9	14364	209·8	213	207	...	12	14381	214·5	225	208	...	7	14034	216·4	223	206	...
125		...	...	...	...	...	...	...	...	...	...	...	6	15133	214·5	219	205	...
100		...	...	...	...	...	...	...	...	...	...	...	5	16501	207·4	214	203	...
80		...	...	...	...	...	...	...	...	...	...	...						

RADIOSONDE DATA

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

(From Radiosonde Ascents at 15 hrs. G. M. T.)

APRIL 1951

Standard Pressure Surface mbs.	POONA (Sur. Pr. 946 mb.)						PORT BLAIR (1007 mb.)						TRIVANDRUM (1002 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	557	300·9	304	297	290·0	29	21	300·2	302	298	297·3	30	64	300·2	302	297	297
1000	29	67	...	...	...	...	29	86	...	...	...	...	30	83	...	...	...	...
900	30	1002	298·0	302	294	287·7	29	1013	295·1	297	293	290·8	30	1011	295·3	299	294	291
850	30	1500	295·7	300	292	283·7	29	1507	292·9	296	290	287·8	30	1506	292·9	297	290	289
800	30	2028	292·9	297	290	279·4	29	2031	289·8	294	287	282·8	30	2030	290·0	294	287	285
700	30	3161	284·4	289	281	278·8	27	3160	283·7	288	281	274·9	30	3159	284·3	287	282	276
600	30	4431	275·9	279	273	264·4	27	4430	277·2	281	273	267·9	30	4431	277·3	282	273	269
500	30	5882	267·7	271	265	...	25	5893	269·2	276	266	...	29	5894	269·3	273	265	...
400	30	7603	258·1	264	255	...	23	7617	259·4	262	255	...	28	7625	259·5	265	255	...
300	30	9721	244·3	252	238	...	20	9740	245·7	251	242	...	27	9761	246·6	256	242	...
250	28	11002	235·4	244	232	...	19	11033	236·4	240	232	...	26	11047	237·0	245	231	...
200	25	12504	224·7	235	220	...	17	12534	225·8	232	218	...	24	12570	226·5	235	220	...
175	21	13330	217·9	224	214	...	13	13364	218·7	223	214	...	22	13432	219·7	229	213	...
150	21	14323	210·4	216	205	...	13	14354	210·4	218	206	...	21	14419	211·9	223	202	...
125	9	15448	206·2	212	204	...							11	15559	207·9	217	201	...
100													11	16923	201·4	211	193	...
80																		

Standard Pressure Surface mbs.	VERAVAL (1008 mb.)						VISAKHAPATNAM (1002 mb.)					
Surface	29	8	299·2	301	297	295·6	30	48	300·7	303	299	297
1000	29	76	...	...	...	...	30	63	...	...	...	...
900	29	1003	296·5	300	285	278·6	30	994	297·8	301	292	288·
850	29	1499	294·0	300	280	277·5	30	1490	295·7	299	289	285
800	29	2022	290·4	295	279	273·9	30	2021	292·3	297	286	283·
700	29	3149	283·8	288	281	265·3	30	3153	284·1	288	280	277
600	28	4418	275·7	279	274	261·3	29	4425	276·0	280	273	270·
500	28	5872	267·9	273	265	...	28	5884	268·6	272	264	263
400	28	7591	257·7	262	255	...	28	7611	258·3	262	254	...
300	26	9714	244·6	249	239	...	26	5728	245·1	250	234	...
250	23	10999	235·9	241	232	...	19	11010	235·6	241	226	...
200	18	12517	224·9	236	216	...	14	12509	226·1	232	209	...
175	15	13393	218·5	228	212	...	10	13375	220·8	227	205	...
150	10	14383	212·8	222	206	...	10	14359	215·1	223	199	...
125	6	15598	208·5	213	204	...	5	15523	209·2	215	204	...
100												
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 le than 273°A.

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

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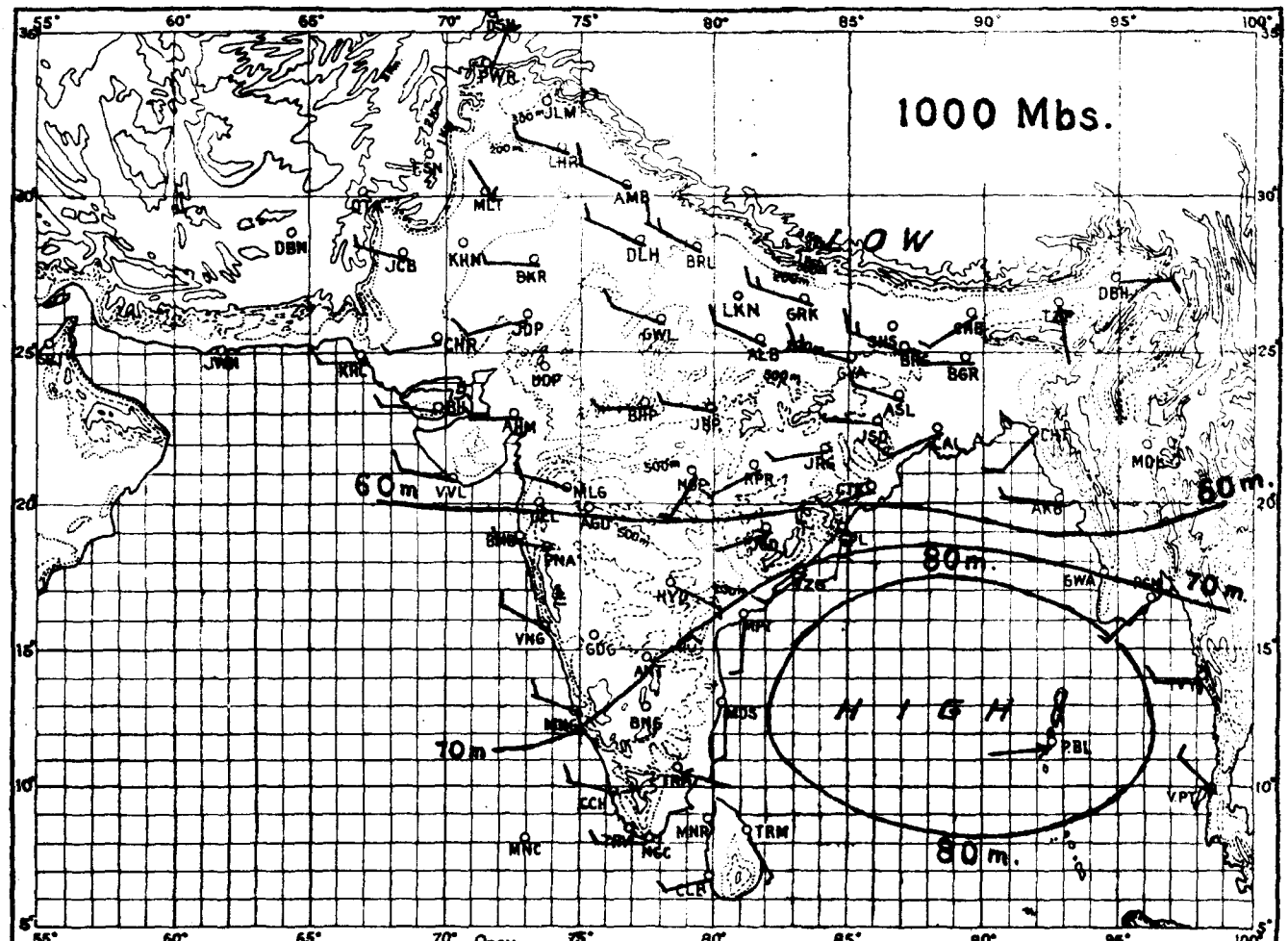
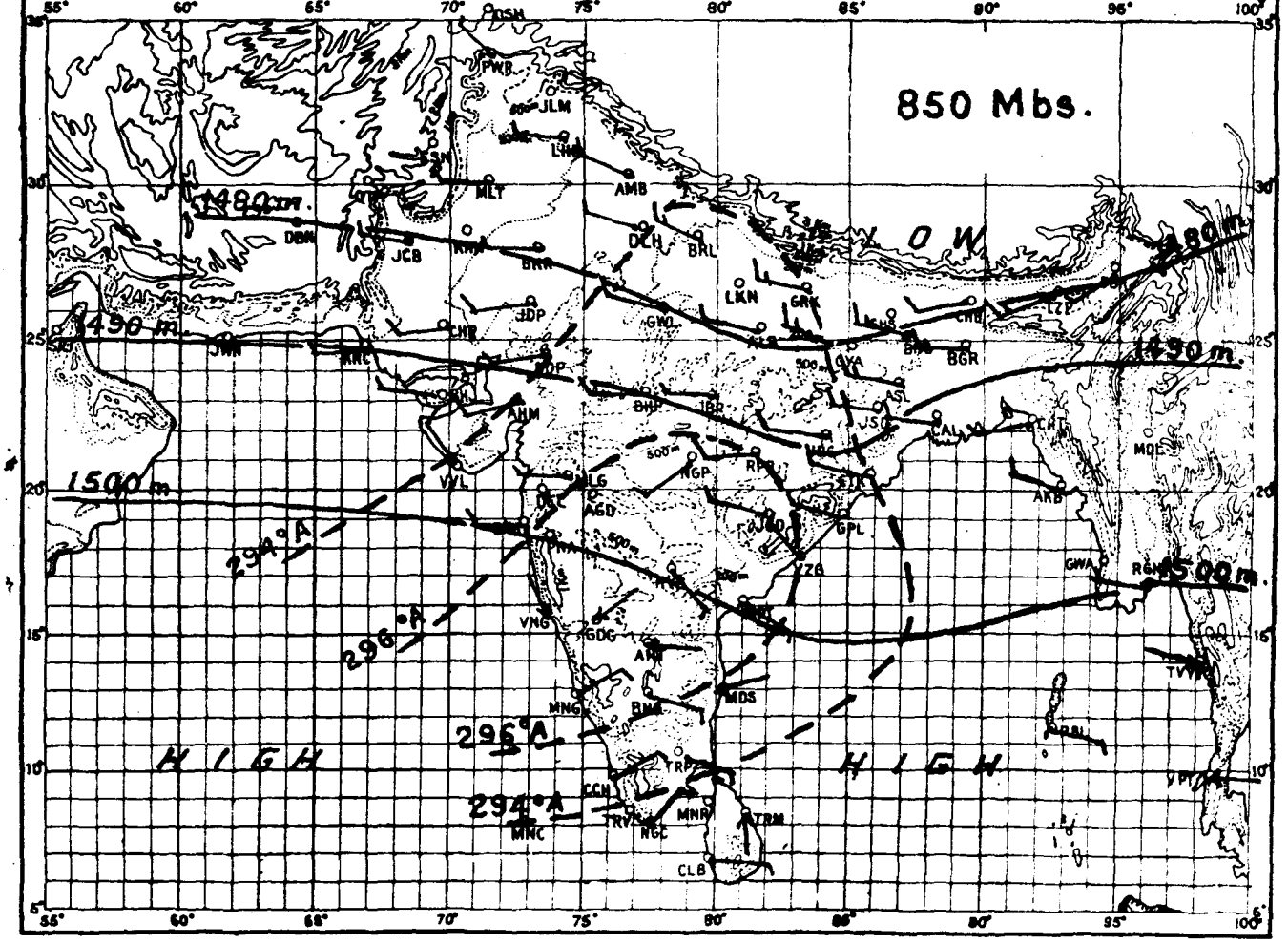
MONTHLY MEAN CONSTANT PRESSURE CHARTS

APRIL 1951.



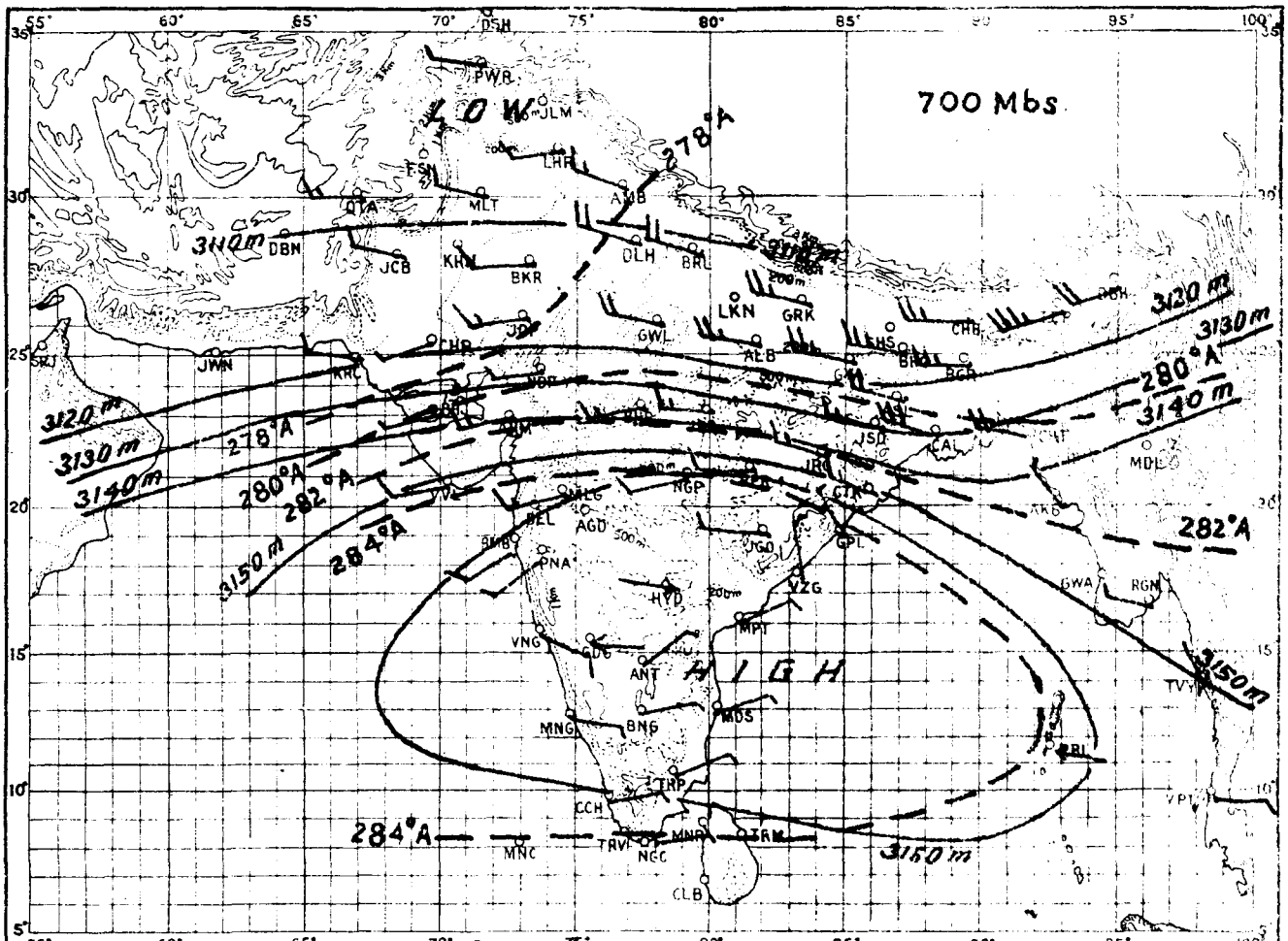


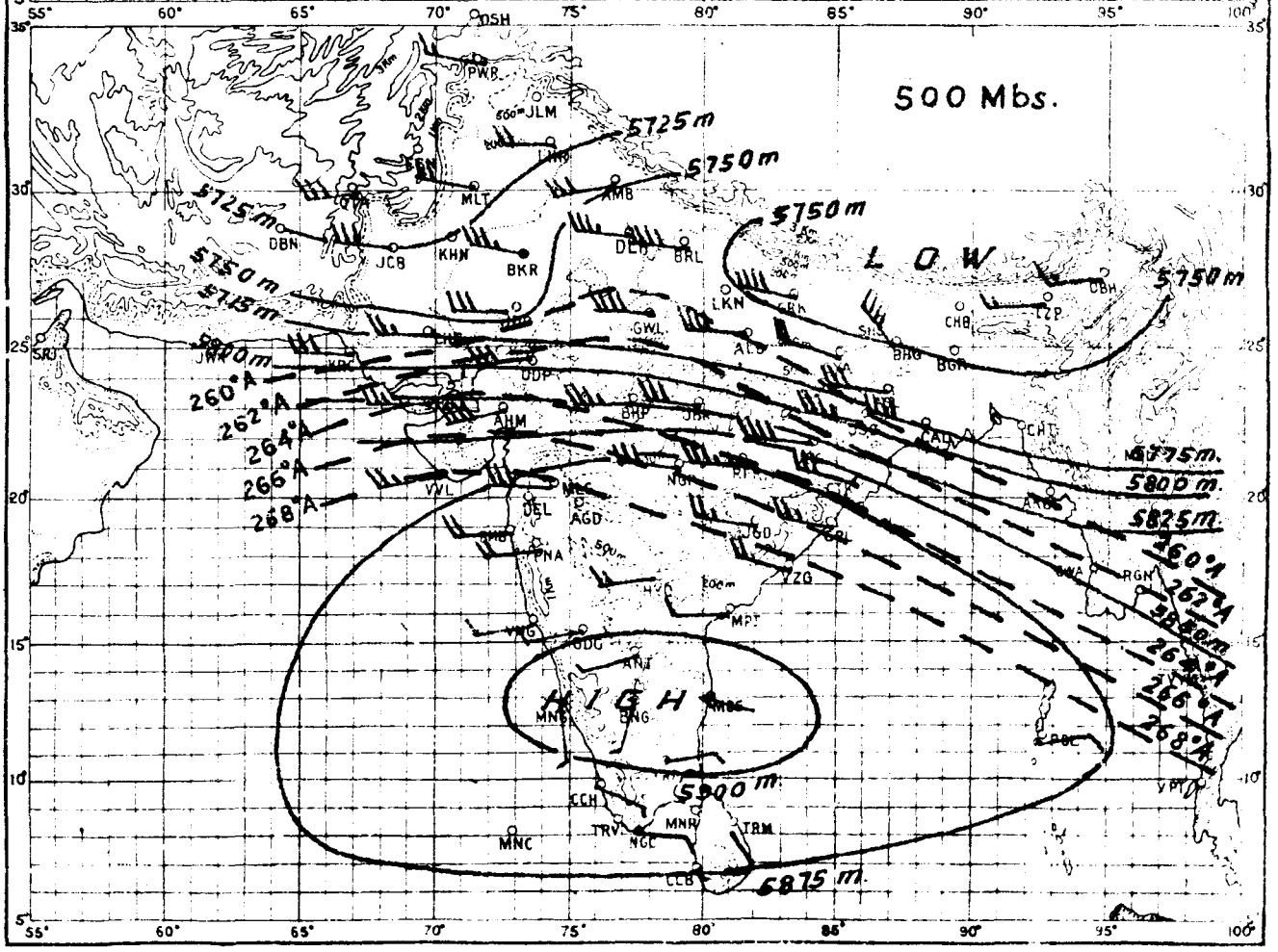
RESULTANT WIND ——— = 5 Knots, ——— = 10 Knots, ——— = 50 Knots.

— — — *Isotherms in degrees Absolute* ——— *Contours in geopotential Metres.*

MONTHLY MEAN CONSTANT PRESSURE CHARTS

APRIL 1951





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

- - - - *Isotherms in degrees Absolute* ——— *Contours in geopotential Metres.*

Registered No. B-3097

INDIA WEATHER REVIEW, 1951

Monthly Weather Report

May

Published by authority of the Government of India

Chief features.—(1) Generally feeble thunderstorm activity over north and central India, (2) a heat wave in northeast India, Uttar Pradesh and the central parts of the country during second and third week and (3) the arrival of the monsoon over Travancore-Cochin by about the end of the month.

Fairly widespread or local thundershowers occurred in the southern half of the Peninsula on the 1st and the 2nd, in east Madhya Pradesh between the 3rd and the 5th, in Mysore between the 10th and the 15th, in West Bengal and Orissa between the 21st and 23rd, in West Bengal between the 27th and 30th and in Rayalaseema on the 29th and 30th. A hailstorm swept over Hyderabad on the 17th, the accompanying strong wind bringing down the massive gate of a hangar at Begumpet airfield upon two persons who died. A wind speed of 73 m.p.h., the highest recorded yet in Hyderabad, was reached at the Begumpet Airport on that occasion. A few hailstorms were reported from Tamilnad on the 15th and 23rd. Calcutta experienced a severe nor'wester on the evening of 21st when wind speed rose to 64 m.p.h. Fairly widespread or local thundershowers also occurred in Assam, practically throughout the month with locally heavy falls in the Khasi hills between the 17th and the 21st. Cherrapunji recorded 8, 18, 8, 16 and 7 inches of rain successively during this period, getting an abnormally heavy fall of 18.2 inches between 1730 hrs. IST of the 17th and 0830 hrs. IST of the next day. According to press reports, the Brahmaputra was in spate and washed away some houses, while the Lohit (a tributary of the Brahmaputra) flowing by Sadiya headquarters of Mishmi hills, burst its bank and washed away the adjoining railway track. Parts of Sadia town were inundated and the adjacent aerodrome damaged. Telecommunication between Dibrugarh and Gauhati was also disrupted.

A trough of low pressure formed in the east Arabian Sea off the Kanara-Malabar coast on the morning of the 24th and persisted there till the 29th after which it became unimportant. It was responsible for local or widespread thundershowers in south Deccan (Desh) and Mysore between the 24th and the 29th and local thundershowers in north Deccan (Desh) and west Hyderabad on the 25th.

Seven western disturbances and one secondary disturbance moved across the northern parts of the country as set out in the following table. Out of these, only the first and the last two were fairly active and were responsible for widespread or local thundershowers in the Punjab(I) and west Uttar Pradesh between the 1st and 3rd and between the 29th and the 31st. In association with western disturbances, duststorms were also reported locally over the Punjab (I) and northwest Uttar Pradesh on the 1st and 2nd and between the 24th and the 27th.

MAY 1951

Statement of Western Disturbances

No.	Period	Course	Region	Nature of precipitation	Period	Remarks
1.	1st-4th	Lay practically stationary over southern districts of Punjab (P) and of Punjab (I).	Hills of Punjab (I)	Widespread thundershowers	on 1st.	
			West Uttar Pradesh and east Rajasthan	Local thundershowers	on 1st.	
			Punjab (I)	Local thundershowers	on 2nd.	
			West Uttar Pradesh	Widespread thundershowers	on 2nd.	
			North Madhya Bharat and east Rajasthan	Local thundershowers	on 2nd.	
			Hills of Punjab (I) and west Uttar Pradesh and east Rajasthan	Local thundershowers	on 3rd.	
			West Uttar Pradesh	A few thundershowers	on 3rd.	
2.	4th-6th	Baluchistan to western Himalayas.	Kashmir	Local falls of rain or snow	on 6th.	
3.	11th-14th	Baluchistan-Punjab (P) Kashmir.	Kashmir	A few falls of rain	on 9th.	

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Statement of Western Disturbances.—contd.

No.	Period	Course	Region	Nature of Precipitation	Period	Remarks
4.	11th-14th	North Baluchistan and Upper Sind to western Himalayas.	West Rajasthan	Local duststorms	on 14th	
5.	23rd-27th	Baluchistan—west Rajasthan—Hills of west Uttar Pradesh	Punjab (I) and west Uttar Pradesh.	Local thundershowers	on 24th.	
			West Rajasthan	A few thundershowers	on 24th.	
			West Uttar Pradesh	Local thundershowers	on 25th.	
			Punjab(I).	A few thundershowers	on 25th.	
			West Uttar Pradesh & hills of Punjab(I).	A few thundershowers	on 26th.	
			Uttar Pradesh	A few thundershowers	on 27th.	
			Punjab(I)	A few thundershowers	on 27th.	
			West Uttar Pradesh	A few thundershowers	on 28th.	
6.	27th-29th	Baluchistan-Simla Kumaon hills	Hills of west Uttar Pradesh	Local thundershowers	on 29th.	
			Punjab(I)	Fairly widespread thundershowers	on 30th.	
6(a).	30th-1st June (Secondary).	Southwest Uttar Pradesh and north Madhya Bharat to Vindhya Pradesh and southeast Uttar Pradesh.	Uttar Pradesh and the central parts of the country	A few thundershowers	on 30th.	
			East Uttar Pradesh	Local thundershowers	on 1st June.	
7.	30th-1st June	Punjab(P)—Rajasthan—Hills of west Uttar Pradesh.	West Rajasthan	A few thundershowers	on 30th.	
			West Rajasthan, Punjab (I) and in and near hills of west Uttar Pradesh	Widespread thundershowers	on 31st.	
			Hills of Punjab(I) and of west Uttar Pradesh	Widespread thundershowers	on 1st June.	
			Plains of Punjab(I) and of west Uttar Pradesh	A few thundershowers	on 1st June.	

N. B.—Data from Jammu and Kashmir incomplete.

The southwest monsoon advanced into the Andaman Sea by the 29th, and in Comorin area the southeast and east central Bay of Bengal on the 30th, and into Travancore-Cochin on the 31st. In association with the advance of the monsoon, widespread thundershowers occurred in Travancore-Cochin on the 31st.

Day temperatures over most of the country were below normal in the beginning of the month. They, however, began to rise over the country after the 4th and a heat wave enveloped Gangetic West Bengal, Chota Nagpur, Bihar, east Uttar Pradesh and north Orissa between the 11th and 20th. Temperatures exceeding 110°F were recorded at many places in these divisions during this period. Calcutta recorded 107°F (12°F above normal) on the 11th while in Asansol the temperature shot up to 115°F (15°F above normal) on the 20th. A few deaths due to heat strokes were reported from West Bengal, Bihar, Uttar Pradesh and Madhya Pradesh. The heat wave began to abate after the 20th and during the last week of the month, day temperatures were again well below normal over most of the country.

Total rainfall for the month was in large excess in west Rajasthan, Deccan (Desh), Rayalaseema and Mysore, in moderate excess in east Madhya Pradesh and north Hyderabad, in slight excess in west Uttar Pradesh and Tamilnad and normal in west Madhya Pradesh and coastal Andhradesa. It was in slight defect in Orissa, the Punjab(I) and south Hyderabad, in moderate defect in the Bay Islands, Assam, West Bengal, Chota Nagpur, Bihar, east Rajasthan, Vindhya Pradesh, Malabar and south Kanara and Travancore-Cochin and in large defect in east Uttar Pradesh, Madhya Bharat, Gujarat and the Konkan. There was no rainfall in Saurashtra and Kutch. Averaged over the plains of India the rainfall for the month was 12 per cent. in defect.

Maximum temperature was above normal in the Bay Islands, West Bengal, and Bihar and normal elsewhere. Minimum temperature was normal all over the country.

Relative humidity was in excess in the Punjab(I), west Rajasthan, east Madhya Pradesh and Mysore; in defect in Chota Nagpur and east Uttar Pradesh and normal elsewhere.

Total cloud amount was in excess in west Uttar Pradesh, the Punjab(I), Rajasthan, Madhya Bharat, west Madhya Pradesh, Deccan (Desh) and Hyderabad; in defect in northeast India outside Assam, east Uttar Pradesh, Vindhya Pradesh and Gujarat and normal elsewhere.

Data from Jammu and Kashmir are not available.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amounts for the 13 chief political divisions and the 27 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 :
Dated the 20th November, 1951.

S. BASU
for *Director General of Observatories.*

TABLE 1—DIVISIONAL AND SUB-DIVISIONAL MEANS—MAY 1951.

	Rainfall.				Departure from normal of,				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—									
Assam (including Manipur and Tripura).	7·90	11·82	−3·92	−33	−0·2	−0·3	+0·1	+1	+0·1
West Bengal	4·73	6·70	−1·97	−29	+2·4	+1·0	−0·7	−3	−1·0
Orissa	2·44	2·77	−0·33	−12	−0·8	−0·8	−1·1	−1	−1·1
Bihar	1·20	1·92	−0·72	−37	+2·2	+0·7	−2·0	−7	−1·2
Uttar Pradesh	0·44	0·70	−0·26	−37	+0·4	+0·2	−1·4	−3	+0·2
Punjab (I) (including PEPSU and Delhi).	0·48	0·58	−0·10	−17	−0·8	−1·0	+0·5	+6	+0·3
Rajasthan	0·68	0·47	+0·21	+45	−0·8	−0·4	0	+1	+0·4
Sub-Division—									
Bay Islands	10·19	15·13	−4·94	−33	+2·3	+1·0	−0·6	−3	+0·2
Assam (including Manipur & Tripura).	7·90	11·82	−3·92	−33	−0·2	−0·3	+0·1	+1	+0·1
West Bengal	4·73	6·70	−1·97	−29	+2·4	+1·0	−0·7	−3	−1·0
Orissa	2·44	2·77	−0·33	−12	−0·8	−0·8	−1·1	−1	−1·1
Chota Nagpur	1·44	2·10	−0·66	−31	+1·9	0	−3·2	−11	−1·0
Bihar	1·07	1·81	−0·74	−41	+2·4	+1.4	−0·8	−4	−1·4
Uttar Pradesh, East.	0·10	0·75	−0·65	−87	+1·5	+0·3	−2·5	−8	−0·6
Uttar Pradesh, West.	0·77	0·64	+0·13	+20	−0·6	+0·1	−0·3	+1	+1·1
Punjab (I) (including PEPSU & Delhi).	0·48	0·58	−0·10	−17	−0·8	−1·0	+0·5	+6	+0·3
Jammu & Kashmir.	Data incomplete								
Rajasthan, West.	1·08	0·39	+0·69	+177	−1·1	−0·4	+3·3	+8	+0·5
Rajasthan, East (including Ajmer).	0·28	0·55	−0·27	−49	−0·6	−0·4	−2·6	−5	+0·4
Madhya Bharat	0·22	0·55	−0·33	−60	+0·2	−0·1	−3·2	−5	+0·7
Vindhya Pradesh	0·22	0·42	−0·20	−48	+0·7	−1·2	+0·7	+1	−0·4

	Rainfall.				Departure from normal of				
							0830 hrs. I. S. T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—*contd.*									
8. Madhya Bharat & Vindhya Pradesh.	0·22	0·50	−0·28	−56	+0·4	−0·5	−1·5	−3	+0·2
9. Madhya Pradesh	1·01	0·81	+0·20	+25	−0·4	+0·2	+0·6	+4	+0·2
10. Bombay (including Saurashtra and Kutch).	0·98	1·01	−0·03	−3	+0·4	+0·4	+0·5	+2	0
11. Hyderabad	1·06	0·95	+0·11	+12	0	+0·5	−0·5	−1	+0·8
12. Madras (including Travancore-Cochin).	3·00	3·13	−0·13	−4	−1·0	+0·2	−0·1	+1	+0·3
13. Mysore	6·51	4·29	+2·22	+52	−0·9	+0·2	+0·7	+6	+0·5
Mean of India	1·72	1·96	−0·24	−12	−0·1	0	−0·3	0	+0·1
Sub-Division—*contd.*									
15. Madhya Pradesh, East.	1·83	1·24	+0·59	+48	−1·9	−1·1	+2·2	+9	0·3
16. Madhya Pradesh, West.	0·50	0·54	−0·04	−7	+0·6	+1·1	−0·4	+1	+0·5
17. Gujarat	0·03	0·37	−0·34	−92	+1·0	+0·4	−0·1	0	−0·5
18. Saurashtra and Kutch.	0	0·29	−0·29	−100	−0·5	−0·2	+1·1	+5	−0·3
19. Konkan	0·73	2·09	−1·36	−65	−0·2	−0·4	+1·0	+3	+0·4
20. Deccan (Desh)	2·04	1·25	+0·79	+63	+1·0	+1·1	+0·1	0	+0·5
21. Hyderabad, North.	1·13	0·77	+0·36	+47	0	+0·8	−0·7	−2	+0·8
22. Hyderabad, South.	0·99	1·13	−0·14	−12	0	+0·2	−0·4	0	+0·8
23. Coastal Andhradesa.	1·80	1·84	−0·04	−2	−1·4	−0·5	−0·5	+2	−0·4
24. Rayalaseema	3·55	1·63	+1·92	+118	−1·5	+0·1	+0·6	+1	+0·6
25. Tamilnad	2·67	2·16	+0·51	+24	−1·3	+0·5	−0·4	+1	+0·5
26. Malabar & South Kanara.	4·95	7·73	−2·78	−36	+0·5	+0·8	+0·7	+1	+0·7
27. Mysore	6·51	4·29	+2·22	+52	−0·9	+0·2	+0·7	+6	+0·5
28. Travancore-Cochin.	5·23	10·23	−5·00	−49	+0·9	+0·5	+0·7	−1	+0·1

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION.	Height of bar. above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure millibars.			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Bay Islands																					
Port Blair	259	1001·1	+1·2	998·6	89·0	+2·3	92	17	76·0	+1·0	73	6	84·7	80·6	78·4	76·6	30·0	−0·6	29·5	75	−3
Assam																					
Dibrugarh	348	996·7	+0·6	992·9	84·8	+0·3	94	31	70·5	−0·2	63	6	77·5	79·4	73·1	74·2	25·8	−0·7	26·5	81	−2
Mohanbari (R)	364																				
Sibsagar	317	998·0	+1·1	994·1	85·8	+0·6	94	31	72·2	+0·5	65	5	78·7	80·4	74·0	75·9	26·8	−0·7	28·5	80	−4
Tezpur	258	1000·4	+1·3	995·7	86·6	−0·2	95	9	72·4	+0·1	65	6	78·4	83·2	74·0	75·8	26·7	−0·1	27·1	81	0
Gauhati D. Type	162	1002·6	...	998·0	86·7	...	97	19	71·9	...	67	6	79·3	86·8	74·7	77·4	27·4	...	27·7	80	...
Gauhati	182	1002·3	+1·5	996·8	86·5	−1·2	96	19	72·1	−0·3	66	5	78·5	83·3	74·3	75·3	27·4	+0·4	26·3	82	+3
Dhubri	115	1004·5	+1·6	1000·1	84·5	−1·3	93	19,20	73·2	+0·2	67	21	77·6	82·7	74·4	77·2	27·9	+0·5	29·4	86	+4
Silchar	96	1006·1	+1·7	1001·2	87·5	−1·2	95	9	71·8	−0·8	67	3,4,20	78·1	84·6	74·1	77·0	27·0	−1·2	28·3	83	+3
Tura	1,215	967·0	...	963·3	85·5	...	99	19	72·1	...	65	1,3,21	79·0	82·7	72·9	75·1	25·0	...	26·4	74	...
West Bengal																					
Dum Dum	33	1005·0	...	1001·0	98·4	...	108	10	79·1	...	70	2	87·3	91·0	79·0	78·4	29·7	...	27·6	68	...
Calcutta	21	1005·5	+1·1	1001·5	99·1	+3·5	107	12	80·3	+2·8	70	2	88·2	91·0	80·7	80·5	32·3	+0·8	30·8	71	−3
Saugor Island	10	1005·9	+1·1	1002·3	89·9	−1·1	91	4 days	82·2	+1·6	73	22	86·6	86·0	80·6	80·4	33·0	−0·4	33·1	76	+1
Sandheads	32	1005·0	+0·6	1001·7	..	..	..	..	..	..	..	..	84·9	84·6	81·0	81·0	34·2	+0·1	34·7	84	+5
Midnapore	149	1000·9	+1·2	996·6	102·4	+2·5	114	14	77·7	−1·0	71	23,28,29	88·0	92·2	78·2	79·6	28·2	−2·0	28·9	64	−5
Contai	35	1004·3	...	1000·3	92·6	...	97	7	79·5	...	63	3	87·2	86·9	80·6	80·8	33·0	...	33·3	73	...
Burdwan	106	1002·0	+0·8	997·9	102·7	+4·6	111	10,13	78·4	+0·9	71	2,28	86·5	98·2	78·1	76·9	28·8	−1·7	21·6	68	−6
Krishnagar	48	1004·6	+1·2	1000·1	102·4	+5·7	112	10	77·6	+1·0	69	2,3	86·5	94·1	79·2	78·1	30·4	−0·3	25·6	72	−3
Asansol	414	991·4	+1·3	986·6	105·3	+3·1	115	21	79·1	+0·9	71	3	89·8	98·4	76·2	74·9	25·9	−2·0	19·9	54	−9
Berhampore	62	1004·1	+0·9	999·2	101·8	+4·7	111	13,20	77·8	+1·1	72	3	86·4	95·5	78·0	77·1	29·0	−0·9	23·2	67	−6
Malda	103	1002·7	+0·9	998·1	98·5	+3·1	111	19,20	76·5	+1·2	69	1,3	85·6	93·8	78·3	78·6	29·0	+0·4	26·8	71	0
Cooch Behar	145	1003·1	...	998·4	87·9	...	95	19	72·7	...	67	1	79·0	85·4	73·8	77·1	26·4	...	27·7	78	...
Jalpaiguri	271	998·6	+1·3	994·3	86·9	−2·6	93	19	72·9	+0·3	66	1,3	78·0	85·3	73·3	76·9	26·2	−1·0	27·6	79	0
Bagdogra	418	993·2	...	989·0	88·5	...	93	19,26	73·1	...	67	1,3,5	80·6	85·0	74·1	76·5	25·8	...	27·3	73	...
Orissa																					
Balasore	65	1003·6	+1·1	999·7	99·0	+1·9	109	15	79·1	+0·3	71	23,28	87·1	89·3	79·4	80·4	30·8	−0·2	31·4	70	0
Chandbali	20	1005·4	+1·4	1001·5	99·9	+2·5	109	10	78·9	−0·3	69	2	87·8	90·3	80·1	79·7	31·9	0	30·0	71	−2
Puri	20	1006·4	+1·9	1002·7	88·3	−1·3	92	30	80·3	−0·8	71	22	84·8	84·6	80·4	81·1	33·3	−0·8	34·6	82	+1
Cuttack	87	1003·0	+0·7	998·9	102·0	+0·6	110	14	79·5	−0·4	71	2,3	86·2	93·1	78·3	78·6	29·3	−1·9	26·8	69	−1
Gopalpur	56	1005·1	+1·9	1001·5	89·5	−0·9	92	28,29,30	79·3	−0·8	70	3	84·4	83·9	79·3	79·9	32·0	−1·6	33·1	79	0
Koraput	2,996	909·2	...	906·2	92·5	...	97	4 days	71·0	...	63	3,5	81·1	84·4	72·5	71·4	23·9	...	21·0	66	...
Angul	455	991·2	+2·1	986·2	100·2	−3·3	110	15	78·6	−0·4	69	3	87·3	99·0	77·4	78·4	27·4	−1·2	23·9	63	−3
Samalpur	486	989·9	+1·9	984·7	104·9	−1·6	112	16,17,18	78·3	−2·9	69	3	92·2	102·7	75·9	77·3	23·2	−0·9	20·5	46	−2
Jharsuguda	726	981·5	...	976·3	...	...	...	...	...	...	...	...	91·4	100·9	75·8	75·1	23·5	...	17·7	47	...
Titilagarh	691	983·2	...	978·2	105·0	...	112	16,17,18	79·3	...	70	3	88·0	100·3	73·4	75·7	21·6	...	19·3	49	...
Chota Nagpur																					
Purulia	835	977·4	...	973·5	105·0	...	113	21	79·8	...	70	2	90·1	97·5	74·5	76·2	22·2	...	21·0	48	...
Jamshedpur	423	991·4	+2·0	986·3	105·5	+2·6	113	15,21	79·1	−0·1	71	23	89·6	98·9	74·4	74·4	22·4	−4·0	18·0	48	−10
Chaibasa	742	980·5	+1·5	975·6	106·2	+2·2	113	18,21	80·5	+1·3	70	23	89·7	100·4	74·3	73·2	21·8	−4·3	15·9	48	−11
Ranchi	2,150	934·3	+1·5	930·6	100·7	+2·1	108	18	75·3	0	66	24	88·7	93·2	69·0	68·9	16·5	−2·8	14·0	36	−11
Hazaribagh	2,004	938·8	+1·8	935·1	101·5	+2·1	109	21,22	75·3	−0·2	67	1	90·3	94·3	68·2	68·3	14·7	−3·8	13·0	32	−13
Daltonganj	725	980·5	+1·3	975·8	106·8	+0·6	114	21,22	77·7	−0·1	72	6	93·9	101·7	72·6	72·3	17·7	−1·3	13·7	32	−8
Dhanbad	839	976·8	...	972·5	104·0	...	114	21	77·8	...	69	3	89·7	97·3	73·2	71·2	20·4	...	14·4	46	...

(R) Register not received.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :— 0830 hrs. I. S. T.									1730 hrs. I. S. T.									STATION.
0830 hrs. I.S.T.	Departure from normal.	Mean. 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
4	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bay Islands
·8	+0·2	5·8	10·19	—4·94	2·48	29	20	7	6·2	—2·4	0	1	1	0	0	2	21	4	2	0	2	1	0	0	2	17	5	4	Port Blair
																													Assam
·3	—0·1	6·0	8·48	—3·61	2·12	19	9	—6	1·6	+0·4	5	4	7	0	2	2	3	7	1	1	3	4	0	3	1	0	1	18	Dibrugarh
																													Mohanbari (R)
·5	—0·8	5·8	12·13	+0·07	2·26	20	11	—4·6	3·2	+0·8	7	9	2	3	2	2	1	2	3	5	8	1	1	5	5	0	2	4	Sibsagar
·3	+0·1	4·6	5·16	—5·49	1·48	21	12	—3·3	1·9	—0·9	0	3	16	2	0	2	1	0	7	0	2	10	1	0	0	1	1	16	Tezpur
·1	...	3·7	6·78	...	1·89	10	11	...	2·9	...	3	11	2	0	4	3	0	5	3	1	7	0	0	1	1	1	1	11	Gauhati D. Type
·5	+0·5	3·8	6·76	—2·53	1·80	10	12	—1·5	2·5	+0·6	6	6	2	2	2	3	4	4	2	1	7	6	2	2	5	1	1	6	Gauhati
·6	+0·6	3·8	10·41	—5·38	1·99	9	12	—3·5	4·5	—1·2	3	12	4	3	2	1	0	1	5	1	12	3	0	1	6	2	0	6	Dhubri
·1	+0·1	3·6	9·17	—7·25	1·56	28	19	+2·6	1·5	—0·5	1	7	8	4	1	1	2	2	5	0	2	5	1	0	3	1	2	17	Silchar
·3	...	3·9	8·21	...	1·62	14	14	...	5·4	...	1	4	1	9	6	4	0	1	5	2	1	3	7	4	11	0	1	2	Tura
																													West Bengal
·5	...	3·2	3·02	...	1·98	2	3	...	10·6	...	0	2	2	4	11	11	1	0	0	0	0	2	2	18	8	0	0	1	Dum Dum
·4	—1·8	2·8	3·20	—2·29	1·89	2	3	—3·9	5·3	+0·3	0	1	2	1	7	13	2	0	3	0	2	0	5	11	10	0	0	3	Calcutta
·0	—1·0	3·5	2·06	—2·46	1·35	28	2	—3·5	19·5	+6·0	0	1	1	0	7	20	2	0	0	0	0	1	0	15	15	0	0	0	Saugor Island
·1	—0·7	2·5	1·20	—0·77	0·82	28	3	—0·2	..	..	0	0	0	0	4	25	1	0	1	0	0	0	0	7	23	1	0	0	Sandheads
·2	—1·7	3·3	5·07	+0·33	0·98	22	8	+1·1	5·0	+0·7	1	0	1	1	17	7	1	0	3	1	1	0	1	22	1	0	0	5	Midnapore
·5	...	2·9	4·27	...	1·37	2	5	...	11·1	...	1	0	1	3	7	17	0	0	2	0	0	0	4	15	12	0	0	0	Contai
·5	—3·7	1·3	1·05	—4·91	0·97	28	1	—6·2	6·6	+3·4	1	2	3	5	8	11	1	0	0	0	2	3	4	8	10	4	0	0	Burdwan
·3	—1·7	3·5	2·84	—3·87	0·80	27	5	—2·9	6·5	+0·9	0	1	7	2	19	0	2	0	0	4	3	6	2	12	0	3	0	1	Krishnagar
·1	—2·0	3·7	2·60	—0·33	0·84	28	5	+0·6	5·5	—0·2	0	0	8	6	3	3	3	3	5	1	2	4	4	2	0	6	10	2	Asansol
·2	—1·2	3·3	1·85	—3·48	0·35	21	8	+0·7	3·5	—0·3	0	0	9	4	10	3	0	0	5	2	3	8	3	6	1	1	0	7	Berhampore
·3	—0·1	2·2	0·94	—3·66	0·53	1	3	—2·6	6·1	+0·5	0	7	10	8	4	2	0	0	0	3	6	9	5	2	2	1	3	0	Malda
·7	...	3·8	10·94	—5·83	3·30	27	15	—0·5	4·2	...	0	4	20	0	1	0	0	0	6	1	6	5	1	2	0	1	0	15	Cooch Behar
·5	+1·7	3·0 (a)	13·44 (a)	+1·62	3·96	14	13	—0·1	5·7 (a)	+3·2	3	6	18	1	1	0	0	0	2	1	6	17	2	3	0	1	0	1	Jalpaiguri
·4	...	4·2	8·60	...	...	...	...	...	5·1	...	0	8	16	3	1	0	0	1	1	1	5	11	5	2	0	0	0	6	Bagdogra
																													Orissa
·5	—1·0	4·4	6·72	+2·09	1·81	19	7	+1·1	8·3	+2·6	0	1	0	0	13	15	1	0	1	2	0	1	11	13	4	0	0	0	Balasore
·9	—0·8	4·4	2·89	—2·69	1·35	28	4	—1·4	...	...	0	0	0	5	1	19	1	2	2	0	1	1	18	0	8	0	1	1	Chandbali
·7	—0·1	4·7	1·11	—1·75	0·52	2	2	—1·2	14·8	+1·5	1	1	0	1	1	23	4	0	0	0	2	1	0	6	21	1	0	0	Puri
·9	—2·0	3·6	3·19	—0·38	1·53	30	6	+0·8	5·4	+1·6	0	0	0	0	2	3	0	0	26	0	0	0	1	10	8	0	0	12	Cuttack
·1	—0·3	4·3	1·26	—0·87	0·67	23	2	—1·1	15·3	+2·5	1	0	1	0	11	11	1	2	4	1	0	1	0	11	16	0	0	2	Gopalpur
·8	...	5·3	2·76	...	1·53	29	7	...	8·3	...	0	1	0	0	4	13	12	1	0	3	0	2	4	5	4	7	6	0	Koraput
·0	2·5	4·5	0·94	—1·41	0·30	22	4	—0·7	5·6	0	3	4	5	2	1	0	3	3	10	0	2	2	4	6	4	5	7	1	Angul
·5	—0·9	2·2	1·42	+0·34	0·57	23	3	+0·7	4·2	+0·9	1	2	1	1	8	13	4	1	0	1	0	0	2	10	9	6	1	2	Sambalpur
·3	...	2·8	1·71	...	0·73	2	4	...	...	...	1	1	2	3	7	3	0	3	11	0	0	0	1	2	5	5	5	13	Jharsuguda
·2	...	3·6	2·88	...	0·76	29	6	...	3·3	...	0	0	0	7	11	8	2	0	3	0	1	1	1	1	2	2	2	21	Titilagarh
																													Chota Nagpur
·0	...	4·1	1·35	...	0·38	23	4	...	3·8	...	0	0	7	8	0	7	7	0	2	2	0	1	6	2	2	7	6	5	Purulia
·6	—2·2	3·8	1·67	—1·46	0·75	23	3	—2·1	4·6	+0·4	1	0	6	1	0	2	12	5	4	2	3	5	4	1	2	3	7	4	Jamshedpur
·2	+0·7	6·6	1·95	—0·79	1·82	23	2	—3·2	2·8	+0·2	1	2	0	1	2	20	2	0	3	2	2	0	2	3	11	2	4	5	Chaibasa
·4	—1·8	2·4	2·17	+0·05	1·32	27	3	—1·1	3·3	—1·6	1	0	0	0	1	5	0	1	23	4	0	2	0	2	0	1	1	21	Ranchi
·7	—0·7	2·9	1·34	—0·62	0·40	2,27	4	+0·6	6·2	—0·9	1	1	1	0	6	8	2	7	5	4	2	1	1	2	3	0	17	1	Hazaribagh
·6	—0·8	2·4	2·07	—0·50	0·07	24	0	—1·3	3·8	—0·6	0	1	4	2	0	1	6	6	11	2	1	1	0	3	1	2	21	0	Daltonganj
·0	...	3·3	1·29	...	0·60	22	3	...	6·2	...	0	2	4	4	4	7	7	0	3	7	6	3	1	2	2	2	7	1	Dhanbad

(a) Mean or total for 30 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M.

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	2
Bihar																						
Purnea	124	1002·4	+1·2	997·8	95·0	+0·2	107	19	74·9	+0·5	67	1,3,21	83·7	91·2	76·3	79·4	27·5	+0·3	28·6	70	—2	6
Darbhanga	161	1000·6	+1·3	995·7	98·8	+2·6	108	19	78·0	+2·5	67	1	86·6	95·7	76·8	75·6	27·0	+1·5	21·2	62	—2	3
Motihari	218	998·4	+1·3	993·5	101·5	+4·4	109	21	74·5	—0·2	60	8	87·1	93·1	76·1	75·1	25·8	—0·5	21·6	59	—4	4
Patna	173	999·3	+1·1	994·6	104·2	+3·9	111	18,19	79·3	+1·2	73	3,30	88·3	99·5	75·0	73·5	23·3	—1·9	16·4	52	—6	2
Dehri	352	992·3	...	988·3	107·6	...	116	21	81·7	...	75	6	87·5	102·4	70·1	72·3	17·2	...	13·6	40	...	1
Gaya	365	992·1	+1·1	987·5	107·8	+3·2	115	21	81·3	+1·5	75	1	94·8	103·6	70·6	71·3	14·8	—4·9	11·3	28	—8	1
Jamui	270	996·1	...	992·3	105·3	...	113	20	79·2	...	73	1	92·1	99·2	78·9	78·8	28·0	...	24·1	57	...	4
Dumka	489	988·7	+0·7	984·6	103·4	+4·4	114	20	...	...	...	...	87·5	98·3	75·3	73·3	24·7	—1·7	16·7	54	—8	3
Sabour	122	1001·5	+1·4	996·8	100·5	+2·2	112	20	76·9	+1·2	69	1	86·5	96·5	76·6	76·5	26·8	+1·0	22·1	63	—1	4
Bhagalpur	181	1000·1	...	995·2	101·7	...	112	20	78·1	...	69	1	88·2	96·8	76·8	76·1	26·1	...	21·8	59	...	3
U. P., East																						
Gonda	360	992·8	...	988·3	105·6	+2·9	113	21	77·8	0	71	4 days	89·2	103·0	70·5	71·1	18·4	—2·3	11·4	37	—10	1
Gorakhpur	254	995·8	+0·2	991·2	103·9	+2·5	111	21	79·2	+2·3	72	1	88·0	101·8	73·9	73·4	22·3	—2·1	15·3	49	—9	2
Azamgarh	255	995·9	...	991·9	106·7	...	113	15,20,21	78·4	...	71	3	90·5	102·4	72·4	73·7	19·6	...	15·3	41	...	2
Banaras	250	996·1	+1·1	991·6	107·2	+1·8	114	21	79·6	+0·4	72	3	91·8	104·7	72·4	7[illegible]·3	18·4	—3·3	15·3	37	—8	21
Allahabad (Bamraulli).	322	993·9	+1·1	989·8	107·0	—0·1	115	21	78·2	—1·7	72	3	93·1	104·7	72·5	74·4	18·0	—0·4	16·0	35	—1	21
Fatehpur	375	992·2	...	988·0	107·1	—0·1	115	21,22	80·0	—0·5	71	2	91·8	103·8	70·2	73·2	15·7	—5·2	14·3	33	—11	19
Banda	398	991·3	...	987·5	(b) 108·4	...	116	21,22	80·7	...	70	2	92·6	105·0	72·1	76·8	18·0	...	18·7	34	...	26
Orai	463	988·9	...	984·9	108·0	...	115	21,22	80·6	...	67	2	93·6	105·5	72·3	73·9	17·5	...	14·4	33	...	20
Kanpur	414	991·1	+1·9	986·9	106·7	+0·5	115	22	80·5	+0·1	70	2	92·3	104·1	70·1	72·5	15·1	—2·8	13·0	30	—7	18
Lucknow	371	992·5	+1·6	988·3	107·1	+1·7	115	21	80·1	+1·8	72	3	91·3	103·0	71·2	73·4	16·9	—3·3	14·6	34	—9	21
Hardoi	467	988·3	...	984·8	105·3	...	113	20	77·9	...	71	3,4	89·0	102·6	71·6	75·2	18·4	...	17·6	40	...	24
Kheri	483	988·7	...	984·1	104·6	...	113	21	76·8	...	69	2,5	89·6	101·6	71·2	73·9	18·0	...	16·7	38	...	25
Bahraich	407	991·2	+1·4	986·8	105·4	+3·1	113	21	77·0	—0·2	70	4 days	89·6	102·0	73·3	74·8	21·5	—0·6	18·7	43	—8	26
U. P., West																						
Jhansi	823	977·6	+1·4	973·2	105·7	—2·8	115	21	81·9	—0·7	70	2	91·9	105·6	70·3	72·3	15·7	—0·1	12·1	31	+1	16
Agra	553	986·7	+2·1	(a) 982·9	105·8	—0·4	113	21,22	79·1	+0·9	66	2	88·5	(a) 102·3	69·4	(a) 74·0	16·0	+2·0	(a) 16·0	35	+8	(a) 23
Mainpuri	516	987·5	+1·9	983·7	107·4	0	114	21,22	78·8	+0·6	70	2	90·6	102·5	70·5	71·2	16·9	—0·8	12·1	24	—3	19
Aligarh	615	984·2	...	980·7	105·5	+0·2	112	20,21,22	77·9	—1·5	71	3,10	89·5	99·8	68·0	72·3	13·3	—1·5	14·8	38	+7	28
Bareilly	568	985·6	+0·9	981·4	104·1	+1·0	113	21	77·8	+0·7	69	2,3	87·7	101·2	71·0	74·8	18·9	—1·8	17·1	42	—4	27
Meerut	728	979·8	+1·3	...	101·7	—1·4	110	21,22	76·6	+1·1	67	2,3	84·6	...	68·4	...	17·0	—0·8	...	41	+1	...
Roorkee	899	974·4	+1·3	970·9	100·7	—1·5	110	21,22	71·9	—2·1	63	5	82·7	97·2	67·7	70·2	16·6	+0·5	12·8	44	+5	24
Dehra Dun	2,239	930·6	+1·3	(a) 928·0	95·9	—0·1	104	20,21,23	69·5	—0·6	60	2,4	81·1	91·9	64·9	65·4	14·6	—0·5	13·6	41	—3	24
Punjab (I)																						
New Delhi	710	980·7	+1·5	977·2	103·5	—1·3	110	20,21,22	78·6	—0·2	69	3	88·4	100·0	68·5	71·5	15·3	—1·3	12·1	33	—3	21
Hissar	725	980·2	+1·6	977·2	105·3	0	115	22,23	75·7	—0·3	67	9	83·3	103·2	68·6	74·2	17·2	+0·3	15·5	45	+9	22
Karnal	818	976·7	...	973·6	101·4	...	111	2,22	74·9	...	65	2,3	84·0	98·0	67·9	69·9	16·2	...	12·4	43	...	22
Ambala	892	973·5	+0·6	970·9	103·5	—0·4	115	22	75·1	—0·7	65	3	(b) 80·8	105·0	(b) 67·1	72·2	(b) 17·5	+2·1	14·1	(b) 47	+16	24
Patiala	822	976·4	...	973·6	102·8	...	115	22	75·3	...	64	3	84·3	97·6	70·6	75·2	19·4	...	19·0	49	...	33
Ludhiana	810	977·2	+1·7	974·6	102·5	—1·6	115	23	72·8	—2·9	62	4	84·7	99·7	68·2	71·7	16·3	+0·9	14·1	41	+3	22
Ferozepore	657	982·6	...	980·5	101·8	...	115	23	72·6	...	63	3	84·6	94·7	68·8	68·8	16·9	...	12·5	42	...	26
Amritsar	756	978·7	...	976·3	100·0	...	112	23	69·4	...	60	4	83·2	96·6	68·7	71·4	17·2	...	15·5	46	...	26
Jammu and Kashmir																						
Srinagar	5,205	842·0	+1·5	839·6	72·2	—4·8	88	24	52·2	+1·3	41	2	59·4	69·6	54·9	59·2	12·9	—1·0	13·6	77	—1	57
Gulmarg	8,709							Closed during winter months.														

(a) Mean of 30 days.

(b) Mean of 29 days.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	
																														Bihar
·3	−1·1	2·2	3·55	−0·63	1·81	1	5	−0·5	5·2	+1·8	0	5	25	0	0	0	1	0	0	2	5	10	0	0	0	0	1	13		Purnea
·8	−1·6	0·8	1·75	−0·76	1·50	28	2	−1·5	4·2	−0·2	0	10	16	5	0	0	0	0	0	0	3	10	1	0	0	3	3	11		Darbhanga
·0	−0·8	1·8	0·65	−1·99	0·62	28	1	−2·8	4·7	−0·3	0	0	25	0	0	0	2	0	4	0	1	10	0	0	0	5	1	14		Motihari
·8	−1·0	1·3	0·48	−0·92	0·48	30	1	−1·3	6·1	+1·0	2	15	11	1	0	1	1	0	0	1	9	2	2	0	0	3	13	1		Patna
·3	...	1·5	0	−0·63	0	...	0	−1·2	4·8	...	1	4	3	5	1	11	1	2	3	2	9	1	1	0	0	0	18	0		Dehri
·4	−1·2	1·8	0·17	−0·76	0·17	1	1	−0·7	7·8	+1·8	0	3	3	4	3	9	6	1	2	5	4	1	1	0	0	8	11	1		Gaya
·7	...	2·3	1·15	...	1·15	26	1	...	5·1	...	1	2	14	6	0	0	1	6	1	2	2	5	2	0	0	3	16	1		Jamui
·6	−2·1	2·0	1·38	−2·23	0·38	23	5	−0·1	...	...	1	1	6	14	0	5	2	2	0	2	5	3	4	0	5	4	8	0		Dumka
·7	−2·1	2·1	1·92	−0·23	1·10	1	4	+0·4	6·4	−0·5	4	4	14	7	0	1	0	0	1	7	6	9	3	0	0	2	4	0		Sabour
·0	...	1·9	2·35	...	1·25	1	3	...	6·4	...	1	4	16	6	1	0	0	0	3	3	3	12	2	1	1	3	6	0		Bhagalpur
																														U. P., East
·6	−0·9	1·3	0	−1·03	0	...	0	−1·9	5·8	+0·7	1	3	18	1	0	0	3	4	1	1	1	5	0	0	0	2	18	4		Gonda
·5	−0·9	1·2	0·39	−0·99	0·39	30	1	−1·5	4·2	+1·3	0	2	20	1	0	0	4	0	4	1	0	4	1	0	6	8	8	3		Gorakhpur
·3	...	0·9	0	...	0	...	0	...	...	...	1	1	10	2	0	1	5	0	11	1	1	6	1	0	1	19	0	2		Azamgarh
·4	−1·0	1·1	0·29	−0·24	0·29	27	1	−0·1	6·8	+2·9	0	1	7	1	2	6	12	1	1	2	3	3	0	0	0	12	11	0		Banaras
·9	−0·5	1·5	0	−0·63	0	...	0	−1·2	4·7	0	2	1	6	2	1	5	7	4	3	3	5	0	0	1	2	13	7	0		Allahabad (Bamrauli)
·7	−0·6	1·5	0	−0·14	0	...	0	−0·6	3·7	−0·3	0	0	5	1	1	1	8	4	11	0	1	4	0	0	1	4	20	1		Fatehpur
·5	...	0·8	1·26	...	1·14	26	2	...	3·6	...	2	2	4	1	2	1	10	2	7	0	2	2	0	0	1	17	8	1		Banda
·8	...	1·7	0·10	...	0·10	2	1	...	6·3	...	4	0	3	1	4	5	7	7	0	2	1	0	3	1	1	5	18	0		Orai
·7	0	1·8	0·01	−0·31	0·01	1	0	−1·0	8·2	+0·3	3	2	7	0	1	3	10	4	1	1	2	1	1	0	1	11	14	0		Kanpur
·7	−0·5	1·5	0	−0·77	0	...	0	−1·3	3·2	+0·7	4	4	7	2	2	3	4	5	0	5	1	5	0	0	4	6	10	0		Lucknow
·7	...	0·2	0	...	0	...	0	...	5·1	...	5	1	4	7	1	2	7	4	0	3	3	1	3	0	3	5	13	0		Hardoi
·7	...	1·7	0·03	...	0·03	1	0	...	3·6	...	0	0	9	8	0	0	7	6	1	0	0	5	1	0	0	12	10	3		Kheri
·7	−0·5	1·3	0·13	−1·08	0·07	29	0	−2·1	5·9	+2·4	0	0	12	10	0	1	4	3	1	0	1	3	3	0	2	11	10	1		Bahraich
																														U. P., West
·0	−0·2	2·2 (a)	0·10	−0·27	0·07	2	0	−1·0	3·6	−0·7	1	0	0	0	1	1	10	4	14	0	0	0	0	0	1	9	8	13		Jhansi
·1	0	1·0	0·16	−0·22	0·10	29	1	−0·1	3·4	−1·1	0	2	0	0	0	4	4	4	17	0	2	0	1	4	2	3	10	8		Agra
·2	+1·8	2·1	0·04	−0·47	0·04	24	0	−1·2	...	...	1	1	4	3	1	5	9	3	4	1	2	1	2	0	4	10	5	6		Mainpuri
·9	+2·2	2·8	0·06	−0·35	0·06	27	0	−1·2	...	...	0	1	6	0	0	0	7	2	15	0	0	4	0	0	0	14	8	5		Aligarh
·7	+1·3	2·6	1·55	+0·89	1·40	25	2	+0·5	4·1	+1·2	2	1	7	3	0	1	11	2	4	2	0	3	0	0	1	18	1	6		Bareilly
·7	+0·5	...	0·46	−0·14	0·35	2	2	+0·5	6·2	...	2	4	3	1	0	1	8	6	6	...	...	...	...	...	...	...	...	...		Meerut
·6	+1·3	3·1	1·63	+0·87	0·79	25	4	+2·3	4·3	+1·1	0	2	2	8	0	0	0	4	15	0	1	0	6	0	0	0	20	4		Roorkee
·6	+1·7	4·3	2·16	+0·71	1·01	31	5	+2·0	2·5	+0·2	1	1	0	0	1	4	4	1	19	1	1	0	0	0	12	7	0	10		Dehra Dun
																														Punjab (I)
·9	+1·5	3·5	0·07	−0·45	0·06	30	0	−1·6	8·9	...	4	2	3	3	0	4	8	6	1	5	2	3	1	1	1	2	14	2		New Delhi
·7	−0·3	0·7	0·03	−0·51	0·03	31	0	−1·4	4·9	−0·1	3	6	1	1	2	5	5	5	3	3	1	2	1	1	2	7	12	2		Hissar
·1	...	2·3	1·11	...	0·83	24	2	...	4·6	...	2	5	2	3	0	1	5	10	3	1	0	2	4	0	1	9	12	2		Karnal
·9	+1·6	2·0	0·86	+0·13	0·41	30	5	+3·5	6·6	+2·9	1	2	5	1	0	0	0	6	16	0	1	0	1	0	0	1	11	17		Ambala
·4	...	2·9	0·95	...	0·44	24	3	...	6·8	...	9	0	0	9	0	0	1	9	3	3	0	0	5	1	0	0	21	1		Patiala
·7	+1·5	3·3	0·95	+0·42	0·95	31	1	−0·5	3·1	+0·9	2	4	3	3	1	0	5	6	7	0	1	1	2	0	2	8	9	8		Ludhiana
·4	...	2·4	1·20	...	1·14	31	1	...	...	...	3	1	2	1	4	0	0	2	18	4	3	0	2	2	3	1	3	13		Ferozepore
·0	...	2·3	1·10	...	0·97	31	2	...	9·8	...	7	6	5	2	0	1	0	4	6	5	1	2	2	0	2	9	10	0		Amritsar
																														Jammu and Kashmir
·3	+0·4	4·6	3·52	+1·14	1·37	2	9	+3·6	2·4	−0·4	3	1	1	11	2	0	1	4	8	4	3	2	6	1	0	5	5	5		Srinagar
																														Gulmarg

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature °F.		Vapour pressure, millibars.			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Jammu and Kashmir—*contd.*																					
Dras (R)	10,059																				
Leh	11,529	668·3	+0·7	665·1	62·8	—0·9	74	28,30	37·9	+0·8	28	4	48·1	57·2	36·3	40·2	3·5	—1·0	3·1	32	—6
Skardu (R)	7,505																				
Gilgit (R)	4,890																				
Misgar (R)	10,190																				
Rajasthan, West																					
Sri Ganganagar	580	984·9	...	981·8	103·0	—4·7	113	23,24	73·0	—2·0	62	9	86·7	95·3	70·1	73·2	18·0	+3·8	17·7	41	+10
Bikaner	734	980·1	+1·7	976·4	106·5	—1·2	114	22,23,24	79·7	—2·0	70	10	87·4	105·2	75·0	78·8	23·5	+9·1	21·2	55	+23
Jaisalmer	793	978·4	...	974·9	105·3	...	111	5 days	78·9	...	71	31	83·6	103·6	71·3	72·8	20·7	...	13·7	52	...
Jodhpur	736	981·3	+3·0	977·4	106·1	+0·7	111	19,20	80·6	+1·2	71	1,30,31	86·9	103·6	69·8	72·7	17·4	0	13·7	41	—1
Phalodi	783	978·8	...	975·8	105·7	...	111	19,20,22	79·8	...	71	1	85·8	103·2	72·2	76·1	20·7 (o)	...	17·0 (o)	49	...
Barmer	638	984·5	+2·2	980·7	107·1	+0·7	113	19	81·1	+1·2	70	31	86·0	104·9	75·8	81·2	26·1	+0·2	26·0	61	0
Rajasthan, East																					
Sikar	1,419	958·1	...	954·9	102·7	...	109	22,23,24	74·6	...	64	10	86·4	99·4	74·6	80·7	23·9	...	27·1	57	...
Jaipur	1,431	957·9	+1·2	954·9	104·3	—1·3	111	23	76·3	—0·6	69	2,10	89·0	99·5	67·3	69·0	13·3	—1·8	10·0	29	—5
Ajmer	1,593	952·9	+1·3	949·5	102·7	—0·2	108	20	80·8	+0·6	70	1	87·3	99·8	67·3	67·7	13·6	—4·5	8·9	34	—5
Kotah	843	977·2	+1·2	973·3	107·7	+0·1	113	20,22,23	84·3	—0·2	73	2	92·7	103·5	69·3	71·3	14·0	—1·0	11·4	27	—2
Jhalawar	1,053	970·6	+1·8	966·4	107·0	0	112	20	80·3	—0·1	74	3	89·9	104·3	72·0	76·6	18·7	—1·8	18·7	39	—4
Udaipur	1,910	943·3	+1·1	940·2	100·8	—1·7	106	19	76·9	—1·9	70	31	87·3	97·6	68·4	70·1	15·7	—4·0	14·3	38	—7
Madhya Bharat																					
Gwalior	681	982·1	...	978·0	108·4	...	115	20,21,22	80·6	...	70	2	96·3	103·8	70·0	71·3	13·1	...	11·4	24	...
Sheopur Kalan	771	...	...	...	107·6	...	113	21	78·8	...	71	1,2,18	90·5	104·0	68·4	70·1	14·8	...	11·2	29	...
Guna	1,571	953·4	+1·7	949·7	106·5	+0·2	112	21	77·3	—0·2	70	2	91·1	102·7	67·2	69·9	13·1	—1·6	11·6	27	—2
Neemuch	1,626	952·7	+1·5	949·3	103·8	+0·4	108	19,20	78·5	+1·1	73	10	87·7	99·8	69·2	71·6	16·9	—3·6	14·9	39	—8
Ratlam	1,596	953·8	...	950·2	102·9	...	108	19	78·8	...	74	3	84·8	99·7	74·4	77·6	24·8	...	23·3	62	...
Indore	1,839	945·8	+1·0	941·7	103·5	—0·7	109	20	76·0	+0·5	70	10,29	86·8	100·6	69·1	72·7	17·1	—5·1	16·1	40	—8
Bhopal (Bairagarh)	1,714	949·2	+1·4	945·1	105·6	+0·9	111	21	77·4	—1·6	70	3	89·3	101·6	66·3	68·9	12·7	—2·4	11·0	27	—4
Madhosagar	757	979·5	...	975·6	107·5	...	114	21	81·2	...	68	2	93·5	104·1	68·0	70·0	11·9	...	9·7	23	...
Vindhya Pradesh																					
Nowgong	750	979·8	+1·3	975·6	107·8	+0·3	116	22	77·9	—1·5	72	10	92·6	105·4	68·4	71·6	13·3	—3·4	11·1	25	—8
Sutna	1,041	970·1	+1·6	966·0	106·9	+1·1	113	20,21,22	79·7	—0·1	72	2	92·4	102·4	74·3	78·4	20·8	+5·4	22·2	42	+12
Umaria	1,506	955·2	...	951·1	106·2	+0·7	111	21,22	77·0	—2·0	69	2	93·6	102·3	68·4	69·5	14·6	+0·1	11·3	26	0
Madhya Pradesh, East																					
Gondia	1,026	972·0	...	967·5	106·0	...	111	18,21	80·2	...	72	1,4	90·2	102·6	73·7	75·5	20·9	...	17.8	44	..
Pendra	2,040	938·0	+1·4	934·1	100·9	+0·6	108	22	76·2	—1·1	67	2,3	88·7	94·5	69·5	70·1	16·8	+1·3	15·2	38	+5
Ambikapore	1,989	939·8	...	936·0	102·0	...	108	22	73·1	...	66	2	87·7	96·8	68·7	69·4	16·3	...	13·4	38	...
Raigarh	723	981·5	...	976·6	107·6	...	114	15	80·9	...	73	2,4	90·5	104·0	79·5	74·2	16·5	...	15·3	62	...
Champa	805	979·0	...	973·9	107·7	...	113	4 days	80·7	...	72	2,4	89·9	104·8	72·2	73·6	19·0	...	14·1	41	...
Raipur	979	973·2	+1·9	968·3	104·8	—2·5	111	15,18	80·7	—1·4	65	3	89·1	101·2	75·0	78·0	23·3	+6·0	22·3	51	+18
Kanker	1,318	962·6	+2·5	958·2	100·7	—3·7	107	17	78·3	—1·0	68	3	87·7	98·9	73·4	75·6	21·7	+2·1	19·7	49	+9
Chanda	634	989·8	+1·0	979·8	107·5	—1·9	113	14	81·1	—1·0	73	31	91·9	103·5	73·9	75·3	20·4	+2·1	17·1	43	+10
Sironcha	405	993·9	...	988·1	106·2	...	112	4 days	82·3	...	75	23	88·4	103·7	76·0	76·2	25·0	...	18·4	54	...
Jagdalpur	1,815	946·8	+2·0	942·7	99·3	—2·1	106	10	73·6	—1·1	65	3	84·7	91·4	72·8	72·9	22·9	—0·3	20·1	57	+2

(R) Register not received.

(o) Mean for 16 days.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																		STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Jammu and Kashmir—*contd.*
																													Dras (R)
2·7	—0·8	5·2	1·09	+0·87	0·88	14	2	+1·3	5·1	+2·3	1	1	0	0	0	1	0	0	28	3	7	0	1	4	4	5	1	6	Leh
																													Skardu (R)
																													Gilgit (R)
																													Misgar (R)
																													Rajasthan, West
0·3	—0·1	0·8	2·04	+1·81	1·89	31	2	+1·2	4·0	—2·7	4	3	3	4	0	8	2	2	4	4	4	1	1	0	1	3	10	7	Sri Ganganagar
0·7	—0·2	1·2	0·28	—0·31	0·10	4,24	2	+0·7	5·7	—0·6	0	3	0	4	1	15	2	3	3	0	4	0	1	1	14	2	9	0	Bikaner
1·5	...	2·4	0·63	...	0·63	31	1	...	12·2	...	1	1	0	1	0	26	0	2	0	0	1	0	1	0	22	0	7	0	Jaisalmer
2·0	+1·0	2·1	1·14	+0·73	0·83	30	3	+1·9	6·3	—4·4	0	2	1	2	1	18	5	0	2	1	1	0	0	0	14	9	5	1	Jodhpur
0·7	...	1·2	1·45	+1·10	1·16	31	2	+1·2	12·0	...	2	1	1	2	7	14	4	0	0	0	1	0	2	5	9	11	3	0	Phalodi
2·0	+1·3	2·3	0·47	+0·12	0·47	31	1	+0·3	8·6	+0·8	0	0	0	0	7	10	6	3	5	1	1	0	1	6	10	9	1	2	Bermer
																													Rajasthan, East
2·5	...	3·7	0·64	...	0·45	1	2	...	4·5	...	3	3	1	2	4	8	5	0	5	0	2	1	2	1	4	6	13	2	Sikar
1·3	+0·3	3·4	0·67	+0·10	0·37	23	2	+0·4	4·9	—0·5	5	2	1	2	1	1	2	6	11	5	1	0	1	0	3	2	17	2	Jaipur
1·3	+1·3	2·5	0·25	—0·39	0·13	23	2	+0·5	7·9	+1·4	0	2	0	1	2	12	9	0	5	0	0	0	0	4	8	16	2	1	Ajmer
0·6	—0·3	1·8	0·31	—0·16	0·12	23	1	0	5·4	+1·3	0	0	0	0	1	1	20	3	6	0	0	0	0	1	3	9	17	1	Kotah
0·9	+0·1	2·3	0·01	0·34	0·01	28	0	—0·9	5·6	+0·4	1	1	0	0	1	2	11	4	11	4	0	0	0	1	1	15	10	0	Jhalawar
1·0	+0·6	2·6	0·14	—0·58	0·08	31	0	—1·5	4·6	...	5	2	1	1	1	1	8	8	4	3	0	0	0	2	13	7	6	0	Udaipur
																													Madhya Bharat
1·0	...	3·3	0	...	0	...	0	...	2·8	...	4	2	1	2	0	4	7	9	2	9	2	1	0	1	0	4	14	0	Gwalior
..	...	...	0·01	...	0·01	1	0	...	...	...	0	6	0	4	2	6	9	3	1	1	2	0	2	0	4	12	8	2	Sheopur Kalan
1·0	+1·2	2·6	0·18	—0·36	0·15	29	1	—0·2	6·4	+0·8	1	1	1	4	2	5	13	3	1	2	0	0	0	1	6	7	13	2	Guna
·6	+0·8	2·9	0·04	—0·55	0·04	29	0	—1·2	6·7	—1·3	1	3	1	1	0	9	10	6	0	2	8	0	0	0	7	8	4	2	Neemuch
·0	...	4·0	0·28	...	0·28	29	1	...	6·6	...	1	1	1	0	1	8	18	1	0	0	1	1	0	0	3	22	4	0	Ratlam
·0	0	2·5	0·34	—0·17	0·14	26	2	+0·7	9·5	—2·0	1	2	0	0	0	3	11	14	0	4	0	0	0	0	2	15	10	0	Indore
·8	+0·9	2·9	0·31	—0·26	0·30	31	1	—0·2	8·4	—0·1	6	1	1	1	3	2	4	11	2	8	4	1	1	0	1	7	9	0	Bhopal (Bairagarh)
·4	...	3·4	0·27	...	0·22	2	1	...	6·5	...	1	1	2	0	1	3	10	8	5	6	2	1	0	0	0	10	11	1	Madhosagar
																													Vindhya Pradesh
·7	—0·2	3·0	0·20	—0·17	0·19	26	1	0	3·5	+0·7	0	1	2	2	1	11	2	4	8	4	3	2	0	0	1	7	14	0	Nowgong
·9	—0·7	3·2	0·12	—0·35	0·12	30	1	—0·3	4·0	—0·5	3	1	2	1	2	4	2	2	14	1	1	1	0	0	2	3	13	10	Sutna
·6	—0·4	3·0	0·34	—0·09	0·26	24	1	+0·3	(b) 3·4	—0·1	1	2	1	7	0	5	4	5	6	3	0	0	1	0	3	3	20	1	Umaria
																													Madhya Pradesh, East
·6	...	2·5	0·77	...	0·43	1	3	...	3·1	...	6	2	0	2	3	13	0	3	2	7	1	0	5	4	3	5	6	0	Gondia
1	—0·8	4·1	1·28	+0·44	0·55	1	4	+1·9	4·6	—0·2	5	3	1	2	12	2	2	2	2	7	2	1	1	4	6	3	7	0	Pendra
6	...	3·3	0·73	...	0·56	23	2	...	5·9	...	3	3	1	1	7	8	2	1	5	10	1	0	0	1	2	7	10	0	Ambikapore
9	...	2·2	0·47	...	0·19	27	3	...	4·0	...	4	2	0	2	5	8	3	2	5	5	3	0	1	0	1	3	4	14	Raigarh
0	...	3·2	0·10	...	0·10	2	1	...	4·8	...	6	0	1	2	3	8	5	4	2	5	0	1	0	1	5	11	8	0	Champa
3	+0·2	3·3	2·66	+1·37	1·04	1	4	+1·9	6·6	—0·5	1	1	0	0	5	14	5	3	2	4	1	0	1	6	6	2	7	4	Raipur
8	—0·3	3·3	1·34	—0·15	0·31	25	5	+2·3	5·2	+0·7	2	0	1	0	3	8	2	1	14	1	0	0	0	0	4	7	4	15	Kanker
5	+0·5	3·7	0·08	—0·53	0·08	2	0	—1·4	2·5	—1·5	0	0	0	3	0	1	1	0	26	0	0	0	1	0	1	0	3	26	Chanda
7	..	3·0	0·29	...	0·24	23	1	...	4·5	...	0	1	4	10	9	2	2	1	2	3	2	3	5	5	4	4	3	2	Sironcha
7	1·0	4·7	3·78	+1·42	1·46	11	6	+1·2	4·5	+0·8	0	0	2	0	6	8	5	3	7	1	1	0	4	2	11	1	10	1	Jagdalpur

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M.

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Madhya Pradesh, West																					
Buldhana	2,133	936·5	...	932·5	102·2	...	108	20	80·3	...	76	4 days	82·9	99·2	70·1	74·9	19·9	...	19·7	52	...
Akola	925	975·5	+0·9	970·4	108·9	+0·7	114	18,20	83·8	+2·5	77	11	91·3	105·0	...	...	...	...	...	...	...
Amravati	1,213	965·8	+1·1	960·9	107·8	+0·2	112	4 days	82·2	+1·5	76	11	89·9	103·5	68·7	71·7	14·4	—3·0	12·1	31	—4
Yeotmal	1,481	957·1	...	952·2	107·5	...	113	15	81·5	...	73	26	91·6	102·8	70·7	92·7	16·0	...	13·8	34	...
Khandwa	1,044	971·7	+0·9	966·7	107·8	+0·9	113	20	82·9	+1·8	77	10	89·5	104·6	71·3	72·5	17·9	—0·3	12·7	37	—3
Hoshangabad	992	972·8	+0·8	968·1	107·9	+1·0	113	20	81·5	+0·5	75	3,11,19	90·8	105·6	67·9	72·1	13·0	—2·7	11·7	27	—5
Sagar	1,808	945·4	+1·1	941·5	104·5	—0·1	110	21	81·0	+1·7	70	2	91·5	100·5	65·4	67·2	10·8	—2·7	9·2	25	—3
Jabalpur	1,289	962·6	+1·5	958·1	107·6	+2·2	112	21	76·9	—0·4	71	11	91·4	103·3	68·6	61·0	13·6	—0·9	11·3	28	—1
Mandla	1,452	956·9	...	952·3	105·2	...	110	21,22	72·9	...	65	1,11	86·0	101·0	68·4	70·2	15·8	...	11·3	39	...
Seoni	2,027	938·7	+1·1	935·2	103·5	—0·1	110	21	76·9	+0·6	69	1	88·5	96·3	68·8	70·5	16·1	+1·9	15·0	37	+8
Chhindwara	2,248	931·8	...	927·9	102·2	...	107	21,22	78·0	...	71	4,29	88·7	98·4	...	...	...	...	...	...	...
Betul	2,144	935·8	...	931·6	102·8	...	107	19,20,21	75·7	...	70	4	88·3	98·4	66·0	68·4	12·8	...	11·5	29	...
Nagpur	1,010	972·3	+1·4	967·3	108·6	—0·1	114	13,22	81·5	+0·6	71	4	92·7	103·5	70·2	72·1	15·1	—2·2	12·7	30	+1
Gujarat																					
Deesa *	466																				
Surat	39	1007·5	+0·9	1003·6	99·1	+1·8	108	10,18	79·0	+0·1	76	2,3	85·3	93·0	77·9	79·7	29·3	+1·2	28·6	71	+1
Ahmedabad	181	1002·0	+0·9	996·9	107·2	+0·4	113	19	78·9	+0·2	74	2,3	84·7	104·7	76·1	75·3	26·9	—2·3	16·6	67	—
Dohad	1,093	970·8	...	966·9	103·1	+0·1	110	19	79·5	+0·8	73	21	85·4	101·7	72·6	72·0	21·6	—2·4	13·3	53	—
Baroda	115	1004·6	...	999·8	106·2	+1·6	113	19	78·1	+0·4	71	3	85·0	104·7	77·5	80·6	28·8	+3·2	24·6	70	+
Broach	57	1006·7	...	1002·2	103·8	...	112	11,18,20	79·5	...	74	3	82·8	101·3	77·8	80·7	30·3	...	26·4	79	...
Saurashtra and Kutch																					
Bhuj	343	996·6	+2·1	993·2	100·8	—0·1	103	18	76·7	—0·1	73	1,2,20	82·4	91·1	75·1	74·0	26·5	—0·1	18·2	70	+
Dwarka	37	1007·4	+1·4	1005·3	87·3	—0·7	89	4 days	79·8	—0·8	76	1,2	81·9	84·9	78·0	79·3	31·0	—0·2	31·6	83	
Jamnagar	74	1006·1	+1·8	1003·3	94·5	—2·5	99	24	76·2	—0·5	73	1,3	83·3	89·5	78·0	79·9	30·3	+3·8	30·4	77	+1
Rajkot	432	993·6	+1·3	989·5	105·0	+0·1	109	21,24,25	75·7	+0·5	72	3	81·1	100·9	76·2	76·0	28·6	+2·1	19·3	79	+1
Veraval	26	1008·0	+0·7	1005·3	87·1	...	89	4 days	76·3	...	73	4 days	81·5	84·4	77·7	79·6	30·7	...	32·3	84	+
Bhavnagar	55	1007·0	+1·3	1002·2	106·0	+0·8	111	13,18	78·0	—0·1	73	3	83·7	102·3	74·6	78·6	25·2	—0·2	22·6	64	+
Konkan																					
Dahanu	15	1008·5	...	1005·6	89·7	...	93	26	79·0	...	77	5 days	84·9	87·7	80·7	83·6	33·9	...	37·4	82	...
Bombay	35	1008·6	+0·9	1005·2	90·9	—0·2	92	8 days	79·0	—0·6	73	25	84·4	87·9	77·9	79·4	29·7	+0·2	30·4	74	
Alibag	23	1009·5	+1·7	...	88·7	—0·2	91	19	78·9	—0·2	76	1,3	84·1	...	79·3	...	32·0	+2·8	...	80	+
Harnai	66	1007·4	...	1004·6	85·8	...	89	19	80·1	...	77	1,3	83·3	84·5	77·5	79·0	29·6	...	31·3	76	...
Devgad	117	1005·7	...	1002·6	90·4	...	94	21	80·7	...	73	24	83·3	88·1	78·6	81·0	31·4	...	25·5	80	...
Vengurla	29	1008·8	...	1005·3	91·1	...	94	6	78·3	...	73	24	84·4	87·2	77·4	79·0	28·9	...	30·2	72	...
Marmagao	202	1002·9	+0·8	999·8	88·1	—0·2	91	31	80·1	—0·3	72	24	83·5	85·5	77·6	78·8	29·6	0	30·6	76	+
Honavar	85	1007·2	...	1004·0	91·7	...	94	4 days	79·7	...	76	5,20	84·1	87·5	78·7	80·0	31·1	...	31·5	78	...
Deccan (Desh)																					
Jalgaon	660	985·5	...	980·3	109·8	...	115	19,20	82·4	...	78	1	87·9	107·6	71·5	73·2	18·9	...	12·2	43	...
Malegaon	1,432	960·0	+0·9	955·5	105·4	+0·4	111	19	76·0	+0·9	72	29	88·3	100·6	69·4	70·6	16·0	—4·2	12·0	36	—1
Deolali	1,874	946·0	...	...	99·3	...	103	6 days	72·1	...	67	17	81·7	...	69·5	...	19·6	...	...	54	...
Ahmednagar	2,154	936·6	+0·8	931·9	102·9	+1·0	108	20	75·0	+2·9	68	1	84·1	98·9	70·7	73·9	20·2	+2·2	18·4	52	+1
Poona	1,834	947·5	+0·7	943·3	100·4	+1·6	106	18	73·1	+0·7	68	1	81·3	94·3	69·8	72·7	20·2	—0·4	18·7	56	—
Jeur	1,709	951·0	...	945·7	103·8	...	108	12,13,20	75·5	...	70	1	83·2	100·8	72·8	74·5	23·3	...	18·4	60	...
Sholapur	1,570	955·6	+0·9	950·3	105·9	+1·2	111	18	79·3	+2·3	72	1	85·6	100·1	71·8	71·9	21·0	+2·1	15·2	51	+

* Data not reliable

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																		STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Madhya Pradesh, West
6	...	3·5	0·09	...	0·09	23	0	...	...	...	5	0	0	0	0	0	1	25	0	0	2	0	0	1	2	1	25	0	Buldhana
7	+0·9	3·3	0·17	−0·24	0·07	23,25	0	−1·0	7·0	−0·3	3	0	0	0	0	1	13	14	0	7	2	1	0	0	4	5	12	0	Akola
5	+0·9	3·6	1·09	+0·57	0·34	26	4	+2·7	6·7	+0·9	1	3	0	1	2	10	4	9	1	2	3	1	0	1	5	9	10	0	Amravati
7	...	4·5	0·70	...	0·60	26	1	...	8·8	...	0	2	0	2	1	10	0	16	0	0	10	0	2	0	2	0	17	0	Yeotmal
8	+0·7	3·0	0	−0·31	0	...	0	−0·7	...	...	0	0	0	0	0	0	21	10	0	2	0	0	2	0	5	9	13	0	Khandwa
0	+1·8	3·8	0·21	−0·28	0·21	26	1	−0·2	3·8	+0·6	0	1	2	1	3	5	6	0	13	1	0	2	5	2	8	5	8	0	Hoshangabad
6	+0·2	3·2	0·63	+0·21	0·31	26	2	+0·9	10·8	−0·7	2	4	2	2	3	2	9	7	10	2	0	1	2	1	4	6	15	0	Sagar
2	0	3·2	0·11	−0·51	0·11	31	1	−0·4	3·7	+0·7	0	2	0	11	3	11	2	2	0	1	3	0	4	0	5	5	12	1	Jabalpur
5	...	1·9	0·21	...	0·15	31	1	...	1·5	...	1	0	1	0	4	0	0	0	25	7	0	0	2	2	1	7	2	10	Mandla
6	−1·0	2·4	1·71	+0·95	0·55	1	6	+4·3	4·2	+0·4	7	4	0	1	6	7	1	3	2	3	1	2	6	2	2	3	9	3	Seoni
7	...	3·4	0·24	...	0·20	23	1	...	4·7	...	4	3	2	1	0	5	3	5	8	4	3	0	1	2	1	7	11	2	Chhindwara
9	...	3·1	0	...	0	...	0	...	4·2	...	3	1	0	1	2	3	9	10	2	4	2	1	2	1	3	7	10	1	Betul
2	+0·1	4·1	0·07	−0·69	0·07	4	0	−2·0	5·4	...	3	3	1	2	6	7	2	7	0	4	4	2	2	2	1	4	9	3	Nagpur
																													Gujarat
																													Deesa*
4	−1·6	0·7	0	−0·24	0	...	0	−0·3	6·2	−0·4	0	0	0	0	5	13	4	6	3	0	0	0	0	5	23	0	3	0	Surat
8	−0·8	1·3	0	−0·39	0	...	0	−0·7	6·6	+0·7	1	0	0	0	0	6	10	14	0	1	0	0	0	3	5	11	11	0	Ahmedabad
1	−0·3	0·6	0·13	−0·53	0·13	28	1	+0·5	14·1	+5·6	1	0	0	0	0	9	19	1	1	0	0	0	0	0	16	12	2	1	Dohad
9	+0·5	1·7	0	−0·20	0	...	0	−0·5	3·5	−2·3	3	0	0	0	2	10	5	4	7	1	0	0	0	1	8	13	6	2	Baroda
5	...	0·0	0	...	0	...	0	...	6·2	...	1	0	0	5	8	8	1	7	1	1	0	0	1	2	15	2	10	0	Broach
																													Saurashtra and Kutch
2	+0·2	0·8	0	−0·26	0	...	0	−0·3	9·2	−1·7	0	0	0	0	0	16	12	3	0	0	0	0	0	0	7	20	3	1	Bhuj
9	−0·4	1·5	0	−0·02	0	...	0	−0·1	12·4	+1·0	0	0	0	0	0	7	18	6	0	0	0	0	0	0	5	22	4	0	Dwarka
5	+0·9	0·9	0	−0·30	0	...	0	−0·3	18·2	...	0	0	0	0	0	15	14	2	0	0	0	0	0	0	0	25	6	0	Jamnagar
4	−0·8	1·7	0	−0·50	0	...	0	−0·6	14·7	+3·4	1	0	0	0	0	5	18	7	0	2	0	1	0	0	0	11	17	0	Rajkot
3	−0·1	0·7	0	−0·28	0	...	0	−0·3	11·0	...	3	0	0	0	0	1	6	14	7	0	0	0	0	0	3	19	9	0	Veraval
4	−1·4	1·5	0	−0·41	0	...	0	−0·7	6·7	−0·5	4	0	0	1	3	5	10	8	0	2	1	1	3	16	4	2	2	0	Bhavnagar
																													Konkan
5	...	1·2	0	...	0	...	0	...	10·3	...	1	1	7	8	3	3	7	1	0	0	0	0	0	0	6	23	2	0	Dahanu
7	+0·4	1·9	1·68	+1·03	1·62	25	1	+0·2	5·5	−1·2	1	0	3	2	2	4	2	6	11	0	0	0	0	0	1	17	13	0	Bombay
9*	+0·4	...	0·01	−1·03	0·01	25	0	−0·8	6·1	−2·2	2	0	1	2	2	3	0	7	14	...	...	...	...	...	...	...	...	...	Alibag
7	...	3·0	0·03	...	0·03	25	0	...	11·1	...	4	3	1	4	1	1	5	12	0	0	0	0	1	0	3	8	19	0	Harnai
5	...	3·1	2·32	...	2·26	24	1	...	10·8	...	4	3	5	0	1	2	1	15	0	1	0	0	0	0	1	12	17	0	Devgad
4	...	2·4	0·58	...	0·50	24	1	...	...	...	1	4	1	0	0	1	1	3	20	0	0	0	0	0	2	24	4	1	Vengurla
6	+0·3	4·4	1·08	−2·16	0·78	24	2	0	8·4	+1·2	4	5	7	2	1	1	7	4	0	0	0	1	0	0	2	15	13	0	Marmagao
1	...	5·1	0·16	−3·26	0·14	21	1	−2·9	3·1	...	0	1	11	3	0	0	4	3	9	0	0	0	1	1	1	18	10	0	Honavar
																													Deccan (Desh)
2	...	2·1	0	−0·41	0	...	0	−0·9	10·1	...	0	0	0	0	0	6	17	8	0	1	0	0	2	0	0	4	24	0	Jalgaon
2	−0·2	3·3	0·73	0	0·49	25	2	+0·8	5·8	−2·9	1	0	0	1	1	2	4	21	1	0	2	0	0	0	1	5	22	1	Malegaon
4	...	...	2·32	...	2·27	28	1	...	7·5	...	1	0	0	0	2	12	8	7	1	...	...	...	...	...	...	...	...	...	Deolali
5	+1·1	4·5	0·17	−0·74	0·11	29	1	−0·6	6·5	−1·3	3	1	0	1	1	1	1	17	6	0	9	0	1	0	2	0	17	2	Ahmednagar
3	+0·3	3·0	14·7	+0·41	0·68	24	4	+2·3	3·1	−6·0	0	0	0	0	1	1	8	3	18	5	1	0	0	0	1	15	7	2	Poona
9	...	4·5	1·04	...	0·69	7	2	...	8·4	...	3	0	0	1	0	1	8	17	1	6	3	2	2	1	2	3	11	1	Jeur
8	+0·6	5·1	0·54	−0·35	0·16	31	3	+1·1	7·5	−0·7	3	9	1	2	0	2	4	5	5	14	4	1	5	3	0	1	1	2	Sholapur

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Deccan (Desh)— *contd.*																					
Miraj	1,817	948·2	+1·1	940·2	101·3	+2·1	107	18	73·3	+0·8	69	2	78·9	93·3	71·5	73·8	23·3	—0·8	20·5	69	—3
Kolhapur	1,885	946·1	...	941·9	97·6	...	103	18	72·2	...	68	28	77·5	88·0	71·1	73·2	23·4	...	21·9	73	...
Bijapur	1,950	943·3	+0·7	938·7	102·8	+1·2	109	12	75·3	+0·8	69	2	82·3	97·7	71·0	70·7	21·3	+0·1	14·7	57	—2
Belgaum	2,562	924·1	+0·6	920·8	92·9	—0·3	97	9	68·8	+0·4	65	2,3	73·5	85·2	69·3	73·5	22·8	+0·9	23·4	80	+5
Gadag	2,131	938·1	+1·2	933·3	99·0	+0·7	104	16	72·4	—0·2	66	20	79·2	93·6	73·1	76·9	25·4	+1·3	24·7	75	+1
Hyderabad, North																					
Aurangabad	1,905	944·8	+0·8	940·4	103·7	+0·3	108	13,19,20	78·8	+3·0	71	5	84·7	100·8	68·6	72·1	17·4	+0·1	15·2	43	—1
Parbhani	1,350	961·0	...	955·6	107·6	...	113	13,20	79·7	...	76	26	90·0	103·7	73·4	75·8	20·6	...	17·8	44	...
Ramagundam	527	989·5	...	983·7	109·3	...	114	5 days	81·1	...	75	3	90·7	102·5	76·1	79·3	24·1	...	23·7	50	...
Nizamabad	1,250	964·3	+0·2	959·2	106·3	—0·3	111	6 days	79·9	—1·5	70	30	90·6	103·6	73·9	75·1	21·0	+1·5	16·8	44	+3
Bidar	2,178	934·8	...	930·6	101·4	—0·8	107	17,18	78·5	+0·3	68	25	85·1	96·9	68·4	69·7	17·0	—1·9	13·8	43	—1
Hyderabad, South																					
Gulbarga	1,503	975·2	+0·7	951·9	104·9	0	110	12	80·2	+1·6	73	30	86·6	99·5	67·1	71·6	14·8	—5·8	15·1	35	—16
Raichur	1,311	964·1	+1·0	958·7	103·8	+0·1	109	15	80·3	+1·2	73	18	85·3	100·5	74·5	75·3	24·3	+0·9	18·5	59	+3
Hyderabad (Begumpet)	1,778	948·2	+1·5	944·0	103·1	0	109	13	78·6	—1·1	70	25	85·7	96·4	72·8	73·4	22·4	+0·3	18·7	55	+5
Hanamkonda	881	977·5	+1·4	972·6	104·3	—0·2	110	12,14,16	80·9	—0·8	71	23	87·5	100·5	75·4	75·2	24·6	+3·0	18·4	56	+9
Khammameth	367	995·4	...	989·9	105·5	...	110	11,14,15	80·7	...	72	3,23	87·8	101·5	78·8	79·4	29·6	...	24·1	66	...
Coastal Andhradesa																					
Nellore	65	1005·5	+1·6	1001·6	103·7	—0·5	109	12	80·9	—0·9	77	3,6	89·9	92·3	79·2	80·3	29·2	+0·7	29·9	61	+1
Ongole	38	1006·2	...	1003·7	99·4	...	108	11	81·1	...	76	29	88·6	91·2	...	...	...	...	...	...	...
Gannavaram	88	1005·3	...	1000·4	103·9	...	109	11,14	80·7	...	73	3	89·0	96·8	79·7	78·9	30·4	...	25·6	65	...
Masulipatam	10	1007·6	+1·8	1003·6	95·8	—3·7	102	14	81·8	+0·1	75	3	88·4	88·9	80·4	80·3	31·7	—2·0	31·4	69	—3
Kakinada	26	1007·4	+2·0	1003·1	98·6	—0·6	103	11,14	81·2	—0·5	74	3	88·4	90·2	81·5	81·9	32·6	+0·1	33·4	73	+2
Visakhapatnam	126	1003·6	+2·1	1000·1	90·8	—1·2	97	8	81·4	0	72	3	86·7	85·7	78·9	79·7	30·2	—0·8	31·9	69	0
Calingapatam	19	1007·0	+1·1	1003·2	92·6	—1·7	97	1	80·3	—0·4	69	3	84·2	87·5	79·6	81·1	32·4	—0·3	33·4	81	+9
Rentachintala	348	995·7	...	990·5	106·3	—0·6	112	15	82·9	—1·3	73	18	89·0	100·8	76·4	75·9	25·3	—0·6	19·2	54	+1
Rayalaseema																					
Cuddapah	428	993·9	+1·1	988·4	103·8	—1·8	109	18	83·7	+0·5	73	18	91·1	99·4	77·2	...	25·6	—0·5	...	51	—3
Bellary	1,473	958·7	+0·6	953·6	100·3	—1·8	105	15	78·3	+0·6	72	18	84·0	96·2	74·0	75·5	24·1	+2·6	20·9	59	+4
Kurnool	923	976·9	+0·9	971·3	103·5	—1·0	109	15,18	80·1	—0·9	73	29	86·0	100·3	74·3	75·1	23·6	—0·2	18·3	56	+1
Anantapur	1,147	969·6	...	964·4	100·1	...	105	9,16	77·9	...	66	1	83·6	96·8	74·3	75·4	24·8	...	20·3	64	...
Tamilnad																					
Palayamcottai	167	1003·3	...	999·4	100·6	...	104	14	80·5	...	76	31	87·8	91·6	78·3	78·6	28·8	...	27·5	64	...
Pamban	37	1007·8	+1·1	1004·7	90·8	—0·9	94	14	82·7	+1·6	76	22	86·4	86·6	80·5	80·1	32·9	+0·2	31·8	76	—2
Mathurai	437	994·0	+0·9	990·1	100·5	+1·7	104	13,14,15	78·9	+0·9	74	23	87·1	93·9	76·8	77·7	26·1	0	25·1	61	—2
Nagapattinam	31	1007·8	+1·2	1004·1	95·5	—1·8	104	14	81·2	+0·5	75	24	87·4	89·3	80·3	81·9	32·0	+1·9	33·9	73	+4
Tiruchi	295	998·9	+1·0	994·2	99·0	—1·5	103	4 days	79·2	0	70	1	84·9	94·3	77·4	77·6	28·7	+1·1	24·7	70	+5
Coimbatore	1,341	964·0	+0·9	960·4	93·9	—0·5	97	17	74·9	+1·3	70	2	80·9	87·0	74·3	74·9	26·0	—1·4	24·1	72	—6
Salem	913	978·1	+0·9	973·7	97·7	—1·6	101	4 days	77·6	+0·6	72	18	82·2	91·2	75·1	75·5	26·6	—1·2	23·0	71	0
Kallakurichi	416	994·0	...	989·4	102·5	...	107	5 days	80·0	...	73	24	85·7	97·0	77·8	77·7	29·0	...	22·6	69	...
Cuddalore	39	1007·1	+1·1	1003·1	95·0	—2·8	99	17	80·5	+0·1	76	1,7,8	88·2	88·1	78·8	81·3	29·4	—0·9	33·4	65	—3
Vellore	703	984·5	+1·8	980·0	100·5	—1·3	105	11,14,17	78·7	—0·3	73	24	86·1	94·7	76·4	76·5	26·7	—0·2	22·9	64	+1
Madras	51	1006·7	+1·7	1002·7	98·3	—3·0	103	11	81·2	—0·5	75	1	87·5	89·1	79·8	81·1	31·2	—3·0	31·4	70	+10
Arogyavaram	2,299	932·1	...	928·3	94·5	...	100	12	73·7 (a)	...	67	22	80·9	89·6	71·9	71·6	23·0	...	19·1	65	...

(a) Mean of 30 days.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																		STATION.
											0830 hrs. I.S.T.									1730 hrs. I.S.T.									
0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Deccan (Desh)— *contd.*
3·0	+0·3	5·2	1·42	−0·47	0.47	22	4	+1·1	8·1	0	2	0	0	0	1	4	15	8	1	3	2	1	1	1	4	13	6	0	Miraj
2·1	...	2·8	5·24	...	1·31	28	7	...	9·2	...	0	0	0	1	0	0	23	1	6	0	0	0	0	1	1	26	2	1	Kolhapur
3·1	+0·7	5·7	2·38	+1·26	1·04	27	7	+4·8	6·4	−0·3	5	1	0	1	1	4	7	9	3	5	3	0	3	3	3	4	5	5	Bijapur
...	...	...	4·33	+2·03	1·03	7	9	+4·7	4·8	+0·1	5	0	0	1	4	5	10	6	0	1	1	1	0	0	11	17	0	0	Belgaum
3·7	+0·7	5·0	6·90	+4·81	2·02	20	7	+2·9	7·7	−0·8	0	0	0	1	6	11	6	1	6	1	1	1	1	5	7	4	1	10	Gadag
																													Hyderabad, North
2·7	+1·0	3·7	0·39	−0·33	0·16	24	2	+0·7	8·6	−1·3	4	2	1	1	1	5	9	8	0	1	1	0	0	2	4	10	12	1	Aurangabad
1·4	...	3·3	0·85	+0·09	0·42	23	3	+1·6	...	...	0	0	1	0	0	0	25	3	2	2	0	2	0	1	0	22	4	0	Parbhani
3·0	...	4·0	1·50	...	0·52	3	5	...	5·1	...	5	3	1	5	4	2	3	3	5	0	5	3	8	2	3	0	0	10	Ramagundam
2·6	+0·4	2·7	2·03	+1·35	0·85	30	4	+2·6	4·3	0	0	1	0	2	3	4	1	10	10	0	4	0	1	2	1	0	8	15	Nizamabad
3·5	+1·1	4·3	1·27	+0·35	0·44	7	4	+1·6	7·6	−0·3	1	1	3	2	4	1	5	13	1	3	12	4	3	4	1	1	3	0	Bidar
																													Hyderabad, South
3·6	+1·5	5·3	1·15	+0·03	0·43	6	4	+1·6	8·2	−0·1	3	1	1	4	0	1	9	11	1	7	8	7	3	1	0	0	5	0	Gulbarga
3·4	+1·1	4·8	0·03	−1·04	0·03	24	0	−2·3	7·5	−0·7	2	0	1	1	1	12	8	6	0	4	4	4	3	4	4	3	5	0	Raichur
4·1	+1·1	4·4	1·74	+0·65	0·63	24	5	+2·7	5·7	−0·7	5	1	1	3	3	7	7	4	0	4	8	2	4	2	4	1	4	2	Hyderabad (Begumpet)
2·4	−0·6	3·4	1·02	−0·20	0·78	18	2	0	6·6	+0·3	2	1	0	11	11	3	2	0	1	5	2	2	5	7	2	1	4	3	Hanamkonda
2·2	...	3·8	0·46	...	0·30	23	2	...	6·0	...	0	0	4	9	11	2	4	1	0	1	1	8	7	6	2	5	0	1	Khammameth
																													Coastal Andhradesa
4·3	+0·5	3·5	0·32	−0·77	0·21	3	2	+0·6	6·6	+1·0	1	0	0	4	14	1	2	2	7	0	0	16	13	0	0	1	0	1	Nellore
2·3	...	2·3	0·56	...	0·34	29	2	...	6·5	...	1	0	1	5	11	2	3	0	8	0	0	2	25	2	0	0	0	2	Ongole
2·3	...	2·9	0·93	...	0·27	29	4	...	8·6	...	1	3	1	2	12	8	4	0	0	0	0	1	15	13	1	0	1	0	Gannavaram
3·7	0	3·0	0·63	−0·69	0·26	29	3	+1·0	9·8	+3·2	1	0	0	3	14	5	4	0	4	0	0	0	10	20	1	0	0	0	Masulipatam
3·8	−0·6	2·9	3·79	+2·25	3·28	3	2	−0·5	6·7	+1·0	0	0	1	7	0	21	0	2	0	0	1	1	18	0	10	0	1	0	Kakinada
2·2	−2·5	4·6	3·32	+1·32	1·57	3	4	+1·3	6·9	+1·3	0	1	0	0	2	10	15	2	1	0	0	0	1	5	21	3	1	0	Visakhapatnam
4·1	+0·6	5·3	1·45	−1·11	1·00	3	2	−1·2	11·0	+2·3	0	0	1	0	8	15	7	0	0	0	0	0	2	14	15	0	0	0	Calingapatam
3·8	−0·4	4·7	1·31	−1·21	0·65	29	3	+0·2	5·6	−2·3	1	1	2	3	7	6	6	1	4	1	1	8	5	4	2	9	1	0	Rentachintala
																													Rayalaseema
3·5	+0·3	4·4	0·65	−0·86	0·25	1	3	+0·4	4·3	−1·8	3	0	1	1	0	0	10	3	13	2	0	9	1	0	0	0	0	19	Cuddapah
5·3	+1·9	5·7	3·60	+1·71	1·34	21	6	+2·7	5·0	1·0	0	0	0	0	0	1	0	12	18	0	0	2	1	0	1	9	14	4	Bellary
2·8	−0·3	3·3	3·01	+1·93	1·62	29	4	+1·5	4·6	−1·2	1	1	1	0	4	7	11	3	3	1	3	2	3	2	3	1	5	11	Kurnool
3·7	...	3·9	6·92	+4·88	1·32	30	6	+2·3	...	...	1	0	1	0	0	8	15	2	4	3	3	1	4	0	4	5	4	7	Anantapur
																													Tamilnad
1·1	...	3·3	2·02	+0·39	0·81	19	5	+2·5	3·5	...	2	2	0	0	0	1	4	4	18	2	0	3	7	3	6	5	4	1	Palayamcottai
3·4	+0·7	4·3	0·42	+0·55	0·35	1	1	−0·7	10·8	+0·7	0	0	1	5	17	8	0	0	0	0	0	0	8	19	4	0	0	0	Pamban
4·3	0	5·6	0·67	−2·07	0·22	11	3	−1·7	3·2	−1·1	6	1	2	0	0	0	3	9	10	1	0	5	9	2	2	2	3	7	Mathurai
5·1	+1·3	4·3	4·93	+3·36	3·55	24	3	+1·2	6·6	+0·2	0	0	0	2	7	16	4	0	2	0	1	1	14	12	3	0	0	0	Nagapattinam
4·6	+1·2	5·2	6·41	+3·10	2·70	1	3	−1·1	8·0	−1·6	0	0	0	0	3	1	9	15	3	2	1	1	1	12	6	2	4	2	Tiruchi
2·9	−0·5	4·6	1·90	−0·57	0·48	18	5	+0·5	5·5	+1·7	3	2	1	0	12	12	1	0	0	1	1	1	0	7	14	6	1	0	Coimbatore
3·5	+0·1	5·3	3·65	−0·95	0·98	22	8	+0·9	3·5	−0·1	1	0	0	1	3	9	13	0	4	1	3	6	1	3	3	6	2	6	Salem
2·6	...	4·3	1·87	...	1·17	24	4	...	...	...	2	0	1	4	6	7	2	2	7	1	1	6	6	6	2	3	2	4	Kallakurichi
4·2	+0·9	4·1	0·10	−0·90	0·07	24	0	−1·3	8·4	+3·1	0	0	0	3	12	14	0	0	2	0	0	5	23	3	0	0	0	0	Cuddalore
2·7	+0·1	4·1	6·19	+3·90	2·52	31	7	+3·2	4·3	+0·5	1	2	0	0	1	4	7	5	11	0	6	5	8	6	1	1	3	1	Vellore
4·3	+0·9	3·3	0·40	−0·63	0·34	30	1	−0·1	9·6	+0·8	0	0	0	1	12	12	4	0	2	0	0	1	24	5	0	1	0	0	Madras
5·7	...	6·0	4·04	...	3·17	31	4	...	3·8	...	2	1	1	3	3	1	6	4	10	2	12	1	2	1	2	1	4	6	Arogyavaram

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Malabar & South Kanara																					
Mangalore	72	1007·6	+0·5	1004·3	90·1	−0·7	92	13,30,31	80·0	+1·2	71	18,20	84·0	87·0	78·0	79·4	30·0	+0·6	30·8	75	+1
Kozhikode	27	1008·9	+0·5	1005·8	91·7	+1·6	93	10 days	78·6	+0·4	75	11,13,15	83·5	88·0	78·7	81·7	31·3	+0·9	34·1	80	0
Palghat	319	999·1	...	995·3	93·7	...	98	19	77·8	...	73	18,24	82·4	87·0	77·0	77·5	29·2	...	27·9	79	...
Mysore																					
Chitaldrug	2,405	928·7	+0·4	924·3	93·8	−1·3	98	12	71·8	−0·1	62	25	76·8	91·2	70·6	71·8	23·0	+0·1	18·8	73	+2
Shimoga	1,872	946·8	...	942·5	95·1	...	99	10,11	72·5	...	68	25	77·5	87·5	72·3	75·7	24·9	...	25·5	77	...
Hassan	3,149	905·7	...	902·7	87·8	−1·6	94	9	68·3	+0·7	63	18	72·1	79·2	69·6	71·4	23·7	+1·5	23·1	88	+13
Bangalore	3,021	909·5	+0·8	906·0	90·0	−1·2	97	9	69·6	+0·7	65	28	74·7	83·0	69·7	69·7	22·4	0	19·4	77	+4
Mysore	2,518	925·8	+0·6	922·3	90·5	−1·4	96	9	(a) 69·6	−0·3	63	18	75·0	86·3	71·1	72·5	24·4	+1·2	21·7	83	+8
Travancore-Cochin																					
Fort Cochin	10	1009·8	+0·4	1006·7	88·8	+1·3	91	4 days	79·1	+0·9	73	2	84·6	86·6	79·3	81·4	31·8	+1·3	34·3	78	−2
Alleppey	12	1009·6	...	1006·6	91·5	...	94	30	79·1	...	74	20	85·1	87·8	80·2	80·8	33·0	...	32·7	80	...
Trivandrum	211	1002·8	+0·6	1000·1	89·9	+0·4	94	24	77·6	+0·1	75	5 days	82·2	85·6	77·8	78·6	30·5	0	30·3	81	0
Nagercoil	195	1002·9	...	1000·1	92·8	...	98	17	79·0	...	75	19	84·7	85·2	77·8	78·0	29·4	...	29·5	72	...
Hill Stations excluding Kashmir																					
Aijal	3,599	...	...	...	77·1	...	87	27	66·2	...	62	1	71·2	72·7	66·5	67·7	20·6	...	21·2	79	...
Shillong	4,921	849·1	+1·2	846·3	74·0	0	79	11,12	59·2	+0·1	53	2,4	68·4	68·7	61·6	63·1	15·7	−1·1	17·6	68	0
Cherrapunji	4,309	868·5	+1·6	865·6	71·3	−0·8	77	9	60·5	−0·5	55	3	66·3	68·1	63·0	65·5	18·1	−0·9	20·5	84	+5
Darjiling	7,432	775·8	+0·6	773·4	64·4	+1·5	69	19,31	53·0	+0·6	46	1	59·0	58·3	56·8	56·5	15·1	+0·8	14·7	88	+2
Kalimpong	3,965	878·5	+1·6	875·2	74·9	+0·3	82	25	64·8	+2·1	58	1,2,5	68·0	71·5	64·4	66·7	19·3	0	20·2	81	+2
Katmandu	4,388	865·9	...	862·7	88·5	+3·2	96	21	60·0	−0·4	50	3	74·3	79·0	64·2	66·0	16·5	−1·3	16·5	58	−9
Mukteswar (Kumaon)	7,592	772·2	+0·5	770·6	74·5	+1·4	82	20	56·8	+1·0	40	2,3	62.7	68·3	50·6	53·8	8·5	−0·3	8·8	45	0
Mussooree	6,699	796·4	...	795·1	74·8	−1·7	83	20,21	58·9	+0·3	44	2	61·1	69·6	55·7	57·5	11·3	+1·4	12·1	55	+10
Simla	7,224	781·8	+1·2	780·9	72·8	−0·4	82	22,23	57·5	−0·2	42	3	66·0	68·2	52·0	53·3	8·2	−0·1	8·4	42	+7
Dharamshala	3,974	882·4	...	880·4	86·1	...	95	22,23	68·5	...	52	2,3	77·0	81·2	61·2	63·4	11·9	...	12·4	40	..
Abu	3,945	879·9	+1·5	878·1	88·2	+0·3	93	19	72·3	+1·2	60	31	78·8	86·4	61·5	66·2	11·7	−0·1	13·8	36	0
Pachmarhi	3,528	892·7	+1·1	889·5	97·3	+1·5	102	21	74·8	−0·4	66	3	84·4	93·7	63·2	65·9	11·2	−2·4	9·9	29	−6
Mahabaleshwar	4,534	863·1	+1·1	860·9	85·5	+1·7	91	18	65·7	+0·9	59	2	74·4	76·6	63·2	70·0	15·3	+1·4	22·4	56	+3
Mercara	3,781	885·7	+0·7	883·3	80·3	+0·2	84	8	65·3	+0·8	62	13	69·5	75·4	67·1	70·9	22·5	+1·8	24·0	88	+4
Kodaikanal	7,688	772·4	+1·5	770·5	68·6	+0·2	71	4 days	55·1	+0·4	52	23	61·3	60·6	55·5	57·6	13·0	+0·4	15·2	71	+8
Ootacamund	7,364	780·7	+0·8	778·9	71·8	+1·4	75	6 days	51·2	−1·3	48	26	60·0	64·7	55·9	59·5	13·8	+1·2	15·5	79	+15
Coonoor	5,730	826·9	...	...	73·3	−3·0	77	12,15	57·5	−1·5	52	8	70·5	...	63·1	...	16·8	+1·1	...	67	+10
Tibet																					
Lhasa	12,090	656·2	...	...	68·1	...	79	17	38·9	...	31	23	54·9	...	53·7	...	13·9	...	...	93	...
Gyantse	13,110	626·1	...	...	64·5	+2·1	73	31	33·9	−0·1	26	6	51·6	...	37·6	...	3·4	−3·6	...	26	−22
Ceylon																					
Colombo	24	1009·8	+0·7	1007·1	86·8	−0·9	89	30	77·3	−0·3	72	4	81·4	83·7	77·9	78·7	31·0	+6·1	31·2	85	0
Trincomalee	24	1008·5	+1·7	1005·2	93·3	+0·1	96	17	(a) 78·4	+0·1	75	1	83·0	86·8	77·7	79·3	30·0	+0·5	30·8	76	−3
Batticoloa	20	1009·1	...	1006·2	89·3	...	91	5 days	74·2	...	74	2	84·4	85·7	78·9	80·0	31·2	...	32·4	77	...
Hambantota	61	1008·1	+1·1	1005·2	87·2	+0·4	88	14 days	77·5	+0·2	74	23,31	82·2	82·7	78·2	78·4	31·1	+0·9	31·3	83	−3
Mannar	12	1009·0	...	1006·0	90·5	...	92	6,7,8	81·0	...	76	31	84·9	86·5	80·4	80·5	33·4	...	32·8	81	...

(a) Mean for 30 days.

Cloud amount (Oktas).			Rainfall, inches.				Number of rainy days (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Malabar & South Kanara
5·7	+0·8	4·2	3·89	−2·29	1·96	20	3	−3·7	5·8	+0·3	7	4	11	1	0	0	1	2	5	2	0	0	0	0	2	7	19	1		Mangalore
5·6	+0·6	6·0	6·01	−3·27	1·34	28	9	+0·3	8·0	+1·0	4	9	8	1	1	0	2	6	0	0	0	0	0	0	3	15	13	0		Kozhikode
3·7	...	4·9	2·69	...	0·90	22	6	...	6·2	...	0	0	1	0	0	1	24	2	3	0	0	1	0	0	4	19	7	0		Palghat
																														Mysore
4·3	+0·1	4·5	4·55	+1·61	1·73	18	7	−2·6	6·1	0	0	0	1	0	0	8	19	1	2	1	2	2	4	1	0	3	11	7		Chitaldrug
5·3	...	5·4	4·32	...	1·40	25	9	...	3·5	...	2	3	2	0	3	9	4	3	5	2	0	1	3	4	10	6	4	1		Shimoga
4·0	+0·2	5·3	7·51	+2·89	0·94	18	14	+6·8	6·2	+0·9	0	1	0	1	0	4	16	4	5	3	0	0	1	0	8	15	4	0		Hassan
4·8	+0·9	6·0	6·68	+2·52	1·03	15	12	+5·4	6·0	+0·5	0	1	0	0	0	6	16	6	2	3	3	1	4	0	1	3	7	9		Bangalore
5·2	+0·6	5·5	5·40	−0·19	0·87	31	11	+3·1	5·0	−1·1	2	0	1	0	4	6	15	1	2	5	3	2	1	0	4	15	1	0		Mysore
																														Travancore-Cochin
6·2	+1·2	6·6	3·71	−7·97	1·59	31	4	−8·3	6·8	+1·5	1	13	8	2	1	2	1	0	3	0	0	0	0	1	4	16	9	1		Fort Cochin
5·9	...	6·1	3·17	...	0·67	20	8	...	8·2	...	5	5	6	4	1	2	2	6	0	0	0	0	0	0	4	11	16	0		Alleppey
4·3	−1·1	5·2	6·76	−2·02	1·90	30	7	−3·1	5·7	+0·6	11	3	3	1	0	0	1	9	3	1	0	0	0	2	5	13	10	0		Trivandrum
4·5	...	6·6	3·49	...	1·61	31	6	...	8·9	...	0	0	0	0	0	1	7	21	2	0	0	1	0	0	1	23	6	0		Nagercoil
																														Hill Stations excluding Kashmir
3·8	...	4·6	8·11	...	1·87	15	15	...	6·8	...	1	0	5	3	5	12	4	1	0	2	0	0	3	1	12	10	2	1		Aijal
5·4	+0·4	4·8	6·70	−4·59	1·72	30	15	−2·3	4·4	+0·7	1	0	0	0	3	12	2	2	11	0	0	0	0	2	9	1	1	18		Shillong
5·8	0	5·2	70·24	+19·80	18·24	18	20	−2·0	7·4	+1·9	0	11	0	0	2	14	2	2	0	1	10	1	1	0	15	2	0	1		Cherrapunji
6·7	+1·1	6·9	4·92	−4·71	0·87	1	12	−2·4	6·2	+1·4	0	1	16	3	0	1	8	0	2	0	0	1	1	1	6	21	1	0		Darjiling
4·0	−0·2	5·2	3·07	−3·20	1·00	1	7	−4·8	6·8	0	1	1	0	5	0	0	0	24	0	0	0	0	30	0	0	0	1	0		Kalimpong
2·4	−2·1	5·5	2·76	−2·34	0·69	1,26	7	−3·5	0·8	−0·6	0	0	3	2	0	0	0	0	26	3	0	1	2	0	1	5	2	17		Katmandu
2·6	+0·6	3·5	2·21	−0·09	0·62	2	4	−1·1	10·2	+3·2	1	0	1	2	2	5	9	6	5	0	2	0	0	0	6	18	5	0		Mukteswar (Kumaon)
3·3	+1·1	4·5	4·24	+2·57	1·64	31	7	+2·7	5·3	−0·7	7	7	0	5	3	1	0	0	8	3	2	1	4	10	6	0	1	4		Mussooree
3·7	+1·6	4·1	2·07	−0·46	0·78	26	4	−1·2	2·8	−1·0	3	0	3	6	5	2	1	0	11	3	2	1	0	8	7	0	0	10		Simla
2·3	...	3·2	4·08	...	1·65	2	4	...	...	...	9	1	4	0	3	0	3	1	10	6	0	5	0	6	0	5	4	5		Dharamshala
0·7	−0·1	1·9	2·74	+1·81	2·74	31	1	−0·3	6·2	−1·1	3	1	1	1	2	5	5	5	8	1	0	0	0	3	11	12	2	2		Abu
2·2	+0·2	2·6	0·49	−0·13	0·38	26	1	−0·6	3·8	−1·5	4	4	2	0	0	1	6	12	2	3	1	0	0	0	0	8	16	3		Pachmarhi
2·5	−0·4	2·4	2·75	+1·15	0·90	22	6	+3·6	6·9	−1·6	15	4	3	1	1	1	1	4	1	2	0	0	1	0	4	9	15	0		Mahabaleshwar
5·1	0	5·3	3·90	−1·31	2·08	26	8	−0·5	5·5	+1·7	0	1	2	0	0	0	11	12	5	0	0	0	0	0	0	15	15	1		Mercara
4·4	+0·8	6·3	7·72	+1·35	2·16	23	12	+1·6	7·4	+0·3	4	11	2	5	0	1	0	4	4	4	8	0	8	1	1	2	1	6		Kodaikanal
3·3	−0·6	5·1	4·66	−1·63	0·99	31	11	−1·0	1·7	−1·0	1	2	4	1	1	0	0	0	22	2	6	2	0	1	1	0	0	19		Ootacamund
4·6	+0·4	...	4·06	−0·11	0·90	14	10	+2·3	4·5	+1·2	2	2	3	13	7	3	0	1	0	...	...	...	...	...	...	...	...	...		Coonoor
																														Tibet
2·8	...	...	0	...	0	...	0	...	0·3	...	0	0	0	0	0	0	0	0	31	...	...	...	...	...	...	...	...	...		Lhasa
1·5	−1·8	...	0	−0·58	0	...	0	−2·2	4·3	+0·2	1	0	1	5	3	3	1	2	15	...	...	...	...	...	...	...	...	...		Gyantse
																														Ceylon
6·2	+0·3	6·7	23·35	+10·11	5·10	7	18	+3·9	...	...	0	1	3	9	6	9	3	0	0	0	0	0	1	5	18	5	1	1		Colombo
4·8	+1·4	6·2	3·50	+0·82	1·28	9	5	+1·6	...	...	0	0	0	0	1	27	1	0	2	0	1	3	11	0	11	1	1	3		Trincomalee
2·8	...	6·3	2·91	...	0·64	1	5	...	...	...	0	2	0	0	2	2	6	5	14	0	2	7	17	0	3	1	0	1		Batticoloa
6·4	+2·2	6·3	5·75	+1·10	2·46	31	6	−0·8	...	...	0	0	0	0	0	8	22	1	0	0	0	0	0	0	18	13	0	0		Hambantota
4·9	...	4·7	0·85	...	0·83	31	1	...	...	...	0	0	0	0	10	21	0	0	0	1	0	0	0	3	26	1	0	0		Mannar

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M

STATION.	Height of bar, cistern above mean sea level in feet.	Pressure station level in Millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, Millibars.			Relati humidi %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
HYDROMETEOROLOGICAL OBSERVATORIES.																					
Damodar Catchment.																					
Bokaro . .	...	978·7	...	974.3	104·4	...	113	21	75·1	...	63	2	89·5	98·2	71·8	69·9	17·5	...	12·2	40	...
Mahanadi Catchment.																					
Baramul . .	210	999·4	...	994·6	103·0	...	111	15,16	74·2	...	69	22	85·9	94·9	76·2	76·6	26·7	...	23·0	62	...
Hirakud . .	522	988·2	...	983·3	105·9	...	111	16,17	79·8	...	71	2,3	91·0	102·6	74·6	75·5	21·7	...	17·4	46	...
Barakachhar .	1,136	...	...	...	103·7	...	110	15	76·7	...	93	3	89·7	100·2	74·6	103·7	21·5	...	18·1	46	...
Narbada Catchment.																					
Punasa . .	877	...	...	...	109·1	...	114	19	79·6	...	75	10	91·5	106·1	70·8	72·5	16·7	...	12·1	33	...
Bagra Tawa .	1,087	...	...	...	107·8	...	112	20,21	81·4	...	74	4 days	92·7	104·6	72·4	75·9	17·8	...	17·7	34	—
Sabarmati Catchment																					
Dharoi . .	...	...	...	...	105·3	...	109	13	78·1	...	60	11	85·9	104·3	76·2	77·5	26·4	...	19·9	62	...

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity miles per hour.		Wind direction—Number of winds from:—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														HYDROMETEOROLOGICAL OBSERVATORIES.
																														Damodar Catchment
·9	...	3·2	3·18	...	1·29	27	4	...	5·3	...	0	0	2	10	0	7	4	3	5	1	2	3	6	0	1	2	14	2		Bokaro
																														Mahanadi Catchment.
..	...	...	3·56	...	1·48	22	4	...	2·0	...	0	10	0	2	1	5	0	1	12	0	1	0	0	1	4	0	11	14		Baramul
...	...	...	0·69	...	0·30	3	2	...	3·2	...	0	1	0	2	2	15	1	3	7	0	1	0	3	2	10	1	2	12		Hirakud
·6	...	0·7	0·67	...	0·52	25	2	...	5·3	...	0	1	0	0	0	27	0	2	1	0	2	0	1	1	17	4	1	5		Barakachhar
																														Narbada Catchment
·5	...	1·1	0	...	0	...	0	...	6·1	...	2	0	0	0	0	9	17	2	1	2	1	0	0	0	7	15	5	1		Punasa
·8	...	1·5	0	...	0	...	0	...	4·0	...	1	2	0	0	1	10	11	4	2	2	1	1	0	0	4	12	10	1		Bagra Tawa
																														Sabarmati Catchment
..	...	...	0	...	0	...	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Dharoi

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 4TH CLASS STATIONS—MAY 1951.

STATION.	Maximum temperature, °F.				Minimum temperature, °F.				Mean Dry bulb temperature 0830 hrs. I. S. T. °F.	Mean Wet bulb temperature 0830 hrs. I. S. T °F.	Vapour pressure millibars.		Relative humidity, %		Mean cloud amount 0830 hrs. I. S. T.	Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind.	
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.			Mean 0830 hrs. I.S.T.	Departure from normal.	Mean. 0830 hrs. I.S.T.	Departure from normal.		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Resultant direction 0830 hrs. I.S.T.	Velocity in
1	2	3	4	5	6	7.	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	2
Assam																							
Lumding	91·7	+1·9	97	9,11	69·6	−1·8	65	2,5,15	80·1	76·2	28·9	+2·6	83	+5	...	3·22	−3·25	0·75	22	8	−2·7	...	
U. P. West																							
Lokapi	(Closed during winter months)																						
Jammu and Kashmir																							
Jammu	100·1	+0·2	113	23	76·0	−2·2	64	3	83·3	67·4	15·4	+1·3	43	+9	2·9	0·78	−0·15	0·22	2	4	+1·8	N12W	
Kargil (R)																							
Mysore																							
Balehonnur	85·7	+1·1	91	7	67·2	+0·1	63	18,20,21	71·9	69·9	24·1	+0·8	90	+4	...	8·43	+4·28	1·97	30	13	+7·0	...	
Nandi Hills	80·3	...	88	10,12	63·8	...	60	1,22,31	72·2	63·8	16·8	...	64	...	5·7	7·05	...	2·10	13	9	...	S85E	
Sikkim																							
Lachen	...	...	...	...	40·8	...	31	19	55·3	50·3	10·6	...	46	...	...	4·94	...	0·99	1	18	...	...	
Tibet																							
Yatung (Chumbi)	62·5	+1·7	69	31	39·4	−2·9	32	6	56·1	54·5	14·1	+3·3	91	+8	...	3·70	−0·36	2·83	1	7	−4·0	...	
HYDROMETEOROLOGICAL OBSERVATORIES.																							
Mahanadi Catchment.																							
Sonepur (*)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·34	...	0·48	3	4	...	S23W	
Ginabahar	103·6	...	110	15	89·1	...	57	24	89·1	71·6	20·1	...	...	...	...	2·26	...	1·36	24	3	...	...	
Ganga Catchment.																							
Tapoban	79·1	...	89	23	55·4	...	46	2	60·2	51·2	9·6	...	54	...	...	2·17	...	1·01	1	6	...	...	
Badrinath	60·9	...	63	23,27,31	41·2	...	35	15	45·8	41·6	7·7	...	73	...	...	0	...	0	...	0	...	...	
Narbada Catchment.																							
Thikri	109·1	...	113	20	82·7	...	79	1	91·1	71·9	18·2	...	40	...	...	0	...	0	...	0	...	...	
Sabarmati Catchment.																							
Jhadol	101·0	...	106	19	72·0	...	63	5	85·7	69·1	16·7	...	41	...	...	0	...	0	...	0	...	...	

(R) Register not received. (*) Data except rainfall not available.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 5TH CLASS STATIONS—MAY 1951.

Division.	Station.	Rainfall, inches.				Number of rainy days, (0.10" or more).		Division.	Station.	Rainfall, inches.				Number of rainy days, (0.10" or more).	
		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.			Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
ssam	Mawsynram	50·64	...	11·75	17	5	...	Jammu & Kashmir	Sonamarg	3·66	—1·80	0·67	14	11	+1·2
Vest Bengal	Bankura	4·40	+0·33	1·78	28	7	+1·4		Gurez	5·90	+1·42	1·20	1	10	+0·9
ihar	Muzaffarpur	0·15	—1·83	0·15	1	1	—2·1	Deccan (Desh)	Khandala	2·48	+1·69	2·45	27	1	—0·3
	Chapra	0·91	—0·39	0·91	30	1	—0·8	Sikkim	Thangu	2·93	...	0·50	19	10	...
	Arrah	0·66	—0·57	0·59	30	1	—0·8		Chungthang	9.20	...	2·57	17	15	...
unjab (I)	Dalhousie	3·63	+1·51	1·49	2	4	—0·2								
	Kyelang	3·75	+1·44	1·04	1	5	—0·6								
	Gondla	7·65	...	4·15	1	8	...								
	Koksar	3·61	...	0·93	2	6	...								
	Kothi	7·52	...	1·80	30	9	...								
	Dharampore	0·66	—1·28	0·40	31	2	—1·4								
	Kharsali	5·34	...	1·70	31	9	...								
	Rana	4·49	...	1·35	31	10	...								
	Jamuna Chetty	3·59	...	0·80	30	7	...								

RADIOSONDE DATA

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

(From Ascents at 15 hrs. G. M. T.)

MAY 1951

Standard Pressure Surface mbs.	ALLAHABAD (Sur. Pr. 991 mb.)						CALCUTTA (1003 mb.)						JODHPUR (979 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	98	308·2	311	304	284·7	31	7	302·8	305	297	297·6	31	218	309·3	312	305	285
1000	31	17	...	...	...	...	31	39	...	...	...	...	30	27	...	...	...	...
900	31	966	304·7	310	300	278·9	30	973	299·3	307	287	288·0	30	980	303·7	308	300	284
850	31	1479	299·7	305	295	277·4	30	1473	297·2	305	293	282·6	30	1485	297·7	301	289	282
800	31	2010	294·6	300	290	276·3	30	2004	293·2	300	286	279·2	30	2013	293·1	298	287	281
700	31	3147	284·0	291	277	272·3	29	3135	283·6	288	277	274·2	29	3140	281·7	286	277	276
600	31	4411	274·2	280	269	261·2	28	4396	273·4	277	269	265·0	29	4319	271·2	277	265	267
500	31	5858	264·2	273	258	...	27	5836	266·1	271	261	...	29	5813	261·1	267	254	..
400	31	7524	252·1	260	246	...	23	7547	254·5	260	249	...	28	7484	249·6	256	242	..
300	30	9600	236·9	250	218	...	19	9622	239·7	245	232	...	26	9523	234·9	242	227	..
250	21	10840	227·3	241	213	...	10	10866	229·8	235	220	...	21	10735	225·9	236	215	..
200	15	12270	217·3	228	206	...							18	12208	217·8	229	207	..
175	5	13070	210·2	218	204	...							11	13079	214·6	224	203	..
150													6	14030	210·8	221	198	..
125																		
100																		
80																		

Standard Pressure Surface mbs.	MADRAS (1005 mb.)						NAGPUR (969 mb.)						NEW DELHI (978 mb.)					
Surface	30	15	302·8	304	301	298·7	28	307	304·6	312	299	285·4	31	213	306·3	311	300	288
1000	30	56	...	...	...	...	28	23	...	...	...	...	31	14	...	...	...	...
900	30	996	300·3	305	296	288·3	28	974	305·5	311	299	285·5	31	966	304·3	312	295	282
850	30	1498	297·4	301	293	284·9	28	1485	301·9	306	296	283·3	31	1467	299·6	307	292	279
800	30	2029	293·1	297	289	284·7	27	2022	297·2	301	291	282·0	31	2004	294·6	301	288	277
700	30	3167	285·3	289	281	274·8	24	3173	286·5	291	281	276·5	31	3139	284·5	292	277	271
600	28	4442	276·9	281	273	269·1	24	4447	275·4	278	273	270·5	31	4400	273·2	277	269	268
500	28	5902	269·0	272	265	...	24	5892	265·3	269	263	...	31	5829	262·7	268	258	...
400	25	7625	259·4	265	253	...	22	7605	256·3	260	250	...	30	7519	251·0	256	246	...
300	22	9744	245·0	253	240	...	20	9712	242·0	245	239	...	27	9532	234·9	242	226	...
250	14	11039	236·3	241	233	...	19	10973	233·2	237	230	...	21	10800	226·9	234	218	...
200	9	12535	225·2	229	222	...	17	12470	222·9	225	219	...	8	12289	220·1	227	213	...
175							11	13325	217·5	221	218	...	6	13145	216·5	224	207	...
150							11	14321	211·4	215	208	...						
125																		
100																		
80																		

RADIOSONDE DATA
MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
(From Ascents at 15 hrs. G. M. T.)
MAY 1951

Standard Pressure Surface mbs.	POONA (Sur. Pr. 945 mb.)						PORT BLAIR (1006 mb.)						TRIVANDRUM (1002 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	557	303·0	306	296	293·4	31	21	299·8	302	298	297·4	31	64	301·1	299	296	298·0
1000	31	58	...	...	...	...	31	76	...	...	...	...	30	80	...	...	...	...
900	31	993	298·9	303	295	290·7	31	1002	295·2	298	293	291·6	30	1009	295·2	297	293	292·3
850	31	1496	297·2	301	292	285·8	31	1498	293·2	297	290	285·5	30	1504	292·6	293	286	290·0
800	31	2030	295·3	299	292	280·9	31	2021	290·0	293	286	285·0	30	2028	290·0	292	287	286·9
700	31	3169	286·6	290	284	277·0	31	3151	284·4	291	280	278·7	30	3157	283·8	287	281	278·1
600	31	4445	276·7	280	273	270·9	31	4426	278·1	285	272	269·9	28	4430	277·1	280	274	268·3
500	29	5903	268·5	274	259	...	30	5888	270·2	278	265	...	26	5891	269·2	272	261	...
400	29	7631	259·1	263	252	...	26	7616	260·0	266	253	...	25	7617	259·0	261	257	...
300	26	9739	245·9	254	242	...	23	9747	246·4	254	240	...	25	9740	244·8	251	241	...
250	23	11032	235·6	244	231	...	20	11039	236·8	242	230	...	23	11022	235·0	244	231	...
200	20	12547	227·5	238	217	...	13	12548	226·4	234	219	...	17	12526	224·8	234	219	...
175	14	13411	219·3	226	213	...	5	13425	221·6	223	220	...	11	13397	218·7	229	213	...
150	13	14324	212·3	219	209	...							8	14381	214·3	224	208	...
125	6	15508	207·5	213	204	...							5	15456	206·0	211	202	...
100																		
80																		

Standard Pressure Surface mbs.	VERAVAL (1005 mb.)						VISAKHAPATNAM (1000 mb.)					
Surface	29	8	300·5	302	299	298·3	31	48	301·7	303	299	298·2
1000	29	61	...	...	...	...	31	50	...	...	...	...
900	29	995	999·8	303	292	281·7	31	984	298·5	304	296	290·7
850	29	1497	297·4	301	290	280·1	31	1485	297·3	302	293	287·6
800	29	2027	294·0	297	289	276·1	31	2016	293·8	298	290	285·2
700	28	3166	286·3	291	282	269·4	31	3155	285·1	288	283	277·3
600	28	4444	277·5	286	273	263·1	31	4426	275·5	280	273	269·6
500	28	5907	268·8	276	265	...	30	5881	267·7	272	265	...
400	28	7630	257·3	264	253	...	30	7601	257·3	263	255	...
300	26	9734	242·7	251	234	...	29	9709	243·1	247	239	...
250	22	11006	233·6	241	225	...	28	10981	234·3	239	229	...
200	18	12510	223·5	230	215	...	23	12475	224·4	229	218	...
175	17	13355	217·4	224	211	...	19	13344	219·2	225	213	...
150	15	14342	212·0	219	206	...	16	14319	218·7	223	208	...
125	5	15514	210·0	213	202	...	8	15466	209·4	218	205	...
100							8	16789	204·3	215	198	...
80												

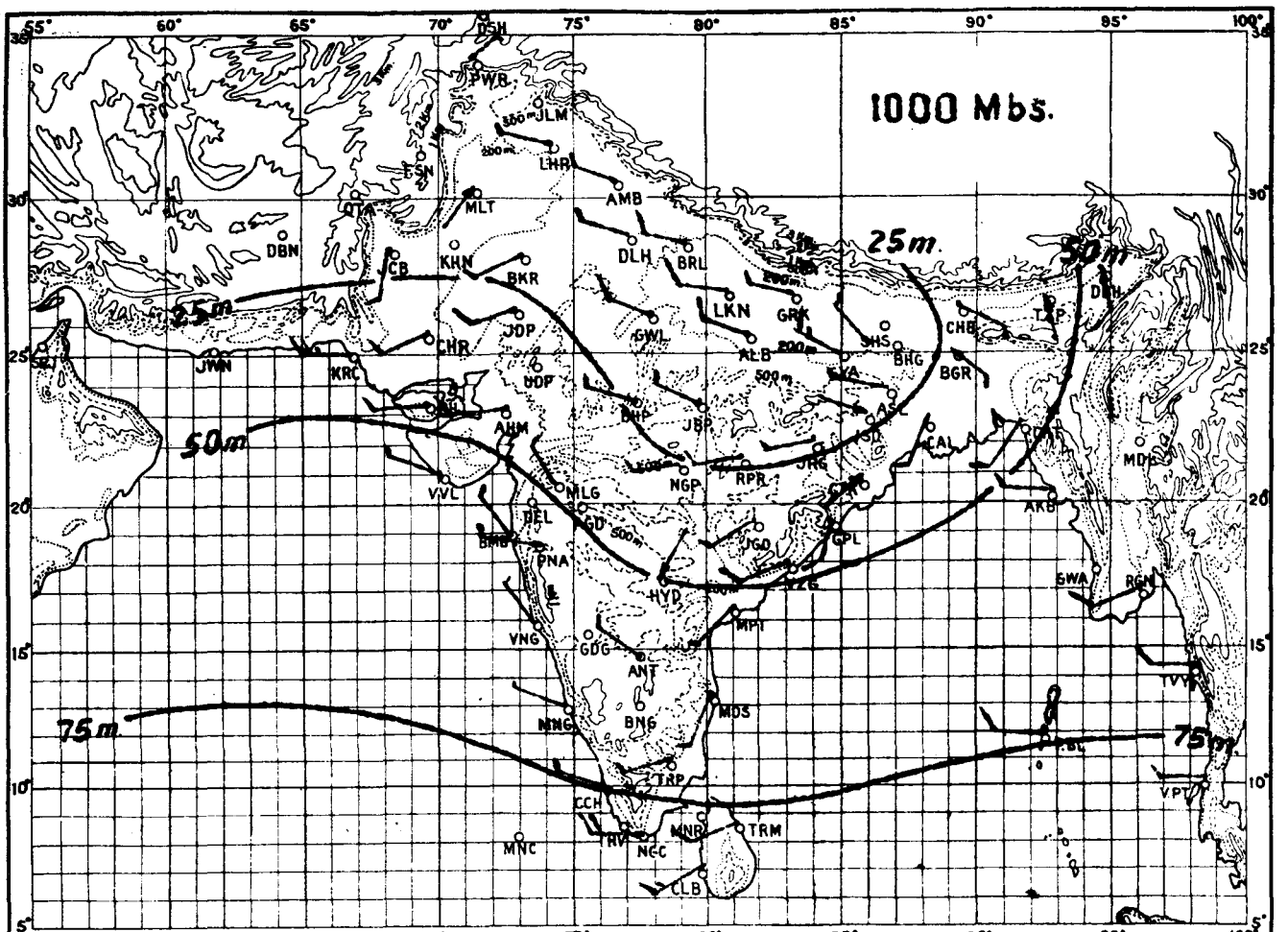
NOTE.—Number of observations refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

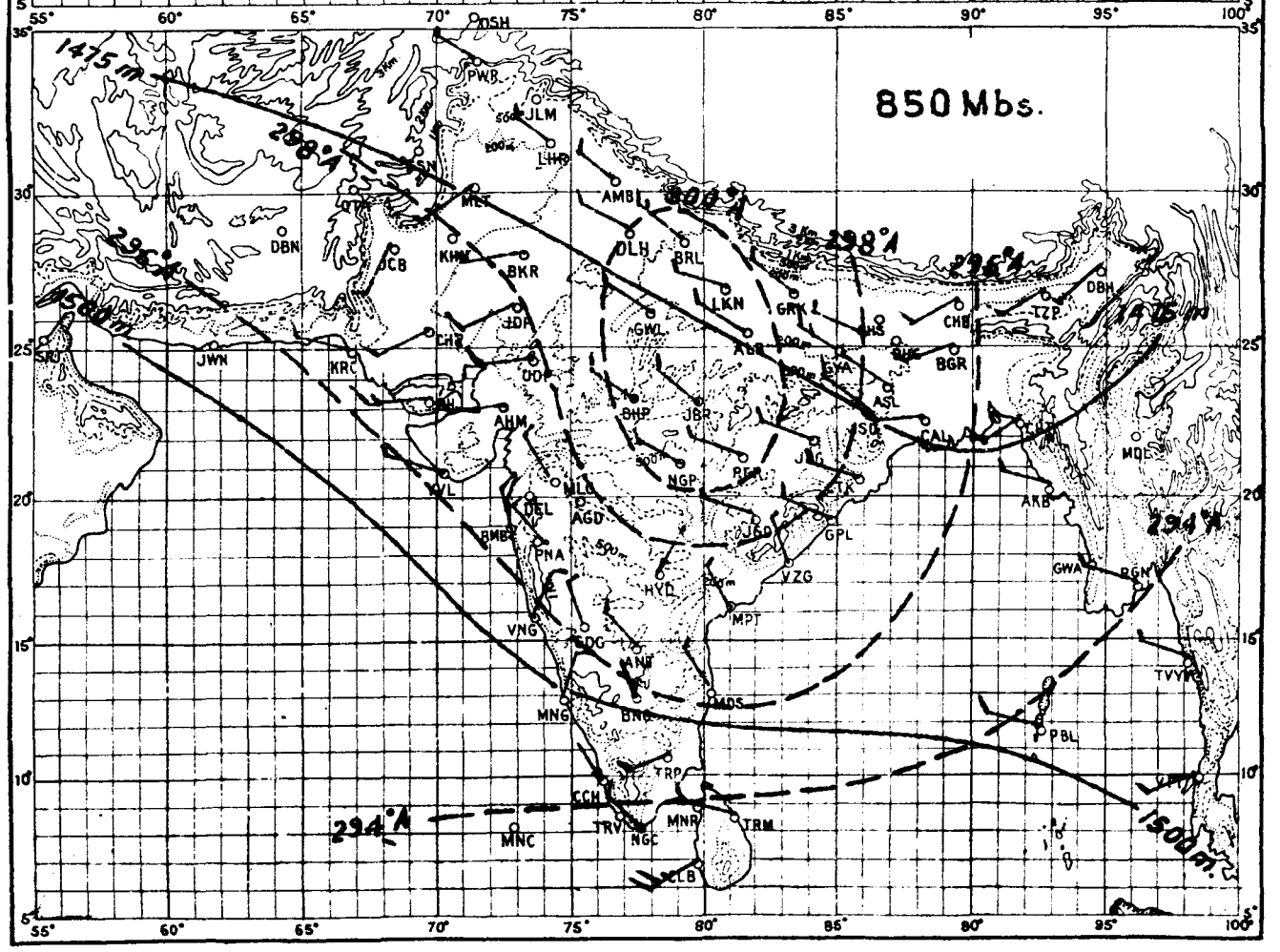
PN S1 -3 DDGM Poona—17-2-53—325.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

MAY 1951

Plate I





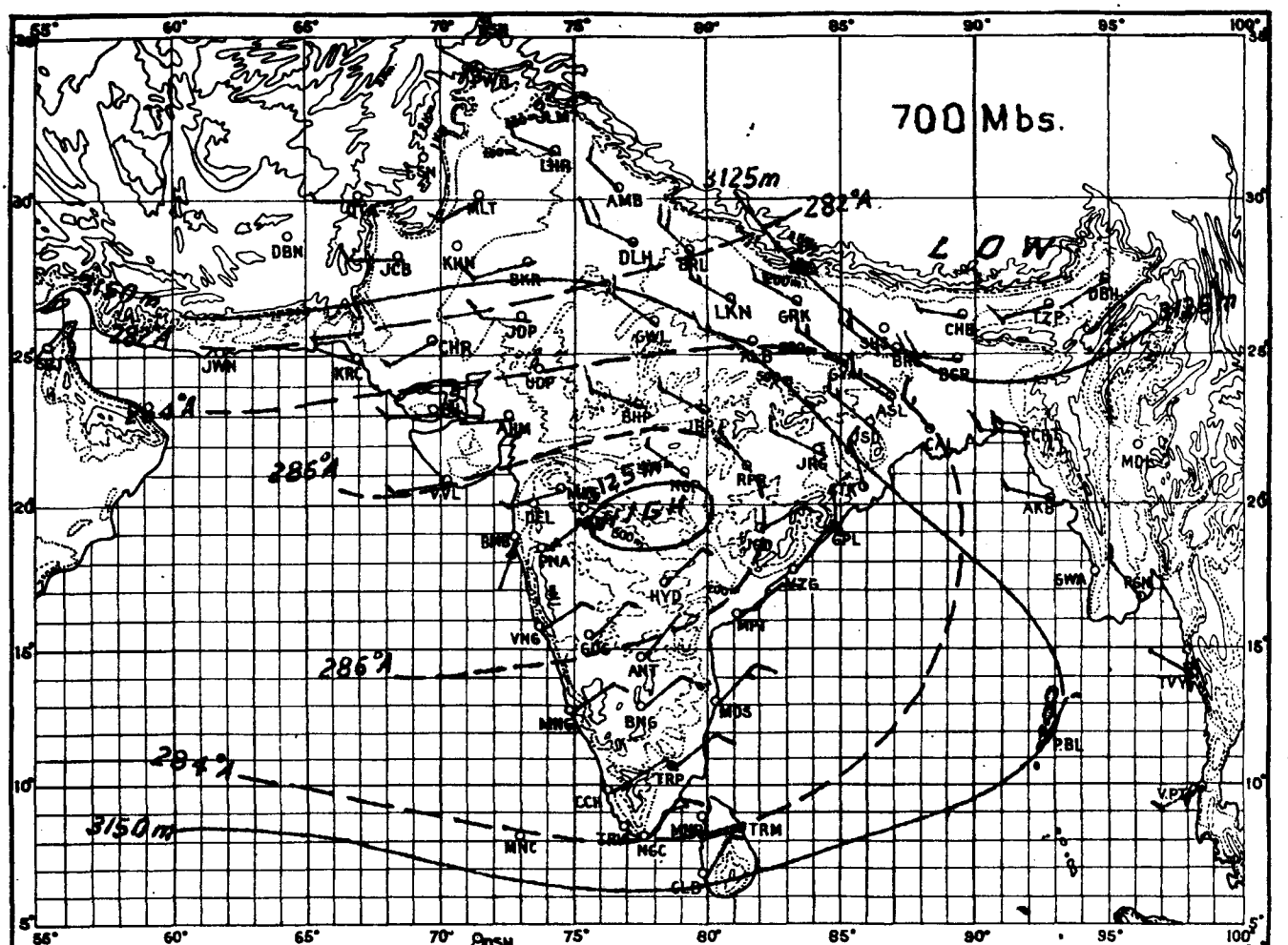
RESULTANT WIND ——\ = 5 Knots, ——\ = 10 Knots, ——\ = 50 Knots.

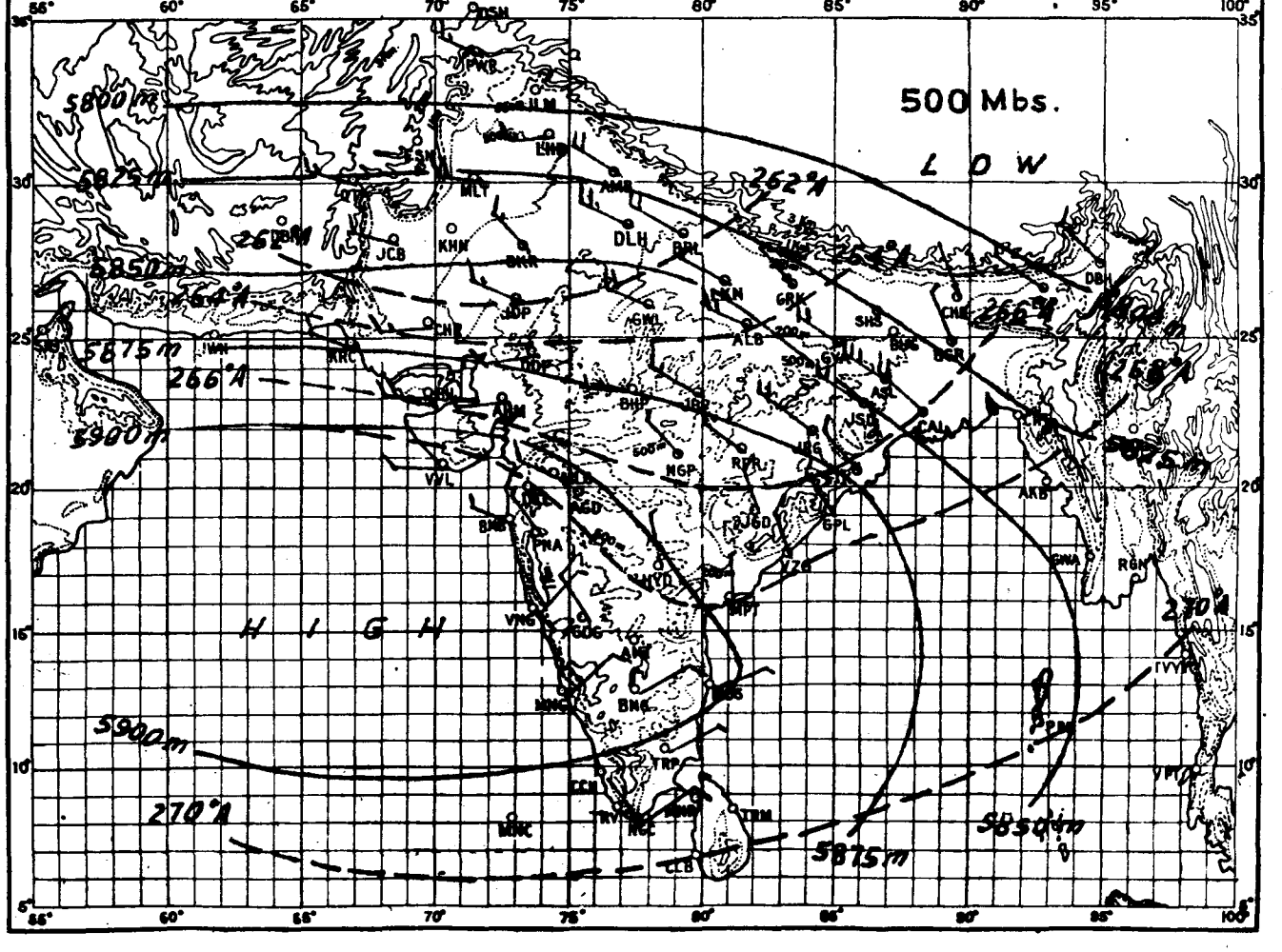
— — — — Isotherms in degrees Absolute ——— Contours in geopotential Metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

MAY 1951

Plate II





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

G.P.Z.P. POONA, 1951.

- - - - *Isotherms in degrees Absolute* ——— *Contours in geopotential Metres.*

Registered No. B-3097.

INDIA WEATHER REVIEW, 1951

Monthly Weather Report

June

Published by authority of the Government of India

Chief features.—(i) Normal arrival of the monsoon along the west coast and in northeast India but delay in its extension into the central parts of the country and Uttar Pradesh and (ii) three depressions, one in the Arabian Sea and two in the Bay of Bengal.

The Arabian Sea branch of the southwest monsoon, which had advanced into Travancore-Cochin on the 31st May, extended into Malabar-south Kanara the next day and into Mysore, south Deccan (Desh) and the south Konkan by the 2nd June. It continued to be active over these divisions throughout the first week. Locally very heavy falls were reported from Malabar-south Kanara and the adjoining regions on the 1st in the second week, the monsoon strengthened and extended into the north Konkan and also feebly extended into north Deccan (Desh), Saurashtra and south Gujarat, chiefly under the influence of a depression which formed in the east Arabian Sea off the Kathiawar-Konkan coast on the 11th about 200 miles southwest of Veraval. The depression moved northwestwards and weakened into a trough of low pressure by the 12th evening. Vigorous monsoon conditions also prevailed along the west coast south of Ratnagiri throughout the second week. The squally weather which accompanied the heavy rainfall caused local damage along the west coast. S.S. Maharashmi, a 1600 ton coastal cargo vessel, is reported to have sunk near Bhatkal about 350 miles south of Bombay on the 10th, due to squally weather.

The Arabian Sea branch of the monsoon was generally weak in the third week. Thereafter it revived slightly and extended into west Madhya Pradesh on the 23rd. Good rain fell along the west coast in the fourth week. There was also a temporary advance of the monsoon in Saurashtra and Kutch, north Gujarat and south Rajasthan on the 28th.

The Bay of Bengal branch of the monsoon advanced into northeast India between the 4th and 5th June, in association with a shallow depression, which formed off the Orissa coast with central region about 200 miles southeast of Puri and crossed the coast near Balasore on the 5th afternoon. Even after the depression had become unimportant on the 6th, the monsoon continued to be vigorous in Assam and active in West Bengal for the next five days. Thereafter for about a fortnight the activity of the Bay Branch of the monsoon was mostly confined to Assam, while the rest of northeast India had little rain. Due to the continuous and locally heavy rain in Assam, many rivers in that State were in floods. According to press reports, the swollen waters of the Brahmaputra carried away nearly 8,000 cattle, while large tracts of land along its banks were inundated. Considerable damage was also caused to property.

Another depression formed in the northwest Bay of Bengal on the 26th morning. It crossed the coast near Balasore the same evening and moved slowly as a low pressure area upto south Bihar and the adjoining regions by the 30th June. Under its influence, the monsoon extended into east Madhya Pradesh, Vindhya Pradesh and Madhya Bharat on the 27th and into east Uttar Pradesh and Vindhya Pradesh on the last two days of the month.

By the end of June the monsoon had advanced over the whole country outside north Rajasthan, the Punjab(I) and west Uttar Pradesh. But due to the delay in its effective extension into the central parts of the country and Gujarat, the rainfall over these divisions was in defect.

Total rainfall for the month was in slight to moderate excess in the Bay Islands, south Hyderabad, coastal Andhradesa, Rayalaseema, Malabar and south Kanara and Travancore-Cochin, and normal in Assam, West Bengal, east Uttar Pradesh, west Rajasthan, Saurashtra and Kutch, the Konkan, Deccan (Desh) and Mysore. It was in slight defect in Orissa, Chota Nagpur, Bihar, east Rajasthan, north Hyderabad, in moderate defect in Vindhya Pradesh, west Madhya Pradesh, Gujarat, and Tamilnad and in large defect in west Uttar Pradesh, the Punjab(I), Madhya Bharat and east Madhya Pradesh. Averaged over the plains of India the rainfall for the month was 15% in defect.

JUN 15 1955

Maximum temperature was above normal in Bihar, east Uttar Pradesh, the Punjab(I), Vindhya Pradesh and west Madhya Pradesh. It was below normal in west Uttar Pradesh, Rayalaseema and Mysore and normal elsewhere. Minimum temperature was normal all over the country.

Relative humidity was normal throughout the country except the Punjab(I) where it was below normal.

Total cloud amount was in excess in Madhya Bharat, Vindhya Pradesh and Tamilnad, in defect in the Punjab(I) and west Rajasthan and normal elsewhere.

Data from Jammu and Kashmir are not available.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amounts for the 13 chief political divisions and the 27 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 fall 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;
Dated the 30th July 1951.

S. BASU,
for *Director General of Observatories*.

	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—									
1. Assam (including Manipur and Tripura).	16·72	16·60	+0·12	+1	−0·9	−0·3	+0·7	+5	+0·7
2. West Bengal	13·46	13·97	−0·51	−4	+0·8	+0·3	−0·1	0	0
3. Orissa	6·95	8·45	−1·50	−18	+1·2	+0·7	+0·3	−1	+0·3
4. Bihar	5·81	7·22	−1·41	−20	+2·1	+0·5	+0·1	−1	0
5. Uttar Pradesh	3·42	4·88	−1·46	−30	+2·7	+0·6	−0·7	−3	−0·1
6. Punjab (I) (including PEPSU and Delhi).	0·27	2·40	−2·13	−89	+2·2	0	−2·8	−7	−0·5
7. Rajasthan	1·98	2·24	−0·26	−12	−0·7	−0·8	−0·6	−1	−0·1
Sub-Division—									
1. Bay Islands	24·41	21·75	+2·66	+12	+0·3	+0·8	−1·0	+1	+0·5
2. Assam (including Manipur and Tripura).	16·72	16·60	+0·12	+1	−0·9	−0·3	+0·7	+5	+0·7
3. West Bengal	13·46	13·97	−0·51	−4	+0·8	+0·3	−0·1	0	0
4. Orissa	6·95	8·45	−1·50	−18	+1·2	+0·7	+0·3	−1	+0·3
5. Chota Nagpur	6·18	7·65	−1·47	−19	+1·8	+0·1	+0·9	0	+0·1
6. Bihar	5·60	6·98	−1·38	−20	+2·4	+0·8	−0·6	−2	−0·1
7. Uttar Pradesh, East.	5·37	5·22	+0·15	+3	+3·0	+1·0	−0·2	−2	−0·1
8. Uttar Pradesh, West.	1·48	4·54	−3·06	−67	−2·4	+0·2	−1·3	−5	−0·1
9. Punjab (I) (including PEPSU & Delhi).	0·27	2·40	−2·13	−89	+2·2	0	−2·8	−7	−0·5
10. Jammu & Kashmir	Data incomplete.								
11. Rajasthan, West	1·43	1·53	−0·10	−7	−0·6	−0·2	+0·2	−1	−0·7
12. Rajasthan, East (including Ajmer).	2·53	2·96	−0·43	−15	−0·8	−1·2	−1·2	−1	+0·4
13. Madhya Bharat	2·35	5·72	−3·37	−59	+0·8	+0·9	−1·6	−3	+0·9
14. Vindhya Pradesh	4·25	6·03	−1·78	−30	+2·3	+1·1	+0·3	−1	+1·1

	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—*contd.*									
8. Madhya Bharat & Vindhya Pradesh.	3·16	5·85	−2·69	−46	+1·5	+1·0	−0·8	−2	+1·0
9. Madhya Pradesh.	4·05	7·64	−3·59	−47	+1·8	+1·0	+0·4	+1	+0·8
10. Bombay (including Saurashtra and Kutch).	9·12	9·56	−0·44	−5	+0·2	+0·6	+0·7	+3	+0·2
11. Hyderabad	4·61	4·98	−0·37	−7	−1·0	+0·1	−0·2	+2	+0·7
12. Madras (including Travancore-Cochin).	7·76	6·66	+1·10	+17	−1·4	−0·1	−0·5	+1	+0·7
13. Mysore	5·66	5·71	−0·05	−1	−2·8	−0·4	−0·2	+4	+0·2
Mean of India	5·81	6·84	−1·03	−15	+0·5	+0·3	−0·2	0	+0·3
Sub-Division—*contd.*									
15. Madhya Pradesh, East.	4·25	9·02	−4·77	−53	+1·4	+0·8	+0·9	+3	+0·7
16. Madhya Pradesh, West.	3·93	6·77	−2·84	−42	+2·0	+1·1	0	0	+0·8
17. Gujarat	2·88	5·55	−2·67	−48	+1·1	+1·3	+0·8	+1	−0·1
18. Saurashtra and Kutch.	2·88	3·10	−0·22	−7	+1·3	+1·2	+0·7	+2	−0·2
19. Konkan	29·63	28·85	+0·78	+3	+0·1	−0·1	+1·0	5	+0·5
20. Deccan (Desh)	7·15	7·33	−0·18	−2	−0·8	+0·1	+0·5	+3	+0·7
21. Hyderabad, North.	4·03	5·34	−1·31	−25	−0·5	+0·5	+0·1	+3	+0·4
22. Hyderabad, South.	5·19	4·62	+0·57	+12	−1·3	−0·2	−0·5	+2	+0·9
23. Coastal Andhradesa.	4·63	3·77	+0·86	+23	−1·6	−0·3	−0·5	+2	0
24. Rayalaseema	2·81	2·43	+0·38	+16	−3·8	−0·8	+0·4	+5	+1·0
25. Tamilnad	0·98	1·57	−0·59	−38	−0·9	+0·6	−1·1	−2	+1·1
26. Malabar & South Kanara.	40·25	35·08	+5·17	+15	+0·6	−0·7	+0·1	0	+0·2
27. Mysore	5·66	5·71	−0·05	−1	−2·8	−0·4	−0·2	+4	+0·2
28. Travancore-Cochin.	28·47	20·83	+7·64	+37	−1·3	−0·9	+0·2	+4	+0·7

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Bay Islands																					
Port Blair	259	998·7	+0·1	996·2	84·6	+0·3	87	2,5,8	75·8	+0·8	72	23	81·6	77·6	77·7	77·0	30·5	—1·0	31·0	83	+1
Assam																					
Dibrugarh	348	990·4	—1·2	987·1	86·0	—1·0	96	1	74·1	0	70	10,11	78·3	81·2	76·5	77·7	30·0	—0·2	30·8	92	+5
Mohanbari (R)	364																				
Sibsagar	317	991·6	—0·8	987·7	88·3	—0·3	96	1	76·1	0	72	20,21	81·2	83·7	77·9	79·3	30·8	—0·7	32·1	85	0
Tezpur	258	993·9	—0·6	990·1	88·0	—0·6	95	1,2	76·1	—0·4	73	10,20,21	80·4	83·9	77·6	78·8	30·7	—0·3	31·6	87	+3
Gauhati D. Type	162	995·9	...	993·8	87·6	...	95	1	76·5	.	73	20,21	80·8	82·6	78·0	79·2	31·2	...	32·4	88	...
Gauhati	182	995·5	—0·8	991·4	87·6	—1·3	98	26	76·2	—0·3	72	20	80·5	82·6	77·6	78·5	30·8	+0·1	31·6	87	+5
Dhubri	115	997·9	—0·4	994·7	84·7	—1·0	94	1	76·1	0	72	11	79·1	81·0	77·7	78·3	31·6	+0·8	32·2	94	+8
Silchar	96	999·4	—0·9	996·2	87·3	—1·9	97	4	75·4	—0·8	70	6	81·1	83·9	78·1	79·0	31·5	0	31·5	87	+3
Tura	1,215	961·2	...	957·8	84·5	...	91	4	74·0	...	69	9	78·9	79·8	76·1	77·0	29·2	...	30·1	87	...
West Bengal																					
Dum Dum	33	998·8	...	995·8	93·2	...	102	20	79·6	...	74	24	85·9	87·9	79·8	79·9	32·2	...	31·6	76	...
Calcutta	21	999·2	—0·8	996·2	93·8	+1·4	101	20	80·4	+1·8	76	17	86·2	88·1	81·1	81·1	33·9	+0·9	33·0	80	+1
Saugor Island	10	999·6	—0·7	997·0	83·9	—0·7	97	6	81·9	+1·0	76	30	85·4	86·2	80·7	81·4	34·0	—0·3	34·1	81	+3
Sandheads	32	998·8	—1·3	996·0	...	...	...	...	...	...	...	...	85·8	85·8	81·2	81·5	34·5	—0·3	34·5	82	+2
Midnapore	149	994·7	—0·7	991·8	94·2	0	102	23	78·6	—0·6	71	10	86·2	86·7	79·8	79·5	31·7	—0·3	31·5	75	—3
Contai	35	998·5	...	995·8	90·4	...	95	13,14	80·7	...	76	16	85·6	86·1	81·7	82·5	35·0	...	36·4	84	...
Burdwan	106	995·6	—1·3	992·2	95·2	+1·7	102	20	78·8	0	70	27	85·2	89·7	79·9	80·1	32·1	—0·4	30·9	77	—3
Krishnagar	48	998·4	—1·0	995·4	95·1	+2·3	103	20	78·4	—0·1	75	18	85·3	87·5	80·7	80·6	33·9	+0·6	32·3	81	+2
Asansol	414	985·3	—0·8	982·0	96·7	—1·2	105	20	79·1	0	74	13	85·7	88·1	79·4	78·5	31·1	—0·3	29·1	75	+1
Berhampore	62	998·0	—0·7	994·3	95·4	+2·7	102	19,20	79·4	+0·9	74	8	85·5	88·6	80·2	80·4	32·5	—0·3	32·2	78	—3
Malda	103	996·5	—1·2	993·0	93·4	+1·9	102	19	78·3	+0·1	74	10	84·7	88·5	80·0	82·1	33·2	+0·6	33·4	81	0
Cooch Behar	145	996·6	...	993·1	87·7	...	95	4	76·5	...	72	10	80·6	83·3	77·7	78·9	30·9	...	31·6	87	...
Jalpaiguri	271	992·2	—0·8	988·9	87·5	—1·1	93	1,2,4	75·6	—0·1	72	10	79·4	83·7	76·6	78·8	29·7	—1·1	31·3	88	+2
Bagdogra	418	986·3	...	983·3	88·3	...	94	4	75·8	...	71	10,12	80·4	83·5	76·9	78·6	30·0	...	31·0	85	...
Orissa																					
Balasore	65	997·4	—0·8	994·7	93·1	—0·1	105	20	79·5	+0·4	73	27	85·5	87·1	79·9	80·4	32·5	+0·4	32·3	78	+1
Chandbali	20	999·3	—1·0	996·4	93·8	—0·1	103	20	79·3	—0·4	73	15,21	85·5	88·0	80·7	81·0	33·3	—0·1	32·9	78	—1
Puri	20	1000·0	—0·5	997·2	90·1	+1·1	98	2	81·5	+0·6	74	13	86·3	86·0	81·2	81·7	34·1	+0·3	35·1	79	—2
Cuttack	87	997·0	—1·2	993·9	96·5	+1·0	104	13	79·8	+0·2	73	27	85·1	89·3	78·7	79·6	30·4	—1·2	30·4	74	—1
Gopalpur	56	998·9	—0·4	996·2	91·1	+1·3	101	13	81·1	+0·8	76	26	86·2	85·7	80·7	81·2	33·3	+0·1	34·3	78	—3
Koraput	2,996	903·7	...	901·3	85·1	...	92	3,9,10	70·7	...	65	21	75·8	79·2	72·3	72·9	25·6	...	24·8	82	...
Angul	455	985·3	+0·1	981·7	97·9	+2·0	103	13,20	80·4	+1·5	74	15	85·7	91·6	78·6	79·0	30·4	+0·8	28·3	72	0
Sambalpur	486	983·7	—0·6	979·9	99·3	+1·8	105	9	81·0	+0·5	74	30	87·5	93·8	78·3	77·7	29·2	+1·1	25·3	66	0
Jharsuguda	726	975·3	...	971·6	...	...	...	...	...	...	...	...	86·8	90·3	78·6	78·4	30·0	...	27·8	69	...
Titilagarh	691	977·4	...	973·2	98·7	...	107	9	80·0	...	74	26,27	85·0	94·6	75·8	77·9	26·6	...	25·4	66	...
Chota Nagpur																					
Purulia	835	971·4	...	968·1	97·5	...	104	20	79·1	...	71	10	86·0	89·2	77·8	77·8	29·1	...	27·2	69	...
Jamshedpur	423	985·2	—0·7	981·6	97·1	+0·1	103	20,21	79·9	—0·1	74	1	85·6	90·6	78·1	78·9	29·0	—0·9	28·8	71	+1
Chaibasa	742	974·4	—0·5	971·0	98·3	+1·4	105	9,13	79·6	+0·4	71	14	85·0	91·7	77·5	78·4	29·1	+0·4	27·3	71	+2
Ranchi	2,150	928·2	—0·5	925·5	94·5	+2·5	102	10,11,12	74·8	—0·5	71	20	83·7	85·6	75·4	74·5	26·4	+1·5	24·8	68	0
Hazaribagh	2,006	932·7	—1·0	929·9	96·2	+3·1	103	9,10	76·2	+0·1	72	15	84·6	87·7	74·7	74·1	25·2	+1·1	23·3	63	—2
Daltonganj	725	974·4	—0·7	970·5	102·0	+1·7	111	10	81·7	+0·8	72	14	91·2	94·0	78·8	77·2	28·4	+2·3	24·7	58	—2
Dhanbad	839	970·6	...	967·5	96·4	...	103	20	77·2	...	70	1,10	85·4	87·3	77·9	77·4	29·2	...	27·4	71	...

(R) Register not received.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																		STATION.
											0830 hrs. I. S.T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bay Islands
7·2	+0·5	6·9	24·41	+2·66	3·24	21	26	+4·5	12·2	−1·5	1	0	0	0	3	21	5	0	0	0	0	0	0	2	24	3	1	0	Port Blair
																													Assam
7·5	+1·3	6·6	24·97	+5·30	4·44	26	23	+3·4	1·5	+0·3	4	4	7	3	4	1	3	2	2	6	3	3	1	2	3	0	1	11	Dibrugarh
																													Mohanbari (R)
7·2	+0·2	7·0	9·57	−5·56	1·78	5	19	+1·9	4·2	+2·0	5	8	1	1	3	4	0	4	4	4	7	1	3	3	4	0	6	2	Sibsagar
6·7	+0·5	6·0	11·34	−0·80	1·82	10	17	+1·0	1·4	−0·5	0	3	15	1	2	1	4	0	4	3	0	5	2	1	4	0	0	15	Tezpur
6·7	...	(k) 6·1	18·20	...	3·54	26	20	...	2·3	...	6	12	1	0	3	1	1	2	4	2	3	0	1	1	1	0	2	10	Gauhati D. Type
7·1	+0·9	6·3	14·74	+2·44	2·41	29	15	+0·3	2·2	+0·8	6	9	4	2	1	2	2	3	1	2	6	3	3	3	4	2	0	7	Gauhati
7·0	+0·9	6·5	33·42	+9·31	4·00	7	22	+3·9	3·1	−1·2	2	6	6	3	2	2	0	1	8	3	6	3	3	3	3	1	0	8	Dhubri
6·6	+0·5	6·0	11·83	−11·34	1·18	4	23	+1·7	1·5	−0·2	5	3	6	4	1	0	2	3	6	3	4	1	0	1	2	4	6	9	Silchar
6·9	...	7·3	28·34	...	4·02	9	23	...	4·3	...	1	1	1	4	5	6	6	0	6	0	3	2	3	5	9	2	1	5	Tura
																													West Bengal
6·9	...	6·7	8·38	...	2·02	24	11	...	8·0	...	0	0	2	3	10	6	4	1	4	0	0	0	4	17	5	1	1	2	Dum Dum
6·2	+0·1	6·0	9·55	−2·14	2·72	24	10	−3·2	4·4	+0·1	0	0	4	2	7	10	1	0	6	0	1	0	4	12	8	1	0	4	Calcutta
6·1	−0·4	5·8	10·86	−0·81	3·37	30	12	−0·1	14·9	+1·7	0	0	1	1	9	14	4	0	1	0	0	0	4	13	13	0	0	0	Saugor Island
7·1	+1·4	7·0	8·24	+0·37	2·68	21	6	−3·4	...	...	0	0	3	2	5	20	0	0	0	0	0	2	1	11	16	0	0	0	Sandheads
5·4	+0·4	6·0	11·02	+0·81	3·83	30	9	−3·4	4·4	+1·0	1	4	0	0	9	11	1	0	4	0	1	1	0	15	4	1	0	8	Midnapore
4·8	...	5·2	5·92	...	2·31	30	8	...	8·8	...	1	2	0	3	12	9	2	1	0	1	0	0	6	13	8	0	1	1	Contai
1·9	−4·0	2·6	8·03	−2·49	2·50	13	7	−5·4	6·2	+3·1	1	2	3	5	7	12	0	0	0	1	1	1	11	6	9	1	0	0	Burdwan
6·5	+0·8	5·7	6·09	−4·24	1·26	6	10	−2·7	5·4	+0·4	0	2	3	1	17	4	3	0	0	1	2	6	2	13	2	3	0	1	Krishnagar
5·4	+0·1	6·3	8·40	−1·11	2·20	30	9	−2·7	5·2	−0·1	0	0	2	8	8	4	3	1	4	0	3	4	8	3	2	3	5	2	Asansol
6·7	+0·6	6·8	6·12	−3·55	3·57	8	9	−3·3	3·1	−0·6	0	0	8	3	9	1	0	0	9	0	1	12	5	6	1	0	0	5	Berhampore
6·3	+1·3	6·1	4·01	−5·81	0·79	30	8	−3·5	5·5	+0·1	1	4	7	5	9	2	1	0	1	0	5	9	9	5	1	0	1	0	Malda
7·5	...	6·6	39·09	+5·30	7·68	10	19	−1·6	3·2	...	0	4	13	2	3	2	0	0	6	0	4	9	6	3	0	0	0	8	Cooch Behar
6·2	+1·4	5·3	33·13	+7·19	6·65	6	22	+2·9	5·0	+2·9	2	8	14	2	1	1	0	1	1	0	6	14	5	3	1	0	1	0	Jalpaiguri
(b) 6·7	...	(b) 6·0	16·87	...	1·93	17	16	...	3·7	...	0	9	15	3	0	0	1	0	1	2	6	10	4	1	0	0	1	5	Bagdogra
																													Orissa
7·3	+1·9	(b) 6·8	8·86	−0·31	3·09	31	9	−2·1	6·5	+1·7	2	2	0	2	10	13	1	0	0	0	1	1	7	8	11	0	1	1	Balasore
5·4	−0·4	4·8	9·48	+0·74	2·64	15	8	−3·3	7·4	−0·6	1	1	0	3	2	13	2	6	2	0	3	1	14	0	7	0	1	2	Chandbali
6·4	+1·1	6·5	9·62	+2·16	3·18	26	7	−1·1	14·0	+1·9	2	2	0	3	2	15	5	1	0	0	0	0	6	4	18	1	0	1	Puri
4·6	−1·1	5·8	6·80	−3·15	2·67	30	9	−2·4	3·6	+0·6	0	0	0	0	1	2	0	3	24	0	0	0	2	5	3	1	0	19	Cuttack
5·4	+0·9	5·9	8·95	+3·49	6·40	27	5	−2·6	8·9	−1·7	2	0	2	0	7	12	1	0	6	0	2	0	3	10	10	1	1	3	Gopalpur
5·1	...	6·2	8·42	...	1·61	16	10	...	...	...	0	1	0	0	0	6	19	4	0	6	1	1	0	2	4	13	3	0	Koraput
5·3	−0·5	6·3	2·68	−5·86	0·63	25	7	−4·6	6·2	+1·0	2	3	2	2	4	7	8	1	1	1	0	4	7	3	3	8	4	0	Angul
4·5	−0·7	4·7	4·76	−5·33	1·89	27	6	−4·7	4·9	+0·9	0	0	3	1	6	16	4	0	0	2	3	1	2	1	11	9	0	1	Sambalpur
6·2	...	7·3	6·38	...	2·30	27	14	...	...	...	0	0	1	3	7	10	0	0	9	2	1	0	1	7	4	7	2	6	Jharsuguda
5·6	...	5·4	4·43	...	1·32	26	6	...	3·3	...	0	1	0	2	10	12	3	1	1	1	1	0	2	5	7	1	2	11	Titilagarh
																													Chota Nagpur
5·1	...	6·9	6·48	...	2·42	10	7	...	4·7	...	0	0	5	8	0	7	5	3	2	2	1	1	12	3	3	4	2	2	Purulia
5·1	−0·3	6·5	6·83	−0·68	1·05	1,17	12	+1·3	5·8	+1·2	1	0	5	1	0	2	13	4	4	0	1	7	7	3	2	3	3	4	Jamshedpur
6·2	+1·1	7·5	7·39	−0·40	2·14	14	7	−3·7	2·9	+0·2	0	2	1	3	4	14	1	3	2	2	3	2	2	7	8	2	1	3	Chaibasa
3·7	−1·3	6·6	5·11	−3·48	1·00	3	11	−0·4	3·9	−1·6	0	0	1	0	2	4	0	0	23	0	1	2	1	3	1	2	0	20	Ranchi
6·3	+0·6	7·3	7·22	−1·11	3·03	30	9	−1·7	6·1	−0·7	0	1	1	3	5	13	2	4	1	2	2	2	3	3	3	3	10	2	Hazaribagh
3·9	+0·4	6·1	4·33	−1·69	1·83	30	7	−1·2	4·2	−0·4	1	2	0	5	3	0	15	1	3	1	2	2	7	2	1	5	10	0	Daltonganj
5·9	...	6·7	10·24	...	2·13	30	12	...	6·4	...	0	3	5	2	7	7	5	1	0	0	4	6	4	8	4	3	1	0	Dhanbad

(b) Mean of 29 days.

(k) Mean of 20 days.

100 528

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature °F.		Vapour pressure, millibars.			Relat humid %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Bihar																					
Purnea	124	996·1	—0·8	992·3	92·3	+0·9	102	2	77·2	—0·2	72	20	82·9	87·9	77·9	81·1	30·4	—1·2	32·8	80	—2
Darbhanga	161	994·3	—0·8	990·5	95·0	+2·1	103	2	79·3	+0·8	73	15	85·9	91·2	79·1	80·2	30·6	—0·6	30·7	74	—3
Motihari	218	992·1	—1·3	998·6	96·7	+3·2	105	22	78·6	+0·8	74	3	86·8	88·7	79·3	80·0	30·8	—0·3	31·3	72	—5
Patna	173	993·0	—1·1	989·2	99·8	+3·6	106	25	81·1	+1·2	74	16	87·7	93·9	78·6	79·6	29·5	—1·6	27·7	66	—6
Dehri	352	986·0	...	982·7	103·4	...	115	11	82·8	...	76	16	86·8	95·7	77·7	78·4	28·5	...	25·0	66	...
Gaya	365	985·4	—1·7	981·9	102·5	+3·0	111	10	82·9	+1·6	76	16	90·8	96·4	77·8	77·3	26·6	+0·2	23·4	55	+2
Jamui	270	989·7	...	986·2	100·3	...	108	20	81·6	...	76	16	89·6	94·1	81·2	81·6	32·4	...	31·1	70	...
Dumka	489	982·9	—0·9	979·5	93·6	—0·5	107	20	...	...	...	...	82·7	87·2	76·1	75·6	27·9	—2·7	25·1	72	—3
Sabour	122	995·3	—1·2	991·4	96·7	+2·2	104	20	79·6	+0·4	75	15	85·9	91·5	80·0	81·9	32·2	+0·3	33·4	77	0
Bhagalpur	181	993·9	...	989·8	97·9	...	106	20	80·5	...	75	15	87·1	93·0	79·1	80·4	30·4	...	29·9	69	...
U. P., East																					
Gonda	360	986·6	...	982·6	102·5	+4·7	110	9	80·4	+0·4	72	25	86·9	97·5	77·3	79·2	27·9	—1·4	24·9	65	—4
Gorakhpur	254	990·0	—1·6	986·1	98·9	+2·0	105	1	80·5	+1·3	77	15,16,30	86·1	94·8	78·3	79·4	29·1	—1·4	27·3	69	—4
Azamgarh	255	989·3	...	986·0	101·6	...	108	1	81·0	...	76	30	86·9	94·6	79·1	80·3	30·2	...	29·7	69	...
Banaras	250	939·5	—1·4	985·7	104·4	+3·5	113	11	82·7	+0·7	75	30	90·0	98·0	80·0	79·5	30·4	+2·4	26·0	64	+3
Allahabad (Bamrauli).	322	987·1	—1·2	983·3	104·2	+1·5	115	11	84·0	+1·1	74	30	90·9	99·7	79·0	79·7	28·4	+0·4	25·9	59	+3
Fatehpur	375	985·3	...	981·2	104·8	+1·8	113	13	84·0	+1·1	75	16	90·3	100·2	77·3	78·1	25·8	—2·1	22·7	55	—7
Banda	398	985·0	...	980·9	(b) 106·6	...	116	28	84·9	...	74	29	91·9	101·0	78·0	79·5	26·4	...	24·6	52	...
Orai	463	982·4	...	978·5	106·0	...	114	11	84·0	...	76	2	92·4	100·3	76·7	76·6	23·4	...	20·5	49	...
Kanpur	414	984·3	—0·8	980·2	105·2	+2·5	114	11	(b) 84·5	+1·5	76	2	91·3	102·2	76·6	(b) 76·7	24·6	—1·7	(b) 20·3	51	—7
Lucknow	371	986·0	—0·8	981·8	105·1	+4·9	112	9	82·6	+0·9	77	1	90·3	101·3	79·3	79·7	28·8	+1·2	24·6	62	+1
Hardoi	467	982·0	...	978·0	107·6	...	119	18	81·2	...	69	30	87·1	101·9	77·8	79·2	27·9	...	24·1	65	...
Kheri	483	982·1	...	978·8	103·0	...	111	13	80·6	...	75	20	87·8	99·1	77·3	78·1	27·4	...	23·2	63	...
Bahraich	407	985·3	0·4	980·8	101·8	+3·1	110	9	81·1	+1·1	75	16,25	87·1	99·6	78·9	79·2	30·2	+1·2	25·1	69	+2
U. P., West.																					
Jhansi	823	971·6	—0·5	967·3	104·0	0	113	11,13	82·4	—2·1	75	16,27	90·6	98·9	77·3	79·9	26·1	+1·7	26·3	55	+5
Agra	553	979·7	—0·7	976·0	105·0	+1·0	113	13	84·4	+0·9	75	15,16	90·6	101·3	74·8	75·8	22·4	—0·3	18·5	49	+4
Mainpuri	516	981·0	—0·5	976·3	106·8	+2·1	115	12,13	83·7	+0·9	74	16	93·4	101·8	75·6	76·4	22·3	—3·6	19·5	42	—11
Aligarh	615	977·6	...	973·7	102·3	+0·1	112	13	82·5	—0·1	74	15	91·8	101·9	76·5	79·0	24·1	—0·2	23·4	49	—7
Bareilly	568	978·8	—1·5	974·6	105·4	+5·2	112	13	82·1	+1·7	77	20,22	90·3	101·5	75·8	75·1	23·6	—4·3	17·1	50	—14
Meerut	728	973·6	—1·3	...	104·2	+2·9	112	13	81·1	+0·5	67	16	89·3	...	77·5	...	26·2	+1·6	...	59	+3
Roorkee	899	967·8	—1·5	963·6	103·7	+3·5	112	13	77·8	—1·0	68	16	87·5	100·4	73·5	73·8	21·4	—2·3	16·2	49	—8
Dehra Dun	2,239	924·9	—1·1	921·4	97·8	+4·1	106	13	75·0	+0·9	64	16	85·2	94·5	70·9	71·3	18·9	—2·8	16·4	49	—11
Punjab (I)																					
New Delhi	710	974·0	—1·3	970·2	102·6	+0·2	111	12,13	83·3	+0·8	72	16	91·4	100·9	73·6	73·7	20·3	—3·8	16·0	41	—12
Hissar	725	974·1	+0·1	970·2	107·1	+1·5	113	8,12,13	81·3	—0·9	72	3	89·2	103·7	75·6	77·6	24·0	+0·1	20·9	52	+4
Karnal	818	970·1	...	966·5	104·4	...	111	12,13	80·0	...	67	16	86·2	99·7	72·8	72·3	21·1	...	14·8	42	...
Ambala	892	967·3	—1·6	963·4	108·5	+4·9	116	12	81·7	+1·0	72	3	90·1	104·8	72·8	74·7	19·3	—3·7	16·0	41	—6
Patiala	822	969·9	...	966·1	106·7	...	114	12	79·0	...	69	3	88·7	102·9	73·5	77·9	21·8	...	21·4	51	...
Ludhiana	810	970·5	—0·9	966·6	106·6	+1·9	113	4 days	80·1	—0·8	70	2	91·3	105·3	72·4	74·4	18·2	—3·9	14·6	37	—12
Ferozepore	657	975·5	...	971·9	104·9	...	112	28	78·3	...	66	1	87·1	102·6	(b) 72·6	74·7	(b) 20·7	...	16·9	(b) 45	...
Amritsar	756	971·9	...	968·3	104·3	...	112	28	75·7	...	67	12,18	88·9	103·2	71·5	73·2	18·4	...	14·1	40	...
Jammu and Kashmir.																					
Srinagar	5,205	837·8	+1·3	834·7	76·3	—9·1	91	30	55·1	—2·2	47	15,18	63·3	74·8	58·4	62·5	14·7	—2·3	14·8	76	+1
Gulmarg	8,709	738·0	+0·5	...	61·7	—6·1	77	29,30	39·9	—5·3	32	18	54·2	...	49·3	...	10·1	—1·4	..	73	+5

(b) Mean of 29 days.

Cloud amount (Oktas).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity miles per hour.		Wind direction—Number of winds from:—																			STATION.
											0830 hrs. I.S.T.									1730 hrs. I.S.T										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Bihar
5·8	+0·4	5·2	4·60	—5·63	1·70	15	8	—3·8	4·3	+1·3	4	3	18	2	0	1	1	0	1	0	3	20	1	0	0	1	0	5		Purnea
4·7	—0·1	3·4	4·17	—3·41	1·88	30	5	—3·8	4·4	+0·1	0	11	12	3	0	0	1	1	2	0	5	15	3	0	1	3	1	2		Darbhanga
4·0	—0·1	4·0	3·29	—5·42	0·86	29	7	—2·4	5·0	+0·2	0	0	22	0	0	0	2	0	6	0	1	18	0	0	0	4	0	7		Motihari
3·9	—0·6	5·2	5·21	—1·93	3·34	5	4	—4·0	6·6	+1·6	0	17	3	5	0	4	0	1	0	0	18	1	0	0	3	1	3	4		Patna
4·7	...	6·9	7·80	+2·43	3·44	29	6	—0·9	4·4	...	0	3	4	7	2	9	1	3	1	2	5	3	3	2	1	0	14	0		Dehri
3·9	+0·2	6·1	3·62	—2·83	1·23	30	4	—3·5	7·1	+1·0	1	3	5	3	1	8	5	2	2	4	5	5	3	0	0	5	7	1		Gaya
4·7	...	6·4	3·33	...	1·18	29	5	...	4·9	...	0	5	12	7	0	0	0	5	1	1	5	10	6	1	0	0	6	1		Jamui
2·7	—2·0	4·7	8·29	—1·71	2·63	30	10	—1·9	...	...	2	1	5	12	2	4	4	0	0	0	4	8	8	2	3	4	1	0		Dumka
5·5	—0·3	5·8	5·56	—0·62	2·19	30	7	—0·8	6·4	+0·7	0	4	11	9	0	2	1	1	2	2	5	10	8	2	0	0	1	2		Sabour
5·6	...	5·5	5·03	...	1·40	7	6	...	5·6	...	1	0	13	13	0	1	1	1	0	0	1	14	8	0	0	1	5	1		Bhagalpur
																														U. P., East
2·6	—1·8	2·5	11·13	+3·82	3·40	30	5	—3·3	6·4	+1·4	0	0	21	5	0	0	1	1	2	3	0	4	1	0	0	2	2	18		Gonda
2·6	—0·8	2·9	9·84	+2·29	5·96	30	7	—1·3	4·2	+1·4	0	3	18	3	0	1	2	2	1	4	5	7	3	1	1	4	2	3		Gorakhpur
1·9	...	3·1	4·22	...	1·71	30	7	...	...	...	1	0	18	0	0	1	3	0	7	2	0	5	2	1	1	3	0	16		Azamgarh
4·0	0	5·4	6·60	+2·04	4·11	30	3	—3·0	6·1	+2·1	4	3	8	2	4	3	4	0	2	5	3	4	0	1	2	7	7	1		Banaras
4·4	+0·6	4·7	6·65	+1·61	3·59	30	5	+0·7	4·7	—0·6	3	4	4	2	0	5	7	3	2	3	6	1	1	0	3	8	8	0		Allahabad (Bamrauli)
4·4	+0·8	4·1	2·44	—1·00	1·37	16	5	—2·8	3·9	—0·6	1	5	3	1	0	5	6	5	4	0	1	1	0	1	2	3	5	17		Fatehpur
2·2	...	2·7	3·58	...	1·24	16	5	...	3·7	...	1	1	4	0	1	3	17	2	1	0	2	5	0	1	0	10	9	3		Banda
3·2	...	3·9	1·44	...	0·77	28	3	...	6·8	...	2	1	2	1	0	5	9	10	0	4	0	3	2	0	2	5	14	0		Orai
4·0	+1·8	3·2	0·75	—2·44	0·31	30	3	—1·5	7·5	—0·7	2	3	3	2	1	3	7	6	3	3	2	2	0	1	2	10	9	1		Kanpur
2·3	—1·0	2·8	1·46	—3·00	0·39	1	6	+0·5	2·9	+0·3	1	3	8	7	2	5	3	1	0	10	2	1	0	1	4	5	3	4		Lucknow
1·6	...	1·0	1·37	...	0·51	27	3	...	4·4	...	4	4	7	8	1	2	1	2	1	5	1	3	4	1	1	2	13	0		Hardoi
3·6	...	2·4	2·02	...	0·72	30	5	...	3·2	...	0	2	6	12	3	0	2	1	4	2	2	4	2	1	1	10	3	5		Kheri
2·8	—0·1	2·2	4·05	—2·15	1·62	30	7	+0·9	5·6	+2·2	1	1	12	13	0	0	1	2	0	2	2	5	5	2	2	2	6	4		Bahraich
																														U. P., West
3·0	+0·3	4·7	4·67	+0·50	2·70	16	3	—2·5	3·5	—1·5	1	0	0	0	0	3	18	1	7	2	0	0	0	0	2	13	8	5		Jhansi
3·2	+0·6	3·2	2·04	—0·40	1·80	15	2	—1·8	3·5	—1·5	1	3	0	0	0	2	10	2	12	3	1	0	0	2	1	5	7	11		Agra
4·1	+1·1	3·6	0·63	—2·01	0·36	15	2	—1·8	...	...	1	1	2	1	2	1	10	8	4	1	2	0	1	0	0	3	12	11		Mainpuri
2·8	+0·5	3·4	1·02	—4·37	0·75	15	2	—2·6	...	..	1	0	2	1	0	0	8	8	10	1	0	4	0	0	0	8	6	11		Aligarh
2·7	—0·6	3·0	0·20	—5·03	0·16	29	1	—4·4	3·8	+0·9	2	0	9	8	3	2	1	1	4	2	0	8	0	0	0	19	0	1		Bareilly
1·6	—1·5	...	1·00	—2·40	0·55	15	2	—2·1	5·3	...	1	1	5	1	1	1	6	5	9	...	...	...	...	...	...	...	...	...		Meerut
2·5	—0·4	2·7	1·43	—3·07	0·94	16	3	—2·4	4·0	+4·8	0	0	0	15	0	0	1	2	12	0	2	0	2	0	2	0	20	4		Roorkee
2·4	—1·0	2·9	0·87	—7·68	0·46	16	3	—6·4	2·2	+0·3	0	0	0	3	3	5	1	0	18	0	1	0	1	4	6	4	2	12		Dehra Dun
																														Punjab (I)
2·8	0	3·2	0·52	—2·51	0·44	15	1	—3·2	9·2	...	2	1	1	3	2	2	9	9	1	5	2	1	1	1	2	4	11	3		New Delhi
1·2	—0·3	1·3	0	—1·26	0	..	0	—2·9	5·4	—0·5	2	1	1	1	2	8	7	5	3	4	1	1	0	3	6	6	9	0		Hissar
1·4	...	2·0	0·32	...	0·18	16	2	...	4·0	...	0	4	1	4	3	2	8	7	1	0	3	1	1	2	5	6	11	1		Karnal
1·1	—1·1	1·5	0·38	—2·66	0·31	16	1	—3·4	5·7	+1·8	0	1	0	0	0	0	0	7	22	1	1	2	0	0	0	6	5	15		Ambala
1·4	...	1·8	1·38	...	1·38	15	1	...	5·6	...	1	0	2	10	0	0	5	9	3	3	0	0	3	0	1	4	17	2		Patiala
1·3	—0·6	2·7	0·17	—2·11	0·17	15	1	—2·5	2·3	—0·1	0	0	3	2	1	2	4	3	15	0	0	0	1	0	1	5	5	18		Ludhiana
0·3	...	0·2	0·44	...	0·44	1	1	...	...	...	2	0	0	1	5	3	1	3	15	0	1	1	0	0	2	0	8	18		Ferozepore
1·1	...	0·3	0·04	...	0·04	18	0	...	8·8	...	2	1	5	5	1	5	5	3	3	2	0	1	1	1	4	9	12	0		Amritsar
																														Jammu and Kashmir
3·0	+0·8	4·1	3·24	+1·84	1·33	14	7	+3·6	2·3	—0·3	1	3	3	6	2	0	1	3	11	3	2	1	4	0	0	1	5	14		Srinagar
3·1	+0·4	...	6·17	+2·62	2·25	14	6	—1·8	3·7	0	2	6	4	4	4	1	3	5	1	...	...	...	...	...	...	...	...	...		Gulmarg

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Jammu and Kashmir—*contd.*																					
Dras (R)	10,059																				
Leh	11,529	665·0	—0·8	661·8	66·8	—4·5	84	30	42·2	—2·1	36	18,20	54·2	63·8	40·2	44·7	4·1	—2·1	4·3	32	—10
Skardu (R)	7,505																				
Gilgit (R)	4,890																				
Misgar (R)	10,190																				
Rajasthan, West																					
Sri Ganganagar	580	977·7	...	974·4	103·6	—3·3	110	10	79·9	—1·4	70	16	89·5	100·6	73·7	75·6	20·5	—0·9	19·3	46	0
Bikaner	734	973·5	—0·6	969·8	106·8	+0·5	113	13,28	83·6	—1·1	74	2	90·0	102·6	74·8	78·9	22·8	—0·7	23·7	46	—5
Jaisalmer	793	971·7	...	967·8	105·8	...	111	5,6	81·2	...	70	2	86·1	103·2	75·4	74·9	25·4	...	16·2	59	...
Jodhpur	736	975·0	+0·8	971·2	103·2	—0·4	109	5,12	82·6	+0·3	72	28	86·8	99·9	75·4	75·6	24·9	0	19·0	57	—3
Phalodi	783	972·2	...	969·6	103·2	...	110	7	82·6	...	71	2	86·1	102·7	76·8	78·5	26·9	...	22·9	64	...
Barmer	638	978·3	—0·3	974·0	104·2	+0·8	111	5,6	81·8	+1·5	67	2	86·1	102·7	79·7	84·7	31·5	+2·5	32·5	75	+5
Rajasthan, East																					
Sikar	1,419	951·9	...	949·5	101·9	...	108	12,13	78·6	...	69	3	86·6	98·3	77·5	80·6	28·2	...	27·2	63	...
Jaipur	1,431	951·7	—0·9	948·3	101·8	—1·3	110	13	79·0	—1·4	70	16	88·1	97·6	74·1	74·3	22·3	0	18·5	51	+2
Ajmer	1,593	946·7	—1·0	943·3	101·0	+0·6	107	11	81·7	—0·2	74	2	86·5	97·1	72·4	72·0	22·0	—2·3	16·6	51	—5
Kotah	843	971·0	—0·9	967·2	103·7	—1·1	112	7,11	84·8	—0·3	79	13	90·2	98·5	74·6	74·8	22·1	—1·2	19·5	47	0
Jhalawar	1,053	964·7	—0·6	960·8	102·5	+0·9	110	7,8,9	82·0	+0·8	73	16	86·9	97·9	75·7	75·4	25·7	—2·1	19·9	57	—6
Udaipur	1,910	937·3	—1·2	934·5	95·3	—2·6	104	7	77·3	—1·7	70	1,2	83·8	89·7	73·9	74·0	24·1	—0·6	22·1	66	+3
Madhya Bharat																					
Gwalior	681	975·5	...	971·8	105·8	...	113	4 days	85·7	...	73	15	95·4	100·9	75·3	74·8	20·9	...	17·6	38	...
Sheopur Kalan	771	...	...	...	103·7	...	112	12	81·9	...	76	16	88·6	98·5	74·6	74·8	23·5	...	18·7	52	...
Guna	1,571	947·8	—0·6	944·3	102·1	+1·8	110	7,10,11	80·2	+1·0	73	16	86·9	95·1	73·9	74·3	23·3	+0·3	20·4	56	0
Neemuch	1,626	946·6	—0·8	943·8	98·5	+0·1	107	8	78·8	+1·0	75	16,20,27	83·7	92·5	73·6	72·9	24·2	—2·0	19·6	63	—4
Ratlam	1,596	948·0	...	944·7	96·6	...	107	6	77·3	...	73	23,27,28	80·9	90·8	...	...	...	...	...	...	...
Indore	1,839	940·3	—0·8	936·3	96·7	+0·3	106	6	76·4	+1·1	70	24,27	81·6	90·3	74·1	74·0	25·7	—3·1	22·0	71	—4
Bhopal (Bairagarh)	1,714	943·7	—0·7	940·0	99·1	+1·0	108	9	77·7	+0·7	72	25,27	83·2	92·8	72·8	72·9	23·4	—1·5	19·5	61	—2
Gwalior (Madhosagar)	757	972·9	...	969·3	105·2	...	113	13	85·0	...	72	15	92·6	100·7	74·8	74·5	21·4	...	17·3	43	...
Vindhya Pradesh																					
Nowgong	750	973·6	—0·9	969·6	105·0	+2·2	113	11	83·8	+1·1	77	16,25	91·4	99·7	75·0	75·5	22·2	—3·1	19·1	46	—8
Sutna	1,041	963·9	—0·7	959·9	103·5	+3·0	112	4 days	83·7	+1·9	72	29	90·5	98·1	77·8	80·2	26·7	+3·0	27·1	56	+4
Umaria	1,506	949·2	...	945·7	99·7	+1·8	110	11	79·8	+0·2	72	3	86·6	93·1	74·8	74·9	24·6	+0·9	22·1	59	+1
Madhya Pradesh, East																					
Gondia	1,026	966·5	...	962·2	99·7	...	111	10	80·4	...	73	25	86·0	93·7	78·1	79·5	29·3	...	27·9	69	...
Pendra	2,040	931·9	—0·8	928·7	95·8	+2·7	104	10	77·1	+1·4	72	3	84·1	89·1	73·6	73·9	24·0	+0·5	22·4	61	—1
Ambikapur	1,989	933·9	...	930·8	96·1	...	103	5 days	77·3	...	71	30	83·7	87·9	74·4	73·7	25·3	...	22·6	65	...
Raigarh	723	975·5	...	971·5	100·6	...	106	6 days	80·9	...	74	30	86·7	92·6	77·7	78·0	28·4	...	25·7	66	...
Champa	805	972·9	...	969·0	100·8	...	107	6 days	81·2	...	76	6,27	85·6	94·1	77·0	77·5	27·8	...	24·7	57	...
Raipur	979	967·3	—0·7	963·4	99·2	+1·3	108	8,9,10	79·7	+0·6	72	1	85·1	93·8	76·1	77·8	26·6	+1·7	25·3	66	+5
Kanker	1,318	956·9	—0·6	953·3	96·0	+1·2	105	9,10	80·0	+2·1	73	25,26,27	84·8	92·5	75·7	77·7	26·2	+1·3	25·7	65	+2
Chanda	634	979·9	—1·1	975·2	101·4	+1·7	113	10	80·4	+0·5	73	1,3	85·7	99·0	75·6	78·7	25·6	+0·5	24·3	63	+4
Sironcha	405	988·3	...	983·9	99·8	...	110	8,9	82·0	...	74	12	86·2	95·5	76·7	78·1	27·1	...	24·9	65	...
Jagdalpur	1,815	941·0	—0·9	937·8	92·0	+0·3	100	10	73·9	—0·5	70	4	80·5	86·4	74·5	75·5	26·7	+0·7	25·7	75	+4

(R) Register not received.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																		STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Jammu and Kashmir—*contd.*
																													Dras (R)
2·9	—0·2	3·9	0·02	—0·16	0·02	11	0	—0·7	4·6	+2·1	0	1	0	1	1	6	1	0	20	0	6	1	0	2	6	7	3	5	Leh
																													Skardu (R)
																													Gilgit (R)
																													Misgar (R)
																													Rajasthan, West
0·2	—0·5	0·5	0·27	—2 72	0 11	17	2	—0·7	4·8	—3·7	0	0	4	3	1	14	5	3	0	1	6	1	1	1	5	4	8	3	Sri Ganganagar
0·6	—0·7	2·5	0·52	—0·69	0·22	16	2	—0·2	7·1	—0·4	0	0	0	2	0	19	2	6	1	1	2	1	2	0	11	3	10	0	Bikaner
0·4	...	2·2	0·36	...	0·26	13	2	...	16·3	...	0	0	0	2	0	28	0	0	0	0	4	0	1	0	25	0	0	0	Jaisalmer
2·3	—0·5	3·0	2·42	+1·00	1·83	28	3	+0·9	7·2	—5·4	0	0	0	1	1	18	8	2	0	2	0	0	0	0	16	8	4	0	Jodhpur
0·6	...	1·9	0·89	—0·03	0·69	2	2	+0·4	13·5	...	0	0	0	0	2	24	3	1	0	2	1	2	1	3	14	5	2	0	Phalodi
2·0	—1·0	2·5	3·03	+1·93	1·64	13	4	+2·5	8·4	+0·2	0	0	0	0	8	13	5	0	4	0	0	0	2	9	12	2	1	4	Barmer
																													Rajasthan, East
2·9	...	4·7	1·59	...	0·94	15	4	...	2·9	...	1	0	1	1	3	14	4	2	4	0	5	2	2	1	4	10	4	2	Sikar
2·5	+0·3	3·7	3·61	+1·37	3·37	15	2	—1·9	5·3	—0·6	3	3	0	0	1	2	4	15	2	5	3	1	0	1	3	5	10	2	Jaipur
3·3	+1·1	3·5	0·26	—2·17	0·11	2,14	2	—0·7	8·8	+1·5	0	0	1	0	2	16	10	1	0	4	2	0	0	4	7	10	3	0	Ajmer
3·0	+0·4	4·3	1·35	—1·29	0·51	13	5	+0·9	6·1	+1·1	0	0	0	0	0	6	20	1	3	0	1	0	1	1	5	8	6	8	Kotah
2·7	—0·4	4·2	3·01	—1·43	1·34	25	4	—3·1	6·3	0	0	0	0	0	0	5	22	2	1	5	2	0	0	0	4	10	8	1	Jhalawar
3·1	+0·7	4·8	4·41	+1·37	1·82	13	6	+1·4	5·0	...	0	0	0	1	7	11	6	1	4	0	3	0	1	3	8	9	4	2	Udaipur
																													Madhya Bharat
3·1	...	5·2	1·62	...	0·73	15	4	...	3·2	...	2	1	1	0	0	2	13	10	1	3	2	3	2	1	3	4	12	0	Gwalior
...	...	...	1·27	...	0·32	14	5	...	...	...	0	1	1	0	1	12	10	4	1	3	4	0	0	0	3	12	8	0	Sheopur Kalan
5·1	+1·9	5·7	2·01	—4·02	0·90	28	4	—3·2	7·7	+0·5	1	0	0	1	2	10	12	4	0	7	2	0	3	1	5	4	8	0	Guna
3·8	+0·5	5·5	1·59	—2·64	0·55	22	5	+0·2	9·5	+0·1	0	4	0	0	0	11	14	1	0	0	6	0	0	1	11	10	2	0	Neemuch
5·6	...	6·6	5·24	...	3·89	27	5	...	7·9	...	2	0	1	0	0	9	17	1	0	3	1	1	0	0	4	16	5	0	Ratlam
4·6	0	5·4	4·74	—1·06	1·64	24	6	—1·3	11·4	—1·0	1	0	0	0	1	7	16	5	0	4	2	1	0	1	9	7	6	0	Indore
5·5	+1·4	6·2	4·06	—2·77	1·71	27	7	—2·4	10·2	+1·4	1	2	0	1	0	7	14	3	2	5	1	1	0	2	8	8	5	0	Bhopal (Bairagarh)
3·9	...	5·0	1·88	...	1·52	15	2	...	8·9	...	1	1	0	0	0	7	15	3	3	3	3	0	0	3	2	7	12	0	Gwalior (Madhosagar)
																													Vindhya Pradesh
4·8	+0·8	5·8	1·27	—4·17	0·69	25	3	—3·1	4·8	+1·2	1	1	0	0	1	17	4	5	1	5	3	1	0	1	6	4	10	0	Nowgong
4·9	+0·9	5·9	6·64	+1·10	2·13	30	4	—2·3	5·3	—0·4	2	1	0	1	1	7	12	4	2	3	2	1	1	0	5	3	7	8	Sutna
6·6	+1·5	6·9	4·84	—2·28	1·17	16	9	—1·0	3·4	—1·0	3	0	0	1	6	7	5	2	6	3	2	2	4	1	5	2	5	6	Umaria
																													Madhya Pradesh, East
4·2	...	5·1	5·70	...	2·05	28	6	...	3·8	...	1	0	0	5	1	11	0	10	2	9	1	0	2	1	7	5	4	1	Gondia
5·1	+0·8	6·7	4·65	—3·28	1·30	27	8	—3·7	5·2	+0·3	2	0	0	1	11	1	5	6	4	5	1	2	1	5	7	5	3	1	Pendra
3·4	...	4·9	4·70	...	1·66	30	9	...	6·1	...	0	1	2	0	5	10	9	1	2	1	1	3	2	4	6	4	9	0	Ambikapur
5·5	...	5·5	7·66	...	2·70	27	9	...	4·4	...	1	5	2	1	3	6	7	2	3	1	4	1	2	2	7	4	3	6	Raigarh
5·9	...	6·0	4·35	...	1·27	6	8	...	5·3	...	3	2	2	3	1	3	12	2	2	6	1	0	1	2	2	10	5	3	Champa
6·4	+1·4	6·8	3·83	—5·20	1·14	28	7	—2·7	7·4	—0·9	1	0	0	1	3	11	9	5	0	2	0	0	1	3	7	7	5	5	Raipur
6·6	+0·6	7·1	3·62	—6·78	1·42	25	4	—6·3	6·6	+1·3	1	0	0	0	0	11	8	1	9	1	0	0	0	0	13	5	2	9	Kanker
5·3	+0·6	6·1	2·16	—5·89	0·70	27	7	—2·8	4·3	—1·0	0	0	0	2	0	0	0	10	18	1	0	0	4	0	2	0	7	16	Chanda
4·4	...	5·1	4·52	...	2·40	12	6	...	4·6	...	2	1	1	3	1	7	9	6	0	1	2	3	5	1	4	9	5	0	Sironcha
5·3	+0·3	5·5	6·97	—2·70	2·17	20	10	—1·3	5·2	+1·3	1	1	0	1	4	15	4	4	0	0	3	0	5	1	16	0	5	0	Jagdalpur

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Madhya Pradesh, West																					
Buldhana	2,133	931·3	...	927·8	93·7	...	102	7	74·3	...	69	23	76·9	89·1	71·5	73·8	24·1	...	22·2	77	...
Akola	925	970·5	−1·2	965·9	100·2	+1·2	109	7,8	78·8	+0·5	73	23,24,27	83·7	97·0	75·8	77·7	26·8	+1·7	23·6	69	+5
Amravati	1,213	960·7	−1·0	956·4	99·5	+1·3	108	7,8,9	78·5	+0·8	71	27	83·3	94·5	73·8	75·4	24·2	−0·8	21·4	64	−1
Yeotmal	1,481	952·0	...	947·8	99·0	...	109	9	76·7	...	71	23,24,27	82·4	92·6	74·7	75·9	25·9	...	23·0	70	...
Khandwa	1,044	966·3	−1·0	962·2	100·3	+1·5	109	8,10	80·0	+1·2	73	24,27	84·1	95·2	74·7	74·9	25·1	−0·1	20·4	64	−1
Hoshangabad	992	967·2	−1·3	962·9	101·1	+2·4	111	9	80·7	+1·0	72	27	85·8	97·3	74·7	76·3	24·3	−0·8	21·4	60	−3
Sagar	1,808	939·6	−0·7	935·7	100·2	+1·8	109	10	79·9	+1·8	73	28	84·7	93·6	72·4	73·1	22·1	−0·4	19·4	54	−3
Jabalpur	1,289	956·8	−0·6	952·8	101·8	+3·7	111	10,12	80·7	+2·1	76	26,27,28	86·7	96·3	74·1	74·9	23·1	0	19·8	56	+1
Mandla	1,452	951·5	...	947·6	99·2	...	108	10,11,12	76·3	...	73	5 days	82·7	91·2	74·9	75·2	26·0	...	22·6	70	...
Seoni	2,027	932·9	−1·0	929·9	97·1	+2·0	106	8,10,11	76·2	+0·9	69	25,26	83·3	88·1	73·2	73·8	23·9	+1·1	22·8	63	+3
Chhindwara	2,248	926·6	...	923·1	95·1	...	104	4 days	76·6	...	70	27	82·0	88·1	73·1	73·9	24·2	...	22·8	65	...
Betul	2,144	930·3	...	926·7	95·0	...	104	9	75·6	...	70	23,27	80·6	87·8	72·3	73·0	23·7	...	21·7	67	...
Nagpur	1,010	966·9	−0·9	963·3	101·4	+1·9	112	9,10	80·2	+0·6	72	26	86·2	94·3	74·5	75·1	23·8	−0·4	21·0	57	+1
Gujarat																					
Deesa*	466																				
Surat	39	1001·3	−1·0	998·0	94·3	+1·5	103	12	82·3	+2·4	74	2	85·8	89·9	79·6	80·9	31·8	+0·9	31·9	75	+1
Ahmedabad	181	995·5	−1·3	990·9	101·9	+0·1	109	5,6	81·7	+0·9	75	2	85·8	99·6	79·7	80·3	31·9	−0·7	26·5	76	−3
Dohad	1,093	965·1	...	961·1	96·8	−0·4	105	5,6,12	78·2	−0·3	71	2	82·4	94·1	76·3	76·5	28·2	−0·7	23·2	75	0
Baroda	115	998·3	...	993·9	100·7	+3·0	109	5	82·1	+2·3	78	2,28	85·5	97·9	80·7	83·2	33·6	+3·7	32·1	81	+5
Broach	57	1000·5	...	996·6	97·2	...	105	12	81·8	...	76	2	84·4	92·5	80·2	82·5	33·3	...	33·4	82	...
Saurashtra and Kutch																					
Bhuj	343	988·9	−0·9	985·7	99·5	+2·2	108	5	81·2	+1·5	79	5 days	85·2	96·5	78·1	78·0	29·6	−0·4	24·3	72	+2
Dwarka	37	999·9	−1·2	997·4	90·3	+1·0	100	12	83·2	+0·8	81	2,13	85·2	87·6	80·1	81·2	32·7	...	33·5	79	−3
Jamnagar	74	998·7	−0·7	995·5	97·2	+0·6	108	12	81·4	+1·0	76	29	86·7	91·9	79·5	81·9	31·2	+2·3	32·7	73	+6
Rajkot	432	986·6	−1·2	982·6	101·6	+2·2	108	5	79·8	+1·6	77	4 days	84·2	96·5	78·5	77·7	30·7	+1·4	23·9	77	+3
Veraval	26	1000·9	−1·7	998·6	88·5	...	93	9,10	81·3	...	68	13	84·4	86·2	80·6	81·7	33·9	...	34·9	84	+2
Bhavnagar	55	1000·5	−0·8	996·2	100·1	+0·3	105	5,6	81·5	+1·3	76	21	85·5	96·8	78·1	79·2	29·5	+0·4	26·1	71	+4
Konkan																					
Dahanu	15	1002·6	...	1000·1	90·6	...	101	11	80·6	...	75	27	84·1	87·7	82·2	84·6	36·7	...	39·2	92	...
Bombay	35	1002·9	−1·0	1000·5	88·8	+0·3	93	2	78·7	+0·1	75	5 days	82·5	85·5	78·5	79·6	31·5	+0·4	31·9	83	+4
Alibag	23	1003·8	−1·0	...	87·6	+0·5	92	3	78·4	−0·1	73	17	81·8	...	79·4	...	33·2	+2·0	...	89	+9
Harnai	66	1002·3	...	1000·5	85·4	...	89	10	78·4	...	73	15	81·9	83·4	78·3	79·3	31·4	...	32·3	85	...
Devgad	117	1001·1	...	999·5	85·9	...	93	1	77·5	...	73	17	80·7	83·6	77·8	79·3	31·3	...	32·2	85	...
Vengurla	29	1004·9	...	1002·8	86·0	...	93	1	75·5	...	72	18	80·2	82·5	77·1	78·1	30·4	...	30·9	86	...
Marmagao	202	999·1	+0·3	997·3	84·1	−0·5	88	4	75·9	−0·3	72	1	80·1	82·0	77·1	77·8	30·4	+0·7	30·6	87	+3
Honavar	85	1004·3	...	1002·3	84·6	...	91	4	75·4	...	73	6 days	79·0	81·5	76·7	78·2	30·3	...	31·5	88	...
Deccan (Desh)																					
Jalgaon	660	979·7	...	976·1	101·4	...	109	6,12	79·3	...	74	25,26	83·6	97·5	76·3	76·8	27·7	...	22·1	71	...
Malegaon	1,432	954·8	−0·7	951·0	97·0	+0·7	104	9	75·9	+0·8	72	27	81·9	89·4	74·2	74·3	25·4	+0·4	22·2	68	0
Deolali	1,874	940·8	...	...	90·0	...	97	10,11,18	73·5	...	68	29	78·0	...	72·6	...	24·9	...	...	77	...
Ahmednagar	2,154	931·9	−0·9	928·1	92·6	+0·3	100	1,4	72·8	+0·8	69	4 days	77·8	86·1	71·8	72·6	24·2	+0·7	21·9	74	+3
Poona	1,834	942·5	−0·9	939·7	89·9	+0·5	98	10	74·0	+0·5	71	18	78·0	83·2	71·9	72·9	24·3	+0·3	23·5	74	+1
Jeur	1,709	946·5	...	942·5	94·5	...	101	4	72·3	...	66	16	79·3	89·4	73·2	74·5	25·5	...	23·0	74	...
Sholapur	1,570	951·6	−0·6	947·5	94·1	−1·1	102	5	73·7	−0·1	69	26	78·9	89·1	73·2	73·2	25·7	+2·2	21·4	76	+8

* Data not reliable.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																		STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Madhya Pradesh, West
5·0	...	6·2	7·67	...	1·42	10	10	...	9·8	...	0	0	0	0	1	7	8	14	0	2	1	0	1	1	3	2	20	0	Buldhana
5·6	+0·9	5·4	5·21	−0·32	2·20	26	9	+0·9	8·7	+1·0	2	0	0	0	1	1	18	8	0	2	2	1	1	1	1	13	9	0	Akola
5·7	+1·1	5·2	3·12	−3·43	1·09	21	7	−1·7	9·2	+1·8	1	1	0	0	0	6	17	4	1	0	5	0	2	1	10	3	9	0	Amravati
5·6	...	6·2	5·57	...	1·08	23	5	...	11·3	...	0	1	0	0	0	14	1	14	0	0	1	0	3	0	13	0	13	0	Yeotmal
3·7	−0·5	6·8	3·44	−2·16	0·80	20,27	8	+1·0	8·6	+0·4	0	0	1	0	1	5	16	5	2	1	0	0	0	1	12	7	9	0	Khandwa
5·8	+1·4	6·1	4·87	−1·00	1·90	29	7	−1·2	4·7	+0·8	0	1	2	0	2	11	10	1	3	0	3	3	5	0	9	6	4	0	Hoshangabad
4·8	+1·0	5·1	1·83	−4·36	0·61	28	5	−3·1	13·8	+1·8	0	0	0	0	0	10	16	4	0	0	1	0	1	0	9	13	6	0	Sagar
5·9	+2·0	5·9	2·19	−4·84	0·56	26	7	−1·8	5·0	+1·4	1	1	0	4	0	21	3	0	0	1	5	0	5	1	11	13	4	0	Jabalpur
6·0	...	6·9	7·77	...	1·59	3	11	...	0·7	...	1	0	0	0	0	0	0	0	29	4	1	3	2	2	1	2	1	14	Mandla
3·8	−0·5	5·4	8·50	−0·06	1·81	26	12	+0·9	4·3	−0·1	3	0	1	1	1	12	2	4	6	2	2	3	1	1	7	6	1	7	Seoni
4·1	...	5·5	5·20	...	1·05	27	10	...	5·3	...	1	1	0	1	0	2	10	11	4	4	0	3	1	2	4	6	8	2	Chhindwara
5·4	...	6·8	8·28	...	2·90	23	9	...	5·1	...	0	0	0	0	0	8	15	6	1	3	1	2	2	1	5	8	8	0	Betul
5·7	+0·9	6·5	2·26	−6·56	0·47	26	8	−2·2	6·6	...	3	0	1	1	0	6	10	8	1	6	4	1	1	0	5	5	6	2	Nagpur
																													Gujarat
																													Deesa*
6·3	+0·6	4·0	4·62	−4·00	1·84	28	7	−1·0	7·7	+1·1	0	0	0	0	9	13	5	2	1	0	0	0	0	5	25	0	0	0	Surat
4·7	−0·1	3·2	2·12	−1·54	0·98	27	4	−0·7	6·8	−0·2	0	0	0	1	6	12	7	4	0	0	0	0	1	11	11	3	4	0	Ahmedabad
4·8	−0·6	4·3	3·71	+0·18	1·12	15	6	+1·0	15·5	+5·4	0	0	0	0	1	12	17	0	0	0	0	0	1	0	17	11	1	0	Dohad
4·5	−0·1	3·6	1·06	−5·35	0·85	27	1	−5·7	5·9	−0·7	1	0	0	0	4	19	5	0	1	1	0	1	0	8	13	7	0	0	Baroda
3·7	...	1·9	2·01	...	0·80	15	6	...	7·8	...	0	0	0	0	8	15	4	2	1	0	0	0	1	1	26	0	2	0	Broach
																													Saurashtra and Kutch
3·2	−0·9	2·3	0·42	−0·96	0·20	29	2	+0·1	10·8	−0·9	0	1	0	0	2	16	10	1	0	1	0	1	0	7	15	5	1	0	Bhuj
4·4	+0·1	4·1	0·25	−1·76	0·12	28	1	−1·3	14·5	+1·4	0	1	0	1	4	10	11	3	0	0	0	0	0	2	12	15	1	0	Dwarka
3·8	0	3·3	5·44	+2·87	4·50	29	3	0	18·3	...	0	0	1	0	3	17	7	1	1	0	0	0	1	1	6	17	5	0	Jamnagar
5·2	+0·2	5·1	7·90	+3·80	3·46	23	6	+1·2	15·3	+3·6	0	0	0	1	5	10	11	3	0	2	0	0	0	5	12	7	4	0	Rajkot
5·3	+0·6	4·3	1·97	−2·69	0·86	28	3	−0·9	14·8	...	1	0	0	3	3	5	14	3	1	0	0	0	1	5	8	14	1	1	Veraval
3·8	−1·2	4·5	1·29	−2·61	0·73	15	3	−1·7	8·4	+0·5	0	0	0	1	6	13	9	1	0	0	0	1	1	17	6	4	1	0	Bhavnagar
																													Konkan
7·1	...	5·3	7·01	...	1·78	15	7	...	13·2	...	0	1	6	5	0	8	9	1	0	0	0	0	1	1	13	15	0	0	Dahanu
5·6	+0·8	5·2	20·25	+11·9	3·12	24	15	+0·4	8·9	−0·5	0	0	0	6	3	8	8	3	2	0	0	0	1	6	11	8	3	1	Bombay
7·2	+0·8	...	32·35	+8·76	6·66	20	16	−0·7	13·8	+1·3	0	1	2	9	2	8	5	3	0	...	...	...	...	...	...	...	...	...	Alibag
7·0	...	6·1	30·82	...	10·03	12	16	...	11·7	...	0	1	3	5	3	10	3	4	1	0	0	1	8	1	16	3	1	0	Harnai
6·3	...	5·8	31·39	...	6·95	12	24	...	15·9	...	0	1	4	2	0	3	17	3	0	0	2	0	0	1	4	19	4	0	Devgad
6·8	...	6·4	46·78	...	7·57	12	25	...	...	...	1	0	1	0	0	2	13	0	13	0	0	0	0	1	5	11	1	12	Vengurla
6·2	...	6·3	38·78	+6·69	5·32	15	25	+2·0	14·4	+6·3	0	2	4	1	1	10	8	4	0	0	0	0	0	3	10	15	2	0	Marmagao
6·8	...	7·1	27·12	−13·56	3·60	11	25	+1·1	5·0	...	0	1	4	2	0	3	10	3	7	0	0	0	2	0	6	16	3	3	Honavar
																													Deccan (Desh)
6·3	...	4·6	2·53	−2·57	0·88	26	5	−2·3	10·2	...	2	0	0	0	0	7	10	10	1	8	2	0	1	0	3	5	11	0	Jalgaon
6·8	+0·3	6·0	8·16	+3·71	2·91	28	10	+3·3	6·8	−2·6	0	1	0	0	0	7	9	10	3	1	1	1	1	1	5	8	10	2	Malegaon
6·9	...	...	1·85	...	0·72	10	5	...	9·9	...	0	0	1	0	1	14	12	1	1	...	...	...	...	...	...	...	...	...	Deolali
6·2	+1·7	6·1	5·22	−0·01	2·18	24	5	−2·5	6·8	−1·5	0	0	0	0	0	13	4	10	3	0	0	0	3	1	13	5	6	2	Ahmednagar
6·8	+1·4	5·9	2·51	−1·98	1·45	10	3	−4·3	4·5	−5·3	0	0	0	0	0	4	14	3	9	0	0	0	0	2	1	19	8	0	Poona
6·8	...	6·8	2·65	...	0·85	23	4	...	10·5	...	1	0	0	0	1	7	12	9	0	1	0	1	1	0	6	11	10	0	Jeur
6·7	−0·3	6·6	5·38	+0·94	1·35	20,26	9	+2·5	7·2	−2·5	0	0	0	0	0	22	5	3	0	2	1	0	0	0	16	6	4	1	Sholapur

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Deccan (Desh)—*contd.*																					
Miraj	1,817	944·3	—0·8	941·6	87·0	—1·2	97	4	71·8	—0·1	70	5 days	75·2	80·6	71·8	72·1	25·2	+0·2	23·4	85	+5
Kolhapur	1,885	942·0	...	939·6	83·9	...	93	1,4	71·4	...	68	1 5,19	74·6	79·1	71·3	72·5	24·8	...	24·6	85	...
Bijapur	1,950	939·2	—0·9	935·9	90·1	—2·0	98	5	71·2	—0·9	68	29	76·7	85·9	71·5	72·1	24·2	+0·4	21·3	77	+4
Belgaum	2,562	920·2	—0·8	917·7	79·5	—2·1	89	1	68·5	+0·2	66	17,18,26	71·1	75·5	69·1	70·9	23·5	0	24·0	90	+4
Gadag	2,131	934·6	—0·7	932 0	86·2	—1·7	93	7	70·8	—0·4	69	2,8,19	75·5	79·8	70·9	71·3	24·0	—0·3	22·7	79	—2
Hyderabad, North																					
Aurangabad	1,905	940·0	—0·9	935·9	94·6	+0·4	103	7,8	74·4	+1·4	69	26	78·1	90·2	72·2	73·3	24·6	+0·6	21·1	75	+3
Parbhani	1,350	956·3	...	951·8	97·3	...	106	7	75·6	...	68	24	81·6	93·9	74·5	75·5	26·0	...	21·8	71	...
Ramagundam	527	984·2	...	979·8	105·6	...	109	5	80·8	...	78	26,27	87·7	96·6	75·5	78·3	24·6	...	24·8	56	...
Nizamabad	1,250	959·9	—1·9	955·4	97·1	+0·1	106	9	77·1	—0·3	71	24	81·9	93·4	73·0	75·5	23·7	—1·0	22·0	64	—
Bidar	2,178	930·5	...	926·9	90·8	—2·1	98	4,8	72·7	+0·3	69	24,28 29	76·1	87·2	71·9	73·8	25·0	+2·0	23·0	82	+1
Hyderabad, South																					
Gulbarga	1,503	953·5	—0·9	949·5	93·4	—2·4	100	5	74·0	—0·2	70	26,28	78·6	87·4	69·3	72·3	20·6	—3·4	21·0	62	—
Raichur	1,311	960·6	—0·6	956·6	93·2	—2·1	99	10	74·5	—0·4	72	4 days	78·8	88·0	74·0	75·5	26·5	+1·7	24·5	79	+1
Hyderabad (Begumpet).	1,778	944·0	—0·5	940·2	93·2	—1·4	99	4,9,12	75·0	—0·2	71	26,27	78·8	89·4	72·8	74·9	25·1	—0·2	23·6	75	+
Hanamkonda	881	972·5	—1·2	968·4	98·1	+0·8	106	8,9	79·4	—0·1	71	3	84·6	94·5	74·4	76·0	24·4	+0·1	22·2	62	+
Khammameth	367	990·6	...	986·0	97·7	...	106	9	79·3	...	72	4,12	84·6	95·4	76·3	77·9	27·2	...	24·7	68	..
Coastal Andhradesa																					
Nellore	65	1001·7	—0·8	997·8	99·2	—2·2	104	1	82·0	—0·3	76	2	87·4	96·0	75·4	77·1	24·6	—1·3	23·2	56	
Ongole	38	1001·9	...	997·9	98·5	...	104	9	80·2	...	75	1	86·7	95·9	...	...	...	...	...	...	..
Gannavaram	88	1000·0	...	995·9	97·3	...	105	3,9	78·7	...	69	7	85·1	92·7	76·5	77·6	27·3	...	25·5	68	..
Masulipatam	10	1002·5	—0·9	998·7	94·8	—3·4	104	9	79·6	—1·1	74	1	84·0	90·7	77·2	79·2	28·8	—1·8	29·9	74	+
Kakinada	26	1001·2	—1·0	997·9	94·8	—2·0	103	20	79·8	—1·1	74	6,7	85·7	89·8	79·9	82·2	32·2	+1·7	35·3	77	-
Visakhapatnam	126	997·0	—0 9	994·1	90·5	—1·1	97	15,16	81·3	+0·6	74	26	85·6	87·0	79·1	79·6	31·0	+0·7	31·2	74	-
Calingapatam	19	1000·5	—0·5	997·5	91·9	—1·0	101	13	81·0	+0·6	73	1,26	84·5	86·9	80·0	81·0	32·9	+0·5	33·5	81	-
Rentachintala	348	991·5	...	983·1	99·9	+0·3	105	4 days	81·6	—0·4	76	22,23,26	85·2	96·9	74·7	77·2	24·6	—2·6	22·9	60	-
Rayalaseema																					
Cuddapah	428	990·9	—0·4	986·6	96·0	—3·9	100	1,30	79·2	—1·3	72	6	85·0	92·5	75·3	80·4	25·5	—0·3	29·9	62	-
Bellary	1,473	955·2	—1·1	952·0	90·7	—3·9	95	1,10	76·2	+0·2	73	2,26	79·5	86·9	71·9	73·8	23·4	+1·1	22·6	68	-
Kurnool	923	973·6	—0·7	969·2	93·6	—3·5	99	9	76·2	—1·3	71	26	80·4	89·2	73·5	74·4	25·1	+0·3	22·3	71	-
Anantapur	1,147	966·2	...	962·7	92·3	...	97	30	74·8	...	71	28	79·5	88·4	74·7	77·5	27·2	...	27·2	79	.
Tamilnad																					
Palayamcottai	167	1001·0	...	998·9	93·3	...	98	28	76·3	...	74	11	84·7	87·3	75·1	74·6	25·4	...	23·5	62	.
Pamban	37	1005·3	—0·7	1002·5	89·4	—0·8	94	3	80·9	+0·7	79	24	84·0	85·3	78·2	79·3	30·3	—0·7	31·5	76	
Mathurai	437	991·3	—1·0	988·5	97·8	+0·7	102	19,30	78·8	+0·8	75	23	86·2	91·1	73·5	73·8	22·4	—0·8	20·7	53	
Nagapattinam	31	1005·0	—0·7	1001·7	97·9	+0·2	101	8,30	80·6	+0·8	78	24,25	86·1	90·4	74·5	76·9	23·9	—3·1	25·4	56	
Tiruchi	295	996·1	—0·8	992·7	95·8	—2·9	100	30	79·6	+0·7	77	27	84·3	92·0	73·9	74·7	23·8	—0·3	21·5	59	
Coimbatore	1,341	961·5	—0·6	959·3	86·6	—2·2	91	7,18	71 7	—0·2	69	10	77·2	80·8	71·4	71·9	23·7	—1·9	22·6	74	
Salem	913	975·4	—0 8	971·6	95·1	—0·2	99	19,30	75·7	+0·8	74	4 days	79·5	90·9	73·1	74·3	24·9	—1·5	21·5	73	
Kallakurichi	416	990·8	...	987·0	98·9	...	104	30	79·5	...	77	20	85·1	95·6	75·3	77·1	25·5	...	23·4	61	
Cuddalore	39	1004·3	—0·6	1000·3	98·5	—0·1	103	8	80·5	+0·2	75	19	86·6	90·6	76·6	79·4	26·7	—1·2	29·2	63	
Vellore	703	981·4	—0·7	977·6	95·1	—2·1	101	30	79·4	+0·7	73	14	83·5	91·5	73·7	75·6	24·0	—1·2	23·0	61	
Madras	51	1002·9	—0·8	999·4	98·9	—0·7	102	5 days	82·1	+1·0	77	2	87·0	90·9	75·8	79·4	25·4	+0·6	29·1	58	
Arogyavaram	2,299	928·9	...	925·9	88·3	...	93	29,30	72·5	...	70	1	76·8	85·4	69·7	71·9	21·9	...	21·3	69	

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Deccan (Desh)—contd.
6·0	—0·7	6·3	4·97	+2·26	1·47	2	9	+3·1	9·7	—0·1	0	0	0	0	0	7	17	6	0	0	0	0	0	0	7	18	5	0		Miraj
3·5	...	5·1	7·29	...	1·62	15	12	...	11·0	...	0	0	0	0	0	2	26	1	1	0	0	0	0	0	4	25	1	0		Kolhapur
5·4	+0·4	6·5	3·20	+0·18	1·34	6	5	—0·4	9·3	+0·7	2	0	0	0	0	9	12	7	0	1	1	0	0	0	7	14	7	0		Bijapur
...	...	...	9·61	+1·51	1·44	15	18	+5·1	6·5	+0·6	1	0	0	0	2	7	20	0	0	0	0	0	0	2	6	21	1	0		Belgaum
7·3	+1·9	6·9	1·25	—1·42	0·54	5	4	—1·6	12·6	+1·8	0	0	0	0	3	12	11	3	1	0	0	0	0	3	13	10	2	2		Gadag
																														Hyderabad, North
5·7	+0·2	6·7	3·93	—1·51	1·26	22	6	—1·7	10·9	—0·3	2	0	0	1	1	9	15	2	0	1	2	0	0	3	5	14	5	0		Aurangabad
4·3 (b)	...	6·0 (b)	3·51	—2·00	1·95	24	7	—0·8	...	...	0	0	1	0	0	0	27	2	0	3	0	0	0	0	0	23	4	0		Parbhani
4·4	...	4·6	4·49	...	4·15	12	2	...	5·6 (c)	...	2	4	1	4	6	1	1	4	6	8	3	1	1	3	3	1	3	6		Ramagundam
3·4	—1·2	3·3	4·60	—1·21	1·97	22	5	—3·7	6·4	+0·6	0	0	0	0	1	14	7	6	2	0	1	0	0	6	7	5	1	10		Nizamabad
6·7	+2·1	6·8	4·06	—0·55	1·18	5	8	+0·9	13·3	+0·7	0	0	0	0	0	5	20	5	0	1	0	1	0	1	10	13	4	0		Bidar
																														Hyderabad, South
5·9	+0·5	6·7	5·60	+1·16	1·38	26	8	+1·	12·6	+2·5	0	0	0	0	0	7	20	3	0	1	1	1	1	1	5	15	5	0		Gulbarga
6·1	+2·0	7·0	7·38	+3·66	1·90	21	13	+7·0	13·7	+3·6	0	0	0	0	0	13	14	3	0	1	2	1	0	0	8	14	4	0		Raichur
5·9	+0·5	6·5	3·49	—0·92	1·88	27	9	+2·5	12·1	+2·4	0	0	0	0	0	1	21	8	0	1	0	1	0	0	3	17	8	0		Hyderabad (Begumpet).
4·6	+0·5	5·6	4·28	—1·73	2·36	23	6	—2·2	8·3	+1·2	1	0	0	0	1	3	16	9	0	2	1	1	1	3	1	14	7	0		Hanamkonda
5·0	...	5·7	6·53	...	1·41	1	7	...	6·5	...	2	0	0	0	3	1	24	0	0	5	0	2	2	3	4	12	1	1		Khammameth
																														Coastal Andhradesa
6·9	+0·4	6·5	1·06	—0·21	0·44	9	3	+0·1	6·8	+1·0	1	0	0	0	0	3	18	5	3	1	0	2	1	0	2	18	4	2		Nellore
5·0	...	5·3	2·02	...	1·15	1	4	...	8·5	...	0	0	0	0	0	6	20	1	3	0	1	0	0	0	7	21	0	1		Ongole
5·9	...	5·9	6·09	...	1·65	24	11	...	10·4	...	1	0	1	0	0	4	21	2	1	1	0	0	2	3	4	11	8	1		Gannavaram
5·7	+0·9	6·2	10·60	+6·38	4·77	1	9	+2·8	8·8	+1·3	0	1	0	1	0	5	17	6	0	3	0	0	7	4	4	9	3	0		Masulipatam
4·0	—1·6	4·8	3·67	—1·01	1·50	1	6	—1·1	7·8	+1·7	1	1	0	2	0	22	0	4	0	0	1	0	5	0	24	0	0	0		Kakinada
5·2	—1·0	6·5	2·86	—1·28	1·71	7	3	—3·5	5·8	+0·4	0	0	1	2	1	6	17	3	0	0	0	0	2	8	11	7	1	1		Visakhapatnam
6·0	+1·0	6·8	6·70	+2·01	3·25	6	5	—1·3	8·8	+0·8	0	0	0	0	4	13	11	2	0	0	0	1	3	12	12	1	1	0		Calingapatam
6·8	+0·2	6·4	2·89	—0·74	1·90	22	5	—1·6	9·6	—0·9	0	0	0	0	1	4	25	0	0	1	0	0	0	0	2	26	1	0		Rentachintala
																														Rayalaseema
6·5	+1·4	6·6	4·73	+1·78	1·70	1,6	6	+1·2	7·0	+0·2	1	0	0	0	0	0	20	3	6	1	0	0	0	0	1	22	2	4		Cuddapah
6·6	+1·3	6·9	1·09	—0·61	0·62	1	2	—1·3	8·6	+0·7	0	0	0	0	0	0	5	21	4	0	0	0	0	0	2	8	19	1		Bellary
5·6	+0·3	6·5	2·84	—0·09	0·88	2	7	+1·5	11·8 (l)	+1·7	0	0	0	0	0	2	22	6	0	1	0	1	0	0	3	16	9	0		Kurnool
6·7	...	6·5	2·58	+0·46	1·02	2	4	+0·7	13·1	...	0	0	0	0	0	2	27	1	0	0	0	0	0	0	3	25	2	0		Anantapur
																														Tamilnad
4·6	...	4·9	0·14	—0·27	0·14	11	1	—0·1	9·7	...	1	0	0	0	0	0	24	5	0	0	0	0	0	0	2	25	3	0		Palayamcottai
4·3	+1·4	5·3	0	—0·15	0	...	0	—0·3	11·7	—0·2	0	0	0	1	6	19	4	0	0	0	0	0	1	10	13	5	1	0		Pamban
5·8	+0·6	6·4	0·02	—1·55	0·02	29	0	—2·5	5·6	+0·7	1	0	0	0	0	1	17	9	2	0	0	0	0	0	2	27	1	0		Mathurai
5·8	+1·6	6·2	0·66	—0·57	0·47	21	2	—0·2	7·7	+1·2	0	0	0	0	0	12	16	2	0	0	0	0	1	13	9	4	2	1		Nagapattinam
6·2	+1·9	6·6	0·26	—1·36	0·26	13	1	—1·4	22·0	+5·8	1	0	0	0	0	0	23	6	0	1	0	0	0	0	1	21	7	0		Tiruchi
5·5	+1·0	6·3	1·17	—0·35	0·43	1	2	—2·2	11·9	+5·7	0	0	0	0	10	15	5	0	0	0	0	0	0	6	15	9	0	0		Coimbatore
5·0	+0·1	6·8	0·61	—2·52	0·22	13	3	—2·4	6·8	+2·4	0	0	0	0	3	11	15	1	0	1	0	0	0	3	5	17	3	1		Salem
4·0	...	4·8	0·76	...	0·47	20	2	...	...	...	6	0	0	2	3	3	1	10	5	8	0	0	0	3	3	2	12	2		Kallakurichi
5·9	+1·6	5·9	2·54	+1·15	1·44	19	4	+2·4	7·4	+2·1	0	0	0	0	1	13	8	0	8	0	1	1	10	4	8	1	2	3		Cuddalore
5·0	+1·0	6·0	2·94	+0·17	2·07	14	5	+0·1	6·8	+1·5	0	1	0	0	0	0	17	12	0	0	0	1	0	0	3	15	10	1		Vellore
5·7	+0·9	7·1	1·42	—0·44	0·57	2	3	—0·7	13·3	+2·4	0	0	0	0	0	1	26	3	0	1	0	2	12	6	2	4	3	0		Madras
6·8	...	7·3	2·57	...	2·55	1	1	...	8·9	...	1	0	0	0	0	1	20	7	1	1	0	0	0	0	2	17	8	2		Arogyavaram

(l) Mean of 19 days.

(c) Mean of 28 days

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relati humidi %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22.
Malabar & South Kanara																					
Mangalore	72	1005·6	−0·3	1003·7	85·4	+0·8	88	4 days	74·5	−0·4	71	5,14	79·3	80·7	76·2	77·0	29·5	0	30·0	87	0
Kozhikode	27	1007·8	−0·2	1005·7	85·1	+0·4	89	4 days	74·2	−0·9	72	10,14	78·4	82·1	76·0	78·3	29·5	+0·1	31·3	89	0
Palghat	319	997·6	...	995·1	83·3	...	87	4,18	72·8	...	69	10	75·8	79·2	73·8	75·3	27·6	...	28·2	91	...
Mysore																					
Chitaldrug	2,405	925·4	−0·8	923·1	82·8	−4·3	88	1	69·8	−0·4	68	2,19,22	72·7	78·9	68·7	70·3	22·4	−0·3	21·8	81	+4
Shimoga	1,872	943·8	...	941·8	82·4	...	89	4	70·0	...	69	8 days	74·7	77·3	70·9	71·5	24·3	...	24·0	83	...
Hassan	3,149	903·0	...	901·3	77·6	−3·4	82	4	66·1	−0·3	65	9 days	69·1	72·5	66·7	67·8	21·4	−0·3	21·4	89	+7
Bangalore	3,021	906·5	−0·7	904·1	82·1	−2·3	87	30	66·5	−0·2	65	7 days	70·9	77·7	67·6	68·0	21·7	0	19·5	84	+4
Mysore	2,518	923·3	−0·5	921·4	82·7	−2·2	88	5	67·0	−1·1	65	10	72·1	78·1	68·6	70·0	22·4	+0·2	21·8	83	+5
Travancore-Cochin																					
Fort Cochin	10	1009·1	−0·5	1006·9	82·8	−1·4	86	27,30	74·6	−0·5	71	6,9	78·8	80·7	76·3	77·0	29·8	+0·6	30·0	89	+3
Alleppey	12	1008·8	...	1006·7	84·4	...	89	2,3,28	73·6	...	71	4 days	78·3	80·3	76·5	77·1	30·3	...	30·3	92	...
Trivandrum	211	1001·9	−0·1	1000·0	83·8	−1·3	88	2	73·3	−1·3	71	4 days	76·6	78·9	74·7	75·5	28·5	−0·2	28·6	91	+5
Nagercoil	195	1001·6	...	999·7	84·5	...	89	2	74·3	...	71	24	77·9	79·3	74·6	75·2	27·8	...	28·0	86	...
Hill Stations excluding Kashmir																					
Aijal	3,599	884·7	...	880·9	76·0	...	86	3	66·6	...	63	20	69·5	71·5	67·9	69·6	22·8	...	23·8	93	...
Shillong	4,921	843·9	−1·1	842·0	73·3	−1·2	78	1	63·4	+0·4	61	7 days	68·8	69·1	65·9	66·2	20·5	+0·8	20·7	86	+8
Cherrapunji	4,309	863·6	−0·1	861·5	70·8	−1·2	79	4	63·6	−0·7	59	11	67·2	67·9	66·4	66·9	21·6	+0·3	22·1	96	+8
Darjiling	7,432	771·5	−1·3	769·6	65·7	+0·8	72	4	57·0	+0·5	55	20,23	61·4	60·7	60·7	60·1	18·1	+1·0	17·6	96	+3
Kalimpong	3,965	873·3	−0·1	870·4	75·7	+0·5	83	4	69·4	+3·1	67	21	71·4	72·0	69·1	69·6	23·1	+0·1	23·6	89	+1
Katmandu	4,388	860·5	...	857·3	85·5	+0·7	91	1,19,20	66·5	−0·2	60	1,3	74·5	78·0	68·9	70·8	21·7	+0·2	22·7	76	+3
Mukteswar (Kumaon).	7,592	767·8	−1·2	765·8	74·1	+0·9	81	12,13,14	59·4	+1·4	52	3,16	63·6	69·7	55·4	59·6	12·5	−1·0	14·1	62	−6
Mussooree	6,699	792·0	...	(b) 790·1	76·0	+0·9	84	11	62·2	+1·2	50	16	68·7	(b) 70·9	58·5	(b) 58·3	13·5	−1·0	(b) 12·3	57	−11
Simla	7,224	777·6	−0·7	776·1	76·8	+1·7	83	13	62·3	+2·2	53	14,18	71·0	74·6	55·4	56·6	19·5	−3·3	9·4	37	−18
Dharamsala	3,974	876·9	...	875·3	90·2	...	96	27	72·9	...	63	14,15	80·7	85·5	68·0	69·2	18·1	...	16·3	53	...
Abu	3,945	874·2	0	872·1	83·9	+0·3	90	6	69·5	+0·9	64	2	73·9	81·8	67·1	69·1	19·8	+0·5	19·1	72	+1
Pachmarhi	3,528	887·1	−0·5	884·1	90·5	+2·7	100	8,9,11	72·2	+0·2	67	23,25,26	77·4	85·9	68·7	70·9	20·4	−0·4	19·1	66	−2
Mahabaleshwar	4,534	858·3	−1·3	857·9	(c) 70·6	+0·1	81	1	(b) 62·6	+0·1	59	29	64·3	66·6	64·3	65·8	20·6	+0·4	21·3	99	+5
Mercara	3,781	883·4	−0·2	881·9	70·6	−1·6	81	1	63·0	−0·2	61	6,7	65·2	66·9	64·7	65·5	20·7	+0·2	20·9	97	+4
Kodaikanal	7,688	769·0	−0·2	767·8	63·7	−0·9	69	30	52·9	−0·3	51	4 days	57·1	57·1	53·1	54·4	12·2	−0·3	13·4	79	+7
Ootacamund	7,364	777·6	−0·6	776·3	62·1	−2·0	69	7	51·1	−1·3	44	25	55·9	57·5	53·7	54·7	13·3	0	13·7	87	+3
Coonoor	5,730	823·9	...	...	69·2	−3·4	73	5 days	59·6	+0·5	54	17	67·5	...	60·2	...	15·2	+0·3	...	67	+3
Tibet																					
Lhasa	12,000	653·2	...	...	77·1	...	84	28	43·9	...	43	7	59·3	...	56·9	...	14·8	...	...	84	...
Gyantse	13,110	624·1	...	...	75·3	+5·5	80	13,20	44·9	+2·9	40	2,3	60·2	...	47·5	...	7·2	−0·9	...	42	−12
Ceylon																					
Colombo	24	1008·6	−0·5	1006·8	84·6	−1·4	87	2,7	76·7	−0·6	73	9,11,13	80·5	80·9	76·8	76·9	29·8	−0·1	29·9	84	0
Trincomalee	24	1006·0	−0·1	1003·7	91·7	−0·7	94	8 days	79·3	+0·8	77	28	82·3	87·3	75·6	76·0	27·2	−0·9	26·0	72	−5
Batticoloa	20	1006·6	...	1004·7	91·4	...	96	8	77·5	...	76	8 days	83·7	85·8	76·2	76·8	27·5	...	27·4	69	...
Hambantota	61	1006·4	−0·4	1004·6	83·6	−3·1	89	5	75·8	−1·1	73	9	78·5	79·4	75·8	75·9	29·2	−0·1	29·0	88	+2
Mannar	12	1006·6	...	1004·4	88·1	...	91	3	80·8	...	78	28	83·6	83·9	78·6	78·9	31·2	...	31·5	79	...

(b) Mean of 29 days.

(c) Mean of 28 days.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																		STATION.
											0830 hrs. I.S.T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Malabar & South Kanara
6·8	0	7·2	43·48	+6·40	6·46	1	25	+0·4	6·4	+1·0	0	0	3	3	2	5	10	2	5	1	1	0	2	0	9	11	4	2	Mangalore
7·2	+0·4	7·4	37·03	+3·95	4·83	1	26	+1·9	7·1	+1·6	2	5	5	1	2	3	6	6	0	2	1	0	0	1	3	11	12	0	Kozhikode
6·3	...	6·9	19·11	...	2·27	1	25	...	7·4	...	0	0	0	0	0	1	29	0	0	0	0	0	0	0	6	24	0	0	Palghat
																													Mysore
6·4	+0·2	5·3	4·43	+1·84	2·93	2	6	+0·8	10·3	+2·6	0	0	0	0	0	12	18	0	0	0	0	0	0	1	13	13	3	0	Chitaldrug
6·3	...	7·1	4·72	...	1·21	2	13	...	4·2	...	0	1	0	0	5	18	5	1	0	0	0	0	0	4	15	9	2	0	Shimoga
6·3	+0·1	6·3	2·35	−1·26	0·99	1	7	−2·3	10·0	+3·0	0	0	0	0	0	5	25	0	0	0	0	0	0	0	6	24	0	0	Hassan
6·9	+0·6	6·8	2·23	−0·63	0·57	2	6	+0·1	12·0	+3·8	0	0	0	0	0	18	9	3	0	0	0	0	0	0	10	16	4	0	Bangalore
6·0	−0·2	6·8	1·42	−1·04	0·49	14	5	−0·8	8·2	−0·6	0	0	0	0	1	17	1	11	1	0	0	0	0	1	13	16	0	0	Mysore
																													Travancore-Cochin
7·4	+1·0	7·4	38·39	+9·91	4·32	9	27	+2·7	7·6	+2·9	0	6	7	4	0	1	5	4	3	2	3	1	0	0	1	8	12	3	Fort Cochin
7·3	...	6·5	42·01	...	4·60	11	25	...	8·6	...	4	6	6	1	0	1	3	9	0	4	2	1	0	0	2	7	13	1	Alleppey
7·0	+0·4	7·0	18·56	+5·38	2·22	15	22	+4·9	6·4	+1·1	14	1	0	0	0	0	3	12	0	4	0	0	0	0	0	5	21	0	Trivandrum
7·3	...	7·6	12·17	...	2·61	24	18	...	10·6	...	0	0	0	0	0	0	22	8	0	0	0	0	0	0	0	22	8	0	Nagercoil
																													Hill stations excluding Kashmir
5·0	...	6·7	14·67	...	2·99	4	17	...	6·5	...	1	1	9	7	3	9	0	0	0	1	1	1	4	3	11	6	2	1	Aijal
7·3	+0·7	7·3	32·22	+14·06	7·63	8	25	+5·0	2·9	+0·1	0	0	2	1	4	5	0	0	18	1	0	0	1	2	5	0	0	21	Shillong
7·7	+0·5	7·4	137·71	+31·66	22·05	10	26	+1·0	9·0	+3·1	0	5	3	4	7	9	0	0	2	0	3	2	3	5	11	4	0	2	Cherrapunji
7·3	+0·4	7·5	18·22	−5·96	2·53	7	23	+2·0	4·7	+0·8	0	0	16	3	0	1	7	1	2	0	0	9	5	1	2	12	0	1	Darjiling
5·6	+0·4	6·5	10·59	−3·96	2·19	7	15	−1·4	5·3	−0·5	0	0	1	16	0	0	0	8	5	0	0	0	28	0	0	0	2	0	Kalimpong
5·8	+0·4	6·2	8·12	−1·56	2·58	30	14	−1·8	0·8	−0·5	1	0	4	1	1	0	0	0	23	1	1	1	1	2	1	0	0	23	Katmandu
2·7	−1·4	3·4	4·17	−3·17	1·40	3	5	−5·1	10·7	+4·5	0	0	1	1	0	2	16	6	4	0	1	2	0	0	6	15	4	2	Mukteswar (Kumaon)
2·8	−1·2	(b) 3·8	2·84	−5·94	1·48	16	5	−5·2	4·6	−0·9	3	3	1	8	7	2	0	0	6	4	3	0	6	9	3	1	1	2	Mussooree
2·1	−1·4	3·4	1·17	−4·87	0·55	15	4	−5·8	2·6	−0·5	9	4	2	3	3	1	1	2	5	1	3	2	0	5	8	5	4	2	Simla
1·3	...	2·9	0·85	...	0·82	14	1	...	...	...	4	1	7	0	2	1	3	0	12	4	0	5	1	8	2	5	2	3	Dharamsala
1·7	−0·8	3·5	2·75	−1·90	1·12	2	5	−0·8	5·9	−2·1	1	1	0	2	6	6	7	0	7	2	0	0	5	10	5	1	1	6	Abu
3·4	+0·5	5·9	8·19	−1·05	2·32	27	8	−2·3	4·0	−2·2	0	1	0	0	0	1	18	9	1	4	5	0	0	1	4	8	4	4	Pachmarhi
7·7	+0·6	7·4	42·44	−0·25	10·89	24	23	+0·8	8·8	−1·4	0	0	0	0	3	13	8	4	2	0	0	0	0	0	20	5	5	0	Mahabaleshwar
6·6	−0·4	6·5	21·89	−3·61	2·90	11	24	+0·8	9·8	+4·1	0	0	0	0	0	1	15	14	0	0	0	0	0	0	1	15	14	0	Mercara
4	+1·2	7·4	2·51	−1·73	0·72	5	9	−0·9	(c) 14·5	+5·1	0	0	0	0	0	1	16	11	2	1	0	0	0	0	0	13	16	0	Kodaikanal
6	−0·6	6·4	3·27	−3·30	0·63	1	12	−2·1	7·7	+2·4	0	0	0	0	0	3	26	1	0	0	0	0	0	0	5	21	3	1	Ootacamund
8	+0·1	...	1·30	−1·51	0·40	1	6	0	6·7	+2·3	6	2	0	1	5	4	2	10	0	...	...	...	...	...	...	...	...	...	Coonoor
																													Tibet
6	...	...	3·97	...	0·56	24	9	...	0·7	...	0	0	0	0	0	0	0	0	30	...	...	...	...	...	...	...	...	...	Lhasa
3	−2·1	...	2·31	+0·74	0·65	23	5	+0·5	2·9	−0·4	0	0	5	7	3	0	0	0	15	...	...	...	...	...	...	...	...	...	Gyantse
																													Ceylon
0	+0·6	7·5	9·71	+1·34	1·45	11	16	+2·0	...	...	0	1	0	2	0	13	13	1	0	0	0	0	0	2	13	15	0	0	Colombo
9	+2·7	6·9	0·04	−0·90	0·04	21	0	−1·6	...	...	0	0	0	0	1	27	2	0	0	0	0	0	0	0	29	1	0	0	Trincomalee
2	...	7·2	0·98	...	0·40	18	3	...	...	...	0	0	0	1	1	6	7	1	14	0	2	2	8	0	12	5	1	0	Batticoloa
9	+2·6	6·9	7·51	+5·42	2·70	11	14	+8·2	...	...	0	0	0	0	0	12	18	0	0	0	0	0	0	0	11	18	1	0	Hambantota
3	...	6·9	0·13	...	0·13	1	1	...	...	...	0	0	0	0	4	25	1	0	0	0	0	0	0	6	24	0	0	0	Mannar

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T

STATION.	Height of bar, cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
HYDROMETEOROLOGICAL OBSERVATORIES																					
Damodar Catchment																					
Bokaro . .	..	972·3	..	969·1	98 7	..	107	9	78·9	..	75	4 days	87·0	88·9	77·5	75·9	27·9	..	24·6	65	..
Mahanadi Catchment																					
Baramul . .	210	993·4	..	989·9	96·0	..	109	19	77·7	..	89	14	84·7	88·0	79·0	79·3	30·1	..	30·4	77	..
Hirakud . .	522	..	..	..	99·3	..	105	1,12	80·1	..	73	25,29	86·7	91·8	78·1	75·3	28·9	..	22·5	67	..
Barakachhar .	1,136	..	..	..	97·5	..	108	9	78·5	..	71	4	85·1	91·9	75·8	76·7	26·2	..	24·5	65	..
Narbada Catchment																					
Punasa . .	877	..	...	..	101·1	..	111	6	80·4	..	83	27	85·9	94·3	75·6	75·2	25·7	..	21·3	61	..
Bagra Tawa .	1,087	..	..	..	99·8	..	111	8,9	80·6	..	72	13	86·3	93·7	74·9	75·7	24·4	..	22·2	56	..
Sabarmati Catchment																					
Dharoi (R) .																					

(R) Register not received.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																	STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.								
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													HYDROMETEOROLOGICAL OBSERVATORIES
																													Damodar Catchment
5·3	..	6 8	7·15	..	2·43	30	10	..	5·7	..	0	0	4	12	1	9	1	1	2	1	2	6	9	0	4	1	5	2	Bokaro
																													Mahanadi Catchment
..	..	..	9·68	..	2·15	15	10	..	1·8	..	1	5	0	2	0	8	0	1	13	1	3	0	1	1	4	0	4	16	Baramul
..	..	..	7·53	..	2·07	25	6	..	4·0	..	0	2	0	2	1	18	1	1	5	0	0	0	5	0	15	0	6	4	Hirakud
..	..	..	5·71	..	1·57	26	13	..	5·9	..	0	0	1	1	0	27	0	1	0	1	1	1	1	0	17	1	2	6	Barakachhar
																													Narbada Catchment
..	..	..	3·80	..	0·85	27	11	..	7·4	..	0	0	0	0	0	13	13	1	3	3	3	0	1	0	10	8	5	0	Punasa
..	..	..	8·11	..	3·47	27	6	..	5·8	..	0	1	0	1	3	14	10	1	0	4	2	0	0	1	8	11	4	0	Bagra Tawa
																													Sabarmati Catchment
																													Dharol (R)

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 4TH CLASS STATIONS—JUNE 1951.

STATION.	Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb °F.	Wet bulb °F.	Vapour pressure, millibars.		Relative humidity, %		Cloud amount	Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind	
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean Dry temperature, 0830 hrs. I. S. T.	Mean Wet temperature, 0830 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 0830 hrs. I. S. T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Resultant Direction 0830 hrs. I.S.T.	Velocity in
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Assam																							
Lumding	89·7	—0·1	99	1	74·5	—0·8	71	10,22	82·1	80·7	34·9	+4·9	91	+10	...	11·18	+1·53	2·35	8	16	+2·3	...	..
Uttar Pradesh, West																							
Lokpal	43·9	...	48	24,30	35·5	...	30	1,2,3	...	...	...	...	...	...	...	3·53	...	0·41	17	13	...	...	..
Jammu and Kashmir																							
Jammu	106·3	+3·8	115	28,30	75·1	—7·4	69	1,15	89·7	70·3	15·8	—4·4	35	—9	2·2	0·06	—2·74	0·04	15	0	—3·8	N40E	..
Kargil (R)																							
Mysore																							
Balehonnur	75·0	—1·9	83	3	65·6	—0·2	64	4,6	68·8	67·3	22·2	—0·4	92	0	...	17·88	+0·84	2·55	11	24	+2·9	...	..
Nandi Hills	75·1	...	78	1	64·0	...	60	9 days	65·7	65·7	21·6	...	100	...	8·0	1·57	...	0·40	2	4	..	S16W	..
Sikkim																							
Lachen	...	...	...	...	42·7	...	40	6,13	58·2	...	...	...	...	...	...	10·17	...	1·14	18	24	...	...	..
Tibet																							
Yatung (Chumbi)	65·9	+1·9	69	5 days	49·5	+0·7	40	22	59·8	57·6	15·7	+2·3	89	+3	0·6	3·25	—2·47	1·29	7	9	—4·9	...	..
HYDROMETEOROLOGICAL OBSERVATORIES.																							
Mahanadi Catchment																							
Sonepur (R)																							
Ginabahar	96·9	...	103	9	75·3	...	70	11	84·4	75·5	26·1	...	64	...	...	8·93	...	5·19	30	9	...	...	...
Ganga Catchment.																							
Tapoban	79·2	...	87	26	59·0	...	53	25	64·4	58·5	14·6	...	70	...	...	5.65	...	1·52	15	8	..	...	...
Badrinath	66·5	...	69	4 days	45·2	...	44	8 days.	50·0	45·2	8·8	...	71	...	...	1·85	...	0·51	29	8	...	...	...
Narbada Catchment																							
Thikri	101·4	...	110	6	81·0	...	84	28	86·6	77·1	27·5	...	63	...	...	2·39	...	1·20	23	4	...	...	...
Sabarmati Catchment.																							
Jhadol	95·5	...	102	16	72·1	...	68	7	80·7	73·1	24·5	...	68	...	...	2·32	...	0·90	1	3	...	...	...

(R) Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 5TH CLASS STATIONS—JUNE 1951.

Division.	Station.	Rainfall, inches.				Number of rainy days (0.10" or more).		Division.	Station.	Rainfall, inches.				Number of rainy days, (0.10" or more)	
		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.			Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
Assam	Mawsynram	128·70	...	22·77	9	24	...	Punjab (I)—*contd.*	Dharampore	1·90	—3·10	1·30	15	2	—4·5
West Bengal	Bankura	11·72	+1·19	2·03	17	13	+1·9		Kharsali	2·19	...	0·61	10	5	...
Bihar	Muzaffarpur	5·89	—1·81	1·80	30	5	—3·1		Rana	4·90	...	1·50	6	10	...
	Chapra	7·27	+1·34	2·32	15	8	+0·8		Jamuna Chetty	2·41	...	1·10	15	5	...
	Arrah	6·30	+0·10	2·86	16	8	+0·5	Jammu & Kashmir	Sonamarg	5·40	+2·51	1·07	14	11	+3·8
Punjab (I)	Dalhousie.	0	—5·11	0	...	0	—6·9		Gurez	3·41	+1·00	1·00	12,13	4	—1.8
	Kyelang	1·67	+0·69	0·68	10	5	+2·6	Deccan (Desh)	Khandala	28·68	—4·45	7·35	24	22	+1.7
	Gondla	0·65	...	0·51	14	1	...	Sikkim	Thangu	4·18	...	0·53	6	15	...
	Koksar	0·88	...	0·50	15	3	...		Chungthang	20·40	...	2·50	15	22	...
	Kothi	1·82	...	1·50	14	4	...								

RADIOSONDE DATA

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

(From Ascents at 15 hrs. G. M. T.)

JUNE 1951

ndard essure rface nbs.	ALLAHABAD (Sur. Pr. 985 mb.)						CALCUTTA (999 mb.)						JODHPUR (974 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
rface	30	98	307·0	311	299	292·5	29	7	302·0	304	298	298·1	30	218	307·9	311	301	293·0
1000	30	—44	...	...	...	...	29	—5	...	...	...	...	30	—23	...	...	...	...
900	30	908	302·8	309	295	288·2	29	928	297·0	303	294	292·9	30	930	303·1	307	298	289·7
850	30	1414	298·2	305	293	285·7	28	1424	294·5	298	291	289·7	30	1439	298·3	303	293	288·3
800	30	1949	293·7	299	289	283·7	27	1951	291·7	295	288	286·0	30	1966	293·3	299	288	285·9
700	29	3081	284·3	289	279	278·0	26	3087	284·4	288	279	278·4	30	3101	284·1	288	279	276·8
600	29	4350	275·0	279	268	271·4	25	4358	276·8	281	274	272·5	30	4365	274·8	279	267	271·1
500	29	5798	266·8	273	261	...	24	5817	269·7	273	265	...	29	5793	265·5	270	258	...
400	29	7515	258·0	264	253	...	24	7546	259·7	265	251	...	28	7516	258·3	263	250	...
300	28	9631	243·0	251	237	...	21	9681	245·6	251	233	...	25	9631	244·3	251	236	...
250	28	10894	233·5	242	225	...	16	10942	234·6	243	227	...	22	10898	234·8	243	226	...
200	19	12382	222·9	232	216	...							18	12413	225·7	239	213	...
175	7	13216	217·4	224	214	...							11	13271	218·8	228	204	...
150													8	14205	214·7	221	205	...
125																		
100																		
80																		

	MADRAS (1001 mb.)						NAGPUR (964 mb.)						NEW DELHI (971 mb.)					
rface	30	15	303·5	307	300	296·8	30	307	305·0	311	299	292·7	30	213	307·2	312	299	290·2
1000	30	22	...	...	...	...	30	—21	...	...	...	...	30	—48	...	...	...	...
900	30	962	299·9	301	297	288·9	30	928	302·2	309	292	289·6	30	905	305·6	312	297	287·1
850	30	1467	296·3	299	292	285·5	29	1432	298·2	307	291	287·7	30	1417	301·8	311	296	284·9
800	29	1993	292·0	296	288	285·7	28	1964	294·4	304	289	286·5	30	1953	296·7	301	291	276·3
700	28	3124	284·0	287	280	280·0	23	3106	285·9	296	282	280·7	30	3098	286·1	291	280	277·0
600	28	4401	277·4	280	274	271·1	18	4385	277·0	285	271	274·8	30	4370	275·3	280	269	271·7
500	29	5869	270·5	275	265	269·2	20	5843	269·4	274	265	...	30	5816	265·8	275	259	...
400	27	7603	260·1	265	255	...	18	7591	261·9	264	254	...	30	7537	258·5	267	251	...
300	22	9743	247·0	251	242	...	11	9717	247·7	251	245	...	26	9660	245·3	257	240	...
250	16	11041	236·6	243	231	...	8	11027	239·0	244	235	...	25	10948	236·0	251	229	...
200	8	12570	226·6	232	222	...	6	12544	227·2	232	220	...	20	12467	224·4	231	216	...
175							5	13476	218·8	223	216	...	16	13367	218·2	225	208	...
150													6	14311	214·0	223	204	...
125																		
100																		
80																		

RADIOSONDE DATA
MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
(From Ascents at 15 hrs. G. M. T.)
JUNE 1951

Standard Pressure Surface mbs.	POONA (Sur. Pr. 942 mb.)						PORT BLAIR (1004 mb.)						TRIVANDRUM (1001 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Poin
Surface	30	557	297·6	302	296	293·3	29	21	299·5	301	298	297·6	30	64	298·0	300	296	296
1000	30	27	...	...	...	...	29	60	...	...	...	...	30	77	...	...	...	...
900	30	951	296·2	299	293	291·3	29	986	294·8	298	293	291·7	30	999	293·5	295	292	291
850	30	1447	293·1	297	290	288·7	29	1482	292·6	295	290	289·0	30	1491	291·2	293	289	288
800	30	1973	290·9	295	288	285·2	28	2003	289·6	293	288	286·1	30	2012	288·6	291	287	285
700	30	3105	285·9	289	283	276·1	28	3131	284·7	288	280	279·1	30	3136	283·5	287	281	277
600	30	4383	278·3	283	274	269·2	27	4408	277·9	282	272	272·3	29	4408	277·1	280	276	271
500	30	5851	270·6	274	268	...	22	5871	269·6	276	266	...	28	5871	269·7	275	267	...
400	29	7591	262·5	267	255	...	22	7605	260·6	269	256	...	25	7608	260·4	266	257	...
300	25	9753	249·4	252	245	...	20	9750	247·9	260	241	...	25	9748	247·1	255	241	...
250	22	11050	239·5	244	235	...	17	11035	237·8	248	232	...	24	11047	238·1	247	232	...
200	20	12593	229·8	236	222	...	11	12552	227·0	231	224	...	20	12586	228·3	240	221	...
175	18	13452	223·9	232	218	...	9	13422	221·5	225	218	...	16	13461	221·3	227	216	...
150	14	14458	216·6	222	210	...	9	14423	215·4	220	210	...	16	14445	214·0	221	208	...
125	5	15604	212·4	220	207	...							7	15564	208·4	214	204	...
100													7	16920	202·1	209	199	...
80																		

Standard Pressure Surface mbs.	VERAVAL (1000 mb.)						VISAKHAPATNAM (994 mb.)					
Surface	25	8	302·3	303	300	299·5	23	48	302·5	304	301	297
1000	25	4	...	...	...	...	22	3	...	...	...	..
900	25	939	296·8	303	295	292·1	22	934	298·5	303	296	293
850	25	1436	294·0	299	291	289·3	22	1436	295·9	298	293	290
800	25	1963	292·6	297	289	283·2	22	1965	292·1	295	287	287
700	25	3105	287·3	293	283	273·5	21	3101	286·1	289	279	279
600	24	4385	277·7	282	269	268·9	20	4382	278·1	282	274	273
500	23	5897	270·7	279	264	...	17	5850	269·4	275	264	261
400	23	7597	262·7	269	259	...	15	7592	260·8	266	255	...
300	17	9752	248·5	256	243	...	11	9747	249·1	255	243	...
250	14	11052	239·1	246	235	...	9	11042	240·4	249	235	...
200	7	12537	227·0	231	222	...	5	12571	229·0	234	228	...
175												
150												
125												
100												
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 or standard pressure surfaces with temperature than 273°A.

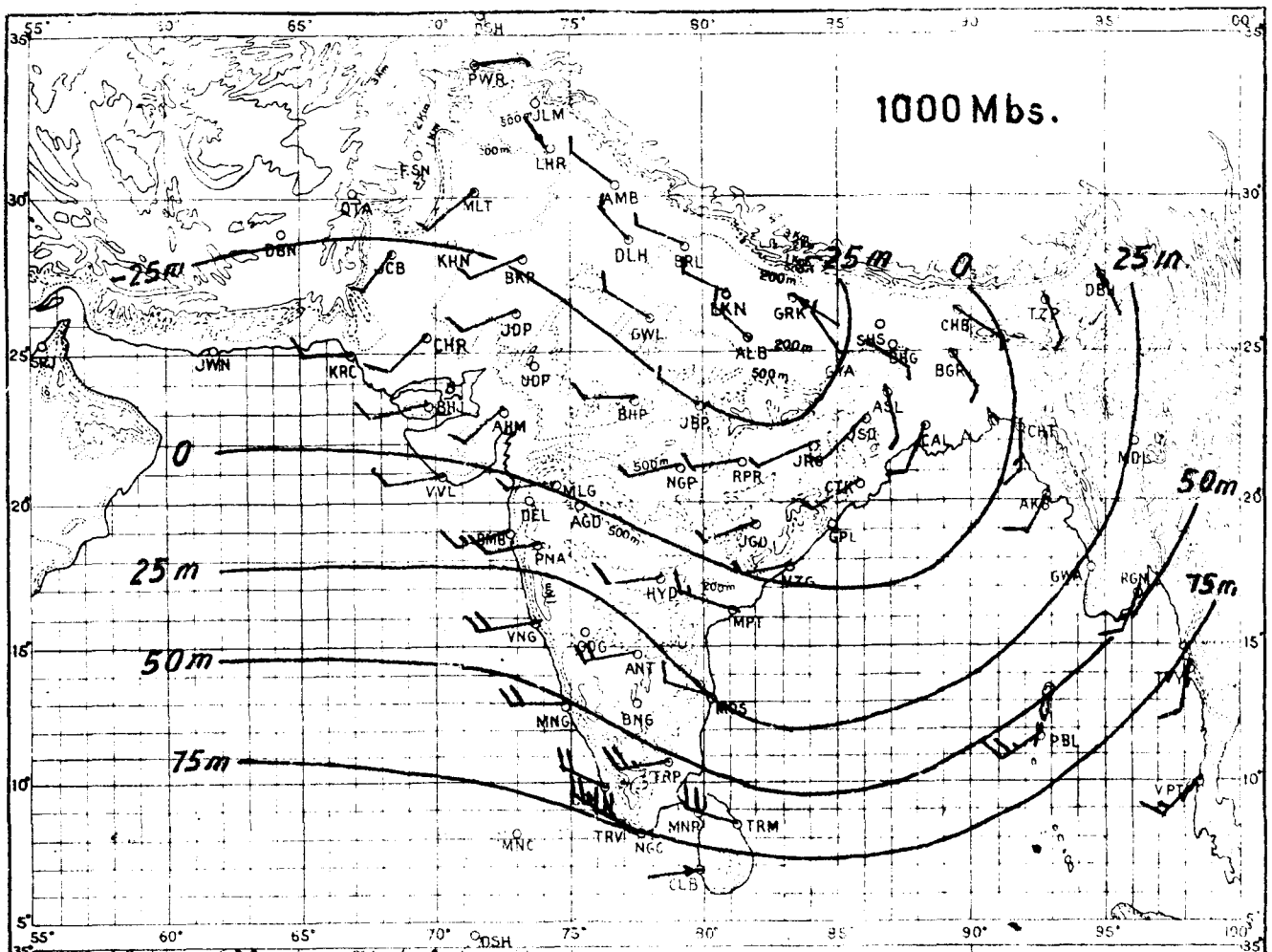
Means are not worked out for less than five observations at standard pressure surfaces.

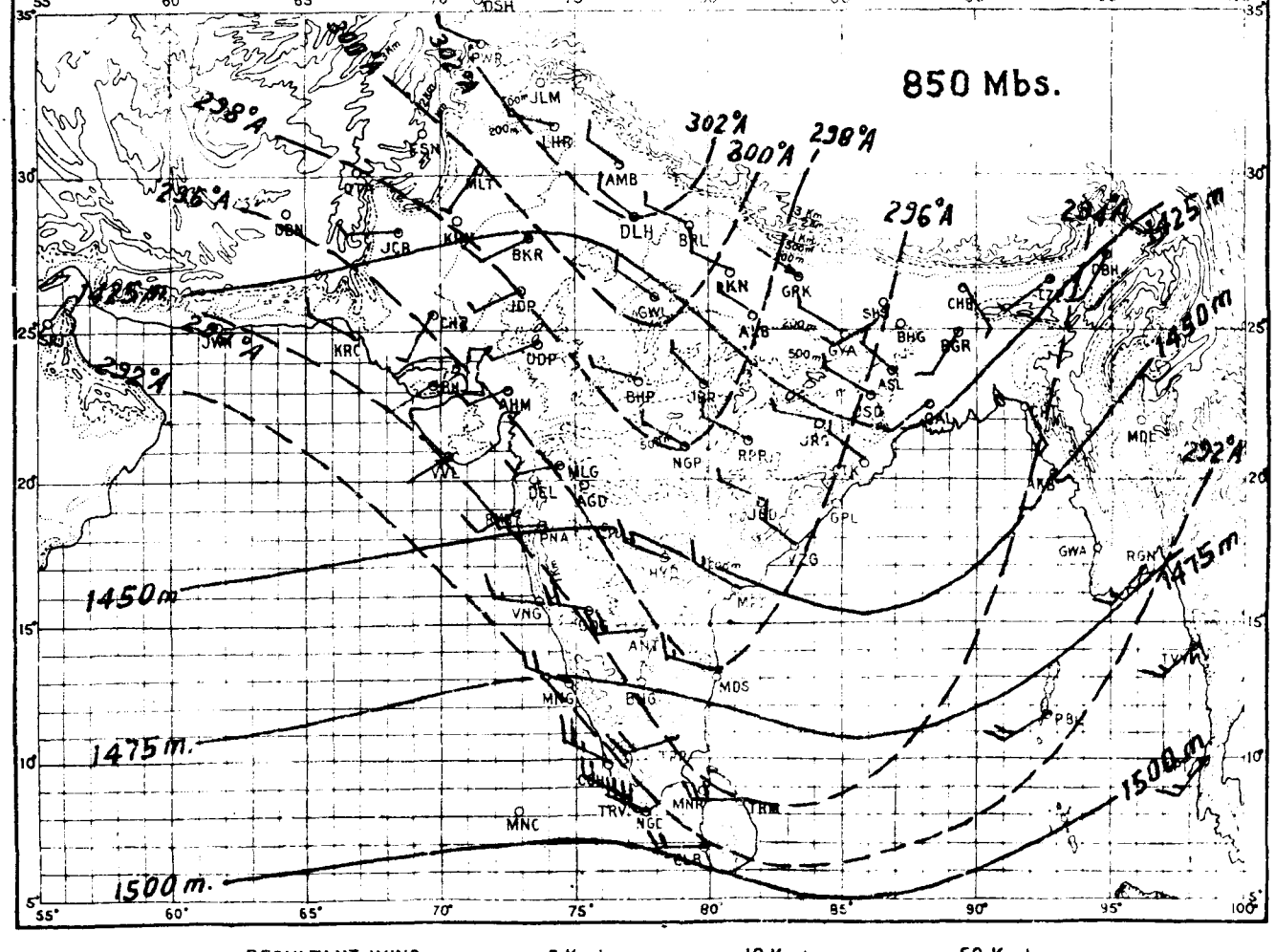
GIPN —Si—2 DDGOM Poona—9-4-53—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JUNE 1951

Plate I





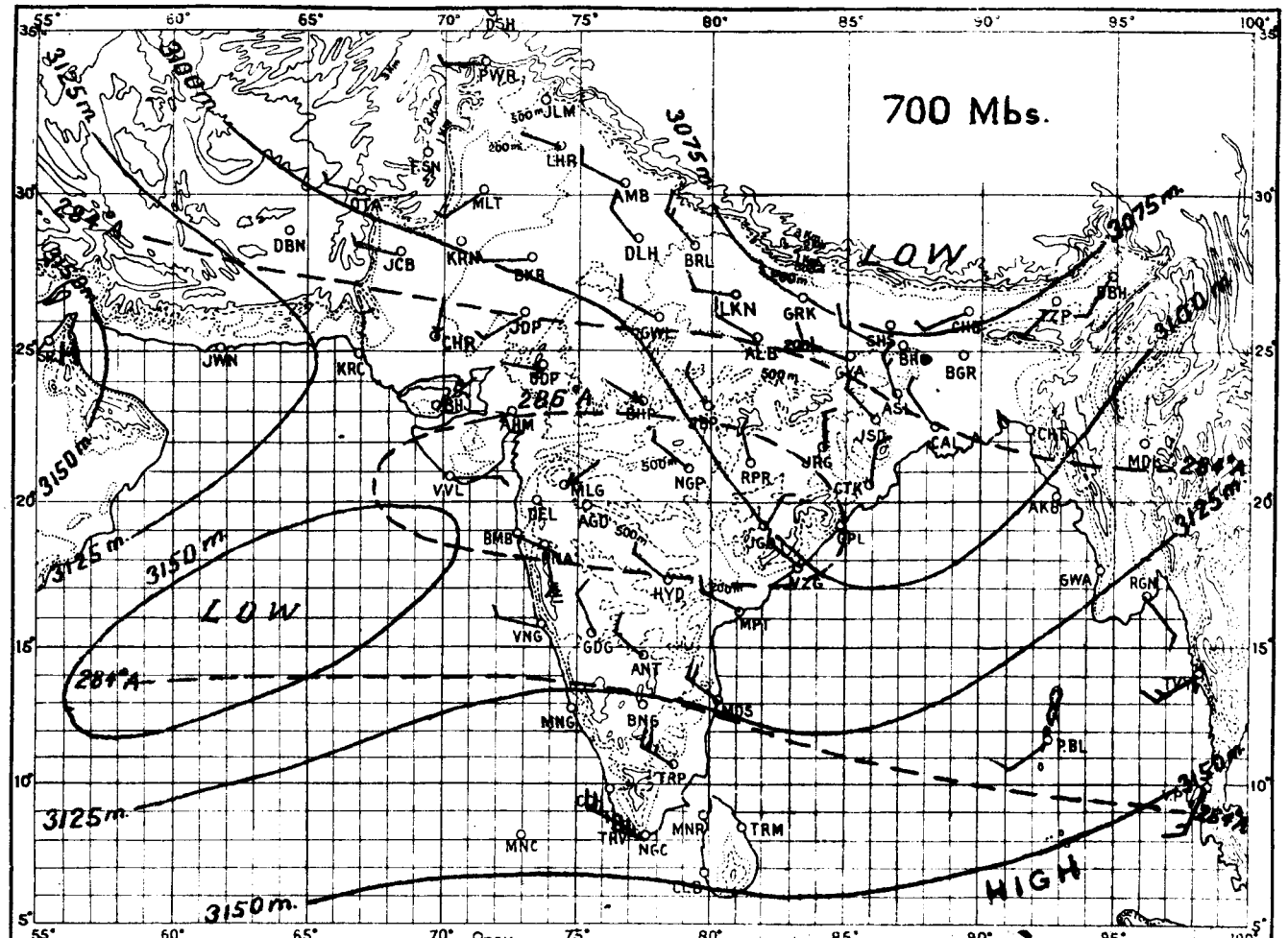
RESULTANT WIND —— = 5 Knots, —— = 10 Knots, —— = 50 Knots

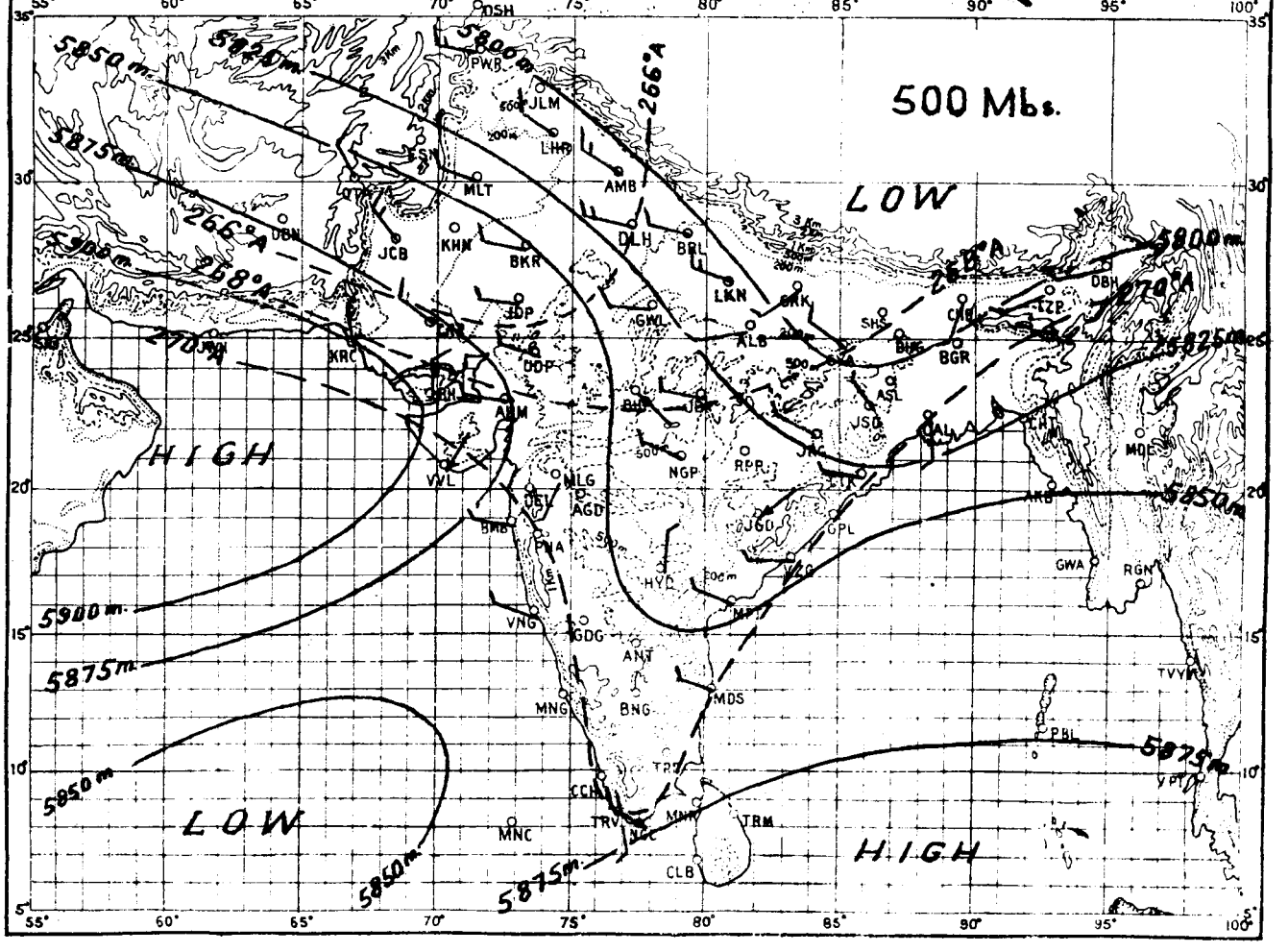
- - - - - *Isotherms in degrees Absolute* ——— *Contours in geopotential Metres.*

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JUNE 1951

Plate II





RESULTANT WIND —\ = 5 Knots, —\ = 10 Knots, —\ = 50 Knots

---- *Isotherms in degrees Absolute* ———— *Contours in geopotential Metres.*

Registered No. B-3097

INDIA WEATHER REVIEW, 1951

Monthly Weather Report

July

Published by authority of the Government of India

Chief features.—(1) An extension of the monsoon into southwest Uttar Pradesh and the Punjab (I) by the beginning of the month but its temporary withdrawal from northwest India and Uttar Pradesh between the 5th and 24th of the month, (2) a spell of very heavy rain in Assam between the 12th and 17th resulting in floods and (3) two depressions and one cyclonic storm from the northwest Bay of Bengal during the last fortnight of month.

The shallow low pressure area which lay over south Bihar and the neighbourhood at the end of the last month moved slowly up to east Uttar Pradesh by the 2nd July. Thereafter, it recurved and moving in an easterly direction and weakening, finally merged into the seasonal trough of low pressure over the Gangetic plain by the 7th. Under its influence, the monsoon was vigorous in Vindhya Pradesh and the adjoining parts of east Uttar Pradesh and active in Assam, sub-Himalayan West Bengal and Bihar on the 1st, on which date, it also advanced into west Uttar Pradesh and the Punjab (I). Fairly widespread thundershowers occurred in Chota Nagpur and Bihar on the 5th and 6th.

Weak monsoon conditions prevailed over the country outside Assam and the west coast between the 6th and the 18th when the axis of the monsoon trough shifted to the foot of the Himalayas. Assam, however, continued to get widespread or local rain during this period. The rainfall in this division was also locally very heavy between the 11th and 17th resulting in floods there. Cherrapunji recorded 9″ to 19″ in 24 hours during each day over this period. According to newspaper reports, the Brahmaputra and its tributaries, the Kopila, the Jamuna and Barpari overflowed their banks inundating an area of more than 700 square miles and causing heavy damage to Jute and paddy crops in Kamrup and Nowgong districts and also affecting rail communications in some parts of Assam. Damage to jute crops in Nowgong district was estimated at over Rs. 315 lakhs. There was slight strengthening of the Arabian Sea branch of the monsoon along the west coast between the 12th and 14th when widespread rain with locally heavy falls occurred in the Konkan.

During the rest of the month, the activity of the monsoon was associated with the formation of three depressions in the northwest Bay of Bengal in rapid succession and their movement inland. The first depression developed off the Orissa-Circars coast on the 21st morning with centre about 60 miles southeast of Gopalpur, crossed coast to the south of Calingapatam next day and became unimportant. Under its influence, the monsoon strengthened over the Peninsula and active monsoon conditions prevailed there outside Tamilnad and Rayalaseema between the 18th and 24th. Very heavy falls of rain were reported from the south Konkan and the adjoining parts of Malabar-south Kanara on the 22nd and 23rd, Vengurla and Ratnagiri recording 9″ each on these two days respectively. Locally heavy falls of rain also occurred in east Hyderabad on the 22nd and in coastal Andhradesa on the 24th. The second depression formed on the morning of the 24th in the central Bay of Bengal with its centre about 400 miles to the east of Visakhapatnam. Moving in a northwesterly direction, it intensified into a cyclonic storm the next day with centre about 100 miles southeast of Puri, and crossed the Orissa coast the same evening between Puri and Gopalpur. Weakening thereafter, it moved in a westnorthwesterly direction as a depression and became unimportant over northwest India on the 29th. Under its influence, the monsoon was vigorous in south Madhya Pradesh and the Konkan on the 26th and the 27th and in Saurashtra and Kutch and Gujarat on the 27th and the 28th. Widespread rain with locally heavy falls occurred in Orissa on the 25th and 26th; Koraput reporting 9″ on the morning of 25th. The residual low of this depression over the Punjab (I) continued to cause widespread rainfall with a few very heavy falls in that area on the 29th and 30th. Hoshiarpur [Punjab (I)] reported 11″ of rain on the 29th and Rupar [Punjab (I)] 12″ on the 30th. These heavy rains caused the river Jamuna to rise and overflow its banks.

JUN 15 1955

The third depression of the month formed in the northwest Bay of Bengal with its centre about 50 miles southeast of Chandbali on the morning of the 30th. It crossed coast near Chandbali the same night, and moved northwestwards to northwest Madhya Pradesh and the adjoining parts of Vindhya Pradesh by the evening of the 31st. Thereafter, it weakened and merged into the seasonal low. In association with the passage of this depression, active to vigorous monsoon conditions prevailed in east Madhya Pradesh and north Hyderabad on the 31st. Kanker in southeast Madhya Pradesh reported 11″ of rain on that date, this being the heaviest fall on record there during the last 20 years. The monsoon remained generally weak over northern India except on the 29th when it was active over northeast India.

Total rainfall for the month was in large excess in the Bay Islands, Hyderabad and coastal Andhradesa, in slight to moderate excess in the Konkan, Rayalaseema and Tamilnad and normal in Assam, West Bengal, Orissa, Bihar, east Madhya Pradesh, Saurashtra and Kutch and Mysore. It was in slight defect in Chota Nagpur, Vindhya Pradesh, west Madhya Pradesh, Deccan (Desh) and Malabar and south Kanara, in moderate defect in west Uttar Pradesh, northwest India, Madhya Bharat, Gujarat and Travancore-Cochin and in large defect in east Uttar Pradesh. Averaged over the plains of India, the rainfall was 10% in defect.

The mean maximum temperature was above normal in Uttar Pradesh, northwest India, the central parts of the country, Gujarat and Saurashtra and Kutch and normal elsewhere except in Rayalaseema where it was below normal. The mean minimum temperature was normal throughout the country.

The mean relative humidity was above normal in the Konkan and normal elsewhere except in west Uttar Pradesh, northwest India and Vindhya Pradesh where it was below normal.

The mean cloud amount was normal all over the country except in west Uttar Pradesh and northwest India where it was below normal.

Data from Jammu and Kashmir are not available.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amounts for the 13 chief political divisions and the 27 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 :
Dated the 23rd November, 1951.

S. BASU,
for *Director General of Observatories.*

—	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—									
1. Assam (including Manipur and Tripura).	15·97	15·77	+0·20	+1	−1·5	−0·6	−0·4	+2	+0·5
2. West Benga .	14·20	14·83	−0·63	−4	0	−0·3	−0·5	+1	+0·1
3. Orissa . .	11·80	12·53	−0·73	−6	+1·2	+0·4	+1·1	+2	+0·1
4. Bihar . .	12·14	12·75	−0·61	−5	−0·1	−0·4	−0·2	+1	+0·4
5. Uttar Pradesh .	5·82	12·31	−6·49	−53	+3·9	+1·2	−0·5	−5	−0·9
6. Punjab (I) (including PEPSU and Delhi).	4·69	7·25	−2·56	−35	+5·4	+1·7	+0·1	−8	−1·5
7. Rajasthan .	3·40	6·00	−2·60	−43	+3·5	+1·8	−1·1	−8	−1·6
Sub-Division—									
1. Bay Islands .	26·19	15·43	+10·76	+70	+0·6	−0·2	−0·8	0	+0·4
2. Assam (including Manipur & Tripura).	15·97	15·77	+0·20	+1	−1·5	−0·6	−0·4	+2	+0·5
3. West Bengal .	14·20	14·83	−0·63	−4	0	−0·3	−0·5	+1	+0·1
4. Orissa . .	11·80	12·53	−0·73	−6	+1·2	+0·4	+1·1	+2	+0·1
5. Chota Nagpur .	10·29	13·63	−3·34	−25	+0·2	−0·5	−0·3	0	−0·1
6. Bihar . .	13·29	12·19	+1·10	+9	−0·5	−0·3	−0·2	+3	+0·8
7. Uttar Pradesh, East.	4·83	12·52	−7·69	−61	+2·6	+1·0	−0·5	−3	−0·2
8. Uttar Pradesh, West.	6·80	12·10	−5·30	−44	+5·1	+1·4	−0·4	−6	−1·5
9. Punjab (I) (including PEPSU & Delhi).	4·69	7·25	−2·56	−35	+5·4	+1·7	+0·1	−8	−1·5
10. Jammu & Kashmir.	Data incomplete								
11. Rajasthan, West	1·60	3·09	−1·49	−48	+2·3	+1·8	−0·7	−6	−1·6
12. Rajasthan, East (including Ajmer).	5·20	8·90	−3·70	−42	+4·4	+1·8	−1·4	−9	−1·5
13. Madhya Bharat .	8·27	13·67	−5·40	−40	+4·8	+1·4	−0·3	−5	−0·8
14. Vindhya Pradesh	13·16	15·27	−2·11	−14	+3·6	+1·7	−0·7	−6	−0·7

—	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—*contd.*									
8. Madhya Bharat & Vindhya Pradesh.	10·36	14·35	−3·99	−28	+4·3	+1·5	−0·5	−5	−0·8
9. Madhya Pradesh	13·45	14·33	−0·88	−6	+3·7	+1·3	+0·6	−2	−0·1
10. Bombay (including Saurashtra and Kutch).	14·69	14·44	+0·25	+2	+1·9	+0·6	+0·5	+2	−0·2
11. Hyderabad .	11·15	7·23	+3·92	+54	+0·3	+0·3	+0·6	+4	+0·2
12. Madras (including Travancore-Cochin).	7·76	6·98	+0·78	+11	−0·9	0	+0·4	+2	+0·3
13. Mysore . .	9·30	9·97	−0·67	−7	+0·2	+0·1	0	+3	+0·1
Mean of India .	10·06	11·16	−1·10	−10	+2·0	+0·7	0	−1	−0·3
Sub-Division—*contd.*									
15. Madhya Pradesh, East.	15·36	15·37	−0.01	0	+3·5	+1·4	+0·3	−3	−0·1
16. Madhya Pradesh, West.	12·09	13·59	−1·50	−11	+3·8	+1·2	+0·8	−2	−0·1
17. Gujarat . .	8·02	12·72	−4·70	−37	+3·5	+1·5	+0·6	−1	−0·4
18. Saurashtra and Kutch.	7·52	7·95	−0·43	−5	+3·1	+1·1	+0·4	0	−0·7
19. Konkan . .	42·85	31·21	−11·64	+37	−0·3	−0·1	+0·1	+6	−0·1
20. Deccan (Desh) .	10·41	12·32	−1·91	−16	+1·2	+0·1	+0·7	+4	+0·4
21. Hyderabad, North.	12·24	8·08	+4·16	+51	+0·9	+0·4	+0·6	+4	0
22. Hyderabad, South.	10·06	6·37	+3·69	+58	−0·1	+0·2	+0·6	+4	+0·3
23. Coastal Andhradesa.	9·72	5·07	+4·65	+92	−0·9	+0·3	+0·5	+3	−0·2
24. Rayalaseema .	3·89	3·18	+0·71	+22	−2·1	−0·5	+0·4	+4	+0·4
25. Tamilnad .	2·84	2·20	+0·64	+29	−1·0	0	+0·5	+1	+0·7
26. Malabar & South Kanara.	31·62	35·68	−4·06	−11	+0·5	−0·3	0	+1	+0·1
27. Mysore . .	9·30	9·97	−0·67	−7	+0·2	+0·1	0	+3	+0·1
28. Travancore-Cochin.	10·43	15·54	−5·11	−33	−0·2	−0·1	−0·1	+1	0

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars. Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Maximum temperature, °F. Mean.	Departure from normal.	Highest.	Date.	Minimum temperature, °F. Mean.	Departure from normal.	Lowest.	Date.	Dry bulb temperature °F. Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Wet bulb temperature, °F. Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Vapour pressure millibars. Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Relative humidit % Mean 0830 hrs. I.S.T.	Departure from normal.	Mean
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
Bay Islands																						
Port Blair	259	999·8	+1·2	997·8	84·4	+0·6	87	2	74·9	—0.2	71	18,20,24	80·8	78·8	77·0	75·9	29·7	—0·8	29·1	84	0	
Assam																						
Dibrugarh	348	992·4	+1·5	989·1	85·7	—1·6	96	26	75·1	—0·3	73	7 days	79·1	81·9	77·4	78·4	31·6	+0·3	31·6	92	+5	
Mohanbari (R)	364																					
Sibsagar	317	993·5	+1·8	990·0	88·7	—0·5	96	26	77·6	—0·1	75	1,13,23	82·4	84·6	78·4	79·7	31·3	—1·2	32·3	84	+3	
Tezpur	258	995·6	+1·8	991·8	88·1	—1·3	97	26	77·1	—0·5	75	4 days	81·2	85·3	78·6	80·1	32·4	+0·2	33·1	89	+3	
Gauhati D. Type	162	997·9	...	994·6	87·7	...	96	24,25	78·0	...	75	1,12,15	82·2	83·8	78·9	79·5	31·9	...	32·3	86	...	
Gauhati	182	997·5	+2·0	993·2	87·6	-2·1	94	26	77·5	—0·7	74	1,12	82·4	84·4	78·9	79·2	32·1	—0·5	32·0	86	+3	
Dhubri	115	1000·1	+2·4	996·8	84·9	—1·1	90	7 day	78·0	—0·2	72	13	81·3	82·4	79·0	79·4	32·5	+0·2	32·9	91	+6	
Silchar	96	1002·4	+2·7	998·8	86·8	—3·4	99	24	75·7	—1.5	73	14	80·6	81·3	78·0	78·4	31·8	—0·6	31·7	90	+5	
Tura	1,215	963·3	...	960·2	83·7	...	93	25	74·5	...	71	2,4	78·6	81·0	76·8	78·6	30·4	...	32·2	92	...	
West Bengal																						
Dum Dum	33	1001·2	...	998·5	89·8	...	95	24,25	79·1	...	76	1	84·1	85·3	79·3	79·7	31·7	...	32·3	80	...	
Calcutta	21	1001·6	+2·2	998·8	90·0	+0·5	97	24	79·5	+0·9	76	1	84·1	85·6	80·3	80·6	33·6	+0·6	33·4	84	+1	
Saugor Island	10	1001·6	+2·0	999·7	87·8	+0·4	93	25	80·1	0	71	25	84·5	85·2	80·1	80·6	32·9	—0·5	33·7	82	0	
Sandheads	32	1000·9	+1·9	998·7	...	...	...	...	...	...	...	...	84·3	84·6	80·6	80·6	34·3	+0·5	33·9	84	+2	
Midnapore	149	997·0	+2·1	994·2	90·2	+0·5	95	18	77·5	—1·5	74	8	82·6	85·1	78·9	80·5	32·4	+0·3	32·8	85	+3	
Contai	35	1000·6	...	998·1	88·3	...	94	24,25	78·5	...	73	17	84·0	84·3	81·1	81·5	34·8	...	35·2	87	...	
Burdwan	106	998·1	+1·7	995·1	90·4	+0·3	96	24	78·2	—0·8	75	4 days	82·9	86·1	79·0	79·8	31·9	—0·9	31·6	83	—1	
Krishnagar	48	1000·8	+2·1	998·0	90·6	+0·7	95	24,25	77·8	—0·8	74	3	83·0	84·3	79·9	80·1	33·6	+0·4	33·5	87	+4	
Asansol	414	987·6	+2·6	984·6	89·5	—0.3	96	25	78·0	+0·2	74	2	82·6	85·5	78·5	79·7	31·6	—0·9	31·6	83	—2	
Berhampore	62	1000·4	+2·3	997·0	91·0	+1·3	96	24,25	78·4	—0·5	75	4 days	83·1	85·8	79·4	80·1	32·9	—0·5	32·7	85	+1	
Malda	103	999·0	+2·2	995·7	88·8	—0·9	97	25	79·0	0	74	3	83·5	85·8	79·4	80·0	32·6	—1·0	32·1	83	+1	
Cooch Behar	145	998·8	...	995·5	86·7	...	96	25	77·7	...	73	14	80·9	84·0	77·8	79·4	31·3	...	32·4	87	...	
Jalpaiguri	271	994·1	+1·8	990·8	86·3	—2·3	95	25	76·2	—1·1	73	3,14,15	79·7	84·3	76·9	79·2	30·0	—2·5	31·9	88	0	
Bagdogra	418	987·9	...	985·7	87·3	...	98	25	76·3	...	73	4,14	80·8	83·3	77·5	79·1	30·4	...	32·4	86	...	
Orissa																						
Balasore	65	999·6	+1·4	997·1	90·0	+0·9	95	11,29	78·5	0	73	12	83·1	84·5	79·5	79·6	32·8	+0·6	32·2	85	+3	
Chandbali	20	1001·2	+1·9	998·6	89·6	+1·4	94	5,29	78·5	+0·4	75	1,12	83·2	84·1	80·2	79·5	33·8	+1·4	32·5	84	0	
Puri	20	1001·5	+1·6	999·1	88·1	+0·8	92	25	80·7	+0·9	76	18	84·7	84·6	80·4	80·6	33·2	+0·4	33·9	83	+1	
Cuttack	87	999·0	+1·2	996·1	89·3	—0·2	95	5	78·8	+0·5	75	2,17,18	83·1	84·6	79·1	79·2	32·1	+0·8	31·5	83	+3	
Gopalpur	56	1000·7	+1·8	998·0	87·5	—0·2	91	29	79·5	+0·4	76	6	83·8	83·8	79·8	80·1	33·0	+1·0	33·8	84	+3	
Koraput	2,996	904·4	...	902·1	80·1	...	85	10,15,17	69·8	...	67	26	73·7	74·8	71.0	71·6	25·1	...	25·4	89	...	
Angul	455	986·7	+1·6	983·7	90·8	+2·6	95	3,5,14	77·4	+0·2	75	7,8	82·1	85·0	77·8	78·7	31·8	+1·7	31·1	82	+2	
Sambalpur	486	985·4	+1·5	982·2	90·5	+3·3	94	4 days	77·6	+0·5	73	7,8	81·7	85·9	78.1	79·9	31·6	+1·4	32·4	85	+1	
Jharsuguda	726	977·1	...	973·9	...	...	...	...	...	...	...	...	82·6	84·3	78·3	78·9	31·0	...	31·1	82	...	
Titilagarh	691	979·0	...	975·3	90·9	...	95	5 days.	76·5	...	72	8	82·1	84·3	76·5	77·6	28·8	...	29·6	75	...	
Chota Nagpur																						
Purulia	835	973·8	...	970·8	89·1	...	96	25	76·8	...	71	4	81·5	83·8	77·5	78·4	30·4	...	30·6	83	...	
Jamshedpur	423	987·4	+2·4	984·4	89·9	+0·6	95	11,25	78·4	—0·2	74	6,12	82·2	84·6	77·3	78·6	29·6	—1·5	30·7	80	—1	
Chaibasa	742	976·7	+2·4	973·6	89·1	—0·3	95	15	76·8	—0·7	72	6	80·8	84·6	76·8	78·5	29·9	—0·3	31·0	83	+2	
Ranchi	2,150	930·3	+2·4	927·5	85·6	+1·2	90	6 days.	72·5	—0·8	67	7	76·9	79·8	73·8	75·0	27·4	+0·1	27·4	87	+2	
Hazaribagh	2,006	934·7	+2·0	932·0	85·4	+0·2	93	25	73·3	—0·7	70	3,4,7	78·1	82·2	74·3	76·0	27·4	+0·4	28·4	83	—2	
Daltonganj	725	976·5	+1·9	973·2	90·6	—0·5	98	15	78·0	—0·1	72	6	83·9	87·6	78·0	79·1	29·9	0	30·1	77	—3	
Dhanbad	839	973·0	...	970·1	88·9	...	96	25	75·8	...	71	26	81·7	83·8	77·5	78·4	30·6	...	30·6	82	...	

(c) Mean of 28 days.

(d) Mean of 27 days.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	
																														Bay Islands
7·0	+0·4	6·7	26·19	+10·76	3·57	28	24	+3·5	9·1	—6·8	0	0	0	1	4	19	5	1	1	0	0	0	0	4	14	11	1	1	Port Blair
																														Assam
7·9	+1·3	7·0	17·28	—3·84	2·37	27	24	+2·7	1·6	+0·6	10	7	4	1	0	1	0	5	3	2	8	6	0	2	0	1	1	11	Dibrugarh
																													Mohanbari (R)
7·7	+0·5	7·1	19·75	+1·76	4·72	27	21	+1·3	4·0	+1·8	3	4	2	3	7	5	1	1	5	9	7	1	1	5	3	0	4	1	Sibsagar
6·7	+0·1	4·9	9·72	—3·97	1·26	2	17	+0·1	1·0	—0·7	0	2	10	4	0	4	5	0	6	0	1	7	0	1	6	6	1	9	Tezpur
6·5	...	5·5	15·34	...	4·05	12	13	...	2·2	...	5	5	3	0	1	3	4	6	4	0	6	0	0	2	6	0	4	13	Gauhati D. Type
6·4	0	5·3	14·25	+1·97	3·72	12	11	—4·3	2·0	+0·6	1	7	4	4	1	5	5	0	4	1	3	2	2	2	12	1	1	7	Gauhat
6·5	+0·5	6·3	29·55	+12·36	5·99	12	19	+2·9	3·3	—0·4	2	6	4	4	6	3	2	0	4	1	4	3	4	5	4	1	0	9	Dhubri
7·0	+0·8	6·4	15·32	—5·20	2·22	20	24	+1·3	1·3	—0·4	3	5	2	3	0	0	0	0	18	2	2	1	2	2	3	4	4	11	Silchar
7·3	...	7·7	35·22	...	9·02	12	21	...	5·1	...	1	2	1	4	8	11	0	0	4	0	1	1	2	11	13	1	0	2	Tura
																														West Bengal
6·8	...	6·8	8·02	...	1·73	5	17	...	8·7	...	0	2	5	3	8	12	1	0	0	0	2	1	6	9	10	0	3	0	Dum Dum
6·6	—0·4	6·7	12·91	+0·10	4·38	18	16	—1·5	4·9	+1·2	0	2	4	4	5	13	2	0	1	0	1	0	7	9	8	1	0	5	Calcutta
5·9	—1·1	5·7	10·37	—5·07	5·78	29	11	—5·5	18·1	+6·0	0	1	4	4	3	16	2	1	0	0	1	3	5	9	12	1	0	0	Saugor Island
6·5	+0·3	6·2	7·52	—3·43	2·95	29	11	—1·7	...	...	0	1	2	3	3	20	1	0	1	0	1	3	4	1	22	0	0	0	Sandheads
5·7	—0·1	6·8	12·53	—0·21	1·78	18	17	+0·7	4·6	+2·1	0	3	4	2	5	12	1	0	4	0	0	3	4	13	6	0	0	5	Midnapore
5·4	...	4·9	8·11	...	1·68	1	13	...	10·2	...	1	0	2	8	5	11	1	1	2	0	1	1	7	14	8	0	0	0	Contai
3·6	—3·0	3·9	11·60	—1·20	3·40	1	12	—4·0	6·5	+3·9	0	2	2	6	12	9	0	0	0	0	1	3	5	11	8	0	0	3	Burdwan
6·2	—0·4	6·5	10·24	—1·01	1·76	15	17	+0·7	5·6	+2·0	0	2	5	2	18	3	1	0	0	0	1	8	3	18	1	0	0	0	Krishnagar
6·3	—0·5	7·2	15·19	+1·50	4·11	12	14	—3·7	5·3	+0·4	1	1	7	3	10	6	2	1	0	0	2	7	7	5	3	2	1	4	Asansol
7·4	+0·7	6·8	10·27	—0·60	2·20	1	15	—1·1	3·7	+0·3	1	0	8	3	14	3	0	0	2	1	0	9	4	16	0	0	0	1	Berhampore
6·9	+1·1	6·3	9·68	—1·80	2·12	2	11	—3·8	5·8	+0·5	2	2	6	7	10	3	0	1	0	0	1	8	9	7	4	0	0	2	Malda
(c) 7·5	...	(d) 6·6	(c) 37·27	...	...	...	...	...	(c) 3·3	...	0	5	8	1	5	1	0	0	8	1	0	6	5	6	0	0	1	8	Cooch Behar
6·8	+1·5	6·0	37·12	+4·90	7·89	28	18	—4·3	4·6	+2·6	2	9	13	2	1	0	1	0	3	0	5	9	7	2	2	3	1	2	Jalpaiguri
7·0	...	6·2	37·00	...	4·99	14	24	...	3·5	...	0	11	12	1	1	0	0	0	6	1	4	6	1	2	0	0	0	17	Bagdogra
																														Orissa
7·6	+1·7	7·4	15·72	+3·92	2·82	25	17	+2·9	7·8	+3·5	0	3	2	3	7	12	1	1	2	1	0	4	5	11	6	1	0	3	Balasore
6·6	+0·2	5·8	17·47	+0·73	3·90	13	17	+0·2	(i) 8·1	+1·0	1	4	1	4	1	18	1	1	0	0	1	1	12	3	8	2	1	2	Chandbali
6·2	+0·4	6·3	7·70	—2·62	1·46	25	12	0	16·3	+5·0	2	2	2	2	1	16	4	1	1	1	1	2	3	1	19	2	2	0	Puri
4·3	—1·4	6·3	17·82	+4·93	4·31	31	16	+0·1	4·4	+1·8	1	4	0	0	1	8	1	0	16	0	1	1	4	3	8	0	0	14	Cuttack
5·9	+0·9	6·0	6·25	—0·91	1·68	26	12	+2·3	11·5	+2·6	3	2	1	0	8	11	1	2	3	2	2	3	1	7	10	3	1	2	Gopalpur
6·1	...	7·0	24·89	...	9·16	25	15	...	...	...	4	1	1	0	1	11	12	1	0	9	1	1	1	2	2	12	3	0	Koraput
6·6	+0·3	7·1	13·49	+1·02	2·44	1	17	+1·8	5·0	0	4	3	3	5	3	1	6	3	3	3	4	3	3	6	6	4	1	1	Angul
5·5	—1·1	6·1	9·82	—10·74	1·75	8	19	—0·6	5·1	+1·2	1	3	3	0	11	10	2	0	1	3	3	3	0	8	7	4	1	2	Sambalpur
6·6	...	7·3	12·02	...	2·53	7	17	...	...	...	1	2	3	2	4	11	1	1	6	1	4	1	1	3	6	2	1	12	Jharsuguda
5·5	...	6·3	16·03	...	5·00	26	17	...	3·5	...	3	2	1	3	9	10	1	1	1	3	2	1	0	3	6	2	3	11	Titilagarh
																														Chota Nagpur
6·3	...	7·2	17·87	...	5·84	6	18	...	4·3	...	0	2	4	5	4	10	2	1	3	0	1	2	9	1	11	1	2	4	Purulia
6·4	—0·7	7·1	11·52	—1·64	3·08	6	16	—1·4	6·0	+1·8	0	2	7	1	0	5	11	3	2	2	1	7	5	1	7	7	1	0	Jamshedpur
7·2	+0·7	7·5	8·63	—4·48	0·86	6	15	—1·2	2·7	+0·2	0	5	1	1	0	13	0	0	11	0	4	2	3	1	9	1	1	10	Chaibasa
5·7	—0·9	6·6	10·73	—4·72	1·65	29	15	—3·5	4·8	—0·2	1	1	2	0	6	4	0	1	16	0	0	4	0	6	1	2	1	17	Ranchi
6·7	—0·4	6·6	13·32	+0·29	4·33	29	12	—5·8	6·7	+0·6	0	1	6	2	2	14	2	3	1	0	1	7	5	3	5	2	4	4	Hazaribagh
6·0	+1·0	6·4	7·26	—6·14	1·42	7	11	—4·6	4·5	+0·9	0	2	6	3	2	6	4	1	7	1	1	7	3	2	2	8	1	6	Daltonganj
6·8	...	7·2	12·98	...	2·40	12	24	...	6·9	...	0	5	6	1	3	9	6	0	1	1	2	6		3	4	4	2	1	Dhanbad

(a) Mean of 30 days. Mean of 22 days

STATION.	Height of bar, cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Bihar																					
Purnea	124	998·2	+2·0	995·1	88·3	—1·3	96	25	78·2	—0·5	74	3,16	82·3	84·7	79·2	80·7	32·8	—0·4	34·0	87	+2
Darbhanga	161	996·5	+2·0	993·3	89·3	—0·4	97	15	78·1	—1·3	73	6	82·9	87·4	79·7	81·7	33·5	+0·9	34·7	87	+4
Motihari	218	994·6	+2·1	991·0	89·2	—1·0	96	25	78·2	—0·4	74	15,19	83·0	85·8	79·0	80·2	32·0	—0·8	32·9	84	+3
Patna	173	995·5	+1·9	992·2	90·1	—0·6	97	15,16,25	79·3	—0·6	73	3	83·1	87·7	78·8	80·5	31·4	—1·8	32·6	82	+1
Dehri	352	988·7	...	985·6	91·0	...	99	15,16	79·7	...	72	7	83·5	87·8	78·9	80·6	31·8	...	32·7	81	...
Gaya	365	988·4	+1·7	985·0	92·3	+0·2	99	4 days	79·6	+1·0	71	7	83·9	88·9	78·4	79·7	30·7	—0·1	30·8	78	+3
Jamui	270	992·1	...	988·9	90·4	...	99	25	79·1	...	75	3,12,29	83·8	87·1	79·4	80·0	32·2	...	31·9	82	...
Dumka	489	985·4	+2·1	982·2	89·5	+0·1	97	25	...	...	...	...	82·7	85·2	78·6	77·7	31·7	—0·1	29·0	82	0
Sabour	122	997·7	+2·2	994·3	90·0	—0·3	96	25	79·3	—0·1	75	3	83·3	86·5	80·1	81·3	34·0	+0·4	34·5	87	+4
Bhagalpur	181	996·1	...	992·8	90·5	...	98	25	79·5	...	75	2,3	84·0	87·2	79·8	80·6	33·2	...	32·8	83	...
U. P., East																					
Gonda	360	988·5	...	985·2	91·7	+0·4	103	14	79·7	+0·3	75	20	84·1	88·8	79·3	81·0	31·6	—1·2	32·9	81	—1
Gorakhpur	254	992·2	+1·3	988·6	90·4	—0·5	97	25	79·1	0	71	17	83·9	88·0	79·2	80·0	32·4	—0·4	32·9	80	—3
Azamgarh	255	991·1	...	988·9	91·5	...	99	15,16,26	79·1	...	74	18	83·3	89·2	79·8	82·1	32·8	...	34·1	83	...
Banaras	250	991·6	+1·1	988·6	93·3	+1·1	101	16,17,25	80·2	+0·5	72	3	85·1	90·4	80·0	80·8	32·7	+0·5	31·2	79	—1
Allahabad (Bamrauli)	322	989·0	+1·0	985·8	94·7	+2·6	105	12	81·1	+1·3	72	3	86·4	91·8	80·4	81·1	32·3	0	31·9	77	—2
Fatehpur	375	987·2	...	983·7	96·5	+3·4	105	12,16	81·6	+1·9	76	1,3,4	86·1	90·5	79·8	80·7	31·5	—1·7	31·6	76	—5
Banda	398	986·4	...	983·1	97·1	...	108	12	81·7	...	73	3	86·7	92·8	80·7	82·9	33·4	...	34·0	76	...
Orai	463	983·5	...	980·5	99·9	...	111	12	82·5	...	75	4	88·2	95·2	76·0	83·1	25·2	...	33·1	67	...
Kanpur	414	986·3	+1·6	982·4	98·6	+6·2	109	12	82·4	+2·5	77	4	87·5	95·9	79·3	79·7	30·5	—1·5	29·3	69	14
Lucknow	371	987·5	+1·2	984·7	98·0	+5·6	107	12,16,18	80·0	+0·5	77	4,7	87·8	94·2	81·4	82·7	33·8	+1·6	32·7	75	+6
Hardoi	467	984·9	...	982·9	(a) 97·2	...	107	18	81·3	...	73	19	85·6	94·2	79·1	80·3	31·5	...	28·6	74	...
Kheri	483	984·3	...	980·6	95·0	...	105	17	79·7	...	75	19	85·1	91·5	79·2	79·9	31·1	...	29·2	77	...
Bahraich	407	987·3	+2·1	983·7	94·2	+2·3	106	14	80·4	+1·3	74	20	85·1	91·1	79·1	79·9	31·1	—0·9	30·0	76	—4
U. P., West																					
Jhansi	823	972·7	—1·2	968·9	96·7	+4·0	105	11,12,20	82·1	+3·5	74	4	86·0	93·9	79·3	79·7	29·9	+0·3	28·6	72	—4
Agra	553	981·0	+1·2	977·7	99·7	+5·9	109	19	81·3	+0·9	70	27	87·5	96·9	78·4	79·7	28·7	—1·8	26·8	66	—8
Mainpuri	516	982·6	+1·4	978·4	101·8	+6·7	111	12,19	82·6	+2·3	75	20	89·0	97·5	79·5	80·0	31·7	+0·2	26·4	66	—10
Aligarh	615	978·8	...	977·2	100·7	+6·5	110	18	81·5	+1·5	75	3,4	88·4	97·7	79·2	80·9	29·8	—1·6	28·4	69	—9
Bareilly	568	980·6	+0·8	977·2	98·4	+6·3	108	17	81·1	+2·2	73	19	87·5	94·0	80·2	79·7	31·0	—1·0	27·8	72	—10
Meerut	728	975·5	+1·4	...	97·5	+4·1	105	17,18	79·8	+0·3	75	4 days	85·1	...	78·7	...	30·3	+0·5	...	75	0
Roorkee	899	969·8	+1·1	966·3	96·1	+4·0	104	13	78·5	+0·4	71	14	84·0	91·5	77·9	79·8	30·0	+0·2	20·3	77	—1
Dehra Dun	2,239	926·7	+1·5	924·0	89·5	+3·0	96	18	74·0	+0·2	68	25	80·5	86·3	74·5	76·7	26·9	—0·2	26·9	76	—8
Punjab (I)																					
New Delhi	710	975·5	+1·3	971·8	100·4	+5·1	108	12,18,19	82·5	+1·6	75	1	88·6	94·1	78·1	79·4	28·5	—2·1	27·8	63	—11
Hissar	725	(a) 975·0	+1·4	971·6	104·4	+4·8	111	11,18	83·7	+2·5	77	29	89·2	101·3	79·0	80·8	29·3	—0·1	26·2	63	—4
Karnal	818	972·1	...	968·4	98·9	...	109	18,19	78·9	...	70	4	85·2	95·8	77·5	77·0	28·8	...	23·0	73	...
Ambala	892	968.8	+0·3	965·7	102·4	+6·9	112	19,20	81·4	+2·3	75	4,5	86·2	98·6	79·0	80·7	30·7	+0·4	27·8	70	—6
Patiala	822	971·5	...	967·7	101·9	...	113	1	81·4	...	73	3,4	86·6	97·4	77·6	79·4	28·7	...	25·7	67	...
Ludhiana	810	971·9	+1·0	968·8	102·1	+4·8	111	12,18,19	80·9	+0·6	73	4	88·2	98·5	77·4	79·0	26·7	—2·4	25·5	60	—12
Ferozepore	657	977·3	...	973·9	100·7	...	109	18	80·6	...	71	4	87·6	98·9	76·7	78·9	25·7	...	24·7	61	...
Amritsar	756	973·4	...	970·5	98·4	...	107	1	77·6	...	69	3	85·2	96·1	76·5	78·1	27·3	...	24·6	67	...
Jammu and Kashmir																					
Srinagar	5,205	837·0	+2·8	834·1	82·8	—5·0	94	1	61·0	—3·3	54	6	68·8	79·4	63·0	66·1	17·5	—2·9	16·6	74	—5
Gulmarg	8,709	738·3	+2·0	...	67·3	—3·4	78	1	45·3	—6·3	38	5,6	58·3	...	53·3	...	12·2	—1·9	...	74	0

(a) Mean of 30 days. (f) Mean of 25 days.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Bihar
6·7	+0·8	6·0	11·82	−2·50	4·03	2	15	−1·6	3·7	+1·1	1	1	19	3	2	1	0	0	4	0	0	13	2	1	0	0	0	15		Purnea
7·2	+1·1	6·5	20·58	+8·46	4·97	12	16	+2·1	2·3	−1·2	0	12	8	3	1	1	0	0	6	0	3	3	15	0	2	1	0	7		Darbhanga
6·8	+1·8	5·8	16·50	+1·50	5·25	18	16	+1·9	3·8	−0·7	0	1	22	2	0	0	1	0	5	0	0	12	0	1	0	0	0	18		Motihari
6·8	+0·2	5·1	12·42	+0·84	3·04	7	15	+1·3	5·5	+1·2	1	7	6	3	6	4	0	3	1	1	10	4	2	0	5	0	1	8		Patna
6·4	...	6·7	7·12	−4·40	1·60	7	13	−1·2	4·5	...	2	0	3	11	5	6	1	2	1	0	4	7	2	1	4	0	8	5		Dehri
6·9	+1·7	6·9	11·23	−1·98	3·45	29	10	−5·8	7·5	+1·8	0	0	10	2	7	6	2	2	2	2	4	7	3	1	6	3	4	1		Gaya
6·5	...	6·8	13·34	...	4·82	29	12	...	4·0	...	2	4	9	5	0	2	2	5	2	0	5	8	5	0	1	0	7	5		Jamui
3·7	−2·1	4·8	23·03	+9·21	4·05	2	15	−3·0	...	...	2	1	8	5	1	9	4	0	1	1	2	7	6	3	7	5	0	0		Dumka
6·8	+0·1	6·4	12·37	+2·41	3·73	2	13	−2·1	5·5	−0·5	1	1	7	12	4	3	0	3	0	0	5	10	5	3	3	2	1	2		Sabour
6·7	...	5·8	10·81	...	2·64	2	16	...	4·5	...	1	2	11	5	5	4	1	2	0	0	1	8	14	1	1	3	0	3		Bhagalpur
																														U. P., East
5·0	−1·1	4·6	3·97	−10·70	1·47	14	9	−5·0	4·9	+1·2	0	0	24	0	0	0	1	0	6	0	0	20	1	1	0	1	0	8		Gonda
5·4	+0·6	4·8	5·50	−8·13	1·41	17	10	−4·3	2·8	+0·5	1	1	20	2	1	1	0	0	5	2	4	11	3	1	4	0	2	4		Gorakhpur
5·7	...	4·0	7·31	...	1·38	18	12	...	...	...	0	0	10	0	0	2	2	0	17	0	1	11	2	0	0	0	0	17		Azamgarh
(c) 5·9	−0·4	(c) 6·0	5·53	−6·28	1·74	31	8	−6·3	6·9	−3·4	0	1	11	4	4	8	0	1	2	1	3	9	2	0	5	6	4	1		Banaras
6·3	−0·2	6·5	7·60	−4·96	6·12	1	6	−9·2	5·2	+0·4	0	4	8	2	3	8	5	1	0	3	6	5	3	3	6	3	1	1		Allahabad (Bamrauli)
5·0	−0·6	4·6	7·14	−5·39	4·29	3	6	−7·9	4·2	+0·6	0	1	7	2	0	6	6	3	6	0	0	6	1	2	3	0	2	17		Fatehpur
3·4	...	4·3	11·58	...	6·26	3	10	...	3·8	...	1	0	7	0	2	3	12	0	6	0	2	6	2	1	2	15	0	3		Banda
4·5	...	6·3	2·56	...	1·13	3	6	...	8·0	...	0	1	6	5	2	7	8	2	0	5	2	4	6	4	3	4	3	0		Orai
4·9	+0·5	5·4	2·21	−8·54	1·60	21	4	−8·5	8·4	+1·1	2	4	8	1	1	5	6	2	2	4	4	8	2	1	3	5	4	0		Kanpur
4·1	−1·7	4·5	2·98	−9·02	1·46	31	3	−10·4	3·9	+1·7	2	3	11	4	3	6	2	0	0	2	1	14	2	4	6	2	0	0		Lucknow
3·0	...	3·1	3·88	...	1·40	30	6	...	4·9	...	0	1	9	11	1	6	3	0	0	5	5	9	4	2	1	0	5	0		Hardoi
4·9	...	4·7	4·88	...	2·53	19	6	...	3·3	...	0	0	12	16	1	0	1	0	1	0	2	13	4	0	0	5	3	4		Kheri
5·5	+1·0	5·2	2·62	−9·62	1·46	19	3	−8·9	5·8	+3·0	0	0	14	13	1	1	0	0	2	3	0	12	12	0	2	0	2	0		Bahraich
																														U. P., West
3·5	−1·2	4·4	6·25	−5·56	2·66	2	5	−8·8	3·5	−0·7	1	1	3	1	0	5	11	1	8	0	0	0	0	0	2	14	5	10		Jhansi
2·7	−2·6	3·2	4·18	−2·93	1·25	21	7	−3·3	3·4	−0·5	0	1	4	1	2	1	3	0	19	1	1	4	1	0	2	2	1	19		Agra
4·7	−0·6	4·2	3·81	−3·73	2·23	20	4	−6·4	...	...	0	1	5	6	2	2	6	2	7	1	2	4	3	0	2	9	3	7		Mainpuri
4·0	−0·8	3·7	1·68	−3·71	0·74	30	5	−5·3	...	...	0	0	13	0	1	0	6	1	10	1	1	9	0	1	0	4	4	11		Aligarh
4·5	−1·3	5·4	3·86	−9·10	2·39	23	5	−7·8	4·1	+1·9	0	0	15	9	1	1	2	1	2	3	0	16	1	1	0	7	2	1		Bareilly
4·0	−2·1	...	13·77	+5·18	5·03	30	9	−1·3	4·7	...	0	4	8	4	2	0	1	0	12	...	...	...	...	...	...	...	...	...		Meerut
4·1	−1·0	3·9	6·52	−5·78	1·74	14	9	−2·9	(f) 3·6	+1·1	0	0	0	23	0	0	0	2	6	1	0	0	11	0	0	0	4	15		Roorkee
4·7	−2·3	4·0	14·33	−11·97	3·83	1	13	−7·3	2·0	+0·4	1	2	0	2	0	6	2	0	18	1	3	1	1	2	2	1	4	16		Dehra Dun
																														Punjab (I)
4·3	−1·7	4·1	4·83	−2·20	2·93	1	4	−5·0	7·3	...	0	1	5	10	1	1	7	3	3	4	4	9	3	1	0	3	4	3		New Delhi
4·6	−1·2	1·5	1·51	−2·77	1·38	29	2	−4·0	6·8	+1·3	2	1	3	5	3	6	6	3	2	1	2	3	4	1	6	7	5	2		Hissar
3·9	...	3·2	3·15	...	1·20	30	5	...	3·9	...	2	2	4	9	4	2	1	4	3	0	5	3	8	0	2	7	4	2		Karnal
4·4	−2·4	2·3	4·08	−4·53	2·57	30	5	−5·6	6·9	−3·8	0	2	4	10	0	0	0	5	10	0	0	5	6	0	2	1	5	12		Ambala
4·7	...	3·2	3·53	...	1·15	31	6	...	6·1	...	1	2	1	19	0	0	0	8	0	5	0	1	11	0	0	0	13	1		Patiala
4·0	−0·9	4·0	8·34	+0·27	3·19	29	7	−1·4	2·3	+0·3	0	0	6	7	3	0	0	1	14	0	1	1	2	1	1	3	4	18		Ludhiana
4·5	...	1·9	7·92	...	4·71	29	3	...	...	...	1	1	1	6	1	1	1	4	15	2	1	0	1	0	3	1	7	16		Ferozepore
4·0	...	1·7	5·79	...	1·65	29	8	...	8·3	...	5	3	6	9	4	1	0	1	2	0	4	4	4	3	3	4	8	1		Amritsar
																														Jammu and Kashmir
4·9	−0·5	4·1	1·31	−1·02	0·71	18	2	−2·9	2·0	−0·5	2	2	3	5	1	1	3	7	7	2	0	3	2	1	1	3	4	15		Srinagar
4·1	−0·7	...	3·14	−0.92	1·04	18	7	−1·9	3·6	+0·4	2	3	4	6	2	1	3	1	9	...	...	...	...	...	...	...	...	...		Gulmarg

(c) Mean of 28 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS I. S. T. (0300 HRS. G. M. T.

STATION.	Height of bar, cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature °F.		Vapour pressure, millibars.			Relative humidity, %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Jammu and Kashmir—*contd.*																					
Dras (R)	10,059																				
Leh	11,529	665·5	+0·9	662·3	70·9	−5·5	81	1	46·6	−3·7	40	5,6,7	57·3	67·1	45·6	50·0	6·8	−2·3	7·0	42	−11
Skardu (R)	7,505																				
Gilgit (R)	4,890																				
Misgar (R)	10,190																				
Rajasthan, West																					
Sri Ganganagar	580	978·9	...	975·7	102·3	+0·2	109	11,12,21	82·7	+0·2	74	29	90·7	99·1	77·1	78·6	26·1	−1·1	23·9	55	−5
Bikaner	734	974·6	+1·4	970·7	104·6	+0·3	112	11,23	84·9	+2·5	76	28	88·9	99·7	74·8	77·3	23·3	−4·9	22·0	51	−15
Jaisalmer	793	972·7	...	968·9	104·2	...	113	23	80·5	...	76	12	84·3	101·2	75·7	77·6	26·3	...	21·5	68	...
Jodhpur	736	975·9	+3·0	972·3	100·0	+3·1	109	23	82·6	+2·4	74	29	85·7	96·9	76·6	77·7	27·6	+0·1	24·1	65	−7
Phalodi	783	973·1	...	970·1	101·5	...	110	23	82·6	...	77	21	85·6	101·0	79·8	83·0	32·3	...	30·3	74	...
Barmer	638	979·1	+2·1	975·3	102·0	+5·5	111	23	81·1	+2·2	77	25,29	84·5	99·5	79·4	84·3	32·7	+3·3	33·0	79	+3
Rajasthan, East																					
Sikar	1,419	952·8	...	949·3	100·2	...	108	10,11	80·3	...	73	29	86·0	97·4	77·5	81·3	28·3	...	28·8	67	...
Jaipur	1,431	952·6	+0·9	949·1	99·3	+5·1	108	11	80·1	+1·9	75	27,28,29	86·0	96·5	75·8	76·8	26·1	−1·8	23·3	62	−11
Ajmer	1,593	947·6	+1·2	944·2	97·2	+5·5	105	11	81·3	+2·9	74	29	84·1	95·3	74·1	75·0	24·1	−3·0	19·9	62	−12
Kotah	843	972·1	+1·2	968·9	96·7	+2·8	110	13	82·5	+2·6	76	16,27	86·9	93·3	77·0	77·3	27·1	−1·0	24·4	61	−9
Jhalawar	1,053	966·0	+1·6	962·3	96·8	+6·8	108	9,11,12	79·1	+2·4	75	27	83·1	91·0	76·4	77·2	28·2	−1·0	25·3	73	−8
Udaipur	1,910	938·0	+1·2	935·7	91·0	+1·8	98	10	75·2	−0·6	70	26	80·9	84·5	73·7	74·8	25·5	−0·4	25·8	70	−6
Madhya Bharat																					
Gwalior	681	976·6	...	973·2	100·3	...	110	12	82·9	...	73	4	89·4	96·0	77·7	78·3	27·1	...	25·0	58	...
Sheopur Kalan	771	...	...	...	99·0	...	108	11	80·8	...	76	18,20	85·5	94·2	77·7	79·1	28·9	...	27·0	70	...
Guna	1,571	948·3	+1·0	945·5	93·6	+5·6	103	11	77·0	+1·8	72	5	81·9	88·7	76·2	77·6	28·5	+0·5	27·8	78	−5
Neemuch	1,626	947·2	+1·1	944·8	93·4	+5·4	102	9	76·5	+1·9	71	9	80·3	88·2	74·5	75·2	26·8	−0·3	24·5	76	−4
Ratlam	1,596	948·3	...	946·3	88·9	...	95	9	74·8	...	68	9	76·9	84·0	74·7	76·9	28·3	...	28·7	90	...
Indore	1,839	940·8	+0·9	937·8	88·5	+2·6	97	12	73·5	+1·0	71	7,8,9	77·4	83·4	74·0	74·8	27·3	−0·3	26·0	85	−2
Bhopal (Bairagarh)	1,714	944·5	+0·9	941·3	91·2	+5·6	100	11	74·9	+0·8	71	3	79·1	86·5	73·8	75·2	26·3	−1·2	25·3	78	−8
Madhosagar	757	974·1	...	970·7	99·7	...	108	12	83·3	...	75	1	87·8	96·3	77·3	77·6	27·2	...	23·8	62	...
Vindhya Pradesh																					
Nowgong	750	974·9	+0·9	971·5	95·8	+4·8	104	12	79·8	+1·2	71	3	85·5	92·1	77·8	78·7	29·1	−0·9	27·4	71	−8
Sutna	1,041	965·1	+1·2	962·1	92·0	+3·2	100	12	79·6	+2·2	73	2,3,4	83·2	89·1	77·3	80·6	29·3	−0·1	31·6	76	−3
Umaria	1,506	949·4	...	947·4	89·3	+2·8	97	13	...	...	...	...	81·2	86·2	75·4	77·0	27·7	−1·0	25·1	77	−6
Madhya Pradesh, East																					
Gondia	1,026	967·7	...	965·3	90·2	...	99	11	76·0	...	73	6 days	80·8	85·4	76·2	78·1	28·8	...	29·6	80	...
Pendra	2,040	933·1	+1·2	930·7	85·8	+2·3	92	25	73·2	+0·8	69	8	77·8	80·0	74·4	74·8	27·7	+0·7	27·3	85	+1
Ambikapur	1,989	935·4	...	932·6	86·0	...	91	16,21,22	73·5	...	69	3,4	78·0	82·5	73·6	75·0	26·3	...	26·3	83	...
Raigarh	723	977·1	...	974·3	91·4	...	96	7	77·3	...	73	7	82·1	85·5	77·0	78·9	29·4	...	30·3	79	...
Champa	805	974·6	...	971·4	91·7	...	97	6,7,25	77·7	...	74	8	81·7	86·8	77·0	77·9	29·5	...	28·6	80	...
Raipur	979	968·5	+0·8	965·8	90·4	+3·7	97	6	76·4	+1·4	70	8	80·9	85·8	75·9	76·7	28·4	−0·2	27·0	79	−5
Kanker	1,318	958·1	+1·4	955·3	87·9	+3·9	94	15	76·4	+2·5	72	7,31	80·7	84·3	75·0	76·8	27·1	+0·1	28·1	75	−7
Chanda	634	981·4	+0·6	977·9	93·5	+5·1	99	12	(c) 77·4	+1·6	69	25	82·1	85·3	76·0	77·6	27·9	+0·1	28·8	75	−3
Sironcha	405	989·8	...	986·3	92·0	...	102	5	78·0	...	72	24	81·2	87·1	76·5	78·3	28·9	...	29·2	81	...
Jagdalpur	1,815	942·1	+0·8	939·5	85·3	+2·4	91	3,5,15	72·6	+0·7	68	8	77·2	79·6	73·9	74·8	27·3	+0·6	27·5	85	+1

(R) Register not received.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																		STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Jammu and Kashmir—*contd.*
																													Dras (R)
4·1	+0·4	1·4	0·86	+0·39	0·59	·29	2	+0·6	4·1	+2·2	0	0	0	1	0	2	0	0	28	1	1	0	0	3	14	3	0	9	Leh
																													Skardu (R)
																													Gilgit (R)
																													Misgar (R)
																													Rajasthan, West
0·7	−1·4	0·9	3·84	−1·64	1·64	29	3	−1·3	5·7	−1·8	1	1	5	4	1	11	5	0	3	5	4	3	0	0	7	4	6	2	Sri Ganganagar
0·7	−2·2	1·3	1·05	−2·25	0·65	28	3	−1·9	8·2	+1·2	0	2	0	3	0	13	2	10	1	0	3	2	2	0	15	1	7	1	Bikaner
2·1	...	1·9	0·55	...	0·40	24	2	...	18·2	...	0	3	0	0	0	27	0	1	0	0	4	1	3	1	21	0	0	1	Jaisalmer
3·8	−1·9	4·0	2·25	−1·72	0·85	29	5	−0·5	8·2	−3·9	0	2	0	0	0	20	6	0	3	2	2	1	1	1	20	3	1	0	Jodhpur
1·8	...	2·1	0·31	−2·40	0·31	21	1	...	15·0	...	0	2	0	1	3	12	12	1	0	1	4	2	0	4	13	5	2	0	Phalodi
4·4	−1·0	4·5	0·54	−2·71	0·25	25	2	−2·0	9·6	+0·4	0	1	0	2	4	12	9	2	1	0	1	2	2	5	15	1	0	5	Barmer
																													Rajasthan, East
3·0	...	4·8	1·34	...	0·55	19	4	...	2·0	...	0	0	2	3	4	8	4	2	8	1	4	1	2	0	8	6	9	0	Sikar
3·5	−1·7	4·7	3·07	−4·67	2·03	28	5	−5·3	6·5	+1·5	3	0	2	3	1	1	2	15	4	4	0	3	6	0	0	4	12	2	Jaipur
3·8	−1·0	3·8	4·43	−1·98	2·03	28	6	−2·9	10·2	+4·2	0	2	1	2	0	15	9	0	2	1	2	1	2	0	9	11	4	1	Ajmer
4·3	−1·0	6·1	6·05	−2·50	3·12	27	5	−6·1	6·4	+2·4	0	0	1	1	0	5	13	2	9	1	1	5	1	2	6	10	2	3	Kotah
3·3	−3·3	4·9	4·66	−7·02	2·05	27	9	−4·5	6·9	+2·0	0	2	1	0	1	7	16	1	3	2	2	4	1	1	6	5	6	4	Jhalawar
4·9	−0·5	6·5	7·78	−0·77	1·54	27	15	+4·6	4·5	...	0	2	0	1	4	6	6	4	8	3	0	1	0	10	5	8	2	2	Udaipur
																													Madhya Bharat
5·2	...	5·5	3·07	...	1·50	1	4	...	4·3	...	2	1	5	2	1	6	11	3	0	3	7	3	1	1	3	5	6	2	Gwalior
...	...	...	3·92	...	0·97	2	8	...	...	...	1	2	0	6	8	7	4	2	1	3	6	1	1	7	3	5	3	2	Sheopur Kalan
4·8	−1·0	6·1	7·38	−6·97	2·12	2	8	−7·5	7·9	+1·0	0	1	1	0	2	6	18	3	0	8	2	1	0	2	7	6	5	0	Guna
5·0	−0·8	6·8	6·67	−2·80	3·25	27	8	−2·6	9·2	+0·4	0	1	1	0	0	12	15	1	1	3	4	2	0	0	9	11	2	0	Neemuch
7·1	...	7·2	12·94	...	2·95	27	11	...	7·5	...	1	1	0	0	0	9	17	3	0	4	0	0	1	1	6	13	6	0	Ratlam
6·5	−0·7	6·4	13·33	+2·21	5·31	26	14	+0·7	10·8	−1·7	2	0	1	0	1	5	17	5	0	1	1	1	2	2	10	8	6	0	Indore
5·9	−0·7	6·6	5·69	−14·04	2·04	27	8	−8·4	11·0	+1·0	0	1	1	0	2	8	12	7	0	4	1	2	2	3	9	5	4	1	Bhopal (Bairagarh)
5·1	...	5·8	3·23	...	1·08	4	7	...	9·8	...	1	2	5	2	2	7	9	2	1	3	6	4	0	1	6	4	5	2	Madhoragar
																													Vindhya Pradesh
5·3	−0·9	7·0	14·56	+0·75	7·80	1	9	−5·1	5·7	+2·6	0	1	4	1	2	16	2	1	4	2	7	3	0	0	10	3	4	2	Nowgong
5·3	−0·9	6·1	16·23	+1·98	5·38	1	11	−4·4	6·1	+1·0	1	2	2	1	1	6	11	1	6	0	3	6	1	0	3	2	2	14	Sutna
6·6	−0·4	7·0	8·69	−9·06	3·11	31	11	−9·1	4·5	+0·7	0	4	0	4	0	20	0	3	0	0	4	0	6	0	12	1	8	0	Umaria
																													Madhya Pradesh, East
4·9	...	5·5	12·32	...	3·25	25	13	...	3·6	...	3	1	1	7	1	8	1	3	6	4	2	2	1	0	10	7	3	2	Gondia
6·5	+0·7	7·2	12·82	+1·89	2·45	7	16	−2·9	5·4	+0·9	0	1	5	2	13	2	1	4	3	3	2	3	2	9	6	3	3	0	Pendra
4·9	...	5·8	6·83	...	2·57	1	10	...	7·1	...	2	3	2	2	2	14	5	0	1	3	1	4	3	2	10	7	0	1	Ambikapur
6·7	...	7·1	13·24	...	2·76	16	16	...	4·5	...	3	4	2	3	5	8	4	0	2	1	4	3	1	4	9	3	1	5	Raigarh
6·4	...	7·1	8·98	...	2·38	30	14	...	5·7	...	1	1	4	1	2	11	8	2	1	2	2	5	3	2	4	8	3	2	Champa
6·7	+0·3	7·4	10·19	−4·80	3·07	26	12	−4·0	7·8	−0·9	0	2	3	0	1	18	5	1	1	1	3	3	0	5	10	7	1	1	Raipur
6·5	−0·9	7·7	22·90	+7·18	11·38	31	14	−3·9	5·5	−0·5	0	0	0	0	1	12	7	1	10	1	2	0	0	1	10	6	0	11	Kanker
5·8	−0·4	6·9	11·29	−5·02	4·91	26	13	−3·9	3·6	−1·6	0	0	0	0	0	1	0	11	19	0	1	0	2	0	2	0	1	25	Chanda
6·2	..	6·4	19·42	...	5·52	21	15	...	4·5	...	2	0	1	4	6	6	5	6	1	3	3	1	4	2	6	7	4	1	Sironcha
6·3	−0·3	6·7	19·58	+4·45	2·99	26	18	−1·4	5·5	+1·2	1	0	0	0	10	11	1	3	5	0	3	0	7	0	12	0	4	5	Jagdalpur

(c) Mean of 28 days.

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Madhya Pradesh, West																					
Buldhana	2,133	932·1	...	929·4	85·6	...	93	7,11	72·2	...	68	19	73·7	81·5	71·1	74·1	25·0	...	25·7	88	...
Akola	925	971·6	+0·6	968·6	92·2	+3·1	102	11	76·7	+1·9	71	2,19,20	80·2	86·7	74·9	76·7	27·2	+0·8	26·8	77	—1
Amravati	1,213	961·7	+0·6	958·7	90·3	+2·8	100	11	75·8	+1·8	72	19	78·6	84·1	74·2	75·7	26·9	+0·5	26·5	81	0
Yeotmal	1,481	953·1	...	950·1	88·9	...	100	11	74·1	...	70	9	78·3	82·7	73·9	74·9	26·6	...	26·0	81	...
Khandwa	1,044	967·2	+0·6	963·8	91·2	+3·3	99	11	75·6	+0·3	71	9,19	79·7	86·1	75·6	77·4	28·4	+1·5	28·1	82	+2
Hoshangabad	992	968·0	+0·2	964·9	91·9	+5·8	98	8,11,19	75·4	+0·3	66	23	80·1	87·7	76·3	78·3	29·2	+0·9	28·8	83	—3
Sagar	1,808	940·8	+1·4	937·2	90·2	+4·3	99	11	76·0	+2·1	68	3	79·7	85·4	74·5	75·3	27·0	+0·3	25·9	79	—4
Jabalpur	1,289	957·9	+1·3	954·7	90·8	+4·4	99	11	76·4	+1·7	70	3	81·5	85·7	75·8	77·0	27·9	+0·4	27·7	77	—6
Mandla	1,452	952·7	...	949·9	90·7	...	97	10,11	74·5	...	71	2,3	79·0	84·1	75·3	76·6	28·3	...	27·9	84	...
Seoni (R)	2,027																				
Chhindwara	2,248	927·1	...	924·8	85·9	...	94	11	72·8	...	69	9	76·7	81·3	73·4	74·5	26·8	...	26·4	85	...
Betul	2,144	931·0	...	928·3	85·9	...	94	11	73·1	...	69	19	76·2	81·8	72·5	74·1	25·8	...	25·7	83	...
Nagpur	1,010	968·1	+0·7	964·9	91·3	+3·0	101	11	76·0	+0·5	72	22	80·9	86·3	75·8	76·9	28·2	+1·0	27·3	78	0
Gujarat																					
Deesa*	466																				
Surat	39	1001·9	+0·7	999·5	89·2	+2·0	95	9,11	79·7	+1·9	74	9	82·1	86·2	78·6	79·6	31·8	+0·8	31·5	85	+2
Ahmedabad	182	996·4	+1·0	992·6	97·2	+4·1	105	11	79·9	+1·7	75	9	83·1	95·2	78·8	81·1	31·7	+1·2	29·7	83	0
Dohad	1,093	965·8	...	962·8	89·9	+2·7	96	9	75·6	+0·2	71	9	79·1	87·0	75·5	77·0	28·5	—0·5	27·1	84	—4
Baroda	115	999·2	...	995·7	95·2	+5·4	102	9,11	79·7	+2·1	73	9	82·4	91·8	78·6	80·5	31·6	+0·8	30·4	84	—1
Broach	57	1001·2	...	998·2	93·3	...	100	9,11	79·6	...	74	9	81·9	88·8	79·8	82·7	33·8	...	35·4	90	...
Saurashtra and Kutch																					
Bhuj	343	990·0	+1·5	987·1	94·6	+3·8	103	23	80·3	+2·2	75	28	83·6	91·9	77·3	77·4	29·2	—0·9	25·5	74	—5
Dwarka	37	1000·9	+1·1	998·9	89·1	+2·4	97	25	81·3	+0·6	74	28	83·2	85·6	79·4	80·0	32·5	+0·7	32·4	82	—1
Jamnagar	74	999·8	+1·6	997·2	93·3	+2·7	101	25	79·5	—0·1	76	28	84·0	89·4	79·3	80·9	32·1	+0·6	32·2	81	0
Rajkot	432	987·4	+1·0	984·3	95·1	+3·9	100	7,11	78·3	+1·8	76	24,27,28	81·3	90·4	77·7	78·4	30·8	+1·5	27·7	85	+4
Veraval	26	1001·8	+0·3	1000·0	86·5	...	90	16,24	80·2	...	78	20,26	82·8	84·0	79·7	80·2	33·2	...	33·5	87	+2
Bhavnagar	55	1001·2	+1·3	998·1	95·6	+2·7	101	3	79·6	+1·2	75	9,27	82·7	90·8	77·4	78·7	29·7	+0·1	28·0	78	+2
Konkan																					
Dahanu	15	1003·4	...	1001·7	85·6	...	89	5 days	77·7	...	74	13	80·1	83·3	78·8	81·0	33·0	...	35·1	94	...
Bombay	35	1003·6	+0·4	1002·0	85·5	0	89	4 days	76·9	+0·2	74	19	79·8	81·4	77·2	77·9	30·8	+0·2	31·0	89	+6
Alibag	23	1004·7	+0·7	...	84·7	+0·3	89	7	77·6	0	75	5 days	80·0	...	77·9	...	31·7	+0·5	...	91	+7
Harnai	66	1003·3	...	1001·9	83·0	...	86	2,7	75·6	...	70	23,25	79·7	80·3	77·0	77·4	30·5	...	30·8	89	...
Devgad	117	1002·3	...	1001·1	83·2	...	89	7	76·8	...	73	9	78·9	80·6	77·2	77·9	31·1	...	31·5	92	...
Vengurla	29	1005·9	...	1004·3	83·5	...	87	5 days	74·7	...	71	13	77·7	79·2	75·8	76·6	29·6	...	30·1	92	...
Marmagao	202	1000·3	+0·4	998·6	81·5	—1·1	85	4 days	74·7	—0·5	71	13,19	77·9	79·0	75·9	76·2	29·6	—0·4	29·6	91	+5
Honavar	85	1005·3	...	1003·5	82·6	...	87	6	73·9	...	70	20	77·0	79·1	75·8	76·7	29·9	...	30·3	95	0
Deccan (Desh)																					
Jalgaon	660	980·8	...	978·1	94·1	...	103	11	76·1	...	71	9	79·9	88·9	75·9	77·4	28·7	...	26·9	83	...
Malegaon	1,432	955·2	+0·6	952·6	89·8	+1·6	99	9	73·9	+0·4	71	9	78·7	84·3	74·0	75·1	26·6	+1·2	25·7	79	+5
Deolali	1,874	941·0	...	...	83·5	...	91	9	71·8	...	68	12	75·2	...	72·1	...	25·7	...	...	86	...
Ahmednagar	2,154	932·4	+0·4	929·6	86·4	+1·1	94	9	70·9	+0·3	68	5,16	75·0	81·2	71·3	72·7	24·7	+1·2	24·0	83	+6
Poona	1,834	943·0	+0·3	940·9	85·1	+2·6	91	6,9,10	72·1	+0·4	68	91	75·9	79·7	71·7	72·7	24·9	+1·1	24·6	82	+3
Jeur	1,709	947·2	...	944·0	89·5	...	96	7,11	71·0	...	68	19,20	76·4	84·4	72·3	74·3	25·5	...	24·9	82	—
Sholapur	1,570	952·3	+0·6	949·9	89·3	+0·1	96	7	72·2	+0·1	68	20	76·7	84·7	72·4	74·1	25·4	+1·6	24·5	81	+8

* Data not reliable.

(R) Register not recei

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																		STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hour.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Madhya Pradesh, West
6·6	...	6·9	7·21	...	1·62	19	10	...	8·5	...	1	0	0	0	1	7	7	15	0	0	5	0	1	0	8	1	16	0	Buldhana
6·7	+0·4	6·0	6·50	—3·29	1·42	20	12	—0·4	8·0	+1·1	1	1	0	0	1	4	14	10	0	4	2	1	1	2	3	11	7	0	Akola
6·7	+0·5	6·5	8·34	—1·07	2·11	26	15	+2·2	8·0	+0·4	1	1	1	0	0	8	18	1	1	0	1	1	3	2	15	3	6	0	Amravati
7·0	...	7·0	10·65	...	1·89	26	13	...	10·4	...	0	1	0	0	0	13	1	16	0	0	1	0	3	1	17	1	8	0	Yeotmal
6·6	+0·5	7·1	16·62	+6·96	3·32	26	12	—0·1	6·6	—0·8	0	0	0	0	1	8	15	3	4	0	0	1	1	2	12	8	3	4	Khandwa
6·6	—0·3	6·8	6·66	—10·05	1·77	27	11	—4·7	4·1	+0·5	0	0	1	0	1	15	10	2	2	0	2	2	3	3	12	5	3	1	Hoshangabad
4·7	—1·5	5·4	19·97	+4·40	6·70	2	14	—2·5	14·2	+1·6	1	2	3	1	0	11	12	1	0	1	6	0	0	1	13	3	7	0	Sagar
6·2	—0·5	7·0	13·80	—5·58	3·45	31	14	—4·1	4·4	+1·0	0	3	0	6	2	14	3	1	2	0	5	2	4	3	9	5	1	2	Jabalpur
6·3	...	6·6	9·45	...	3·22	15	16	...	0·8	...	1	0	1	0	3	1	0	1	24	3	1	1	1	4	1	0	2	18	Mandla
																													Seoni (*R*)
5·5	...	5·9	13·80	...	2·39	27	17	...	5·1	...	2	0	2	1	0	3	15	6	2	3	1	3	1	1	6	6	8	2	Chhindwara
6·6	...	7·3	7·20	...	2·14	26	13	...	4·8	...	1	1	0	2	3	6	12	4	2	3	2	2	1	1	5	10	5	2	Betul
6·4	—0·1	6·8	12·72	—1·88	2.57	26	17	+0·5	6·1	...	0	0	4	1	1	9	10	5	1	4	2	2	1	3	5	8	5	1	Nagpur
																													Gujarat Deesa*
6 8	—0·1	6·2	12·28	—5·14	6·05	27	14	—2·3	6·6	—0·7	0	0	2	4	7	10	3	4	1	0	0	0	0	7	23	1	0	0	Surat
6 5	+0·1	5·7	5·27	—6·95	2·86	27	7	—5·6	6·5	—0·5	0	0	1	2	6	9	10	3	0	0	0	1	2	4	15	8	1	0	Ahmedabad
6·7	—0·6	6·0	8·21	—0·81	2·23	26	9	—4·0	14·1	+5·1	0	0	1	0	0	10	19	1	0	1	1	0	0	0	12	12	2	3	Dohad
5 9	—1·1	5·9	6·33	—5·90	1·63	27	8	—4·7	4·8	—0·8	0	1	0	0	4	16	3	1	6	0	0	0	1	4	15	8	1	2	Baroda
5·1	...	5·6	11·88	...	4·42	26	9	...	6·3	...	0	0	1	0	9	14	7	0	0	0	0	0	1	2	24	2	2	0	Broach
																													Saurashtra and Kutch
4·9	—1·1	4·8	10·49	—1·84	2·92	28	4	—2·0	10·5	—1·2	1	1	2	0	1	5	15	5	1	0	0	4	0	0	8	18	0	1	Bhuj
5·1	—1·5	4·9	6·70	—0·25	4·05	28	4	—2·0	15·7	+0·8	2	1	0	3	0	3	22	0	0	1	0	0	0	3	6	20	1	0	Dwarka
4·8	—0·1	4·9	10·78	+1·85	5·03	27	4	—3·9	17·6	...	1	0	3	1	0	21	5	0	0	3	0	1	0	0	5	16	6	0	Jamnagar
5·8	—0·8	6·4	4·30	—6·38	2·39	27	5	—5·5	14·7	+2·7	0	0	1	3	1	11	14	1	0	0	0	1	3	2	7	11	7	0	Rajkot
6·2	—0·4	6·2	6·22	—1·56	2·02	28	7	—2·2	14·8	...	1	1	1	1	0	4	14	6	3	0	0	0	1	0	7	19	3	1	Veraval
5·7	—0·6	6·6	6·62	—0·39	4·29	27	6	—3·3	8·1	+0·7	0	0	0	2	4	11	11	1	2	0	0	1	1	17	5	7	0	0	Bhavnagar
																													Konkan
7·8	...	7·5	31·68	...	6·38	14	23	...	12·2	...	1	0	5	6	1	7	10	1	0	1	0	0	0	0	11	18	1	0	Dahanu
7·1	+0·1	7 1	35·11	+10·84	5·45	14	25	+2 9	7·7	—3·9	0	0	0	4	1	8	11	1	6	0	0	0	1	1	11	13	1	4	Bombay
7 4	—0·2	...	40·82	+16·38	5·62	20	25	+1·7	14·1	—3·6	1	0	1	3	2	10	7	2	5	...	...	...	...	...	...	...	...	...	Alibag
7·0	...	6·9	36·13	...	5·22	19	25	...	10·7	...	0	0	2	3	2	15	6	3	0	0	1	0	5	2	15	3	4	1	Harnai
6·9	...	7·1	43·83	...	4·96	12	27	...	14·6	...	1	1	2	4	1	2	14	6	0	0	0	0	0	1	1	25	4	0	Devgad
7·3	...	7·4	51·13	...	9·36	22	27	...	...	...	0	0	1	0	0	6	7	1	16	0	0	0	0	0	6	7	1	17	Vengurla
6·7	—0·2	6·9	44·60	+13·31	5·64		22	—4·6	11·4	+1·5	1	3	2	1	1	8	11	4	0	1	0	0	0	1	9	15	5	9	Marmagao
7·0	...	7·2	50·86	+6·02	4·88	24	28	—0·3	3·9	...	0	0	5	3	0	3	8	1	11	0	0	1	1	0	6	14	3	6	Honavar
																													Deccan (Desh)
6·2	...	5·7	5·72	—3·79	1·15	26	10	—4·3	8·5	...	0	0	0	0	0	7	13	8	3	3	2	1	1	1	4	12	7	0	Jalgaon
6·5	+0·5	7·0	4·69	+0·27	1·32	9	9	+1·6	5·9	—3·7	1	2	0	0	2	4	9	6	7	4	0	0	0	0	5	10	10	2	Malegaon
7·1	...	...	7·80	...	2·47	9	13	...	9·0	...	0	0	0	0	0	9	21	0	1	...	...	...	...	...	...	...	...	...	Deolali
6·7	+0·9	7·0	7·30	+3·25	2·41	20	11	+4·2	5·9	—3·8	0	0	0	1	0	14	3	6	7	1	0	0	1	0	21	0	7	1	Ahmednagar
7·1	+0·5	7·1	4·57	—1·99	1·13	11	11	—1·7	4·2	—6·0	0	0	0	0	0	3	9	2	17	0	0	0	0	0	4	22	3	2	Poona
6·8	...	7·2	9·46	...	3·40	19	9	...	10·1	...	0	0	0	0	2	7	13	8	1	2	1	0	0	1	4	13	9	1	Jeur
5·9	—0·1	7·0	6·56	+2·38	1·25	26	11	+3·3	6·0	—4·1	1	1	0	0	0	23	0	3	3	3	0	0	0	0	19	3	6	0	Sholapur

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity. %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Deccan (Desh)— *contd.*																					
Miraj	1,817	945·0	+0·4	942·7	84·2	+2·4	92	11	70·8	0	68	20	73·9	79·0	71·0	72·0	24·7	+0·2	24·0	87	+4
Kolhapur	1,870	942·7	...	940·6	81·4	...	89	11	70·5	...	67	20	73·8	76·2	70·9	71·6	24·6	...	24·6	87	...
Bijapur	1,950	940·1	+0·3	937·3	86·7	+0·1	94	6	70·3	—0·6	67	20	74·7	82·1	70·8	72·2	24·1	+0·6	22·9	82	+5
Belgaum	2,562	920·9	+0·2	919·4	77·3	+1·1	84	11	67·8	+0·4	65	19,20	69·7	72·4	68·4	69·9	23·2	0	24·0	93	+3
Gadag	2,131	935·2	+0·4	932·8	83·6	+0·5	94	12	69·9	—0·1	67	19	73·6	77·8	70·0	70·9	23·6	—0·1	23·0	83	0
Hyderabad, North																					
Aurangabad	1,905	940·5	+0·5	937·5	87·3	+1·3	96	11	71·6	+0·7	70	5 days	74·4	83·1	71·6	73·5	25·3	+0·9	24·3	86	+5
Parbhani	1,350	957·1	...	953·8	89·7	...	99	6	72·7	...	69	9	77·3	85·3	73·6	76·1	26·6	...	26·6	83	...
Ramagundam	527	985·9	...	982·4	92·4	...	101	4,5	76·5	...	71	31	82·6	86·9	75·5	76·9	26·9	...	27·0	72	...
Nizamabad	1,250	961·0	—0·2	957·9	89·3	+1·1	97	6,11	73·6	—0·3	70	21,22	77·7	85·7	73·1	76·0	25·8	+0·5	26·3	80	+3
Bidar	2,178	931·3	...	928·4	85·9	+1·1	93	11	70·4	+0·4	66	12	73·3	81·8	70·7	73·6	24·6	+1·2	24·9	88	+6
Hyderabad, South																					
Gulbarga	1,503	954·4	+0·3	950·8	88·1	—1·3	96	11,12	72·0	0	69	20	76·0	85·6	71·6	73·9	24·6	+0·3	23·8	81	+2
Raichur	1,311	961·5	+0·4	957·9	88·6	—1·7	95	1,5,12	72·9	0	69	20	76·6	85·5	72·6	74·3	25·5	+0·9	23·9	82	+8
Hyderabad (Begumpet)	1,778	944·8	+0·5	941·8	87·2	—0·2	95	4	73·0	+0·5	70	6 days	75·9	83·8	72·0	74·8	25·2	+0·1	25·8	83	+3
Hanamkonda	881	973·9	+0·2	970·7	90·9	+2·8	99	4,6	76·1	+0·4	72	22	79·9	86·5	74·7	76·4	27·0	+1·0	26·5	78	+4
Khammameth	367	991·8	...	988·8	91·2	...	99	5 days	76·7	...	71	20	81·2	87·5	76·5	78·1	29·0	...	28·7	80	...
Coastal Andhradesa																					
Nellore	65	1003·3	+0·4	999·8	96·5	—0·4	104	12	80·1	+0·2	75	18	85·5	89·7	75·6	77·1	25·7	—0·6	26·2	62	—1
Ongole	38	1003·5	...	1000·0	94·2	...	103	2,5	79·1	...	73	19	83·9	88·7	79·9	82·2	33·1	...	34·6	83	...
Gannavaram	88	1001·7	...	998·3	90·7	...	100	12	78·1	...	72	12	82·3	86·5	76·9	77·7	29·1	...	28·4	78	...
Masulipatam	10	1004·3	+0·4	1001·1	89·3	—3·1	99	2,3,5	78·9	+0·8	74	12	81·9	86·1	77·9	80·9	30·8	+1·0	33·7	83	+5
Kakinada	26	1003·3	+0·9	1000·0	89·5	—0·8	98	2,3	78·1	—0·3	74	5,20,31	82·9	86·5	79·1	80·6	32·2	+2·4	33·0	84	+6
Visakhapatnam	126	998·8	+1·0	996·0	88·4	—0·6	95	1	79·6	+0·8	74	30	83·4	84·4	77·7	79·2	29·8	+0·4	31·7	78	+2
Calingapatam	19	1002·1	+1·2	998·9	88·2	—1·6	91	2,15	79·1	+0·2	74	8	82·0	85·1	78·4	80·3	31·5	+0·2	33·1	85	+5
Rentachintala	348	992·9	...	989·1	93·9	+0·8	103	5,12	79·1	+0·4	75	5 days	82·3	90·7	75·4	76·9	26·9	—0·4	25·3	72	+2
Rayalaseema																					
Cuddapah	428	992·0	+0·4	987·7	93·9	—1·7	101	2	78·3	+0·2	74	6,15,25	84·2	90·6	74·2	79·1	24·3	—1·5	28·8	61	—4
Bellary	1,473	956·8	+0·1	953·1	87·9	—2·7	96	12	74·5	—0·5	71	6,12	77·3	84·7	71·8	74·1	24·2	+1·9	24·0	75	+10
Kurnool	923	974·6	+0·4	970·7	89·6	—2·0	97	5	74·0	—1·1	71	9	78·5	87·7	73·2	74·7	25·6	+0·7	23·4	77	+5
Anantapur	1,147	967·1	...	963·6	90·8	...	97	2	74·2	...	71	9,20	78·7	88·0	71·5	73·2	23·1	...	21·2	69	...
Tamilnad																					
Palayamcottai	167	1002·1	...	999·4	94·9	...	100	6	80·0	...	78	6 days	85·4	88·5	74·1	74·5	23·7	...	22·8	57	...
Pamban	37	1006·3	—0·2	1003·7	88·1	—1·2	92	10	79·6	+0·3	78	6,27	83·2	83·3	78·3	78·8	30·9	+1·2	31·6	79	+4
Mathurai	437	992·4	—0·2	989·2	96·1	+0·2	102	29	(a) 77·0	—0·3	70	23	84·1	89·7	73·2	75·0	22·9	0	23·0	57	0
Nagapattinam	31	1006·4	+0·3	1003·0	93·9	—2·1	101	1,2	78·8	—0·1	72	8	83·9	87·5	75·4	78·1	26·2	—0·1	28·6	66	+1
Tiruchi	289	997·3	—0·3	993·5	95·6	—2·1	101	3	77·6	—0·7	71	17	82·7	91·5	73·6	75·2	24·6	+0·7	22·5	63	+4
Coimbatore	1,341	962·5	0	960·0	86·3	—0·4	91	6	71·6	+0·6	69	13	76·3	80·7	70·9	72·0	23·4	—1·5	22·8	75	—5
Salem	913	976·3	—0·3	972·6	93·5	+0·5	100	6	74·8	+0·8	72	9,25	78·2	88·6	73·3	75·9	25·8	0	24·8	78	+1
Kallakurichi	416	992·1	...	989·0	95·3	...	104	2	76·4	...	71	19	81·3	89·1	74·4	75·4	25·9	...	23·8	71	...
Cuddalore	39	1005·4	0	1002·0	94·7	—1·3	100	21	78·6	0	72	24	84·7	88·0	78·1	81·5	29·9	+2·1	33·8	74	+5
Vellore	703	982·4	+0·2	979·0	93·2	—0·9	100	2,3	76·9	—0·3	71	5	81·7	89·2	73·0	74·9	23·8	—1·2	23·1	65	—2
Madras	51	1004·4	+0·2	1001·1	95·0	—1·3	101	1	79·0	—0·3	75	5,9,21	83·7	88·7	75·3	77·9	26·1	+0·5	27·7	67	+5
Arogyavaram	2,299	929·8	...	926·9	85·6	...	92	1,4	71·7	...	68	6	75·3	82·3	69·4	71·4	22·1	...	21·8	74	...

(a) Mean of 30 days.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																			STATION.
											0830 hrs. I.S.T.									1730 hrs. I.S.T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Deccan (Desh)— *contd.*
7·2	—0·2	7·1	3·25	—0·88	1.02	17	12	+2·9	9·9	—0·6	0	0	0	0	0	8	18	4	1	0	0	0	0	0	8	17	6	0		Miraj
6·1	...	6·7	7·48	...	1·57	17	14	...	10·8	...	0	0	0	0	0	3	26	1	1	0	0	0	0	0	0	31	0	0		Kolhapur
5·9	—0·2	7·4	3·97	+1·60	0·76	23	12	+7·7	8·4	—1·0	0	0	0	0	1	11	14	5	0	1	0	0	0	1	10	12	7	0		Bijapur
...	...	...	13·14	—3·96	2·53	25	19	—3·1	6·0	—0·2	0	0	0	0	3	3	24	1	0	0	0	0	0	1	2	27	1	0		Belgaum
7·5	+1·1	7·3	2·77	—0·12	0·73	12	9	+2·1	11·5	—0·8	0	0	0	0	0	15	15	1	0	0	0	0	0	0	14	16	1	0		Gadag
																														Hyderabad, North
6·9	—0·1	6·8	6·05	—0·69	1·02	23	11	—0·3	8·2	—2·8	1	0	0	0	0	9	15	3	3	2	4	1	0	0	6	13	3	2		Aurangabad
5·8	...	6·5	12·96	+5·64	3·30	23	13	+1·9	...	...	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	29	1	1		Parbhani
(a) 5·2	...	(a) 5·7	9·23	...	2·38	24	15	...	(b) 5·0	...	5	1	1	4	9	6	2	1	1	5	1	2	0	4	4	4	3	7		Ramagundam
4·1	—1·2	4·0	17·11	+6·96	5·92	22	13	—2·0	5·6	+0·1	0	0	0	0	2	13	6	0	10	2	0	0	0	1	7	4	0	17		Nizamabad
6·9	+1·3	7·2	12·85	+4·74	2·60	12	16	+4·4	12·4	—1·4	0	0	0	0	1	8	17	5	0	3	1	2	0	1	13	10	0	1		Bidar
																														Hyderabad, South
6·1	+0·3	6·5	9·79	+4·13	3·93	12	11	+1·9	11·0	+0·4	0	0	0	0	0	10	16	5	0	0	1	0	0	0	9	15	6	0		Gulbarga
6·2	+1·4	6·8	9·31	+4·61	2·66	7	11	+2·6	11·5	+1·9	0	0	0	0	0	17	12	2	0	1	0	0	1	3	10	12	4	0		Raichur
6·5	+0·1	6·6	9·67	+3·68	2·19	31	11	—0·1	10·8	+0·7	0	0	0	0	0	1	20	9	1	1	0	0	0	0	5	21	4	0		Hyderabad (Begumpet)
5·5	—0·7	6·7	11·47	+2·33	2·00	22	15	+1·6	7·4	+0·7	2	0	0	2	5	3	16	3	0	1	0	1	3	5	4	13	4	0		Hanamkonda
5·9	...	6·5	10·44	...	1·96	22	14	...	5·7	...	0	0	0	2	4	2	23	0	0	2	0	2	2	3	1	20	1	0		Khammameth
																														Coastal Andhradesa
5·6	—0·7	6·5	4·71	+1·96	2·88	18	4	—1·5	6·2	+0·4	1	0	0	0	1	6	14	2	7	0	0	3	6	1	1	8	3	9		Nellore
5·0	...	5·3	5·18	...	1·68	8	10	...	6·5	...	1	1	1	0	3	5	18	2	0	1	1	3	6	1	5	10	2	2		Ongole
5·9	...	6·2	9·44	...	2·37	12	12	...	9·4	...	0	0	0	2	4	6	15	3	1	2	0	1	3	2	4	10	6	3		Gannavaram
5·6	—0·6	5·6	10·39	+4·00	2·14	24	16	+5·3	7·8	+1·2	2	0	0	0	5	13	7	4	0	1	0	0	1	12	2	4	10	1		Masulipatam
5·9	—0·3	5·2	10·87	+4·32	2·14	24	14	+2·9	7·8	+2·0	0	0	0	0	0	30	0	1	0	0	0	0	0	0	0	31	0	0		Kakinada
6·0	—0·8	6·1	15·10	+10·68	6·42	24	10	+1·5	6·6	+1·1	1	0	0	0	1	9	18	2	0	0	0	0	0	5	17	7	2	0		Visakhapatnam
6·7	+1·3	6·5	12·36	+6·82	2·70	8	13	+4·4	9·7	+2·2	0	0	0	1	2	6	13	9	0	1	1	2	1	7	14	4	1	0		Calingapatam
6·9	—0·1	7·0	4·90	+0·10	1·35	7	8	—1·0	7·6	—1·8	0	0	1	0	1	8	19	1	1	2	0	1	0	0	0	26	2	0		Rentachinta a
																														Rayalaseema
6·5	+0·3	6·5	3·42	—0·65	1·20	6	7	+0·3	6·2	—1·2	0	0	0	0	0	0	23	3	5	0	0	1	0	0	0	19	0	11		Cuddapah
6·8	+0·9	7·2	5·37	+3·76	3·60	12	6	+2·6	7·7	—0·8	0	0	0	0	0	12	0	7	12	0	0	0	0	0	11	5	9	6		Bellary
6·2	—0·1	6·6	5·67	+1·25	2·93	12	7	—2·3	9·6	—0·8	0	0	0	0	0	9	20	2	0	0	0	0	0	1	4	17	5	4		Kurnool
6·7	...	6·7	1·11	—1·52	0·68	6	2	—1·9	11·2	...	0	0	0	0	0	9	21	1	0	1	0	0	0	1	7	18	4	0		Anantapur
																														Tamilnad
4·4	...	4·8	0	—0·33	0	...	0	—0·6	(a) 9·4	...	0	0	0	0	0	3	23	5	0	0	0	0	0	0	4	21	6	0		Palayamcottai
4·9	+1·9	5·7	0·16	—0·30	0·16	25	1	+0·2	10·2	+0·7	1	1	0	6	7	11	4	1	0	0	0	0	9	14	7	1	0	0		Pamban
5·5	0	7·2	5·95	+4·00	1·93	5	7	+4·3	5·0	+0·1	1	0	0	0	0	1	11	13	5	0	0	0	1	3	4	13	4	6		Mathurai
5·5	+0·9	6·3	2·40	+0·70	2·13	8	2	—0·9	6·5	+0·5	0	0	0	1	2	13	9	3	3	0	0	3	10	7	7	3	0	1		Nagapattinam
5·5	+0·5	6·9	4·11	+2·76	3·14	8	3	+0·9	16·9	—1·8	1	0	0	0	0	0	20	10	0	0	0	0	1	3	2	15	10	0		Tiruchi
5·4	+0·5	6·0	1·93	+0·28	0·67	23	5	+0·3	11·0	+4·4	0	0	0	0	11	15	5	6	0	0	0	0	0	11	15	5	0	0		Coimbatore
5·7	+0·2	7·1	3·40	—0·39	1·95	6	7	+0·1	5·4	+1·2	0	0	0	0	5	19	7	0	0	1	0	0	0	4	12	12	2	0		Salem
4·5	...	5·6	5·11	...	1·48	8	10	...	...	...	2	0	0	5	3	1	7	6	7	2	0	0	4	1	1	5	12	6		Kallakurichi
6·0	+0·9	5·8	1·42	—1·18	0·43	25	4	—1·3	(a) 6·6	+2·0	0	2	0	0	1	18	8	0	2	0	0	1	17	1	7	0	0	5		Cuddalore
5·8	+1·0	5·9	5·59	+1·04	2·76	5	7	+0·7	5·4	+0·4	0	0	0	0	0	5	19	4	3	2	0	0	0	5	4	14	4	2		Vellore
6·5	+0·8	6·3	3·40	—0·20	1·07	9	7	+0·2	10·4	+0·6	0	0	0	0	2	12	14	2	1	0	1	4	13	3	4	5	1	0		Madras
7·1	...	7·5	4·57	...	1·79	11	6	...	6·3	...	0	0	0	0	0	1	18	6	6	1	0	0	1	0	1	17	7	4		Arogyavaram

(b) Mean of 29 days. (a) Mean of 16 days

STATION.	Height of bar, cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Malabar & South Kanara																					
Mangalore	72	1006·5	+0·5	1004·7	83·3	—0·3	88	1	73·9	—0·4	72	25	77·0	79·3	75·1	76·4	28·9	—0·5	29·7	91	+1
Kozhikode	27	1008·6	0	1006·5	83·6	+1·2	88	1,3	73·9	+0·2	72	8 days	77·1	79·8	75·4	77·2	29·3	+0·5	30·7	92	0
Palghat	319	998·3	...	996·0	83·6	...	87	5 days	72·8	...	70	13,25,27	75·9	79·1	73·8	75·1	27·6	...	27·9	90	...
Mysore																					
Chitaldrug	2,405	926·1	—0·1	923·6	83·4	+0·8	90	11,12	69·5	+0·6	67	19,20	71·9	79·9	68·6	70·3	22·6	+0·2	21·4	84	+3
Shimoga	1,872	944·5	...	942·4	80·9	...	89	12	69·8	...	68	9,13,20	72·7	76·8	70·1	71·3	24·1	...	23·9	88	...
Hassan	3,149	903·5	...	901·8	77·2	—0·4	84	6,12	65·2	—0·4	60	13	68·3	72·2	66·3	67·8	20·6	+0·9	21·5	90	+5
Bangalore	3,021	907·2	0	904·8	80·6	—0·8	88	5	66.6	+0·9	64	25	69·4	77·0	66·7	68·8	21·3	+0·1	20·7	87	+2
Mysore	2,518	923·9	—0·1	(a) 921·9	82·6	—0·4	89	6	(a) 66·9	—0·3	64	29	71·4	(a) 78·1	68·3	(a) 70·2	22·4	+0·6	(a) 22·0	85	+5
Travancore-Cochin																					
Fort Cochin	10	1009·8	—0·1	1007·7	82·2	—0·4	85	1,21,28	74·7	0	72	9,17,25	77·7	79·6	75·2	76·2	28·7	+0·2	29·3	88	+1
Alleppey	12	1009·5	...	1007·6	84·6	...	89	28	73·8	...	70	26	77·7	80·6	75·7	76·7	29·4	...	29·6	92	...
Trivandrum	211	1002·5	—0·2	1000·6	84·5	0	89	4	73·5	—0·3	71	4 days	77·1	80·1	74·1	75·3	27·4	—0·4	27·8	87	0
Nagercoil	195	1002·3	...	1000·0	86·4	...	91	10,11	74·9	...	71	24	78·4	81·1	74·0	74·9	27·6	...	26·7	81	...
Hill Stations excluding Kashmir																					
Aijal	3,599	885·3	...	883·6	...	...	...	...	66·7	...	65	9 days	70·1	70·8	68·3	69·5	22·7	...	23·8	91	...
Shillong	4,921	846·1	+1·6	843·8	73·9	—1·4	80	25	64·0	—0·6	61	20	69·2	69·9	65·8	65·8	20·2	—0·6	20·1	84	+3
Cherrapunji	4,309	866·7	+3·5	864·3	70·7	—1·6	81	24,25	64·4	—0·9	62	4 days	67·7	68·0	66·5	67·2	22·0	0	22·2	95	+5
Darjiling	7,432	773·3	+0·7	771·5	65·2	—0·5	73	25	57·1	—0·9	47	6	61·1	61·0	60·6	60·7	17·8	—0·2	18·0	98	+5
Kalimpong	3,965	875·2	+2·2	872·4	73·9	—1·4	82	25	...	...	...	...	69·4	71·7	63·4	70·1	25·3	—0·7	24·6	94	+3
Katmandu	4,388	862·3	...	859·3	82·2	—1·5	87	15	67·5	—1·2	64	19	73·1	75·9	69·4	71·1	23·2	—0·4	23·8	83	+3
Mukteswar (Kumaon)	7,592	768·8	+0·7	767·1	72·7	+3·3	80	18	58·9	+0·9	55	4	61.7	67·7	59·0	67·7	16·5	—0·5	17·3	86	—4
Mussooree	6,699	792·9	...	791·5	70·3	+1·1	76	5	61·0	+0·4	56	14	65·0	66·9	62·8	64·8	18·9	—0·2	20·4	90	—3
Simla	7,224	778·4	+1·3	777·7	72·8	+1·9	79	1	61·2	+2·0	55	14	65·8	68·5	59·8	61·8	15·5	—1·6	17·0	72	—8
Dharamshala	3,974	877·4	...	875·7	83·5	...	95	1	70·0	...	62	4	76·0	81·0	69·0	72·0	21·4	...	23·1	70	...
Abu	3,945	874·0	+1·6	872·6	80·5	+5·2	88	25,26	67·9	+1·8	65	29,30,31	70·7	78·0	67·2	69·9	21·4	—0·6	21·7	84	—7
Pachmarhi	3,528	887·5	+1·2	885·0	81·0	+4·5	88	11	69·8	+2·0	66	2,3	72·5	77·9	69·6	72·3	23·5	+0·6	24·8	87	—1
Mahabaleshwar	4,534	858·5	+0·1	856·9	68·5	+3·1	75	11,16,17	62·0	—0·3	59	20	64·0	64·7	64·0	64·7	20·4	+0·1	20·9	99	+2
Mercara	3,781	883·6	0	882·2	69·1	+0·4	3	6,11	62·6	—0·5	60	19,20	64·2	66·4	64·0	65·4	20·3	+0·3	21·0	98	+3
Kodaikanal	7,688	769·5	+0·5	768.3	62·2	—0·1	68	29	52·9	+0·8	51	6 days	56·5	56·5	53·5	55·1	12·9	+0·3	14·3	84	+7
Ootacamund	7,364	777·9	—0·1	771·6	62·3	+0·5	69	11	50·5	—1·6	47	2,3,4	55·0	57·7	54·2	55·8	14·1	+0·7	14·5	92	+3
Coonoor	5,730	824·3	...	...	68·4	—2·4	73	2,3,15	57·5	—1·6	53	9	65·8	...	61·2	...	16·8	+2·1	...	77	+8
Tibet																					
Lhasa	12,090	654·9	...	...	76·7	...	85	9	50·8	...	48	5 days	60·4	...	57·0	...	14·5	...	...	83	...
Gyantse	13,110	625·4	...	...	73·3	+3·6	80	9	45·9	+0·2	37	31	56·8	...	49·1	...	9·6	0	...	51	—13
Ceylon																					
Colombo	24	1009·4	+0·1	1007·5	87·0	+1·6	86	1,3	76·0	—1·0	72	13,23,24	79·5	80·1	76·2	75·9	29·4	+0·3	28·6	85	+1
Trincomalee	24	1007·0	+0·5	1000·7	92·0	—0·2	96	4 days	77·5	—0·1	73	30	81·2	85·3	74·7	76·3	26·4	—0·9	26·9	72	—1
Batticoloa	20	1007·8	...	1005·6	89·8	...	95	21,23,27	76·4	...	73	8	82·0	85·7	75·5	77·2	27·2	...	28·0	72	...
Hambantota	61	1007·3	+0·2	1004·9	84·2	—3·4	91	7,8	75·8	—0·5	73	23,25	78·5	80·5	75·3	76·0	28·5	+0·1	28·6	86	+1
Mannar	12	1007·7	...	1005·5	86·9	...	90	10	78·8	...	77	4,27	81·9	82·5	77·6	77·5	30·4	...	29·9	82	...

(a) Mean for 30 days.

Cloud amount (Oktas). Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Rainfall, inches. Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Number of rainy days (0.10" or more). Total in the month.	Departure from normal.	Wind velocity miles per hour. Mean.	Departure from normal.	Wind direction—Number of winds from :— 0830 hrs. I. S. T. N	NE	E	SE	S	SW	W	NW	Calm	1730 hrs. I. S. T. N	NE	E	SE	S	SW	W	NW	Calm	STATION.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Malabar & South Kanara
7·2	+0·2	7·0	35·98	−2·92	2·92	6	30	+2·5	5·4	0·2	2	1	6	1	1	3	12	1	4	0	0	0	0	0	11	9	7	4	Mangalore
7·0	−0·1	7·3	27·26	−5·20	2·56	27	20	−6·5	7·0	+2·2	6	4	2	1	0	4	6	6	2	1	2	2	0	0	4	11	11	0	Kozhikode
6·3	...	6·7	17·16	...	3·25	25	17	...	7·8	...	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31	0	0	Palghat
																													Mysore
7·1	0	6·8	1·66	−1·21	0·43	23	5	−3·2	9·3	+1·1	0	0	0	0	0	10	21	0	0	0	0	0	0	0	5	26	0	0	Chitaldrug
7·5	...	7·4	8·62	...	2·00	23	15	...	3·7	...	0	0	0	1	6	14	9	0	1	0	0	0	0	1	14	13	3	0	Shimoga
7·3	+0·3	6·5	6·58	+0·78	1·82	24	11	−2·2	9·5	+2·5	0	0	0	0	0	9	21	0	1	0	0	0	0	0	11	20	0	0	Hassan
7·2	+0·1	6·9	6·78	+2·85	2·05	7	12	+4·0	10·2	+1·8	0	0	0	0	0	12	16	3	0	0	0	0	0	0	11	11	6	3	Bangalore
6·5	−0·1	(a) 6·9	2·16	−0·52	0·74	16	6	−1·3	9·6	+0·7	0	0	0	0	3	11	17	0	0	2	0	0	0	0	6	21	1	0	Mysore
																													Travancore-Cochin
7·1	+0·5	7·3	15·17	−8·14	3·39	23	21	−3·2	6·8	+1·8	3	6	4	1	1	2	9	5	0	1	0	0	0	0	5	13	12	0	Fort Cochin
6·9	...	6·7	12·36	...	2·28	13	19	...	7·2	...	5	3	3	3	0	2	6	9	0	4	0	0	0	0	2	9	16	0	Alleppey
6·3	−0·5	6·7	5·68	−2·09	1·66	23	14	−0·3	6·9	+0·5	10	0	0	0	0	0	5	15	1	1	0	0	0	0	0	9	21	0	Trivandrum
6·5	...	6·8	2·73	...	0·75	24	6	...	10·2	...	0	0	0	0	0	0	24	7	0	0	0	0	0	0	0	27	4	0	Nagercoil
																													Hill Stations excluding Kashmir
5·2	...	6·9	14·10	...	2·61	20	21	...	7·7	...	0	1	5	8	5	9	3	0	0	1	0	2	2	2	14	9	1	0	Aijal
7·3	+0·6	6·5	37·64	+23·99	6·58	16	19	+0·8	3·5	+1·3	0	1	1	1	4	10	0	0	14	0	2	1	1	6	11	1	0	9	Shillong
7·5	0	7·2	179·64	+83·30	18·62	13	24	−3·5	10·5	+5·2	0	5	0	4	6	14	0	0	2	1	0	1	0	4	21	0	0	4	Cherrapunji
7·7	+0·6	7·6	34·16	+1·24	4·38	3	27	+1·4	5·6	+2·1	0	0	17	5	0	1	8	0	0	0	0	15	3	0	2	9	0	2	Darjiling
7·2	+0·6	6·2	26·79	+4·03	2·68	17	22	+0·1	4·4	−1·0	0	1	0	16	0	0	0	10	4	0	0	0	28	0	0	0	3	0	Kalimpong
7·1	+0·5	6·6	13·85	−0·84	1·98	29	21	−1·7	0·7	−0·2	0	0	1	1	0	0	0	0	29	3	0	0	2	0	0	0	3	23	Katmandu
4·7	−1·9	4·9	5·23	−7·14	0·80	1	10	−7·8	10·4	+5·2	0	2	4	2	1	3	9	7	3	0	0	2	1	1	6	14	4	3	Mukteswar (Kumaon)
5·2	−1·8	6·3	15·03	−12·43	3·76	21	13	−10·2	4·5	+0·3	2	2	1	7	9	3	0	0	7	1	2	0	9	10	1	1	0	7	Mussooree
4·7	−1·6	5·1	12·43	−3·87	1·88	1	13	−6·7	1·9	−0·6	1	4	1	2	5	1	1	0	16	2	2	1	1	8	8	2	2	5	Simla
4·5	...	4·5	24·67	...	6·15	2	15	...	...	...	7	0	4	1	1	0	7	0	11	8	1	10	0	3	0	4	0	5	Dharamshala
5·3	−1·8	5·3	18·64	−3·35	6·51	28	10	−7·8	6·8	−1·2	2	2	0	1	5	13	4	0	4	1	1	0	0	6	7	5	0	11	Abu
5·5	−1·7	5·9	14·89	−11·34	4·04	26	19	−3·0	4·7	−2·5	2	1	2	1	0	0	16	7	2	2	1	3	0	3	1	8	9	4	Pachmarhi
7·8	−0·2	8·0	61·17	−44·16	6·98	26	28	−2·1	9·9	−2·9	1	0	0	0	0	15	10	5	0	0	0	0	0	0	20	2	9	0	Mahabaleshwar
7·3	−0·3	6·9	42·90	−0·21	8·00	24	27	−1·5	9·8	+1·6	1	0	0	0	0	0	15	15	0	0	0	0	0	0	0	15	16	0	Mercara
6·0	+0·2	7·7	6·63	+1·98	1·56	17	14	+3·8	11·1	+0·6	0	0	0	1	1	0	15	8	6	0	0	0	4	2	1	11	9	4	Kodaikanal
5·7	−1·4	6·7	11·99	+3·63	2·12	24	15	−0·8	6·3	+0·3	0	0	0	0	0	5	15	4	7	0	1	0	0	1	3	15	3	8	Ootacamund
6·1	−0·3	...	3·15	+0·54	0·66	18	11	+4·0	5·6	+0·6	6	0	0	3	8	8	1	5	0	...	...	...	...	...	...	...	...	...	Coonoor
																													Tibet
5·8	...	...	3·63	...	0·48	22	15	...	0	...	0	0	0	0	0	0	0	0	31	...	...	...	...	...	...	...	...	...	Lhasa
4·3	...	...	5·19	+2·29	1·48	31	14	+5·8	1·9	−0·8	1	0	2	1	0	0	1	1	25	...	...	...	...	...	...	...	...	...	Gyantse
																													Ceylon
7·0	+0·8	7·1	11·08	+6·09	3·26	12	15	+6·6	...	...	0	0	0	2	1	19	8	0	1	0	0	0	0	1	22	8	0	0	Colombo
6·1	+2·0	6·8	1·44	−0·35	0·59	30	3	+0·7	...	...	0	0	0	0	1	29	1	0	0	1	1	1	1	1	21	2	0	3	Trincomalee
5·2	...	5·8	1·09	...	0·90	8	2	...	...	...	0	0	0	1	3	9	5	3	10	0	1	9	8	1	5	4	1	2	Batticoloa
5·8	+1·8	6·4	1·69	−0·44	0·34	23	6	+1·8	...	...	0	0	0	0	0	16	15	0	0	0	0	0	0	0	17	14	0	0	Hambantota
5·9	...	7·1	0	...	0	...	0	...	...	...	0	0	0	0	8	23	0	0	0	0	0	0	0	10	21	0	0	0	Mannar

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M.

STATION.	Height of bar, cistern above mean sea level in feet.	Pressure at station level in Millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, Millibars.			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
HYDROMETEOROLOGICAL OBSERVATORIES																					
Damodar Catchment																					
Bokaro	784	974·8	...	971.9	89·0	...	97	16,25	77·3	...	73	12	82·3	83·9	77·1	77·8	29·4	...	29·7	78	...
Mahanadi Catchment																					
Baramul	210	994·9	...	991·7	90·1	...	95	16	77·0	...	74	8	81·5	82·5	78·3	78·9	31·6	...	31·5	86	...
Hirakud	522	983·7	...	981·7	91·0	...	96	11	76·5	...	82	13	82·8	85·2	77·7	79·5	31·3	...	31·9	79	...
Barakachhar	1,136	...	...	...	86·0	...	94	11	75·0	...	72	8	77·5	83·0	76·0	77·0	30·0	...	29·0	81	...
Narbada Catchment																					
Punasa	877	...	...	...	91·4	...	100	11	76·4	...	72	9	80·6	87·4	76·3	77·6	29·2	...	27·6	82	...
Bagra Tawa	1,087	...	...	...	90·9	...	97	16	76·7	...	72	3	80·8	85·8	76·1	77·8	29·0	...	29·1	79	...
Sabarmati Catchment																					
Dharoi (R)																					

(R) Register not received.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity miles per hour.		Wind direction—Number of winds from:—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														HYDROMETEOROLOGICAL OBSERVATORIES
																														Damodar Catchment
6·5	...	7·2	13·17	...	3·26	12,29	14	...	5·6	...	1	0	7	3	2	14	3	0	1	1	1	5	11	3	3	1	4	2		Bokaro
																														Mahanadi Catchment
...	...	...	14·13	...	3·34	26	19	...	2·1	...	0	7	0	4	1	11	0	3	5	0	1	0	2	0	9	1	8	10		Baramul
...	...	...	0·34	...	2·43	8	23	...	4·1	...	0	4	0	2	2	17	1	2	3	0	1	0	5	2	16	0	1	6		Hirakud
...	...	...	12·70	...	4·97	31	17	...	5·4	...	0	1	1	0	3	21	3	0	2	0	4	0	1	2	12	5	1	6		Barakachhar
																														Narbada Catchment
...	...	...	11·25	...	3·09	17	11	...	7·3	...	0	0	0	1	0	14	12	1	1	4	1	0	1	2	9	11	0	0		Punasa
...	...	...	9·90	...	3·08	26	14	...	5·5	...	0	1	1	1	2	17	7	2	0	1	1	0	4	8	8	8	1	0		Bagra Tawa
																														Sabarmati Catchment
																														Dharoi (R)

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 4TH CLASS STATIONS—JULY 1951.

STATION.	Maximum temperature, °F.				Minimum temperature, °F.				Mean dry bulb temperature 0830 hrs. I. S. T. °F.	Mean wet bulb temperature 0830 hrs. I. S. T. °F.	Vapour pressure millibars.		Relative humidity. %		Mean cloud amount 0830 hrs. I. S. T.	Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.			Mean 0830 hrs. I.S.T.	Departure from normal.	Mean. 0830 hrs. I.S.T.	Departure from normal.		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Resultant direction 0830 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Assam																						
Lumding	91·0	−0·2	99	24	75·7	0·7	71	15	83·2	77·9	29·9	−1·2	78	−4	...	5·94	−1·65	1·80	31	10	−1·5	...
U. P. West																						
Lokpal	47·5	...	51	31	40.7	...	38	4 days	...	...	...	...	...	...	...	9·33	...	1·70	25	18	...	...
Jammu and Kashmir																						
Jammu	101·3	+5·9	113	1	79·5	+0·2	61	4	85·9	73·5	22·5	5·6	56	14	3·8	5·14	−7·65	1·63	2	10	−1·5	N27E
Kargil (R)																						
Mysore																						
Balehonnur	73·9	+0·8	82	12	65·3	−0·1	63	19,20,22	68·1	66·9	22·1	+0·1	94	0	...	29·31	−5·28	6·42	24	24	−4·3	...
Nandi Hills	70·7	...	78	4	60·1	...	59	9 days	63·4	63·3	19·9	...	99	...	8·0	10·02	...	6·96	6	8	...	S45E
Sikkim																						
Lachen	...	...	...	...	41·6	...	40	7 days	59·3	...	...	...	...	...	...	7·92	...	0·69	13,22	24	...	...
Tibet																						
Yatung (Chumbi)	63·8	−1·6	75	9	51·0	−0·3	45	5,7,25	59·3	57·7	15·9	−1·3	92	+5	1·0	5·31	−1·10	2·38	16	13	−4·7	...
HYDROMETEOROLOGICAL OBSERVATORIES																						
Mahanadi Catchment																						
Sonepur (*)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14·74	...	2·23	13	19	...	S75W
Ginabahar	87·1	...	91	17	72·5	...	67	3	79·5	75·1	27·7	...	80	...	...	8·45	...	1·72	7	17	...	...
Ganga Catchment																						
Tapoban	79·6	...	85	17	61·0	...	57	14	66·3	63·0	15·5	...	70	...	...	2·42	...	0·65	25	9	...	...
Badrinath	63·6	...	66	1,2	50·5	...	49	6 days	52·6	51·5	12·6	...	94	...	...	3·01	...	0·50	26	10	...	...
Narbada Catchment																						
Thikri	93·8	...	102	11	77·0	...	74	16,21	82·3	76·4	27·9	...	75	...	...	7·94	...	2·11	26	12	...	...
Sabarmati Catchment																						
Jhadol	92·4	...	101	11	75·4	...	72	9	80·3	74·3	26·2	...	74	...	...	7·79	...	2·35	27	10	...	...

(R) Register not received. (*) Data except rainfall and winds not available.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 5TH CLASS STATIONS—JULY 1951.

Division.	Station.	Rainfall, inches.				Number of rainy days, (0.10" or more).		Division.	Station.	Rainfall, inches.				Number of rainy days, (0.10" or more).	
		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.			Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
Assam	Mawsynram	175·86	...	21·02	12	25	...	Jammu & Kashmir	Sonamarg	1·90	—1·67	0·56	6	6	—2·9
West Bengal	Bankura	9·51	—3·47	1·52	30	17	+1·3		Gurez	1·57	—0·67	0·35	31	7	+1·1
Bihar	Muzaffarpur	18·43	+5·65	3·90	7,29	22	+8·0	Deccan (Desh)	Khandala	52·09	—16·3	6·30	20	26	—4·0
	Chapra	12·34	+0·27	2·28	20	15	+1·2	Sikkim	Thangu	4·12	...	1·00	1	16	...
	Arrah†	17·71							Chungthang	15·26	...	1·67	30	26	...
Punjab (I)	Dalhousie	10·99	—10·93	2·63	29	16	—4·0								
	Kyelang	5·13	+3·83	3·07	28	4	+0·2								
	Gondla	6·77	...	2·12	28	9	...								
	Koksar	6·08	...	2·04	29	10	...								
	Kothi	11·59	...	4·25	28	18	...								
	Dharampore	10·02	—5·86	2·25	30	11	—6·7								
	Kharsali*														
	Rana*														
	Jamuna Chetty*														

*Data not available.

†Total for 30 days.

RADIOSONDE DATA

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

(From Ascents at 15 hrs. G. M. T.)

JULY 1951

Standard Pressure Surface mbs.	ALLAHABAD (Sur. Pr. 987 mb.)						CALCUTTA (1001 mb.)						JODHPUR (975 mb.)					
	No. of obsns.	Height (gpm.).	Temperature °A				No. of obsns.	Height (gpm.).	Temperature °A				No. of obsns.	Height (gpm.).	Temperature °A			
			Mean.	Max.	Min.	Dew Point.			Mean.	Max.	Min.	Dew Point.			Mean.	Max.	Min.	Dew Poin
Surface	31	98	304·0	307	298	297·4	31	7	301·3	302	299	298·5	31	218	306·7	310	298	295
1000	26	—18	...	...	...	...	30	12	...	...	...	...	31	—12	...	...	...	...
900	26	921	398·6	303	291	292·5	30	946	296·1	299	294	293·4	31	937	301·5	307	297	293
850	26	1421	295·0	300	289	290·8	30	1441	293·4	297	290	290·3	31	1441	296·2	302	291	291
800	26	1950	291·3	297	287	287·6	30	1966	290·8	294	289	287·2	31	1967	291·9	297	286	288
700	25	3088	284·8	289	281	281·9	30	3099	285·1	288	282	280·5	31	3103	284·5	289	278	281
600	24	4359	277·3	283	274	274·7	28	4378	278·3	283	273	273·5	28	4374	275·0	280	269	273
500	24	5822	268·7	274	262	267·2	25	5846	270·8	276	267	265·3	27	5824	267·7	275	260	..
400	23	7550	259·3	262	255	...	25	7586	261·3	266	257	...	26	7545	258·3	264	249	..
300	21	9676	245·9	251	241	...	21	9731	248·3	253	246	...	24	9660	245·0	253	237	..
250	19	10966	236·3	243	225	...	17	10894	238·7	243	235	...	21	10968	237·8	248	227	..
200	16	12465	224·9	233	219	...	8	12499	225·1	230	220	...	19	12484	227·3	235	214	..
175	5	13350	216·2	225	209	...							14	13370	221·3	229	207	..
150													11	14393	216·3	224	200	..
125																		
100																		
80																		

Standard Pressure Surface mbs.	MADRAS (1003 mb.)						NAGPUR (967 mb.)						NEW DELHI (973 mb.)					
Surface	31	15	302·2	305	297	296·5	29	307	301·0	304	299	295·8	31	213	306·0	312	300	296
1000	31	39	...	...	...	...	29	5	...	...	...	...	31	—31	...	...	...	..
900	31	976	297·6	300	295	290·4	29	941	298·2	301	295	292·7	31	917	302·7	309	297	29
850	31	1473	294·4	298	291	288·9	29	1441	295·2	299	293	290·6	31	1421	298·9	305	294	29
800	31	2004	290·4	294	287	286·4	29	1968	291·6	295	288	288·2	31	1959	294·3	300	289	28
700	31	3131	283·4	287	279	276·6	29	3104	285·4	293	282	282·5	31	3099	285·5	289	282	27
600	31	4402	276·6	280	273	272·5	28	4383	278·3	283	275	273·5	31	4377	275·7	282	272	27
500	27	5862	268·9	272	265	...	27	5853	270·9	275	266	268·7	30	5874	268·5	272	263	..
400	25	7585	259·3	267	253	...	25	7592	261·2	267	255	...	30	7563	258·2	264	246	..
300	21	9721	245·8	249	241	...	23	9736	248·7	255	244	...	28	9692	245·4	259	239	..
250	20	10998	235·9	242	226	...	17	11046	239·4	245	234	...	27	10973	236·3	242	232	.
200	16	12505	225·4	231	217	...	9	12606	230·3	237	225	...	23	12550	224·1	233	213	.
175	9	13521	222·8	223	214	...							14	13377	219·7	228	211	.
150	9	14380	211·1	216	205	...												
125																		
100																		
80																		

RADIOSONDE DATA
MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
(From Ascents at 15 hrs. G. M. T.)
JULY 1951

andard essure urface mbs.	POONA (Sur. Pr. 942 mb.)						PORT BLAIR (1006 mb.)						TRIVANDRUM (1002 mb.)					
	No. of obsns.	Height (gpm.).	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.).	Temperature °A			
			Mean.	Max.	Min.	Dew Point.			Mean.	Max.	Min.	Dew Point.			Mean.	Max.	Min.	Dew Point.
urface	31	557	297·2	299	296	293·5	27	21	299·3	301	297	297·3	31	64	298·2	300	296	295·8
1000	31	43	...	...	...	...	27	72	...	...	...	...	31	82	...	...	...	...
900	31	962	294·6	297	292	291·6	27	997	294·3	297	292	291·2	31	1003	293·1	295	291	290·8
850	31	1457	291·9	294	289	289·3	27	1491	292·4	295	291	288·8	31	1495	290·6	293	289	288·5
800	31	1979	289·8	292	285	286·5	25	2017	290·0	292	288	285·0	31	2015	288·2	291	286	285·4
700	31	3110	285·2	289	282	280·2	25	3143	284·0	286	282	278·2	31	3138	283·0	288	281	278·8
600	31	4372	278·6	282	276	272·4	23	4414	276·1	279	274	272·0	31	4406	276·4	280	273	272·3
500	31	5860	270·9	275	268	266·0	23	5870	268·6	271	266	...	30	5865	268·5	274	266	...
400	31	7600	261·3	267	259	...	22	7595	259·4	262	255	...	30	7588	258·2	268	255	...
300	27	9751	248·8	257	244	...	18	9726	245·9	252	241	...	27	9696	243·6	248	240	...
250	22	11084	239·1	246	235	...	16	11016	237·0	242	232	...	27	10973	234·4	240	231	...
200	19	12563	227·3	234	224	...	12	12536	227·2	232	221	...	23	12478	224·1	229	219	...
175	10	13417	223·2	227	220	...	5	13424	220·0	226	215	...	18	13349	218·0	221	213	...
150	7	14422	212·1	218	208	...							13	14307	210·0	217	204	...
125													7	15427	204·5	211	199	...
100													5	16737	199·6	206	196	...
80																		

	VERAVAL (1001 mb.)						VISAKHAPATNAM (997 mb.)					
rface	31	8	301·4	302	301	299·0	21	48	301·7	303	299	297·7
000	28	16	...	...	...	...	21	21	...	...	...	...
900	28	946	295·0	298	293	292·7	21	953	296·2	300	292	293·7
850	28	1442	292·9	297	291	290·0	21	1451	292·6	298	288	291·1
800	28	1966	290·1	294	287	287·4	19	1977	289·7	294	285	288·1
700	28	3101	286·0	289	283	278·9	18	3103	283·1	288	277	281·0
600	28	4383	278·9	283	275	271·7	15	4375	276·1	280	275	274·1
500	26	5857	271·5	272	264	...	10	5842	269·4	272	265	...
400	25	7599	261·2	266	259	...	10	7570	259·7	269	252	...
300	20	9758	248·6	255	241	...						
250	16	11062	239·3	248	231	...						
200	12	12583	229·6	236	222	...						
175												
150												
125												
100												
80												

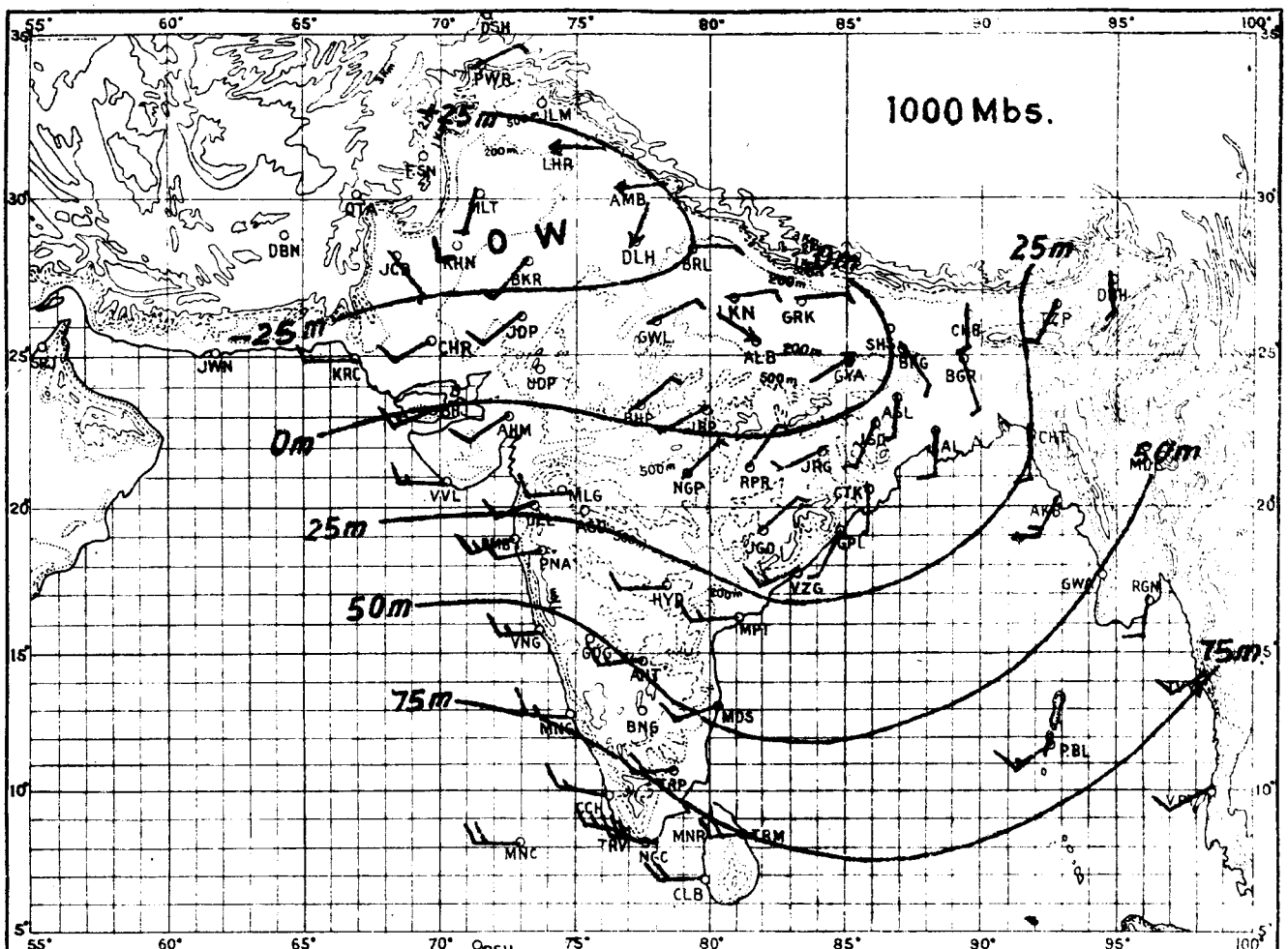
NOTE.—Number of observations refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

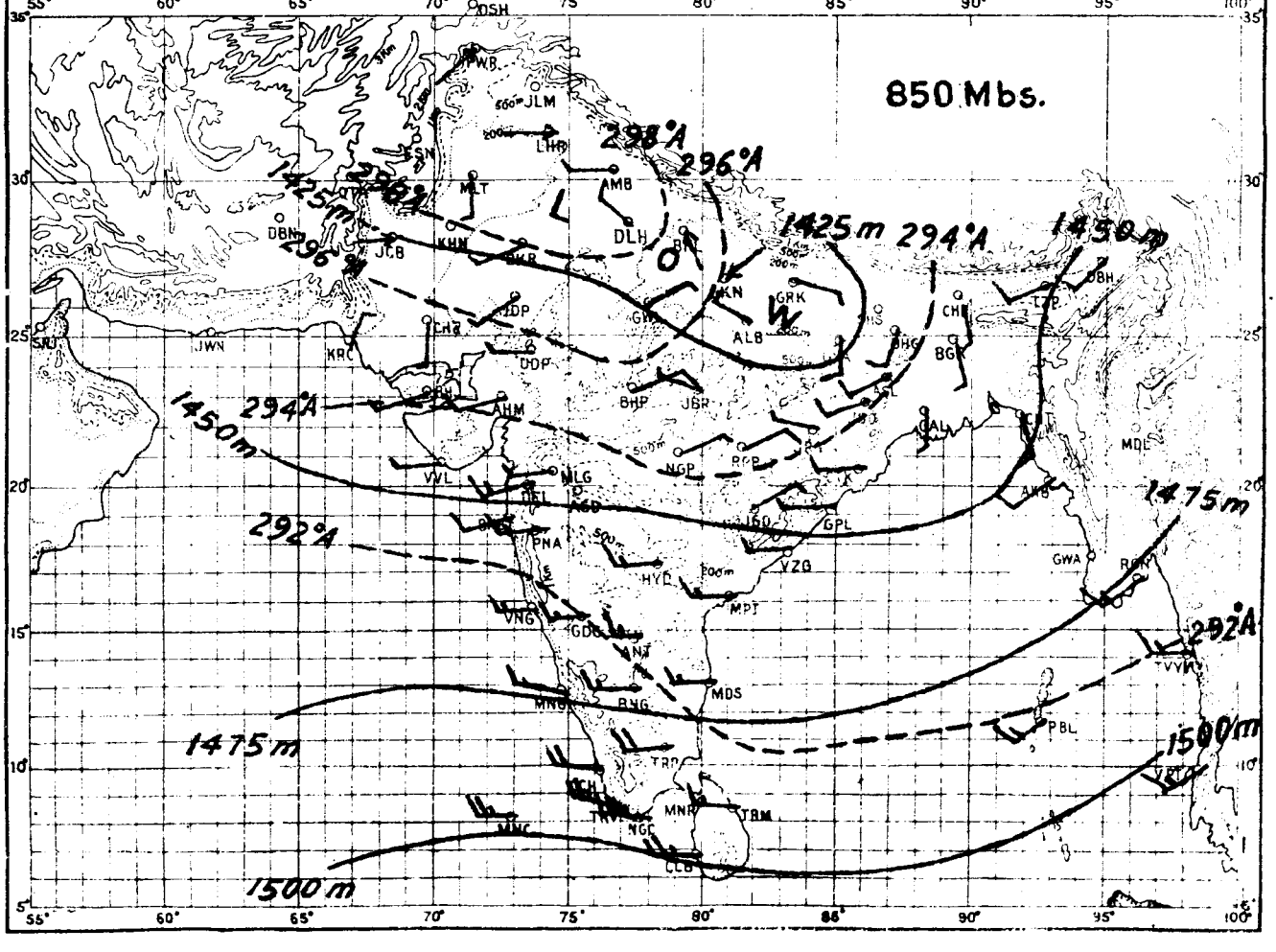
IN—S1—4 DDGOM Poona—23-7-53—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JULY 1951

Plate I





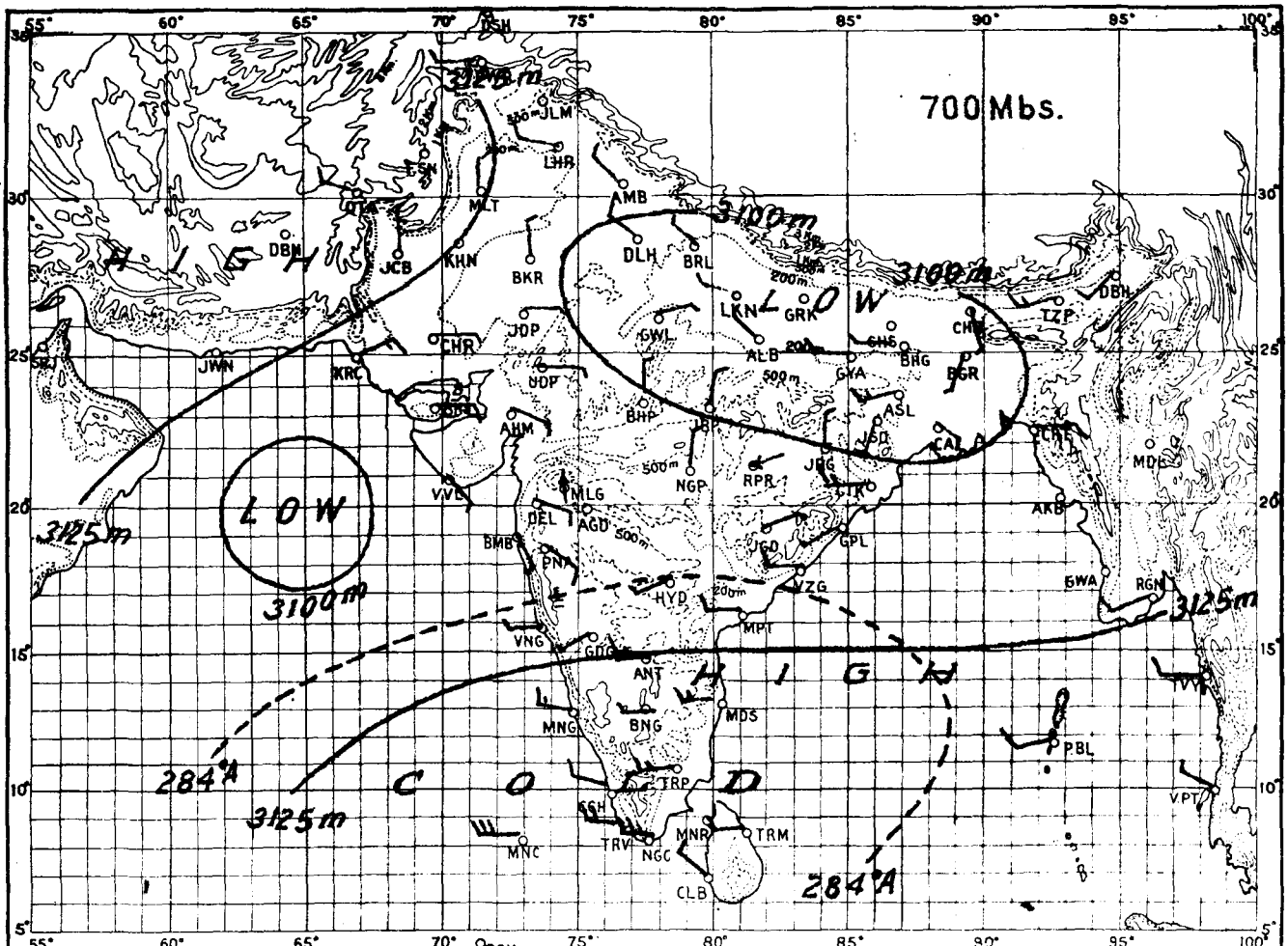
RESULTANT WIND —— = 5 Knots, —— = 10 Knots, —— = 50 Knots.

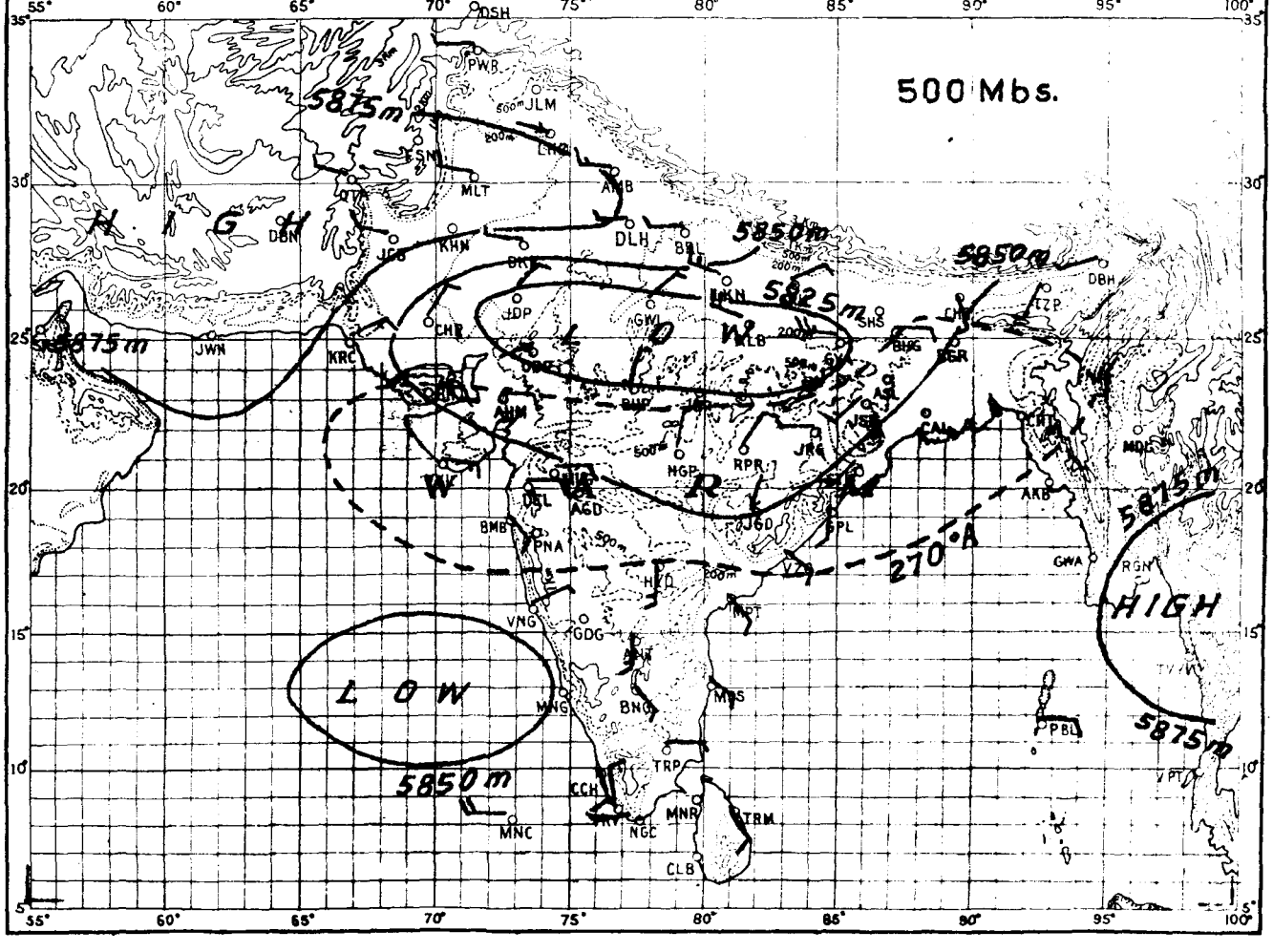
- - - - - *Isotherms in degrees Absolute* —— *Contours in geopotential Metres.*

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JULY 1951

Plate II





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

G.P.Z.P. POONA, 1951

- - - - - *Isotherms in degrees Absolute* —— *Contours in geopotential Metres*

Registered No. B-3097.

INDIA WEATHER REVIEW, 1951

Monthly Weather Report

August

Published by authority of the Government of India

Chief features.—(1) Fairly active monsoon conditions over northern India and the central part of the country during the first three weeks, (2) three shallow depressions from the north Bay of Bengal, (3) a "break" in the monsoon during the last week, but locally very heavy rain over and near Khasi-Jaintia hills resulting in floods in Assam and (4) the Arabian Sea branch of the monsoon generally weak over most of the Peninsula throughout the month.

During August the Arabian Sea branch of the monsoon was generally weak over the Peninsula. The Bay branch, however, continued its activity during the first three weeks over northern India and the central parts of the country, particularly under the influence of two disturbances from the Bay of Bengal. The first one was a shallow depression which formed in the northwest Bay on the morning of the 4th, with its centre about 70 miles to the east of Chandbali and passing inland as a low pressure area, moved from Orissa to southwest Rajasthan and lower Sind, where it became unimportant on the 9th. In association with this disturbance, the monsoon was active in Orissa between the 4th and 7th, in the central parts of the country between the 6th and 9th, and in east Rajasthan, Saurashtra and Kutch, and Gujrat between the 8th and 10th. Very heavy falls of rain were reported from west Madhya Pradesh, the Konkan-Kathiawar coast and Saurashtra between the 8th and 9th. Chanda reported 7" of rain on the 8th while heavy falls of 6" in 24 hours were recorded at Veraval on the 8th and 9th and at Rajkot on the 9th. Fairly well-distributed rain occurred over Uttar Pradesh, the Punjab(I) and the central parts of the country between the 10th and the 13th with locally heavy falls in and near Vindhya Pradesh on the 10th and 11th. The second disturbance formed as a shallow depression in the northwest Bay of Bengal centred about 50 miles eastsoutheast of Sandheads on the 16th morning, moved northwest over to east Uttar Pradesh where it became unimportant on 20th. Under its influence, the monsoon was active over the region extending from Gangetic West Bengal and Orissa to the Punjab(I) and north Madhya Bharat on the 16th and 17th. Locally very heavy falls were also reported from northwest Uttar Pradesh and the hills of the Punjab(I) between the 21st and 24th; Dehra Dun recorded an exceptionally heavy fall of 13" on the 22nd—the hevaiest fall on record during past 70 years.

The seasonal trough over the Gangetic plains shifted northwards to the foot of the Himalayas in the beginning of the fourth week and a "break" in the monsoon set in over the country from the 24th, rainfall being mostly confined to Assam and sub-Himalayan West Bengal between the 24th and 28th. Locally very heavy falls occurred over the Khasi-Jaintia hills and in sub-Himalayan West Bengal during the period. Cherrapunji recorded 21, 15, 22 and 9 inches successively between the 24th and 27th and there were severe floods in Assam.

The third depression of the month formed in the northwest Bay of the Bengal on the 30th evening, moved northwest, and gradually weakening merged into the seasonal trough by the 1st September. Under its influence, the monsoon revived over the eastern half of the Peninsula towards the end of the month. Well-distributed rainfall occurred over the region extending from Assam and sub-Himalayan West Bengal to Hyderabad and coastal Andhradesa on the 31st August and the 1st September with locally heavy falls in Assam and a few heavy falls in Orissa and Hyderabad on the 31st.

Total rainfall for the month was in moderate excess in Vindhya Pradesh and east Madhya Pradesh, in slight excess in west Rajasthan and Saurashtra and Kutch and normal in Orissa and west Uttar Pradesh. It was in slight defect in Assam, West Bengal, Chota Nagpur, east Uttar Pradesh, west Madhya Pradesh, Gujarat, Deccan (Desh), north Hyderabad, coastal Andhradesa and Tamilnad, in moderate defect in Bihar, the Punjab (I), east Rajasthan, Madhya Bharat, the Konkan, south Hyderabad, Malabar and south Kanara and Mysore, and in large defect in the Bay Islands Rayalaseema and Travancore-Cochin. Averaged over the plains of India, the rainfall was 17% in defect.

JUN 15 1955

The mean maximum temperature, the mean minimum temperature and the mean relative humidity were normal throughout the country except in the Bay Islands where the mean minimum temperature was above normal.

The mean cloud amount was normal all over the country except in Orissa where it was above normal.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amounts for the 13 chief political divisions and the 27 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 succeedings column; similarly the heaviest fall in 24 hours* ending at 0830 hrs. IST. of the date given in the succeeding column.

POONA 5 ;
The 23rd November, 1951

S. BASU,
for *Director General of Observatories*

* for any Station denotes the amount recorded during the 24 hours.

	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division									
1. Assam (including Manipur and Tripura).	10·34	13·55	−3·21	−24	+1·6	+0·5	+0·8	0	+0·3
2. West Bengal	10·86	13·60	−2·74	−20	+1·2	+0·9	+0·8	+1	+0·4
3. Orissa	11·13	12·40	−1·27	−10	+0·5	+0·9	+0·3	+2	+1·3
4. Bihar	9·15	12·99	−3·84	−30	+1·8	+1·1	+1·2	+1	+0·1
5. Uttar Pradesh	11·31	12·13	−0·82	−7	+1·4	+0·8	+0·7	0	−0·5
6. Punjab (I) (including PEPSU and Delhi).	4·88	6·66	−1·78	−27	+1·0	+0·1	+0·5	+3	−0·3
7. Rajasthan	4·86	6·19	−1·33	−21	−0·1	+0·4	+0·2	+1	+0·2
Sub-Division									
1. Bay Islands	3·98	16·29	−12·31	−76	+1·8	+2·0	+0·3	−3	+0·2
2. Assam (including Manipur & Tripura).	10·34	13·55	−3·21	−24	+1·6	+0·5	+0·8	0	+0·3
3. West Bengal	10·86	13·60	−2·74	−20	+1·2	+0·9	+0·8	+1	+0·4
4. Orissa	11·13	12·40	−1·27	−10	+0·5	+0·9	+0·3	+2	+1·3
5. Chota Nagpur	10·72	13·64	−2·92	−21	+1·8	+1·1	+1·1	+1	+0·1
6. Bihar	8·27	12·63	−4·36	−35	+1·8	+1·0	+1·3	+1	+0·2
7. Uttar Pradesh, East.	9·75	12·12	−2·37	−20	+1·6	+1·2	+0·5	−1	−0·1
8. Uttar Pradesh, West.	12·86	12·13	+0·73	+6	+1·1	+0·5	+0·9	+2	−0·9
9. Punjab (I) (including PEPSU & Delhi).	4·88	6·66	−1·78	−27	+1·0	+0·1	+0·5	+3	−0·3
10. Jammu and Kashmir.	Data incomplete								
11. Rajasthan, West	4·69	3·79	+0·90	+24	+0·5	+0·5	+0·8	+2	+0·5
12 Rajasthan, East (including Ajmer).	5·04	8·60	−3·56	−41	−0·6	+0·4	−0·2	+1	0
13. Madhya Bharat	7·63	10·92	−3·29	−30	+0·1	+0·2	−0·3	+1	+0·6
14. Vindhya Pradesh	17·60	13·14	+4·46	+34	0	−0·9	+0·7	+5	+0·4

	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—*contd.*									
8. Madhya Bharat & Vindhya Pradesh	11·91	11·87	+0·04	0	+0·1	−0·3	+0·1	+3	+0·5
9. Madhya Pradesh	12·03	12·17	−0·14	−1	−0·5	+0·5	+0·6	+3	+0·7
10. Bombay (including Saurashtra & Kutch).	7·03	9·09	−2·06	−23	+0·2	+0·5	+0·8	+3	0
11. Hyderabad	4·47	6·03	−1·56	−26	0	+0·7	+0·4	−2	+0·7
12. Madras (including Travancore-Cochin).	3·64	5·87	−2·23	−38	+0·7	+0·8	0	0	+0·3
13. Mysore	5·09	7·79	−2·70	−35	+0·9	+0·5	0	+1	−0·6
Mean of India	7·94	9·55	−1·61	−17	+0·5	+0·6	+0·5	+1	+0·3
Sub-Division—*contd.*									
15. Madhya Pradesh East.	17·14	13·65	+3·49	+26	−0·4	+0·7	+0·2	+3	+0·8
16. Madhya Pradesh West.	8·83	11·24	−2·41	−21	−0·5	+0·4	+0·8	+3	+0·5
17. Gujarat	5·99	7·87	−1·88	−24	−0·1	+0·5	+1·1	+5	+0·1
18. Saurashtra & Kutch.	4·31	3·90	+0·41	+11	+0·6	+0·8	+0·7	+3	0
19. Konkan	9·85	18·15	−8·30	−46	+0·2	+0·8	+0·9	+3	−0·7
20. Deccan (Desh)	7·96	9·06	−1·10	−12	+0·2	+0·1	+0·5	+2	+0·2
21. Hyderabad, North.	5·23	6·63	−1·40	−21	−0·5	+0·8	+0·5	+2	+0·2
22. Hyderabad, South	3·71	5·43	−1·72	−32	+0·4	+0·5	+0·4	+2	+1·0
23. Coastal Andhradesa.	4·01	5·04	−1·03	−20	+0·1	0	+0·4	+3	+0·1
24. Rayalaseema	1·71	3·85	−2·14	−56	0	+0·5	−0·5	−2	+0·3
25. Tamilnad	2·88	3·51	−0·63	−18	+1·2	+1·3	−0·5	−1	+0·7
26. Malabar & South Kanara.	11·08	20·34	−9·26	−46	+0·7	+0·8	+1·1	+1	−0·5
27. Mysore	5·09	7·79	−2·70	−35	+0·9	+0·5	0	+1	−0·6
28. Travancore-Cochin	2·97	9·31	−6·34	−68	+1·2	+1·2	+1·4	−1	−0·3

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT ~~0300~~ 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars. Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Maximum temperature, °F. Mean.	Departure from normal	Highest.	Date.	Minimum temperature, °F. Mean.	Departure from normal	Lowest.	Date.	Dry bulb temperature, °F. Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Wet bulb temperature °F. Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Vapour pressure, millibars. Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Relative humidity, %. Mean 0830 hrs. I.S.T.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Bay Islands																					
Port Blair	259	1000·3	+0·7	998·3	85·2	+1·8	87	9,23,31	76·7	+2·0	73	11	82·2	80·6	77·7	76·9	30·4	+0·3	30·2	81	—3
Assam																					
Dibrugarh	348	992·1	—0·4	988·1	89·6	+2·4	96	4,5	77·5	+1·6	74	1,26,27	82·1	85·4	79·2	80·9	32·6	+1·1	34·0	88	+1
Mohanbari (R)	364																				
Sibsagar	317	993·9	—0·1	989·0	90·8	+2·0	97	4,5	78·7	+1·0	75	4	83·3	87·5	79·5	81·2	32·4	—0·2	33·2	84	—2
Tezpur	258	995·5	0	991·2	90·3	+0·9	95	4 days	78·6	+0·9	75	31	82·0	86·9	79·7	81·5	33·3	+0·9	34·1	90	+3
Gauhati D. Type	162	997·8	..	994·0	90·5	..	95	4,11	78·8	..	75	11	84·0	85·0	80·2	78·3	33·2	..	30·3	84	..
Gauhati	182	997·4	+0·2	992·6	90·1	—0·2	96	5	78·6	+0·6	75	15	83·8	86·2	80·1	80·4	33·8	+1·4	32·5	85	+2
Dhubri	115	999·8	+0·3	996·4	88·6	+2·3	93	11,21	79·4	+0·9	73	29	83·4	84·4	80·1	80·8	33·3	+0·8	34·4	83	—2
Silchar	96	1001·4	+0·1	997·4	89·3	—0·2	95	7,8	76·6	—0·3	71	15	81·6	86·0	79·1	80·6	32·9	+0·7	33·1	89	+3
Tura	1,215	963·0	..	960·0	85·5	..	90	8	74·5	..	71	28	79·6	80·8	77·1	78·4	30·7	..	32·0	89	..
West Bengal																					
Dum Dum	33	1000·8	..	997·9	90·2	..	94	21	79·7	..	75	30	84·5	84·6	79·8	79·5	32·9	..	32·3	81	..
Calcutta	21	1001·2	—0·1	998·3	90·5	+1·5	95	11	80·3	+2·0	76	30	84·2	84·8	81·1	80·8	35·0	+1·9	34·1	87	+2
Saugor Island	10	1001·2	—0·2	998·8	87·3	+0·4	91	21	81·3	+1·7	77	17	84·3	84·8	80·6	80·6	34·3	+1·1	34·1	85	+1
Sandheads	32	1000·3	—0·9	998·0	..	..	..	..	..	..	..	..	84·0	84·6	80·8	80·7	34·8	+1·4	33·9	86	+3
Midnapore	149	996·7	0	993·9	90·6	+1·4	94	11,15,21	78·6	+0·2	75	27	83·9	84·0	80·1	80·2	33·1	+0·8	33·2	85	+2
Contai	35	1000·0	..	997·3	91·8	..	98	14	79·8	..	74	7	83·6	84·2	80·6	80·0	34·3	..	33·4	86	..
Burdwan	106	997·6	—0·7	994·5	91·2	+2·0	96	29	79·1	+0·2	76	29	83·5	85·4	79·5	80·0	32·6	—0·2	32·4	83	—1
Krishnagar	48	1000·4	—0·4	997·5	91·4	+1·9	95	13,29	78·4	0	75	22	83·6	85·0	30·7	81·2	34·3	+1·1	34·3	88	+4
Asansol	414	987·6	+0·3	984·5	89·5	+0·7	95	29	78·9	+1·4	76	29,30	83·1	85·4	79·7	80·1	32·9	+0·4	32·5	85	0
Berhampore	62	999·7	—0·3	996·9	91·6	+2·5	98	29	79·8	+1·0	76	6	83·8	85·1	80·8	80·5	34·6	+1·2	33·6	85	0
Malda	103	998·8	—0·2	995·6	90·4	+1·3	94	11,29	79·5	+0·4	77	5 days	84·6	87·1	80·5	80·9	33·9	+0·4	33·5	83	0
Cooch-Behar (R)	145																				
Jalpaiguri	271	994·2	+0·3	990·8	89·0	+0·2	94	11	77·6	+0·3	73	27	81·7	85·7	78·5	80·5	32·2	—0·3	33·5	86	—1
Bagdogra	418	988·8	..	985·2	90·2	..	95	4	77·2	..	73	10	82·8	85·6	78·9	80·3	31·8	..	32·6	84	..
Orissa																					
Balasore	65	999·3	—0·2	996·7	89·1	+0·8	93	15,20,29	79·9	+1·5	77	4 days	83·4	84·1	79·9	80·1	33·3	+1·0	33·3	85	+2
Chandbali	20	1001·5	0	998·5	89·0	+0·7	93	27	79·1	+0·7	75	23	82·6	84·2	79·9	80·8	34·0	+1·4	34·2	91	+8
Puri	20	1002·0	+0·4	999·5	88·5	+0·9	94	11	80·5	+0·9	76	16,18	84·3	84·2	80·0	80·1	32·7	0	33·4	82	0
Cuttack	87	999·3	—0·1	996·5	88·9	—0·1	94	14,27	79·2	+1·1	76	23,31	81·7	84·8	78·0	79·5	31·4	+0·2	31·7	85	+4
Gopalpur	56	1001·2	+0·6	998·6	87·8	0	91	14,15	79·4	+0·6	74	30	83·4	83·9	79·4	80·6	32·5	+0·4	33·9	83	+2
Koraput	2,996	905·4	..	903·3	76·2	..	81	26	69·5	..	67	4 days	71·1	72·1	69·5	70·4	24·1	..	25·0	92	..
Angul	455	987·3	+0·8	984·5	88·5	+0·9	93	14,27	77·7	+0·8	74	31	81·0	82·9	77·0	78·2	29·9	—0·2	31·2	83	+2
Sambalpur	486	985·9	+0·3	983·2	86·9	+0·2	92	29	77·3	+0·4	74	31	79·8	81·6	77·4	78·2	30·9	+0·7	31·3	89	+4
Jharsuguda	726	977·5	..	974·8	..	..	..	..	..	..	..	..	81·1	82·3	78·3	78·5	31·5	..	31·2	88	..
Titilagarh	691	979·8	..	976·9	86·4	..	93	29	75·4	..	71	1	79·2	80·9	75·5	76·4	28·8	..	29·0	84	..
Chota Nagpur																					
Purulia	835	973·9	..	970·8	89·0	..	93	20	77·9	..	74	17,30	81·9	83·7	78·4	79·3	31·6	..	32·1	85	..
Jamshedpur	423	987·3	0	984·3	90·4	+1·5	94	11,30	79·1	+1·1	76	14,17,30	82·4	84·4	78·6	79·3	31·3	+0·5	32·0	84	+2
Chaibasa	742	976·6	+0·5	973·6	89·7	+1·4	93	11,12,29	78·1	+1·2	74	30	81·5	84·2	77·9	79·0	31·1	+1·0	31·8	85	+2
Ranchi	2,150	..	..		85·9	+2·6	89	14	73·6	+0·8	71	21,22	77·7	79·4	74·8	75·8	28·1	+0·9	29·1	88	+3
Hazaribagh	2,006	935·1	+0·3	932·3	86·5	+2·5	89	4,11	74·4	+1·1	71	24	78·6	80·9	75·4	76·3	29·0	+2·1	29·2	86	+2
Daltonganj	725	976·9	+0·2	973·8	89·8	+1·1	93	10,11,29	78·0	+1·1	74	24	83·5	85·0	78·7	79·6	31·0	+0·9	31·9	81	—2
Dhanbad	839	973·1	..	970·0	90·0	..	97	2	76·8	..	71	30	82·2	84·8	78·8	79·7	31·9	..	32·5	85	..

(R) Register not received.

Cloud amount (Oktas)			Rainfall, inches.				Number of rainy days (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																			STATION.
											0380 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Bay Islands
6·8	+0·2	6·7	3·98	—12·31	1·40	11	9	—11·9	13·1	—0·3	0	0	0	0	0	21	10	0	0	0	0	0	0	0	20	11	0	0		Port Blair
																														Assam
7·1	+0·8	4·9	8·31	—9·45	1·93	7	14	—4·7	1·3	+0·3	3	4	5	1	2	2	0	7	7	0	3	3	0	0	0	0	0	25		Dibrugarh
																														Mohanbari (R)
7·2	+0·2	5·5	10·33	—6·04	2·75	31	15	—3·1	3·2	+1·2	3	9	0	4	8	2	2	2	1	4	3	2	0	8	5	1	2	6		Sibsagar
6·6	+0·1	4·3	15·31	+3·29	4·00	2	16	+0·1	1·0	—0·4	0	2	10	4	0	0	5	1	9	0	3	8	3	1	0	1	0	15		Tezpur
5·7	..	4·8	6·20	..	1·50	24	12	..	1·9	..	3	10	2	0	1	3	3	1	8	1	2	2	1	0	4	3	3	15		Gauhati D. Type
6·7	+0·6	5·0	8·42	—1·84	4·63	15	10	—3·1	1·8	+0·5	4	8	2	2	5	5	2	0	3	1	3	2	4	4	6	2	3	6		Gauhati
6·5	+0·7	6·4	16·89	+3·60	5·97	24	14	—0·6	2·9	—0·6	1	4	1	4	8	3	2	0	8	1	4	1	4	6	6	2	0	7		Dhubri
6·3	—0·1	5·6	3·40	—16·86	0·29	27	14	—8·2	1·2	—0·3	0	6	4	1	2	1	1	0	16	0	1	1	1	2	3	4	5	14		Silchar
7·0	..	7·7	27·54	..	8·41	24	18	..	6·8	..	2	1	0	0	5	10	1	3	9	0	4	1	2	4	9	0	2	9		Tura
																														West Bengal
6·7	..	6·8	12·52	..	1·94	20	18	..	5·6	..	0	2	9	7	6	6	0	0	1	0	2	2	6	13	6	1	0	1		Dum Dum
6·3	—0·4	6·9	13·16	+0·24	2·11	5	18	0	3·3	—0·1	0	3	6	3	3	8	1	0	7	0	2	1	5	7	6	0	1	9		Calcutta
6·3	—0·5	6·2	12·78	—0·50	3·22	17	16	—0·3	12·5	+1·9	2	3	4	2	4	10	5	0	1	1	1	2	4	10	12	1	0	0		Saugor Island
7·3	+1·5	6·6	14·11	+5·27	2·58	16	12	0	..	..	1	1	0	2	2	21	3	1	0	0	1	0	3	5	21	1	0	0		Sandheads
6·3	+0·6	6·7	7·39	+5·36	1·23	3	14	—2·8	2·7	+0·5	4	5	5	2	8	3	0	0	4	2	0	2	3	17	3	0	0	4		Midnapore
5·6	..	5·4	10·18	..	3·88	8	12	..	5·7	..	6	2	2	3	5	8	2	2	1	1	1	0	11	5	11	0	1	1		Contai
3·5	—3·1	3·7	9·53	—2·39	1·90	29	17	+0·8	4·6	+2·3	0	3	10	5	2	5	0	2	4	0	2	8	10	3	5	1	1	1		Burdwan
6·3	+0·1	6·5	10·57	+0·19	3·04	22	22	+6·7	3·4	—0·1	1	1	11	6	11	0	1	0	0	0	2	7	2	17	2	0	0	1		Krishnagar
6·7	+0·1	6·7	9·49	—3·79	1·43	29	18	+1·0	4·2	—0·5	0	2	11	4	0	2	3	2	7	0	2	9	9	2	1	2	0	6		Asansol
7·4	+0·8	7·0	5·97	—5·44	1·75	23	10	—6·3	2·7	—0·3	0	0	11	3	8	1	1	0	7	0	0	10	4	8	3	0	0	6		Berhampore
6·5	+0·9	6·0	14·03	+3·01	4·85	23	12	—2·6	5·1	+0·4	0	1	13	7	3	4	1	0	2	0	1	9	12	4	3	0	0	2		Malda
																														Cooch Behar (R)
6·4	+1·4	5·8	17·37	—7·90	2·93	27	17	—3·4	3·5	+1·8	2	11	8	1	2	1	1	0	5	2	5	6	5	4	4	0	0	5		Jalpaiguri
7·2	..	6·2	26·25	..	3·78	27	20	..	2·5	..	2	6	10	4	0	0	1	0	8	2	4	4	5	2	0	0	0	14		Bagdogra
																														Orissa
7·7	+1·9	7·6	16·91	+5·15	4·28	16	13	—1·8	5·0	+1·4	3	4	1	1	5	13	1	2	1	2	0	1	7	5	10	2	0	4		Balasore
(h) 4·2	—1·9	(e) 5·0	12·03	..	..	..	..	..	..	..	1	1	0	0	3	8	9	1	0	0	0	1	5	6	10	3	0	0		Chandbali
7·0	+1·4	7·3	6·29	—4·63	1·25	4	11	—1·9	10·9	+1·0	2	1	0	0	0	13	10	5	0	0	0	0	1	1	21	5	2	1		Puri
6·1	+0·1	6·2	12·81	—0·59	3·02	4	13	—2·8	2·7	+0·5	0	0	0	0	0	0	5	1	25	0	0	0	1	1	2	5	0	22		Cuttack
7·3	+2·3	7·3	7·39	—0·31	2·08	11	9	—1·8	7·1	—0·6	1	0	0	0	3	9	3	0	15	1	0	0	2	5	18	1	0	4		Gopalpur
7·7	..	7·7	18·06	..	3·07	5	22	..	..	..	2	0	0	0	1	5	19	4	0	2	0	0	0	0	5	22	2	0		Koraput
7·6	+1·6	7·8	8·75	—2·81	1·94	30	17	+1·9	3·5	—1·4	1	1	0	1	0	5	11	2	10	1	0	1	2	2	10	7	2	6		Angul
7·1	+0·5	6·6	14·66	—4·38	2·78	16	17	—1·9	5·1	—1·5	1	1	0	0	5	18	4	2	0	1	0	1	0	11	10	3	2	3		Sambalpur
7·5	..	7·8	15·93	..	2·72	16	14	..	..	..	1	1	0	0	4	13	3	0	9	0	0	1	0	5	8	6	0	11		Jharsuguda
7·2	..	6·6	17·34	..	3·73	17	19	..	3·1	..	0	0	0	0	8	12	4	1	6	1	0	0	0	3	8	5	4	10		Titilagarh
																														Chota Nagpur
6·8	..	7·2	11·29	..	3·00	30	17	..	3·0	..	0	7	3	4	1	8	3	3	2	0	2	5	9	1	8	5	0	1		Purulia
7·1	+0·2	7·4	11·62	—3·79	3·64	7	14	—4·0	4·3	+0·3	0	2	4	1	0	4	10	3	7	1	2	11	2	1	4	4	0	6		Jamshedpur
7·5	+1·1	7·6	11·10	—1·14	3·06	17	13	—3·6	1·8	—0·3	1	5	1	0	1	12	3	0	8	1	5	0	0	2	8	3	0	12		Chaibasa
5·5	—1·2	5·7	11·35	—2·49	1·70	19	17	—1·6	2·9	—1·7	1	1	0	0	2	1	2	0	24	1	1	0	0	0	0	0	0	29		Ranchi
7·1	—0·1	6·7	8·77	—4·44	2·29	15	15	—2·6	4·6	—1·3	2	5	5	3	1	1	3	8	3	1	2	4	7	3	2	1	5	6		Hazaribagh
5·7	+0·7	6·5	10·76	—2·75	1·9[illegible]	23	16	—0·4	3·2	—0·1	1	1	4	3	0	0	12	4	6	0	1	3	2	0	0	11	3	11		Daltonganj
7·0	..	7·1	9·09	..	1·50	15	14	..	5·8	..	1	7	6	1	3	5	4	1	3	2	5	8	4	4	5	2	0	1		Dhanbad

(h) Mean of 23 days. (e) Mean of 26 day

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Rel hum	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Bihar																					
Purnea	124	998·6	+0·5	994·9	90·6	+1·5	94	11	79·3	+0·8	76	23,31	84·2	86·2	80·6	81·3	34·2	+0·8	34·1	85	—
Darbhanga	161	996·3	—0·1	993·5	90·2	+1·1	94	20,30	80·3	+1·2	77	24,25	85·4	87·9	81·6	82·6	34·8	+2·3	35·3	85	+
Motihari	218	994·4	—0·3	991·2	91·7	+2·3	96	11	79·9	+1·6	77	22,24,25	85·8	87·4	80·7	81·6	33·7	+1·1	33·9	80	—
Patna	173	995·8	+0·2	992·6	91·7	+2·6	95	11	80·8	+1·1	76	15	85·4	88·7	80·3	81·0	33·2	—0·1	32·9	79	—
Dehri	352	989·3	..	986·2	91·5	..	95	4,10	79·7	..	76	12,15	83·1	86·3	80·1	81·2	33·7	..	34·3	86	..
Gaya	365	988·9	+0·1	985·4	91·8	+1·9	96	11	79·5	+1·3	73	1	83·9	88·4	79·7	80·6	33·1	+2·0	32·1	82	+
Jamui	270	992·5	..	989·1	90·8	..	95	11	79·7	..	77	12,15,24	84·3	86·3	80·4	81·1	33·5	..	34·3	84	..
Dumka	489	985·3	+0·1	982·1	89·8	+1·3	94	12	..	..	..	..	84·0	85·0	79·7	80·1	32·4	+0·5	32·7	81	—
Sabour	122	997·7	—0·1	994·3	91·0	+2·0	96	11	80·0	+0·8	77	12,15,24	84·8	86·9	81·2	82·0	34·9	+1·3	35·0	85	(
Bhagalpur	181	996·3	..	993·1	91·5	..	96	11	80·3	..	77	24	85·9	87·6	81·4	82·0	34·6	..	34·9	82	..
U.P., East																					
Gonda	360	989·5	..	986·4	91·2	+1·4	96	6	79·5	+1·0	75	11	83·8	87·4	80·0	81·9	33·2	—0·2	34·2	84	0
Gorakhpur	254	992·6	—0·3	989·5	92·4	+2·8	97	11	80·6	+1·9	77	3	84·9	89·3	80·1	81·5	32·7	0	32·5	80	—5
Azamgarh	255	992·2	..	989·2	92·7	..	98	30	79·5	..	73	11	85·1	88·7	80·5	82·3	33·5	..	35·0	82	..
Banaras	250	992·8	+0.3	989.6	98·0	+2·4	96	2,11	79.6	+1·1	77	16	83·8	88·1	80.2	81·5	34.0	+1·6	33·6	85	+1
Allahabad (Bamrauli).	322	990·3	+0·3	987·5	90·8	+1·4	97	2	79·2	+0·7	76	16,17	83·1	87·5	79·5	81·3	32·8	+0·3	33·4	85	+1
Fatehpur	375	988·7	..	985·6	(a) 91·5	+1·8	99	2	79·9	+1·4	77	16,17	82·5	87·7	77·0	79·3	..	..	..	..	..
Banda	398	987·7	..	985·2	90·9	..	97	31	78·6	..	73	23	82·3	86·7	..	..	..	..	..	..	..
Orai	463	985·6	..	983·0	90·3	..	97	31	78·2	..	76	5 days	82·4	86·6	78·8	80·5	31·7	..	33.4	85	..
Kanpur	414	987·4	+0·6	984·4	90·2	+0·5	99	2	79·5	+0·8	75	23	83·5	88·4	79·0	80·2	31·3	—0·9	31·3	81	—6
Lucknow	371	989·2	+0·9	985·9	92·2	+1·7	97	31	80·3	+1·7	76	3	83·8	89·2	80·1	81·0	33·3	+1·7	32·5	84	+1
Hardoi	467	985·4	..	983·4	92.7	..	98	31	79·5	..	76	12	83·0	89·0	79·5	81·2	32·8	..	32·5	85	..
Kheri	483	985·3	..	982·1	91·5	..	96	6	78·5	..	74	25	83·5	86·9	79·3	80·9	32·1	..	33·4	82	..
Bahraich	407	988·0	+0·7	985·4	91·2	+1·1	97	6	79·2	+0·8	76	6,24	83·8	88·6	79·6	81·0	33·2	+1·3	33·3	83	+1
U.P., West																					
Jhansi	823	974·3	—0·7	971·4	(f) 88·2	—1·1	93	31	77·3	+0·4	75	13,27	80·8	85·1	76·7	78·6	29·9	+0·5	30·3	83	+3
Agra	553	982·7	+0·6	979·8	92·2	+0·8	98	10,30,31	78·5	—0·4	71	13	82·0	89·6	78·1	79·9	30·9	+1·3	31·3	81	+4
Mainpuri	516	984·1	+0·8	980·4	92·8	+1·0	99	6	79·5	+1·0	76	12	83·7	88·7	79·8	81·1	33·2	+1·7	33·3	84	+3
Aligarh	615	980·6	..	977·6	93·2	+1·7	98	28,30,31	79·1	+0·8	76	30	83·9	90·2	79·1	80·7	31·6	+1·0	31·2	81	+3
Bareilly	568	982·0	+0·1	978·8	92·3	+2·1	97	6	79·1	+0·9	75	21,22	84·4	89·4	79·6	80·7	31·6	—0·2	31·7	81	—3
Meerut	728	976·9	+0·6	..	92·1	+1·0	97	30	79·3	+1·0	75	4 days	84·1	..	78·4	..	30·8	+1·0	..	80	0
Roorkee	899	970·9	+0·1	967·6	92·0	+2·3	99	6	77·0	—0·1	71	29	81·8	89·8	78·1	81·0	31·7	+1·5	32·0	85	+3
Dehra Dun	2,239	927·4	+0·3	925·2	85·9	+1·4	91	6,12	73·1	+0·2	71	4 days	78·3	82·3	75·0	76·9	27·7	+0·5	28·9	86	+1
Punjab (I)																					
New Delhi	710	977·1	+0·2	974·1	94·5	+1·5	99	30,31	80·2	+1·8	76	2,4,12	84·3	90·9	77·7	79·4	29·3	—0·6	29·2	74	—3
Hissar	725	976·5	+0·5	973·9	97·1	+0·8	104	7,31	79·4	+0·4	74	2,30,31	83·0	93·7	77·8	79·9	30·1	+1·1	28·6	79	+9
Karnal	818	973·4	..	969·9	92·7	..	98	30,31	78·7	..	74	13	82·7	90·4	78·0	79·0	31·6	..	28·1	80	..
Ambala	892	969·9	—0·7	967·5	95·0	+1·8	102	31	77·2	—0·8	73	14	81·9	91·4	78·3	81·0	31·7	+1·2	29·2	83	+4
Patiala	822	(a) 972·8	..	970·2	94·5	..	103	31	78·6	..	73	27	82·5	90·9	77·9	80·2	31·3	..	29·6	81	..
Ludhiana	810	973·4	+0·3	971·3	94·8	—0·1	100	30,31	78·4	—0·8	73	8,28	83·8	91·7	78·3	80·6	30·8	+1·0	31·1	78	+3
Ferozepore	657	978·7	..	976·0	98·6	..	101	31	79·2	...	73	27,31	84·3	91·5	78·3	80·8	30·0	..	30·8	75	..
Amritsar	756	974·6	..	972·3	93·8	..	100	31	77·7	..	69	28	83·5	91·3	78·7	80·4	30·5	..	30·0	80	..

(a) Mean of 30 days. (f) Mean of 21 days. (f) Mean of 22 days.

Cloud amount, (Oktas)			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																			STATION.
											0830 hrs. I.S.T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I. S. T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	
																														Bihar
6·4	+0·6	5·5	7·42	−5·73	1·56	31	12	−4·2	3·4	+1·1	0	1	20	5	2	1	0	0	2	0	0	13	3	0	1	0	0	14	Purnea	
6·3	+0·2	5·9	8·00	−5·51	3·74	24	10	−3·8	1·8	−1·4	0	6	13	6	0	2	1	0	3	0	7	3	10	0	4	0	1	6	Darbhanga	
5·4	+0·3	4·6	9·14	−3·83	2·64	21	10	−3·2	3·5	−0·3	0	0	22	0	2	0	4	0	3	0	0	13	0	0	0	3	0	15	Motihari	
6·0	−0·9	6·2	7·01	−6·08	2·87	22	10	−3·9	5·6	+1·7	1	11	3	5	1	5	3	0	2	0	15	3	2	0	4	3	1	3	Patna	
6·5	..	7·0	9·82	−3·40	2·47	19	14	−0·6	3·3	..	0	3	6	8	1	7	0	6	0	0	5	7	6	0	3	1	5	4	Dehri	
6·4	+1·2	6·5	11·83	1·92	3·40	11	17	+1·3	6·1	+0·9	1	5	10	1	1	6	3	0	4	1	7	8	1	1	1	8	1	3	Gaya	
6·2	..	6·3	4·18	..	1·23	24	12	..	3·1	..	1	3	7	11	0	0	1	8	0	1	4	6	4	1	0	2	4	9	Jamui	
3·6	−2·2	4·7	14·44	+1·50	1·84	18	18	+0·4	..	..	0	4	12	5	2	4	3	1	0	0	2	15	7	1	2	3	1	0	Dumka	
6·3	0·3	6·5	10·07	−0·44	3·68	15	15	0	5·2	−0·4	0	1	12	11	2	0	5	0	0	0	3	12	7	1	2	3	2	1	Sabour	
6·5	..	6·0	8·56	..	2·53	15	15	..	4·5	..	0	2	15	6	0	3	3	0	2	0	0	11	8	1	4	4	1	2	Bhagalpur	
																														U. P., East
4·7	−1·5	5·3	12·89	−2·76	3·26	23	12	−1·5	3·4	−0·2	0	0	16	1	0	0	5	2	7	1	1	5	0	0	1	2	0	21	Gonda	
4·2	−0·6	4·1	4·97	−8·78	1·84	3	8	−6·9	2·9	+0·9	0	0	17	1	1	5	1	0	6	1	1	7	2	0	6	1	2	11	Gorakhpur	
4·9	..	4·9	5·97	..	1·32	21	9	..	..	..	0	0	7	0	0	5	2	0	17	1	0	7	0	0	4	2	0	17	Azamgarah	
6·3	−0·2	5·8	8·71	−3·30	3·14	16	9	−5·9	5·7	−2·5	2	4	5	3	0	8	3	1	5	4	4	3	0	1	5	8	5	1	Banaras	
6·9	+0·1	6·6	17·03	+7·00	3·53	12	18	+3·3	4·2	−0·1	1	3	3	1	0	8	7	4	4	3	2	4	0	1	3	11	4	3	Allahabad (Bamrauli)	
5·0	−1·0	5·3	9·00	−1·03	1·74	22	11	−3·4	..	..	0	1	4	0	0	8	2	3	13	0	1	3	0	0	8	1	2	16	Fatehpur	
5·1	..	4·9	12·78	..	3·32	2	15	..	2·4	..	0	0	2	0	2	4	14	1	8	1	1	1	1	0	1	20	0	6	Banda	
6·0	..	6·7	13·08	..	2·15	2	18	..	5·6	..	7	1	4	0	0	4	13	2	0	2	2	1	4	1	4	10	7	0	Orai	
5·7	+1·1	6·1	5·28	−5·92	0·92	18	13	−0·3	6·4	0	1	4	4	2	1	4	10	2	3	6	3	4	1	0	5	7	2	3	Kanpur	
5·3	0·6	5·1	10·51	−0·99	4·74	3	14	+0·3	2·7	+0·8	3	0	8	8	1	3	2	3	3	5	3	9	1	2	3	3	3	2	Lucknow	
4·3	..	4·3	4·48	..	1·25	12	10	..	3·5	..	5	0	5	10	0	3	1	6	1	5	1	8	4	1	7	0	4	1	Hardoi	
5·1	..	5·2	10·53	..	2·87	24	11	..	2·2	..	0	2	7	11	2	0	3	4	2	0	2	7	3	0	0	7	3	9	Kheri	
5·4	+0·9	5·7	9·64	−3·15	1·90	13	12	−0·5	4·1	+1·9	2	0	11	8	1	3	0	3	3	1	4	4	5	0	4	0	5	8	Bahraich	
																														U. P., West
5·1	+0·1	6·0	7·72	−3·87	1·66	3	17	+3·7	2·8	−0·7	0	1	2	0	0	1	13	0	14	1	0	0	0	0	1	9	1	19	Jhansi	
4·0	−1·6	4·5	10·62	+2·51	4·47	17	11	+0·7	2·8	−0·9	0	0	3	0	0	4	6	1	17	0	1	2	0	1	3	3	2	19	Agra	
5·9	+0·4	4·8	7·57	−1·48	2·23	17	10	−0·5	..	..	1	1	4	1	1	4	6	2	11	0	3	2	3	0	6	2	2	13	Mainpuri	
5·5	+0·9	6·0	5·54	−2·39	2·15	17	8	−1·4	..	..	0	0	3	0	0	0	10	1	17	1	0	7	0	0	0	4	4	15	Aligarh	
5·0	−1·9	5·8	10·98	−0·62	2·51	2	13	+0·7	2·4	+0·6	1	1	8	2	1	2	2	3	11	1	0	3	4	0	0	7	0	16	Bareilly	
2·2	−3·0	..	7·43	−1·37	3·75	16	6	−3·8	5·1	..	0	5	3	1	0	0	3	5	14	..	..	..	..	..	..	..	..	..	Meerut	
4·5	0·8	4·0	13·58	+2·36	3·13	16	13	+1·2	(i) 3·0	+1·0	1	0	1	11	1	0	0	3	14	1	1	0	5	0	2	0	7	15	Roorkee	
5·0	−1·5	5·6	39·41	+10·62	13·08	22	19	−2·3	1·6	+0·2	2	2	0	1	1	2	0	2	21	1	3	1	2	1	7	1	1	14	Dehra Dun	
																														Punjab (I)
4·8	+0·3	5·2	3·13	−4·10	1·08	16	5	−4·0	7·7	..	2	0	5	3	0	1	10	5	5	5	1	5	5	1	2	2	9	1	New Delhi	
2·4	−0·6	2·2	3·63	−1·24	1·42	2	6	+0·5	5·1	+0·2	1	4	1	4	5	6	5	2	3	1	4	2	4	3	6	2	3	6	Hissar	
4·2	..	3·7	5·51	..	2·70	12	8	..	3·0	..	0	4	5	2	2	3	8	1	6	0	2	4	4	1	6	9	2	3	Karnal	
4·0	−0·7	4·1	9·11	+1·22	4·15	10	10	+1·0	4·0	+1·7	0	0	2	3	0	0	0	4	22	0	0	4	1	0	1	1	3	21	Ambala	
4·2	..	4·0	4·00	...	1·50	2	7	...	4·1		4	0	0	15	0	1	1	7	5	2	0	0	12	0	0	0	10	7	Patiala	
3·4	−0·3	5·0	3·66	−2·99	1·52	18	4	−3·3	0·7	−0·8	0	0	2	3	0	0	1	1	24	0	0	0	1	0	0	1	1	28	Ludhiana	
2·5	..	2·7	3·70	..	2·66	2	4	..	..	..	0	0	0	2	0	2	0	7	20	0	1	0	1	0	3	0	3	23	Ferozepore	
3·5	..	3·1	6·23	..	2·90	13	9	..	6·0	..	1	2	7	4	4	3	3	3	4	2	4	4	4	3	4	3	6	1	Amritsar	

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jammu & Kashmir																						
Srinagar	5,205	836·7	+1·2	834·0	83·6	−3·0	92	7	64·4	+1·0	52	28	69·3	80·4	65·6	68·6	20·2	+0·2	19·1	83	0	57
Gulmarg	8,709	738·2	+1·0	..	66·9	−2·0	78	6	48·6	−3·6	37	28,29	57·6	..	54·7	..	13·7	−0·2	..	85	+4	..
Dras (R)	10,059																					
Leh	11,529	(a) 665·5	+0·1	662·8	(a) 74·8	−1·1	83	7	(a) 49·0	−0·7	38	29	(a) 60·1	68·6	(a) 49·9	54·5	9·6	−0·1	10·4	47	−12	41
Skardu (R)	7,504																					
Gilgit (R)	4,890																					
Misgar (R)	10,190																					
Rajasthan, West																						
Sri Ganganagar	580	980·6	..	977·8	98·6	−1·3	104	7	80·2	−0·2	75	30,31	(b) 85·7	93·6	78·3	80·1	(b) 29·9	+1·9	29·4	(b) 70	+7	56
Bikaner	734	976·1	+0·5	973·1	98·5	+0·9	106	7	80·3	−0·1	76	12,13,15	83·7	95·4	75·8	77·9	27·0	−1·7	24·3	68	−4	46
Jaisalmer	793	973·9	..	971·0	97·4	..	104	8	77·7	..	74	11,12,30	80·6	95·6	74·5	77·9	26·9	..	25·3	74	.	44
Jodhpur	736	977·3	+2·0	974·8	91·0	−0·8	99	9	(a) 77·8	+0·8	75	5 days	80·6	89·1	75·5	77·4	28·4	+0·8	27·0	78	−1	59
Phalodi	783	974·6	..	972·2	93·7	..	104	9	78·5	..	73	15	81·1	93·1	76·9	81·2	29·9	..	30·7	82	..	62
Barmer	638	980·5	+1·0	977·5	95·7	+3·2	103	9	78·5	+1·6	73	15	81·3	92·7	77·5	82·5	29·9	+2·2	33·2	84	+5	65
Rajasthan, East																						
Sikar	1,419	954·4	..	951·8	92·0	..	99	6	76·3	..	70	6	80·3	89·5	76·2	80·2	28·8	..	30·1	78	..	67
Jaipur	1,431	954·3	+0·4	951·5	89·5	−1·4	96	7,31	75·4	−0·5	70	28	79·6	86·0	74·9	76·9	27·0	−0·5	27·6	80	+2	66
Ajmer	1,593	949·0	+0·4	946·7	87·3	−0·4	93	6	76·2	+0·2	74	4 days	77·7	85·6	73·0	75·2	26·[illegible]	−0·5	25·4	80	+3	63
Kotah	843	973·8	+0·5	971·3	89·4	−0·2	94	1	79·5	+1·8	75	17,18	82·2	86·7	75·6	77·5	27·2	−0·6	28·7	73	−2	66
Jhalawar	1,053	967·3	+0·9	964·7	87·6	+0·5	95	31	75·8	+0·8	72	27,28	78·3	85·0	74·7	76·6	27·6	−0·8	27·3	84	0	69
Udaipur	1,910	939·5	+0·8	937·5	84·2	−1·3	89	7	73·4	−0·4	68	30	77·0	81·7	72·1	74·3	24·5	−0·4	25·8	78	0	71
Madhya Bharat																						
Gwalior	681	978·7	...	975·8	89·9	..	94	30	78·4	..	75	22	83·2	86·6	78·0	79·5	30·4	..	31·2	79	..	73
Sheopur Kalan	771	..	..	..	89·1	..	96	30	76·2	..	73	4 days	79·9	86·5	77·9	80·4	31·8	..	32·7	91	..	77
Guna	1,571	950·0	+0·8	947·8	85·0	−0·3	91	31	73·7	+0·1	70	29	76·7	82·1	74·2	76·2	27·6	0	28·5	89	+3	77
Neemuch	1,626	949·1	+0·9	947·0	85·6	+0·8	91	7	73·7	+0·9	70	26	76·5	82·7	73·0	76·0	26·3	0	27·9	84	−1	73
Ratlam	1,596	950·3	..	948·3	82·6	..	87	9,31	72·5	..	70	18,30,31	73·9	80·9	72·5	74·7	26·7	..	26·8	92	..	75
Indore	1,839	942·2	+0·2	940·0	82·6	0	89	31	71·0	−0·3	66	30,31	73·9	80·0	71·6	73·1	25·5	0	25·0	90	+3	73
Bhopal (Bairagarh)	1,714	946·0	+0·7	943·5	83·6	0	90	31	72·6	0	68	29	75·2	80·7	72·2	74·1	25·8	−1·2	26·1	86	−1	74
Gwalior (Madhosagar)*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Vindhya Pradesh																						
Nowgong	750	976·6	+0·6	973·7	87·5	0·6	96	31	76·7	−0·2	73	26	80·1	85·7	77·1	78·8	30·4	+0·5	30·5	87	+4	73
Sutna	1,041	966·4	+0·5	963·7	87·3	+1·3	92	2,31	76·8	+0·6	75	7 days	79·6	83·6	76·8	78·7	30·2	+0·7	31·4	88	+4	80
Umaria	1,506	950·9	..	948·7	84·3	−0·6	93	1	71·4	−3·0	68	23	77·6	81·3	75·1	77·1	28·7	+0·8	30·1	89	+6	83
Madhya Pradesh, East																						
Gondia	1,026	969·4	..	967·0	84·7	..	90	21,27,30	75·4	..	72	23	75·0	81·2	74·4	75·8	27·5	..	28·0	84	..	79
Pendra	2,040	933·9	+0·3	931·3	83·6	+1·4	88	1	73·3	+1·4	71	4 days	77·0	78·7	74·0	74·9	27·5	+1·0	28·0	87	+2	84
Raigarh	723	977·4	..	976·2	88·2	..	93	20	76·8	[illegible]	74	30,31	80·5	83·3	77·6	78·3	31·1	..	30·8	87	..	80
Ambikapur	1,989	935·8	..	933·2	85·1	..	88	1,13,14	73·5	..	71	4,23,24	76·7	79·2	74·2	75·7	27·8	..	28·9	89	..	84
Champa	805	975·5	..	972·2	88·6	..	92	29	77·0	..	73	30,31	79·8	82·5	77·3	78·1	30·9	..	30·9	89	..	82
Raipur	979	969·9	+0·6	966·8	86·1	+0·3	92	29	75·2	+0·4	72	12, 23	78·0	82·0	75·5	77·4	29·1	+0·4	30·1	89	+3	81

(R) Register not received. * Closed from 13-8-51 (a) Mean of 30 days. (b) Mean of 29 days.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																		STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Jammu & Kashmir
4·4	+0·6	3·6	3·12	+0·70	1·03	17	6	+0·7	1·5	−0·8	3	0	0	5	6	1	2	1	13	3	0	0	3	1	0	1	1	22	Srinagar
5·1	+0·9	..	4·15	−0·49	0·76	18	8	−1·7 −0·2	2·5	−0·2	2	1	1	4	4	2	7	4	6	..	..	..	..	..	..	..	..	..	Gulmarg
																													Dras (R)
4·3	+0·5	4·7	0·62	+0·03	0·27	14	3	+1·1	(a) 3·2	+1·5	0	0	0	0	0	2	0	0	28	0	4	0	1	2	8	5	2	9	Leh
																													Skardu (R)
																													Gilgit (R)
																													Misgar (R)
																													Rajasthan, West
1·2	−0·5	1·9	2·22	+0·17	1·04	19	3	−0·3	3·9	−2·0	0	1	6	4	1	16	2	0	1	1	5	2	1	2	12	2	2	4	Sri Ganganagar
2·2	−0·8	2·7	3·71	+0·11	3·05	12	4	−0·9	7·0	+0·7	0	0	1	2	1	20	1	6	0	0	1	1	5	0	20	0	3	1	Bikaner
3·1	..	3·0	3·08	..	1·45	11	5	..	16·0	..	0	2	0	0	0	28	0	0	1	0	3	1	1	3	21	1	0	1	Jaisalmer
5·2	−0·8	4·4	6·37	+1·53	4·02	13	6	+0·1	7·0	−2·1	0	1	1	0	1	25	2	1	0	1	0	2	0	1	24	2	0	1	Jodhpur
3·2	..	3·5	4·65	−1·48	1·95	12	4	−0·4	12·5	..	1	0	2	0	3	20	4	1	0	1	2	0	2	8	16	1	1	0	Phalodi
5·7	+0·3	4·1	6·51	+1·24	4·47	15	5	−0·8	8·5	+2·1	1	0	0	0	3	21	2	0	4	0	3	0	0	13	13	1	0	1	Barmer
																													Rajasthan, East
4·4	..	4·6	6·77	..	2·15	13	7	..	0·8	..	0	1	2	0	4	8	8	3	5	2	1	1	4	3	12	5	1	2	Sikar
5·5	+0·1	5·8	6·33	−0·73	1·51	17	10	−0·2	4·5	0	4	1	1	1	1	1	3	16	3	2	0	2	1	1	2	9	7	7	Jaipur
5·7	+0·7	5·5	4·05	−2·70	1·70	18	8	−0·4	8·5	+3·4	0	1	1	0	0	18	10	0	1	1	1	1	0	1	14	11	0	2	Ajmer
5·2	0	6·1	2·94	−6·72	1·22	8	6	−4·4	5·8	+2·4	1	1	0	1	0	2	19	1	6	2	1	2	1	0	5	14	2	4	Kotah
4·7	−1·5	4·7	8·32	−3·19	1·93	8	13	+0·2	5·7	+1·8	0	1	0	1	0	6	22	0	1	1	1	1	0	0	5	18	4	1	Jhalawar
6·4	+0·6	6·6	3·54	−3·47	1·56	9	5	−3·6	4·8	..	0	1	0	1	4	7	16	0	2	0	1	0	0	2	21	6	1	0	Udaipur
																													Madhya Bharat
6·3	..	6·4	13·84	..	2·28	12	15	..	3·5	..	1	3	1	1	1	3	14	7	0	0	1	0	2	1	3	9	12	3	Gwalior
..	..	..	9·54	..	1·62	22	13	..	..	..	3	2	1	0	12	8	5	0	0	2	3	2	1	6	4	10	3	0	Sheopur Kalan
6·9	+0·9	6·2	12·01	−3·44	2·70	4	13	−0·6	7·1	+1·2	1	1	1	0	0	4	23	1	0	0	1	1	0	0	7	15	6	1	Guna
6·8	+0·8	7·7	2·53	−6·62	0·90	9	4	−6·0	8·9	+1·0	0	1	0	0	0	13	16	1	0	1	3	0	0	0	13	14	0	0	Neemuch
7·7	..	7·1	4·77	..	2·11	8	7	..	7·3	..	1	0	0	0	0	9	19	2	0	0	0	0	0	0	8	21	2	0	Ratlam
7·2	0	6·6	6·62	−1·53	1·82	9	8	−3·3	11·2	+1·6	0	0	0	0	0	6	24	1	0	1	0	0	0	0	5	18	6	1	Indore
7·2	+0·6	6·9	9·37	−1·57	2·54	8	12	−2·8	10·8	+3·7	0	1	0	0	0	5	18	7	0	1	1	0	0	0	4	12	11	2	Bhopal (Bairagarh)
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Gwalior (Madhosagar*)
																													Vindhya Pradesh
6·6	+0·3	6·0	13·36	+0·27	2·07	5	18	+4·1	3·7	+1·2	0	1	1	0	1	17	3	3	5	0	3	0	0	2	13	2	7	4	Nowgong
7·0	+0·6	6·3	11·27	−1·93	2·62	18	12	−3·1	4·0	−0·3	0	0	2	0	0	5	9	2	13	2	2	1	0	0	4	4	2	16	Sutna
7·2	+0·2	7·3	28·18	+15·06	4·10	10	20	+4·0	4·2	+0·3	0	1	1	1	0	10	2	16	0	0	2	0	2	0	6	2	18	1	Umaria
																													Madhya Pradesh, East
6·2	..	6·0	15·60	..	2·58	7	19	..	3·3	..	3	1	0	1	1	14	1	8	2	4	1	0	2	0	9	11	2	2	Gondia
6·1	+0·5	7·2	22·20	+7·88	3·33	23	19	+0·6	3·8	0	6	0	0	1	3	2	8	9	2	4	1	0	0	3	6	6	10	1	Pendra
7·5	..	7·1	13·99	..	2·15	17	19	..	4·3	..	1	4	1	3	3	5	8	6	4	2	2	0	0	1	7	4	5	10	Raigarh
6·4	..	6·2	20·92	..	3·89	2	23	..	5·0	..	4	4	1	2	2	3	9	5	1	4	5	0	0	1	4	10	7	0	Ambikapur
7·2	..	7·7	17·57	..	3·08	21	19	..	5·4	..	0	0	0	0	1	8	15	2	4	2	0	0	0	1	7	12	7	2	Champa
7·6	+1·3	7·7	18·36	+4·04	4·02	16	18	+2·5	7·3	−0·1		0	1	0	2	10	17	1	0	0	0	0	0	2	10	12	3	4	Raipur

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION.	Height of barometer cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Madhya Pradesh, East—*contd.*																						
Kanker	1,318	959·6	+0·9	956·8	83·0	−1·4	88	21,29,30	74·5	+0·8	72	1,31	77·6	80·3	74·1	75·2	27·2	+0·1	27·6	84	+2	78
Chanda	634	982·9	+0·4	979·9	86·6	−0·7	94	21	75·7	+0·5	74	6 days	78·7	84·1	74·5	76·3	27·3	−0·4	27·4	82	+2	70
Sironcha	405	991·6	..	988·2	86·9	..	93	30	76·1	..	73	24	78·7	84·5	76·2	77·8	29·7	..	29·5	89	..	74
Jagdalpur	1,815	943·7	+1·0	941·5	81·5	−1·4	89	30	71·5	+0·2	69	12	75·7	77·1	73·3	73·7	27·0	+0·1	27·0	89	+4	85
Madhya Pradesh, West																						
Buldhana	2,133	933·9	..	931·5	81·4	..	85	25,30	70·1	..	68	25,27	71·8	78·3	69·5	72·4	23·7	..	24·8	89	..	77
Akola	925	973·5	+0·5	970·3	86·9	−0·5	93	31	74·2	+0·5	72	18	77·6	84·7	73·2	75·1	26·6	+0·9	25·3	80	0	64
Amravati	1,213	963·5	+0·5	960·7	84·6	−1·3	94	31	73·7	+0·6	72	18,27,29	76·1	83·0	72·8	74·5	26·1	+0·2	25·3	85	+2	63
Yeotmal	1,481	954·9	..	952·1	84·2	..	93	31	72·3	..	71	5 days	75·8	80·8	72·5	73·9	25·8	..	25·5	84	..	73
Khandwa	1,044	969·0	+0·5	966·0	86·0	+0·2	103	29	73·6	−0·4	71	30	77·3	83·9	74·2	76·3	27·5	+1·3	27·5	85	+2	70
Hoshangabad	992	969·7	−0·1	967·3	84·5	0	92	13,31	74·8	+0·3	71	28	76·3	83·0	74·3	76·9	28·1	+0·2	28·8	90	+2	77
Sagar	1,808	941·8	+0·4	939·3	82·3	−1·1	89	31	73·5	+0·9	70	28	75·3	80·0	73·2	74·7	27·1	+0·9	27·8	90	+4	79
Jabalpur	1,289	959·2	+0·7	956·5	84·8	+0·3	92	31	74·7	+1·1	72	30	77·0	82·1	74·5	76·3	28·0	+0·8	28·3	89	+5	76
Mandla	1,452	954·0	..	951·5	85·3	..	89	20	73·4	..	71	4 days	77·0	80·5	74·4	76·1	27·9	..	28·8	88	..	81
Seoni	2,027	936·4	+1·6	934·2	82·1	−0·6	90	15	71·6	+0·1	68	23	74·8	78·4	72·4	73·6	26·2	+0·5	26·3	89	+5	80
Chhindwara	2,248	928·5	..	926·4	81·1	..	88	31	71·5	..	68	27	74·7	77·8	71·8	72·5	25·9	..	25·1	87	..	78
Betul	2,144	932·5	..	930·3	79·5	..	86	31	71·0	..	66	29	73·0	77·4	70·7	72·3	24·9	..	25·1	89	..	78
Nagpur	1,010	969·8	+0·6	967·0	86·2	−1·1	94	30	74·9	−0·1	71	6	78·4	83·0	74·4	75·3	27·3	+1·9	26·4	83	+8	70
Gujarat																						
Deesa*	466																					
Surat	39	1004·0	+0·5	1002·0	86·8	+0·3	91	31	78·1	+1·1	75	11	80·6	84·4	77·6	78·1	31·0	+1·1	30·0	87	+5	75
Ahmedabad	182	998·3	+0·6	995·2	89·8	+0·1	93	7 days	76·7	+0·7	75	7 days	79·5	87·4	77·0	79·2	30·5	+1·9	30·3	89	+7	70
Dohad	1,093	967·5	..	965·0	84·2	−1·1	87	7,30,31	73·8	−0·5	71	18,19	76·3	82·5	73·9	75·8	27·5	−0·4	27·4	89	0	73
Baroda	115	1001·2	..	998·2	90·1	+0·5	94	5	77·2	+0·6	74	18	79·9	87·4	77·6	79·3	31·3	+2·0	30·4	90	+8	70
Broach	57	1003·2	..	1000·7	89·3	..	94	29,31	78·7	..	77	6 days	80·7	86·8	78·6	80·8	32·5	..	33·2	91	..	77
Saurashtra and Kutch																						
Bhuj	343	991·7	+0·8	990·8	89·1	+0·7	93	2,1	77·7	+1·3	74	29	80·4	86·2	75·7	76·0	28·2	−0·5	26·0	80	+1	61
Dwarka	37	1002·9	+0·6	1001·3	84·8	+0·1	87	4 days	79·4	+0·8	77	12,13	80·7	82·6	77·7	78·7	31·1	+1·2	31·8	87	+1	83
Jamnagar	74	1001·8	+1·0	999·7	88·6	0	93	22	77·7	0	73	30	81·4	85·3	77·7	79·0	30·7	+1·4	31·0	84	+2	75
Rajkot	432	989·5	+0·7	987·1	89·4	+0·6	94	31	75·5	+0·7	71	30,31	78·6	86·1	76·3	76·9	29·9	+1·8	27·4	90	+7	66
Veraval	26	1004·2	+0·2	1002·7	84·0	..	87	30	78·5	..	75	31	80·3	82·1	77·6	78·1	31·1	..	31·0	88	+2	83
Bhavnagar	55	1003·5	+1·1	1000·4	92·3	+1·4	97	26,28,29	77·7	+1·1	75	27,31	80·2	89·3	75·5	76·5	28·0	−0·2	25·3	80	+3	55
Konkan																						
Dahanu	15	1005·6	..	1004·2	84·9	..	87	5 days	77·7	..	69	31	80·1	83·0	77·7	78·2	31·4	..	30·8	89	..	81
Bombay	35	1006·0	+0·7	1004·5	85·3	−0·3	87	5 days	77·2	+1·1	74	29,30	80·7	81·4	77·3	77·5	30·5	+0·9	30·4	85	+2	83
Alibag	23	1007·3	+1·4	..	84·2	+0·3	86	31	77·6	+0·6	73	8	80·4	..	78·0	..	31·7	+1·5	..	90	+6	..
Harnai	66	1005·7	..	1004·3	82·4	..	84	19,20	76·5	..	70	5	80·0	80·7	77·2	77·3	30·6	..	30·5	88	..	85
Devgad	117	1004·5	..	1003·1	83·8	..	86	15,16	76·9	..	70	31	79·4	82·2	77·0	78·3	30·6	..	31·3	90	..	84
Vengurla	29	1008·0	..	1006·3	84·3	..	86	13	75·1	..	72	29	79·0	80·8	76·5	77·0	30·0	..	30·0	89	..	84
Marmagao	202	1002·5	+1·0	1000·7	82·3	+0·1	83	14 days	75·7	+0·7	73	18	79·0	86·1	76·3	76·5	29·7	+0·3	29·5	88	+1	85
Honavar	85	1007·2	..	1005·2	84·6	..	87	31	74·9	..	72	27	77·8	80·8	76·2	77·6	30·1	..	30·9	93	..	86

* Data no reliable

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity miles per hour.		Wind direction—Number of winds from:— 0830 hrs. I.S.T.									1730 hrs. I. S. T.									STATION.
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Madhya Pradesh, East—*contd.*
7·6	+0·8	7·7	13·15	+0·91	1·84	5	20	+4·8	6·7	+1·7	0	0	0	0	0	15	10	0	6	1	0	0	0	0	16	6	3	5	Kanker
6·7	+0·7	6·0	20·08	+7·48	7·07	8	14	−0·8	4·3	−0·3	0	0	0	0	0	4	0	17	10	0	0	0	0	0	2	0	12	17	Chanda
6·8	..	6·8	10·03	..	1·60	1	16	..	3·6	..	0	0	2	3	0	8	9	4	5	6	2	2	2	2	4	5	6	2	Sironcha
7·0	+0·9	7·2	11·90	−4·38	2·24	12	21	+2·1	6·8	+3·2	0	0	0	0	0	18	8	5	0	0	0	0	0	0	18	2	10	1	Jagdalpur
																													Madhya Pradesh, West
6·1	..	5·9	6·66	..	2·60	7	10	..	8·4	..	0	0	0	0	0	0	16	15	0	1	0	0	0	0	3	0	27	0	Buldhana
6·9	+0·7	6·6	4·34	−1·98	1·46	7	7	−2·1	8·0	+1·6	1	0	0	0	0	2	21	7	0	5	0	0	0	0	1	13	12	0	Akola
6·5	+0·3	6·4	6·63	+0·14	1·44	7	8	−1·8	9·3	+2·7	0	0	0	0	0	8	21	2	0	0	0	0	0	0	8	8	15	0	Amravati
7·0	..	7·2	12·35	..	3·21	8	12	..	11·7	..	1	0	0	0	0	15	1	14	0	0	2	0	0	0	9	0	20	0	Yeotmal
6·8	+1·0	6·6	5·10	−1·15	1·84	7	10	+0·1	7·2	+0·4	0	0	0	0	1	9	17	2	2	0	0	0	0	1	12	11	6	1	Khandwa
7·4	+0·4	6·9	6·42	−8·64	1·27	8	13	−2·7	4·0	+1·0	0	0	0	0	5	13	13	0	0	1	0	0	2	3	14	6	5	0	Hoshangabad
6·9	+0·3	5·8	12·14	−1·93	2·78	5	15	−0·6	13·1	+1·0	0	1	1	0	0	15	11	3	0	0	3	0	0	0	22	2	4	0	Sagar
7·1	+0·3	6·9	13·88	−3·09	2·95	11	16	−1·4	3·3	+0·2	0	1	0	1	0	18	9	0	2	1	0	0	2	0	10	7	5	6	Jabalpur
7·2	..	6·9	19·43	..	2·98	13	19	..	0·9	..	3	0	0	0	0	0	0	2	26	4	0	0	0	1	0	2	6	18	Mandla
6·8	+0·6	7·4	11·88	−1·43	2·56	23	18	+1·5	4·3	+0·5	2	2	0	0	0	12	5	7	3	1	0	0	2	2	11	6	7	2	Seoni
6·3	..	6·0	8·54	..	1·66	21	14	..	(h) 5·4	..	3	0	0	0	0	1	11	13	3	1	1	0	0	0	2	9	18	0	Chhindwara
7·3	..	6·9	13·40	..	4·81	8	14	..	5·9	..	0	0	0	0	0	3	18	10	0	0	0	0	0	0	3	17	11	0	Betul
7·1	+0·8	7·5	10·25	−1·17	2·52	2,7	11	−2·3	6·2	..	1	0	0	0	0	13	10	6	1	2	1	1	0	0	3	13	11	0	Nagpur
																													Gujarat
																													Deesa*
7·3	+0·4	5·9	6·72	−0·73	3·64	8	12	−0·4	7·4	+1·5	0	0	0	0	1	21	5	2	2	0	0	0	0	1	30	0	0	0	Surat
7·0	+0·8	5·5	7·58	−0·47	2·29	9	10	−1·0	5·7	+0·5	0	0	0	0	2	16	11	1	1	0	0	1	2	5	8	14	1	0	Ahmedabad
7·2	−0·1	5·7	3·67	−3·30	0·72	16	10	−0·7	14·3	+1·4	0	0	0	0	0	17	13	1	0	0	0	0	0	0	20	11	0	0	Dohad
5·9	−0·7	5·7	5·97	−3·05	2·91	18	9	−0·7	4·5	−0·4	0	0	0	0	4	17	7	0	3	1	0	0	0	5	16	5	2	2	Baroda
5·9	..	5·0	2·57	..	0·91	7	4	..	7·0	..	0	0	0	0	1	15	14	1	0	0	0	0	0	0	30	1	0	0	Broach
																													Saurashtra and Kutch
5·4	−0·6	6·0	0·88	−2·05	0·42	9	2	−1·7	10·7	+0·4	0	0	0	0	0	11	17	3	0	0	0	0	0	0	12	17	2	0	Bhuj
6·7	−0·1	5·6	1·85	−0·73	0·70	10	4	+0·2	16·0	+3·4	0	0	0	0	0	7	22	2	0	0	0	0	0	0	11	19	1	0	Dwarka
5·9	+1·0	5·3	1·50	−2·35	0·65	10	3	−2·2	18·1	+5·1	0	0	0	0	0	28	1	1	1	0	0	0	0	0	11	17	3	0	Jamnagar
5·8	−0·7	6·3	7·24	+2·14	5·70	9	5	−2·0	15·0	+4·8	0	0	0	0	1	16	13	1	0	0	0	0	0	0	12	14	5	0	Rajkot
7·1	+0·4	5·9	13·80	+10·19	6·47	9	7	+1·1	16·7	..	0	0	0	0	2	8	20	1	2	0	0	0	0	0	5	25	1	0	Veraval
6·2	−0·1	6·4	0·56	−4·77	0·28	9	2	−5·3	8·9	+2·6	0	0	0	0	6	14	10	1	0	1	0	0	0	8	10	12	0	0	Bhavnagar
																													Konkan
7·4	..	5·1	16·73	..	5·47	8	20	..	15·5	..	0	0	3	2	0	13	13	0	0	0	0	0	0	0	12	18	1	0	Dahanu
6·3	−0·7	6·6	8·55	−4·84	1·32	6	21	+2·0	9·3	−0·6	0	0	0	3	0	10	14	2	2	0	0	0	0	0	7	19	3	2	Bombay
6·9	−0·4	..	7·01	−9·43	1·13	8	19	−2·1	16·5	..	0	0	1	0	0	14	11	1	4	..	..	..	..	..	..	..	..	..	Alibag
7·0	..	6·4	8·52	..	1·15	28	2,21	..	14·4	..	1	1	2	1	0	20	5	1	0	0	0	0	0	1	21	5	4	0	Harnai
5·5	..	5·7	7·75	..	0·97	1	24	..	17·3	..	0	1	1	4	0	1	19	5	0	0	1	0	0	0	0	25	5	0	Devgad
6·1	..	6·4	12·42	..	1·51	6	23	..	..	..	0	0	0	0	0	0	9	0	22	0	0	0	0	0	1	18	1	11	Vengurla
5·5	−1·0	5·6	8·81	−8·30	1·12	1	17	−1·2	11·4	+3·2	0	1	1	1	1	2	17	8	0	1	0	0	0	0	3	21	6	0	Marmagao
6·5	..	6·3	15·02	−10·62	2·09	20	22	−3·3	3·7	..	0	0	5	2	1	2	9	5	7	0	0	0	0	0	1	19	11	0	Honavar

(h) Mean of 23 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure mal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Deccan (Desh)																						
Jalgaon	660	983·2	..	980·4	89·7	..	94	13,29, 31	74·2	..	71	30	77·9	85·6	74·4	75·7	27·5	..	25·9	84	..	63
Malegaon	1,432	957·2	+0·7	954·9	86·5	—0·8	92	28,30	72·3	+0·4	67	30	77·1	82·3	72·4	73·4	25·0	+0·6	24·1	78	+2	64
Ahmednagar	2,154	934·1	+0·5	931·6	84·4	—0·9	90	21,30	69·8	+0·8	67	10,30	74·4	81·0	70·1	71·7	23·4	+0·6	22·7	81	+3	64
Poona	1,834	945·0	+0·6	943·3	82·2	+0·5	85	27,30	70·8	+0·3	68	28,30, 31	74·7	77·9	71·1	71·8	24·6	+1·3	24·2	83	+2	74
Jeur	1,709	949·3	..	946·0	87·9	..	93	29,30, 31	69·6	..	67	6	75·5	84·5	71·3	72·9	24·5	..	22·9	80	..	56
Sholapur	15,70	954·3	+1·0	950·8	88·6	—0·2	94	21,27	71·4	+0·3	69	12	75·8	83·6	71·3	73 1	24·3	+1·1	23·5	80	+5	61
Miraj	1,817	946·9	+0·9	944·8	83·6	+1·8	91	30	69·9	—0·1	67	26	73·7	79·4	70·4	71·2	24·0	—0·1	22·7	85	0	68
Kolhapur	1,870	945·1	..	943·2	80·0	..	85	31	69·9	..	67	26,29, 31	72·8	76·8	70·4	71·6	24·4	..	24·3	88	..	78
Bijapur	1,950	941·1	—0·1	938·4	87·1	+0·3	91	14,21, 31	69·5	—0·5	66	24,26	74 3	84·5	70·3	72·4	23·7	+0·8	22·3	81	+4	56
Belgaum	2,562	922·9	+0·8	921·3	76·6	+0·1	80	28,30, 31	67·0	+0·3	64	26	69·1	72·8	68·9	69·8	23·0	+0·1	23·6	94	+2	85
Gadag	2,131	936·7	+0·8	934·3	(a) 84·3	+0·5	88	27,28, 31	(a) 69·2	—0·3	67	26	73·3	80·6	69·5	71·1	23·0	—0·3	22·1	82	—2	63
Hyderabad, North																						
Aurangabad	1,905	942·4	+0·6	939·5	83·6	—1·2	90	30	70·0	+0·4	69	6 days	72·7	81·0	70·5	72·8	24·0	+1·0	24·2	89	+6	68
Parbhani	1,350	959·1	..	955·7	87·8	..	93	19,20, 21	72·2	..	70	10,14	76·7	83·9	72·2	74·2	24·9	..	24·5	79	..	62
Ramagundam	527	987·6	..	984·0	88·5	..	94	20,26, 31	74·9	..	71	1	80·1	85·9	75·1	76·8	27·5	..	27·3	78	..	67
Nizamabad	1,250	962·8	0	959·6	86·9	+0·1	92	21,22	73·8	+0·8	71	7,8	77·6	84·2	73·0	75·6	25·7	+0·7	26·4	79	0	67
Bidar	2,178	932·9	..	930·1	83·7	—0·4	89	20,21	70·0	0	68	5	73·0	81·3	69·8	72·4	23·6	+0·3	23·5	85	+2	65
Hyderabad, South																						
Gulbarga	1,503	956·3	+0·7	952·5	88·8	0	94	28	71·5	0	69	24	75·3	84·6	71·1	73·0	24·4	+0·7	23·0	81	+3	58
Raichur	1,311	963·5	+1·0	959·4	90·2	+0·3	94	21,25	73·1	+0·5	70	31	76·9	85·7	71·6	73·5	24·0	—0·2	22·6	76	0	56
Hyderabad (Begumpet)	1,778	946·7	+1·1	943·6	85·5	—0·4	91	21	72·6	+0·6	69	5	75·5	81·2	71·5	73·6	24·7	—0·1	25·2	82	+2	70
Hanamkonda	881	975·7	+0·5	972·5	88·3	+1·6	93	25,31	76·1	+1·0	72	17,31	79·8	85·3	74·6	76·1	26·9	+1·1	26·6	78	+3	65
Khammameth	367	993·3	..	990.0	89·9	..	95	25	76·9	..	73	29,31	80·3	86·2	76·7	79·1	29·7	..	30·7	84	..	73
Coastal Andhradesa																						
Nellore	65	1004·9	+0·8	1000·7	97·9	+1·9	101	21,27	79·8	+0·4	74	29	85·8	91·5	76·0	77·6	26·2	—0·3	26·0	62	—3	53
Ongole	38	1005·0	..	1001·3	95·5	..	100	21	80·3	..	74	3	85·3	91·7	79·0	82·1	31·0	..	33·0	76	..	66
Gannavaram	88	1003·2	..	999·7	91·0	..	96	26	77·4	..	74	5	82·4	86·2	76·9	77·7	29·1	..	28·5	77	..	68
Masulipatam	10	1005·7	+0·6	1002·3	90·2	—1·1	95	21	78·6	+0·7	71	24	82·0	87·3	77·8	79·9	30·6	+0·7	31·5	83	+4	71
Kakinada	26	1004·1	+0·4	1001·3	88·9	—0·8	93	21,26	77·7	—0·6	73	31	83·0	84·9	79·1	80·3	32·2	+1·9	33.2	84	+4	82
Visakhapatnam	9	1003·6	+0·3	1000·7	90·7	—1·0	97	20	78·5	+0·3	74	27	83·4	84·6	80·1	81·6	33·6	—1·4	35 5	86	+2	88
Calingapatam	19	1002·8	+0·4	1000·0	89·5	—0·5	94	4	78·6	..	76	16,28	81·3	84·5	77·9	79·9	31·1	—0·5	32·7	86	+5	81
Rentachintala	348	994·6	..	990·8	93·7	+0·8	99	21,25	78·1	—0·3	74	2,4, 29	82·3	89·1	74·8	76·8	26·1	+0·2	24·8	70	+3	55
Rayalaseema																						
Cuddapah	428	993·7	+0·9	988·8	95·9	+1·2	100	21	78·6	+1·1	74	2	85·5	91·7	74·1	80·7	23·6	—2·3	30·8	56	—12	61
Bellary	1,473	958·1	+0·6	954·7	89·5	—1·0	93	21,26	74·8	+0·9	71	5	77·5	86·1	70·9	72·9	22·9	+0·7	21·6	71	+4	53
Kurnool	923	976·5	+0·9	972·2	90·3	—0·2	95	21	73·7	—0·6	72	4 days	78·4	86·7	72·7	75·2	24·8	+0·2	24·6	75	+1	58
Anantapur	1,147	969·0	..	964·8	93·1	..	97	21	73·6	..	71	5,25	79·2	89·8	73·1	75·4	25·1	..	23·5	73	..	4
Tamilnad																						
Palayamcottai	167	1003·3	..	1000·1	95·7	..	99	29	80·0	..	77	14	85·1	88·6	73·8	75·3	23·4	..	23·9	57	..	53
Pamban	37	1007·8	+0·6	1004·5	88·9	—0·2	91	4 days	80·2	+1·4	78	4 days	84·2	84·2	77·1	80·2	28·6	—1·1	33·4	80	+4	84
Mathurai	437	993·9	+0·5	990·1	97·7	+2·5	102	3,11,12	77·0	+0·5	73	15,30	83·8	90·9	73·7	75·4	23·8	—0·2	23·0	60	—2	48
Nagattinam	31	1007·7	+0·5	1003·9	95·3	+1·2	99	10	79·0	+1·3	73	14	83·7	89·5	74·9	78·8	25·6	—1·7	28·7	65	—5	62
Teruchi.	289	998·8	+0·3	994·5	96·9	+0·5	100	9,15,22	78·3	+1·1	73	26	83·0	93·2	74·3	76·1	25·0	—0·1	23·0	66	+2	44
Coimbatore	1,341	964·0	+0·7	960·9	88·1	+0·7	90	13,15,20	72·5	+1·5	71	6 days	76·5	82·5	71·6	72·6	24·2	—0·8	22·9	78	—3	60

(a) Mean of 30 days.

Cloud amount (Oktas).			Rainfall, inches.				Number of rainy days (0.10" or more).		Wind velocity—miles per hour.		Wind direction—Number of winds from :—																			STATION.
											0830 hrs. I.S.T.									1730 hrs. I.S.T.										
	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Deccan (Desh)
0	..	5·5	4·42	—1·94	1·34	9	7	—4·3	7·7	..	1	0	0	0	0	10	14	6	0	1	0	0	0	0	3	6	21	0	Jalgaon
·3	+0·5	6·9	1·77	—1·27	1·07	8	3	—2·3	6·2	—2·4	0	0	0	0	0	5	14	6	6	0	2	0	0	1	2	16	10	0	Malegaon
·3	+0·9	6·5	0·96	—1·76	0·66	8	1	—3·6	6·5	—2·3	0	0	0	0	0	19	9	2	1	0	0	0	0	0	10	12	9	0	Ahmednagar
·6	+0·2	6·9	2·72	—0·83	1·59	8	5	—3·3	4·3	—4·6	0	0	0	0	0	1	19	3	8	0	0	0	0	0	3	25	2	1	Poona
·4	...	6·7	1·27	..	0·60	8	3	..	10·0	..	0	0	0	0	2	6	13	10	0	0	1	1	0	0	0	15	14	0	Jeur
·6	+0·2	7·0	4·24	—0·04	1·93	13	6	—1·0	6·5	—2·2	1	0	0	0	0	22	4	1	3	1	0	0	0	0	22	4	2	2	Sholapur
·0	—0·1	6·6	1·08	—3·63	0·19	3	5	—4·2	10·9	+1·7	0	0	0	0	0	7	17	7	0	0	0	0	0	0	9	18	4	0	Miraj
·2	..	5·8	3·79	..	0·63	8	12	..	11·1	..	0	0	0	0	0	3	26	1	1	0	0	0	0	0	0	31	0	0	Kolhapur
·6	+1·0	7·5	1·95	—0·45	1·75	14	1	—2·7	9·1	+0·3	0	0	0	0	0	5	23	3	0	1	0	0	0	0	4	19	5	2	Bijapur
·3	—1·8	5·3	9·08	—0·56	2·11	9	18	+0·4	5·8	+0·5	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31	0	0	Belgaum
·7	+0·8	6·3	2·38	+1·70	0·82	13	6	—2·3	11·2	+0·9	0	0	0	0	0	11	16	4	0	0	0	0	0	0	10	15	6	0	Gadag
																													Hyderabad, North
·8	—0·2	6·8	4·68	—0·11	2·72	8	7	—1·9	10·5	+0·4	0	0	0	0	0	10	17	3	1	0	0	0	0	1	4	18	8	0	Aurangabad
·5	..	6·5	5·10	—0·71	1·86	22	8	—1·0	..	..	0	0	0	0	0	0	30	1	0	1	0	0	0	0	0	30	0	0	Parbhani
·8	..	6·2	7·01	..	1·46	31	16	..	4·0	..	4	0	1	1	4	5	5	6	5	5	0	0	2	1	11	3	6	3	Ramagundam
·2	—0·9	4·4	5·56	—4·20	1·28	7	12	—1·8	5·4	+0·6	0	0	0	0	0	13	3	4	11	0	0	0	0	0	4	1	0	26	Nizamabad
·2	+1·8	7·2	5·60	—0·58	2·30	31	11	+0·6	11·7	+0·7	1	0	0	0	0	5	22	3	0	1	0	0	0	0	4	18	5	3	Bidar
																													Hyderabad, South
·5	+1·0	7·0	1·38	—3·69	0·36	28	5	—2·7	10·6	+1·5	0	0	0	0	0	9	16	6	0	1	0	0	0	0	1	19	10	0	Gulbarga
5	+2·2	6·8	4·60	+0·21	0·91	29	9	+1·2	11·6	+2·0	0	0	0	0	0	13	15	3	0	2	0	0	2	0	4	13	10	0	Raichur
·7	+0·6	6·7	4·03	—1·26	0·85	3	9	—0·9	10·3	+1·7	0	0	0	0	0	0	25	6	0	1	1	0	0	1	2	14	11	1	Hyderabad (Begumpet)
·1	+0·3	6·6	4·82	—2·16	1·15	5	10	—0·7	6·9	+0·9	2	0	0	0	0	2	18	9	0	5	0	1	0	1	0	8	14	2	Hanamkonda
·3	..	6·6	6·95	..	2·22	29	14	..	4·9	..	1	0	0	0	1	3	23	3	0	10	0	0	0	1	0	14	3	3	Khammameth
																													Coastal Andhradesa
·7	—0·3	6·7	1·93	—1·09	0·80	29	6	+0·5	6·2	+0·7	0	0	0	0	2	1	21	3	4	1	1	5	1	1	1	11	6	4	Nellore
·9	..	5·6	2·67	..	0·77	29	5	..	7·3	..	0	1	0	0	1	2	24	3	0	1	2	1	2	0	1	17	7	0	Ongole
·1	..	6·7	4·27	..	0·71	9	12	..	8·9	..	0	0	0	0	0	9	16	4	2	5	0	0	2	2	3	11	6	2	Gannavaram
·8	0	6·1	3·93	—2·33	1·38	26	9	—1·2	7·7	+1·7	1	0	0	0	2	7	11	10	0	4	1	0	1	4	3	5	12	1	Masulipatam
·6	—1·3	6·0	8·08	+2·52	1·50	26	15	+5·4	8·0	+2·6	0	0	0	0	0	30	0	1	0	0	0	0	0	0	30	0	1	0	Kakinada
·6	+0·1	7·2	8·41	+3·25	3·05	21	11	+2·8	8·0	+0·4	0	0	0	0	1	14	11	3	2	0	0	0	2	1	14	7	2	5	Visakhapatnam
·9	+1·7	7·2	3·37	—3·43	0·80	28	10	+0·5	7·2	+1·1	0	0	0	0	0	8	15	8	0	0	0	2	1	0	14	12	2	0	Calingapatam
·0	+0·3	7·3	2·72	—0·82	0·68	2	8	+0·2	7·3	—1·3	0	0	0	1	1	2	25	2	0	1	0	0	1	0	0	27	2	0	Rentachintala
																													Rayalaseema
·2	+0·3	6·6	1·82	—3·42	0·94	2	5	—2·7	6·5	—0·1	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	21	0	10	Cuddapah
·5	+0·9	6·9	1·11	—1·27	0·47	5	4	0	8·8	+0·9	0	0	0	0	0	15	7	8	1	1	0	0	0	0	13	11	6	0	Bellary
·7	—0·2	6·1	3·61	—0·89	1·12	31	10	+1·4	10·1	+0·9	0	0	0	0	0	2	21	8	0	3	0	1	0	0	1	14	9	3	Kurnool
·7	..	6·5	0·29	—3·01	0·13	5	1	—3·8	11·6	..	0	0	0	0	0	2	27	1	1	2	0	0	0	0	1	20	7	1	Anantapur
																													Tamilnad
·6	..	4·5	1·30	+0·64	0·66	15	2	+1·0	11·0	..	0	1	0	0	0	2	20	8	0	1	0	2	4	1	0	14	9	0	Palayamcottai
·8	+0·9	4·4	0	—0·59	0	..	0	—1·0	8·4	+0·3	1	0	0	7	6	14	3	0	0	0	0	0	12	17	2	0	0	0	Pamban
·3	+0·1	6·0	5·53	+1·45	3·34	30	6	0	3·5	—0·3	3	0	0	0	0	0	6	14	8	0	0	0	2	2	6	14	3	4	Mathurai
·6	+1·0	5·2	1·44	—1·61	1·07	14	3	—1·9	6·2	+1·0	1	0	0	0	1	8	17	3	1	0	0	3	11	8	5	3	1	0	Nagapattinam
6	+1·0	5·8	2·20	—1·63	1·48	29	4	—0·7	16·5	+1·3	1	1	0	0	0	0	20	8	1	3	1	0	0	3	3	17	4	0	Tiruchi
·7	+0·4	5·3	0·19	—1·04	0·12	27	1	—2·1	10·7	+5·3	0	0	0	0	13	16	2	0	0	0	1	0	0	10	15	5	0	0	Coimbatore

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Rela humi %	
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Tamilnad—*contd.*																					
Salem	913	978·1	+0·7	973·3	94·9	+2·6	100	15	75·1	+1·9	71	27	78·2	91·5	73·7	77·6	26·4	+0·5	25·1	80	+
Kallakurichi	416	993·8	..	989.4	95·8	..	101	7,10,11	76·4	..	71	15,30	81·2	91·8	74·6	76·1	26·3	..	23·6	73	.
Cuddalore	39	1007·0	+0·6	1002·8	95·0	+0·8	102	9	78·1	+1·1	72	29	83·9	88·8	77·8	81·0	29·8	+1·3	31·0	76	+
Vellore	703	984·2	+1·1	979·7	95·2	+2·0	99	16,20	78·1	+1·7	71	29	82·6	91·6	72·8	74·7	23·1	—2·4	21·7	62	—
Madras	51	1006·1	+0·8	1002·1	95·9	+1·1	100	4 days	78·8	+0·8	71	29	83·8	89·4	75·4	78·1	26·2	—0·1	27·7	67	—
Arogyavaram	2,299	931·5	..	927·8	88·5	..	93	21	73·5	..	70	25	75·9	85·9	68·8	70·4	21·2	..	19·1	69	..
Malabar & South Kanara																					
Mangalore	72	1008·2	+0·8	1006·0	84·3	+0·4	87	18	75·3	+1·1	74	6 days	78·9	81·1	76·3	77·4	29·8	+0·5	30·4	88	—
Kozhikode	27	1010·0	+0·7	1007·5	84·0	+1·1	86	4 days	74·8	+0·5	74	10 days	77·4	80·6	76·3	78·2	30·5	+1·7	31·9	94	+
Palghat	319	999·7	..	996·8	84·7	..	88	15	74·1	..	72	19,23,27	77·0	80·7	75·1	75·7	28·9	..	28·1	91	..
Mysore																					
Chitaldrug	2,405	927·9	+0·5	925·1	83·8	+1·2	88	27	69·0	+0·5	67	25	72·0	80·4	68·3	70·3	22·2	0	21·2	82	+1
Shimoga	1,872	946·3	..	943·9	81·8	..	85	27,31	69·7	..	67	27,31	73·2	77 3	70·1	71·7	23·9	..	24·3	85	...
Hassan	3,149	905·1	..	902·9	78·6	—0·1	83	15,27,29	65·5	+0·2	63	26,31	68·5	73·7	66·3	68·7	21·2	—0·1	22·0	89	+5
Bangalore	3,021	908·8	+0·7	905·8	83·2	+1·8	86	16,21,27	67·2	+1 6	66	9 days	70·5	80·2	66·9	68·7	21·1	—0·2	19·3	82	—3
Mysore	2,518	925·5	+0·5	923·0	84·5	+1·5	90	15	66·9	+0·1	64	31	72·2	79·0	68·2	70·2	22·0	+0·3	21·6	82	+2
Travancore-Cochin																					
Fort Cochin	10	1011·0	+0·6	1008·5	82·7	+0·3	85	9,11	76·4	+1·4	73	18	79·9	80·4	77·0	77·3	30·8	+2·3	30·6	87	+1
Alleppey	12	1010·8	..	1008·4	85·5	..	87	4 days	75·1	..	71	23	80·1	81·0	77·4	77·9	30·9	...	30·8	88	..
Trivandrum	211	1003·6	—0·1	1001·1	86·5	+2·1	89	4 days	74·9	+1·0	73	23	78·7	82·1	75·2	75·5	28·3	+0·5	27·2	84	—2
Nagercoil	195	1003·5	..	1000·5	90·3	..	95	27	76·5	..	75	7,26,31	81·0	84·0	74·8	75·4	26·6	..	26·2	74	..
Hill Stations excluding Kashmir																					
Aijal	3,599	883·7	..	882·9	..	..	..	..	67·3	..	65	25	71·2	72·3	69·6	71·0	24·2	..	25·1	92	..
Shillong	4,921	846·3	+0·4	843·7	75·7	+0·6	81	5	64·5	+0·5	61	28,29	70·8	71·0	67·0	67·8	20·8	+0·2	22·2	82	+1
Cherrapunji	4,309	866·9	+2·3	864·4	72·6	+0·1	79	4,8	65·4	+0·1	64	5 days	68·7	69·8	67·7	68·2	22·8	+0·9	23·0	96	+7
Darjiling	7,432	773·9	+0·1	771·9	67·3	+1·7	74	5	58·8	+1·1	56	30,31	62·9	62·6	62·1	61·8	18·5	+0·7	18·4	96	+4
Kalimpong	3,965	875·4	+0·9	872·8	76·3	+0·8	81	4,5	..	..	..	..	71·4	73·0	69·9	71·3	24·4	+0·6	25·7	92	+1
Katmandu	4,388	862·7	..	860·3	84·7	+1·3	88	5,15	68·0	—0·3	64	28	73·7	77·0	70·5	72·3	24·4	+1·2	25·4	85	+4
Mukteswar (Kumaon)	7,592	769·5	+0·2	767·7	70·0	+2·0	76	20	58·6	+1·2	56	4 days	62·2	65·1	60·0	62·8	17·0	—0·1	18·4	89	—2
Mussooree	6,699	793·5	..	791·9	68·5	+0·3	73	9	60·8	+0·9	59	5 days	64·1	65·4	62·8	64·7	18·8	0	20·5	94	—1
Simla.	7,224	779·2	+0·8	777·6	69·6	+1·2	82	26	60·0	+0·8	56	28	64·0	66·0	60·5	63·3	16·4	—0·7	18·9	84	—2
Dharamshala	3,974	878·3	..	876·2	80·0	..	83	3,6	69·8	..	67	25	73·2	77·1	69·8	72·6	23 2	..	25·4	85	..
Abu	3,945	874·9	+0·8	873·6	72·9	+0·9	81	9	65·1	+0·7	62	27,28	66·5	71·6	65·8	68·3	21·4	+0·6	22·3	97	+4
Pachmarhi	3,528	888·5	+0·9	886·1	73·8	—1·0	82	31	67·7	+0·8	66	4 days	68·9	72·1	68·0	69·5	23·0	+0·7	23·5	95	+5
Mahabaleshwar	4,534	860·0	+0·5	858·6	65·8	+0·2	71	30	61·5	..	58	30,31	63·0	63·5	63·0	63·5	19·7	+0·1	20·1	100	+3
Mercara	3,781	885·2	+0·9	883·3	69·9	+0·7	80	16	62·8	+0·8	61	26	64·6	67·3	64·2	66·0	20·3	+0·7	21·3	96	+1
Kodaikanal	7,688	771·0	+1·3	769·4	64·4	+1·7	69	10	52·8	+0·9	51	6 days	57·1	57·9	53·7	55·9	12·8	+0·2	14·5	81	+4
Ootacamund	7,364	779·5	+0·9	777·8	64·2	+1·4	67	5 days	51·1	—0·6	45	31	55·6	58·7	53·8	56·1	13·5	+0·3	14·4	89	+2
Coonoor	5,730	825·2	..	..	68·7	—2·2	71	5 days	58·8	+1·0	55	18	68·3	..	60·9	..	15·1	+0·3	..	66	—3
Tibet																					
Lhasa	12,090	656·2	..	..	78·2	..	85	18	52·0	..	47	1	60·8	..	56·9	...	14·6	..	..	80	..
Gyantse	13,110	626·7	..	..	72·9	+4·7	80	19	46·0	+1·8	41	31	57·7	..	49·3	..	9·3	—0·3	..	59	—10

(h) Mean of 23 days.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity miles per hour.		Wind direction—Number of winds from:—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	
																														Tamilnad—*contd.*
·3	+0·1	6·5	3·51	—3·06	1·17	29	6	—3·9	5·7	+2·0	0	0	0	0	8	18	4	1	0	1	0	0	0	6	8	14	2	0		Salem
·5	..	4·7	10·56	..	2·91	29	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		Kallakurichi
·7	+1·7	4·5	7·64	+2·84	2·42	13	9	+1·9	6·7	+2·5	0	0	0	0	0	12	19	0	0	0	1	1	20	2	4	0	1	2		Cuddalore
·0	+0·5	5·8	1·80	—3·94	0·51	25	5	—2·4	(h) 5·7	+1·7	0	1	0	0	1	3	18	7	1	2	1	2	2	2	4	14	3	1		Vellore
·1	+0·7	6·6	5·22	+0·64	1·43	29	12	+4·1	10·1	+0·4	1	0	0	0	1	8	18	2	1	0	0	2	15	5	3	3	2	1		Madras
·5	..	6·8	2·87	..	2·24	25	3	..	7·2	..	1	0	0	0	0	1	23	5	1	1	0	0	0	0	1	14	14	1		Arogyavaram
																														Malabar & South Kanara
5·1	—0·6	6·4	14·72	—8·80	2·34	12	21	—4·1	5·5	+1·0	2	1	1	0	0	3	8	6	10	1	0	0	0	0	5	10	14	1		Mangalore
5·3	—0·3	6·6	7·44	—9·72	1·14	17	19	—0·3	5·5	+1·0	8	3	1	1	0	3	6	9	0	0	0	0	0	0	2	11	18	0		Kozhikode
5·3	..	5·5	6·59	..	0·87	27	18	..	7·4	..	0	0	0	0	0	1	30	0	0	0	0	0	0	0	0	31	0	0		Palghat
																														Mysore
6·4	—0·5	5·5	0·63	—2·75	0·13	9,18	4	—3·4	9·1	+1·7	0	0	0	0	0	13	17	1	0	0	0	0	0	0	9	22	0	0		Chitaldrug
6·9	..	6·8	2·69	..	0·76	8	10	..	4·3	..	0	0	0	0	7	17	5	0	2	0	0	0	0	1	14	13	3	0		Shimoga
5·8	—0·8	6·3	2·11	—1·79	0·72	15	5	—4·2	8·8	+2·6	0	0	0	0	0	2	27	1	1	0	0	1	0	0	6	23	1	0		Hassan
6·9	—0·3	6·1	1·91	—3·07	0·50	11	7	—2·3	10·1	+2·8	0	0	0	0	0	7	19	5	0	1	0	0	0	0	4	14	11	1		Bangalore
5·6	—0·7	5·9	1·42	—1·87	0·81	26	3	—4·0	7·8	+0·1	0	0	0	0	0	6	24	0	1	0	0	0	0	0	3	26	2	0		Mysore
																														Travancore-Cochin
6·5	+0·5	7·3	5·03	—8·86	1·49	21	10	—8·7	7·1	+2·1	2	10	3	0	0	1	3	11	1	1	1	1	0	0	0	14	13	1		Fort Cochin
6·0	..	6·4	7·37	..	1·55	22	15	..	6·7	..	10	4	2	0	0	1	0	13	1	6	0	0	0	0	0	5	20	0		Alleppey
5·3	—1·0	5·5	0·90	—3·83	0·31	22	2	—7·8	8·1	+1·5	12	0	0	0	0	0	0	19	0	2	0	0	0	0	0	7	22	0		Trivandrum
5·4	..	6·0	0·11	..	0·07	22	0	..	10·2	..	0	1	0	0	0	0	11	19	0	0	0	0	0	0	0	19	12	0		Nagercoil
																														Hill Stations excluding Kashmir
5·3	..	7·2	10·77	..	1·37	20	24	..	5·9	..	2	2	5	7	7	6	0	0	2	0	0	4	0	5	10	6	3	3		Aijal
6·9	+0·3	6·5	17·34	+4·85	3·02	24	17	—1·5	2·5	+0·8	0	1	2	2	4	4	0	0	18	0	2	1	1	3	4	1	0	19		Shillong
7·5	+0·4	6·3	100·25	+30·17	21·64	26	22	—4·2	6·8	+2·2	0	10	8	4	2	4	1	0	2	2	4	6	1	3	9	1	2	3		Cherrapunji
7·5	+0·5	7·3	24·08	—2·48	3·82	15	24	+0·3	5·3	+1·9	0	1	16	4	1	2	3	2	2	0	0	13	3	0	3	11	1	0		Darjiling
6·8	+0·3	6·1	20·17	+0·29	2·25	12	21	—0·5	5·2	—0·1	0	1	0	16	0	0	0	13	1	0	0	1	28	0	0	0	2	0		Kalimpong
7·0	+0·3	7·1	16·45	+2·77	1·95	2	23	+2·2	0·7	—0·2	0	0	3	1	1	0	0	0	26	3	2	1	1	1	0	0	3	20		Katmandu
5·3	—1·3	6·2	10·05	—2·21	1·60	3	16	—1·9	7·8	+2·6	1	5	5	2	2	4	7	1	4	0	0	1	3	1	8	16	0	2		Mukteswar (Kumaon)
6·3	—0·7	7·2	29·29	+1·95	3·30	16	23	—0·8	3·3	—0·3	2	3	0	7	9	1	0	1	8	1	1	0	9	11	2	0	0	7		Mussooree
6·1	—0·5	6·1	20·12	+3·27	7·00	22	18	—1·7	1·7	—0·5	1	0	5	1	5	3	0	0	16	2	10	1	0	4	2	0	4	8		Simla
5·7	..	6·2	33·77	..	5·54	25	18	..	..	..	7	0	12	0	4	0	5	0	3	4	0	5	0	6	0	13	0	3		Dharamshala
7·0	—0·3	5·7	16·04	—6·71	4·32	13	16	—1·4	6·9	—0·9	0	1	1	0	3	11	12	0	3	0	0	0	0	3	10	9	0	9		Abu
7·5	+0·2	7·2	26·95	+3·13	5·72	12	25	+3·1	6·1	—0·3	0	2	0	0	0	0	25	4	0	0	0	0	0	0	0	28	2	1		Pachmarhi
8·0	+0·2	8·0	57·92	—15·19	7·09	8	31	+1·2	11·1	+0·3	0	0	0	0	0	16	12	3	0	0	0	0	0	0	19	6	6	0		Mahabaleshwar
6·6	—0·8	6·8	23·03	—3·77	2·20	2	24	—2·5	10·1	+3·7	0	0	0	0	0	0	15	16	0	0	0	0	0	0	0	15	16	0		Mercara
5·7	+0·6	7·4	3·98	—3·02	0·98	15	7	—5·1	10·0	+1·4	0	0	0	2	0	0	9	11	9	1	1	0	4	2	0	8	11	4		Kodaikanal
5·2	—1·4	6·0	2·44	—3·25	0·62	27	8	—4·3	5·0	—0·3	0	0	0	0	0	2	14	4	11	1	2	0	0	1	1	17	5	4		Ootacamund
4·5	—1·0	..	1·72	—3·27	0·45	27	6	—3·1	5·1	+1·1	4	3	0	7	2	3	5	7	0	..	..	..	..	..	..	..	..	..		Coonoor
																														Tibet
5·4	..	..	2·20	..	0·67	24	6	..	0	..	0	0	0	0	0	0	0	0	31	..	..	..	..	..	..	..	..	..		Lhasa
4·4	—2·1	..	3·77	—0·05	0·85	6	10	+0·2	1·6	—0·6	0	0	2	7	1	0	0	0	21	..	..	..	..	..	..	..	..	..		Gyantse

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Rel hum %
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.ST.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.T.S.	Mean 0830 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Ceylon																				
Colombo	24	1010·5	+0·6	1007·8	85·6	0	87	4 days	78·0	+1·0	73	29	81·3	82·3	76 8	76·8	29·4	+0·3	29·0	80
Trincomalee	24	1008·4	+1·2	1005·2	93·4	+0·8	97	7 days	77·1	+0·1	70	12	82·1	86·7	75·4	78·0	27·3	+0·1	28·8	72
Batticoloa	20	1008·9	..	1006·0	91·1	..	98	6,8,9	76·3	..	74	17,18,19	83·0	85·3	76·0	79·8	27·5	..	32·3	71
Hambantota	61	1008·1	+0·5	1005·1	88·3	+1·5	93	8,10,11	76·7	+0·6	75	4 days	80·8	82·4	76·3	75·7	28·9	+0·6	27·3	80
Mannar	12	1009·1	..	1006·2	88·3	..	90	14,22,25	79·1	..	77	12,13,26	82·3	83·0	78·0	78·0	30·8	..	30·5	82
Hydrometeorological observatories																				
Damodar Catchment																				
Bokaro	784	974·9	..	971·9	89·7	..	94	15	78·0	..	74	17,24	82·5	84·8	78·2	78·8	31·0	..	30·9	82
Mahanadi Catchment																				
Baramul	210	995·3	..	992·6	88·3	..	92	21,26,29	77·0	..	74	24	81·6	81·0	78·4	78·3	31·7	..	31·9	86
Hirakud	522	984·3	..	981·6	87·9	..	92	2	76·4	..	73	31	81·1	81·8	77·7	78·3	30·9	..	31·5	87
Barkachhar	1,136	..	..	..	83·4	..	89	21,29	74·3	..	72	1,11,12	78·2	82·6	74·9	72·2	28·1	..	22·2	80
Narbada Catchment																				
Punasa	877	..	..	..	85·7	..	92	31	73·6	..	77	6	77·3	83·3	74·6	76·3	28·2	..	27·8	88
Bagra Tawa	1,087	..	..	..	83·7	..	92	31	74·5	..	72	18,20,29	76·9	81·2	74·2	76·2	27·6	..	28·6	88
Sabarmati Catchment																				
Dharoi		..	..	..	89·0	..	94	31	76·7	..	75	10,11	79·4	86·1	76·9	79·9	30·4	..	32·1	89

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Ceylon
6·6	+0·7	6·3	0·11	—3·59	0·06	22	0	—6·9	..	..	0	0	0	0	1	14	15	1	0	0	0	0	0	0	19	12	0	0		Colombo
5·5	+1·5	5·7	1·97	—1·88	1·27	11	3	—1·8	..	..	0	0	0	0	0	30	1	0	0	3	2	2	2	0	18	1	0	3		Trincomalee
4·7	..	5·2	0	..	0	..	0	..	..	..	1	1	0	1	2	5	7	4	10	0	1	11	19	0	0	0	0	0		Batticoloa
4·8	+1·0	5·2	0	—1·63	0	..	0	..	..	..	0	0	0	0	0	16	15	0	0	0	0	0	0	0	15	16	0	0		Hambantota
4·9	..	5·4	0	..	0	..	0	..	..	..	0	0	0	0	10	21	0	0	0	0	0	0	0	10	20	1	0	0		Mannar
																														Hydrometeorological observatories
																														Damodar Catchment
6·8	..	6·8	7·59	..	2·98	17	12	..	4·4	..	1	0	6	6	2	3	7	3	3	0	1	8	9	1	6	3	2	1		Bokaro
																														Mahanadi Catchment
..	..	..	11·52	..	2·52	11	16	..	1·9	..	0	1	0	2	0	15	0	4	9	1	4	0	0	0	4	2	4	16		Baramul
..	..	..	18·48	..	2·98	5	21	..	3·4	..	0	0	0	0	0	22	1	8	0	0	0	0	1	1	16	1	4	8		Hirakud
0·5	..	0.4	15·23	..	2·04	6	23	..	6·3	..	0	0	2	0	1	24	4	0	0	0	1	0	0	1	17	8	2	0		Barkachhar
																														Narbada Catchment
2·5	..	1·7	4·17	..	1·43	2	11	..	7·5	..	0	0	0	0	0	16	15	0	0	0	0	0	0	0	11	15	2	3		Punasa
5·3	..	5·1	10·82	..	2·89	1	16	..	5·2	..	0	0	0	0	2	17	11	0	1	0	0	0	0	2	14	14	1	0		Bagra Tawa
																														Sabarmati Catchment
..	..	..	6·99	..	2·55	10	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		Dharoi

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 4TH CLASS STATIONS—AUGUST 1951.

STATION.	Maximum temperature, °F.				Minimum temperature, °F.				Mean dry bulb temperature, 0830 hrs. I.S.T. °F	Mean wet bulb temperature, 0830 hrs. I.S.T. °F	Vapour pressure, millibars.		Relative humidity %		Mean cloud amount, 0830 hrs. I.S.T.	Rainfall, inches.				Number of rainy days, (0·10" or more		Wind
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.			Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 0830 hrs. I.S.T.	Departure from normal.		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Resultant Direction 0830 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Assam																						
Lumding	95·0	+4·8	100	4	76·4	−0·2	74	24	84·1	79·6	32·5	+1·3	81	−2	..	6·70	−1·38	1·60	13	9	−2·3	..
Uttar Pradesh West.																						
Lokpal	47·8	..	50	19	39·9	..	36	4 days	..	..	..	..	..	..	..	15·22	..	1·61	4	19	..	..
Jammu and Kashmir																						
Jammu	92·7	+0·9	99	7,22	74·6	−3·1	68	27	80·9	76·6	29·1	0	82	+3	4·7	16·43	+4·68	5·60	7	14	+2·9	N34E
Kargil (R)																						
Mysore																						
Balehonnur	74·3	+0·3	81	30	65·4	0	61	27	68·5	67·2	22·2	+0·2	93	−1	..	19·40	−4·00	2·68	9	22	−2·5	..
Nandi Hills	73·7	..	76	20, 29, 30	60·8	..	59	9, 18	63·8	62·9	19·3	..	96	..	7·4	1·05	..	0·41	12	5	..	..
Sikkim																						
Lachen (R)																						
Tibet																						
Yatung (Chumbi)	66·5	+1·8	72	21	51·1	+0·8	43	3	62·0	56·4	13·9	−0·1	89	+3	0·5	4·04	−2·07	0·45	8	16	−1·4	..
HYDROMETEOROLOGICAL OBSERVATORIES																						
Mahanadi Catchment																						
Sonepur	88·0	..	91	20,21	77·0	..	75	30	81·4	78·0	31·2	..	..	..	..	14·58	..	3·03	5	16	..	..
Ginabahar	87·4	..	92	28	72·6	..	69	31	83·0	75·6	26·9	..	69	..	..	18·18	..	4·41	8	24	..	..
Ganga Catchment.																						
Tapoban	75·7	..	80	19,21	60·5	..	54	31	65·7	62·9	18·2	..	86	..	..	11·32	..	1·80	17	18	..	..
Badrinath	62·4	..	64	10	49·2	..	48	16,22	51·8	51·0	12·5	..	95	..	..	5·29	..	0·51	1	21	..	..
Narbada Catchment.																						
Thikri	87·7	..	93	31	74·7	..	70	30	80·7	75·8	28·2	..	79	..	..	3·81	..	1·42	4	7	..	..
Sabarmati Catchment.																						
Jhodol	82·9	..	92	8	73·0	..	65	30	75·7	72·6	25·5	..	86	..	..	3·31	..	1·22	9	10	..	..

(R)—Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 5TH CLASS STATIONS—AUGUST 1951.

Division.	Station.	Rainfall, inches.				Number of rainy days, (0.10" or more).	
		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.
1	2	3	4	5	6	7	8
Assam	Mawsynram	88·80	..	20·20	23	23	..
West Bengal	Bankura	7·02	—5·11	1·36	16	16	0
Bihar	Muzaffarpur	8·66	—3·90	2 15	15,24	9	—4·6
	Chapra	7·04	—4·24	4·94	15	8	—5·4
	Arrah	4·59	—7·98	2·02	15	9	—5·6
Punjab (1)	Dalhousie	28·98	+6·83	7·80	11	19	—2·5
	Kyelang	1·19	—0·20	0·30	5	5	+1·2
	Gondla	1·32	..	0·53	21	4	..
	Koksar	1·17	..	0·40	31	4	..
	Kothi	13·63	..	2·20	21	22	..
	Dharampore	14·67	+2·11	4·20	22	19	+2·5
	Kharsali*	6·53	..	3·30	22	6	..
	Rana*	12·40	..	3·35	16	7	..
	Jamuna Chetty*	8·85	..	5·50	22	7	..

Division.	Station.	Rainfall, inches.				Number of rainy days, (0.10" or more).	
		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.
1	2	3	4	5	6	7	8
Jammu and Kashmir	Sonamarg	2.44	—1·18	0·50	18	10	+1·0
	Gurez	0·92	—2·46	0·43	17	4	3·4
Deccan (Desh)	Khandala	50·99	+1·29	8·71	8	29	—0·3
Sikkim	Thangu (R)						
	Chungthang (R)						

*Observations for 16 days.

(R) Register not received.

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

(From Ascents at 15 hrs. G.M.T.)

AUGUST 1951

Standard Pressure Surface mbs.	ALLAHABAD (Sur. Pr. 988 mb.)						CALCUTTA (1002 mb.)						JODHPUR (977 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	98	302·1	305	300	299·0	17	7	301·2	303	299	299·0	31	218	303·0	307	300	296
1000	28	—6	..	..	..	..	16	24	..	..	..	..	31	8	..	..	..	..
900	28	932	297·8	301	296	294·7	16	956	296·2	299	294	293·8	31	947	298·1	301	295	293
850	28	1432	294·7	297	293	291·6	15	1453	293·0	295	291	290·7	30	1448	294·2	298	291	291
800	28	1963	291·6	295	288	288·3	14	1976	290·0	293	287	287·7	31	1972	291·0	294	287	287
700	28	3094	284·5	287	281	281·8	14	3106	284·3	287	282	281·0	31	3106	284·6	289	280	280
600	26	4371	277·6	280	274	272·5	12	4396	275·7	282	275	274·1	31	4381	276·6	281	271	272
500	25	5838	269·4	273	264	267·4	12	5844	269·7	273	265	..	31	5842	268·6	272	257	..
400	24	7568	259·3	264	252	..	12	7572	259·2	264	255	..	31	7567	258·2	263	250	..
300	23	9691	243·9	250	239	..	11	9700	244·8	248	240	..	28	9687	243·8	252	236	..
250	20	10968	234·6	239	228	..	8	10965	234·4	241	231	..	21	10966	233·7	241	226	..
200	19	12478	223·2	231	214	..							18	12466	222·8	232	213	..
175	10	13394	217·1	225	209	..							7	13333	216·0	222	205	..
150	6	14395	212·7	221	205	..												
125																		
100																		
80																		

	MADRAS (1004 mb.)						NAGPUR (968 mb.)						NEW DELHI (977 mb.)					
Surface	31	15	302·7	308	298	296·2	29	301	295·8	303	298	295·8	31	217	303 8	306	299	298
1000	31	46	..	..	..	..	29	20	..	..	..	..	31	—13	..	..	..	..
900	31	984	298·2	301	295	290·6	29	954	297·0	299	295	291·9	31	933	300·4	304	297	294
850	30	1484	294·6	297	291	288·7	29	1452	294·2	296	291	290·0	31	1432	296·8	300	293	291
800	30	2511	286·3	294	288	286·3	29	1977	290·9	293	289	287·2	31	1962	292·9	297	289	287
700	31	3142	284·0	287	281	279·4	29	3110	284·9	287	281	280·3	31	3100	285·6	289	281	273
600	31	4415	276·6	280	272	270·7	29	4392	278 9	283	277	274·4	31	4380	278·2	284	271	272
500	31	5875	269·5	272	266	..	26	5866	271·3	275	269	269·0	31	5848	270·3	274	259	266
400	27	7603	258·3	262	254	..	24	7611	262·0	268	257	..	31	7581	259·5	265	248	..
300	16	9717	245·5	248	242	..	12	9787	251·8	257	245	..	26	9700	245·9	253	234	..
250	11	11024	236·3	242	231	..	5	11139	245·8	253	235	..	25	11013	236·1	245	229	..
200													23	12523	225·1	233	215	..
175													15	13460	218·9	225	209	..
150													10	14387	215·5	221	203	..
125																		
100																		
80																		

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

(From Ascents at 15 hrs. G.M.T.)

AUGUST 1951

Standard Pressure Surface mbs.	POONA (Sur. Pr. 945 mb.)						PORT BLAIR (1006 mb.)						TRIVANDRUM (1003 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew-Point
Surface	31	557	296·0	298	295	293·0	25	21	299·9	301	298	298·0	31	64	299·0	300	298	296·1
1000	31	61	..	..	..	..	23	77	..	..	..	..	31	89	..	..	..	..
900	31	983	294·0	295	291	291·0	23	1003	295·2	297	293	291·9	31	1012	293·1	295	291	289·5
850	31	1470	291·0	298	280	289·0	23	1498	293·1	296	290	289·1	31	1504	291·0	293	288	286·3
800	31	1997	288·0	291	287	286·0	22	2023	290·4	294	289	285·8	31	2024	288·4	291	285	283·7
700	31	3121	285·0	287	282	279·0	19	3153	285·2	290	283	278·0	31	3149	283·7	287	281	276·2
600	31	4403	278·0	290	275	273·0	19	4430	278·9	286	275	268·4	31	4421	277·2	281	275	268·7
500	30	5865	271·0	276	268	265·0	15	5906	270·9	280	268	..	31	5882	268·7	273	263	..
400	28	7604	262·0	268	253	..	11	7639	259·7	268	255	..	31	7606	258·7	264	255	..
300	25	9741	249·0	254	243	..	5	9850	248·8	253	244	..	31	9729	244·7	249	240	..
250	21	11048	239·0	244	235	..	5	11083	241·2	245	236	..	26	11013	235·3	239	231	..
200	18	12580	229·0	238	221	..							23	12520	225·4	232	220	..
175													6	13348	219·3	222	216	..
150													6	14331	213·0	219	207	..
125																		
100																		
80																		

Standard Pressure Surface mbs.	VERAVAL (1004 mb.)						VISAKHAPATNAM (997 mb.)					
Surface	30	8	300·1	301	299	297·9	21	48	301·4	304	299	297·6
1000	30	41	..	..	..	..	21	25	..	..	..	..
900	30	967	293·8	296	291	292·2	21	959	297·2	299	294	291·9
850	30	1460	291·4	295	289	289·7	21	1458	293·9	296	291	289·2
800	30	1983	289·6	295	287	284·6	20	1985	291·0	294	288	286·9
700	30	3117	286·5	292	282	274·9	20	3119	285·0	289	282	280·4
600	29	4400	279·0	284	276	269·5	21	4403	277·5	284	275	274·1
500	27	5876	271·3	275	267	265·8	21	5859	269·9	273	266	..
400	21	7618	261·6	263	258	..	17	7607	260·3	263	259	..
300	10	9751	248·5	251	245	..	9	9737	246·1	251	243	..
250	8	11045	..	..	..	..	..	..	..	..	..	..
200	6	12563	..	..	..	..	..	..	..	..	..	..
175												
150												
125												
100												
80												

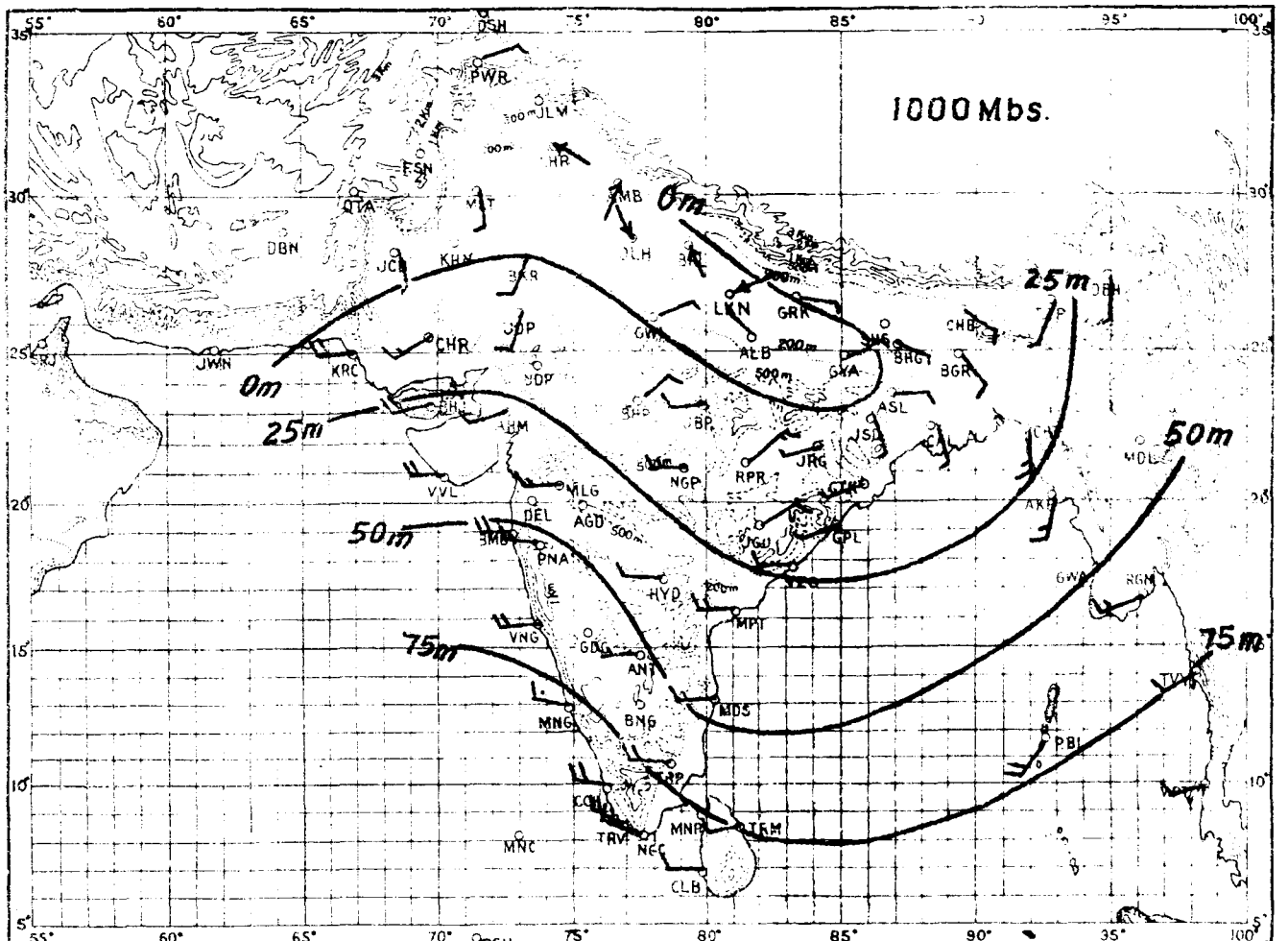
NOTE.—Number of observations refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperatures less than 273°A.
Means are not worked out fo r less than fiver obsevations at standard pressure surfaces.

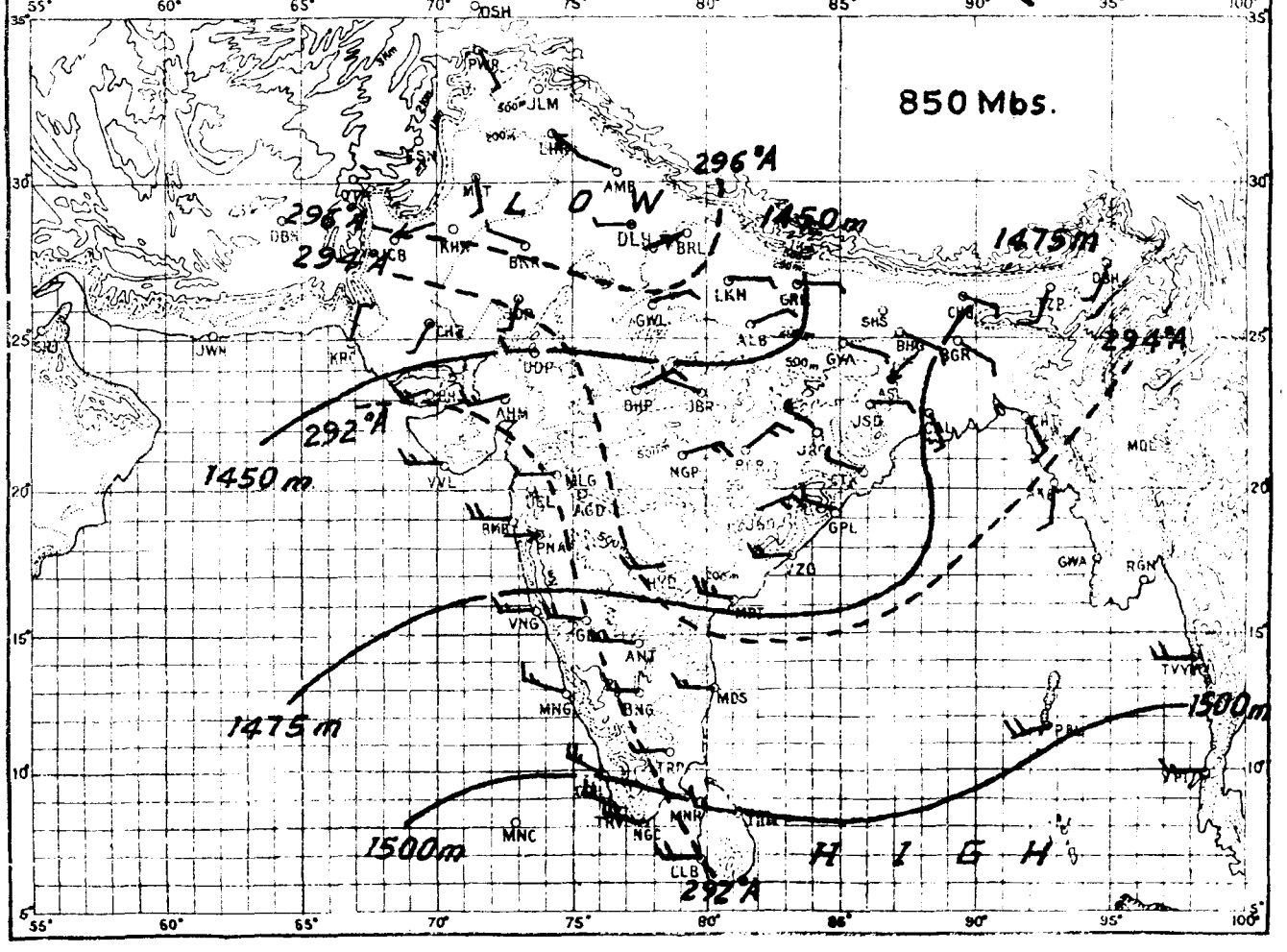
PN—S1—5 D.D.G.O.M. Poona—23-7-53.—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

AUGUST 1951

Plate I





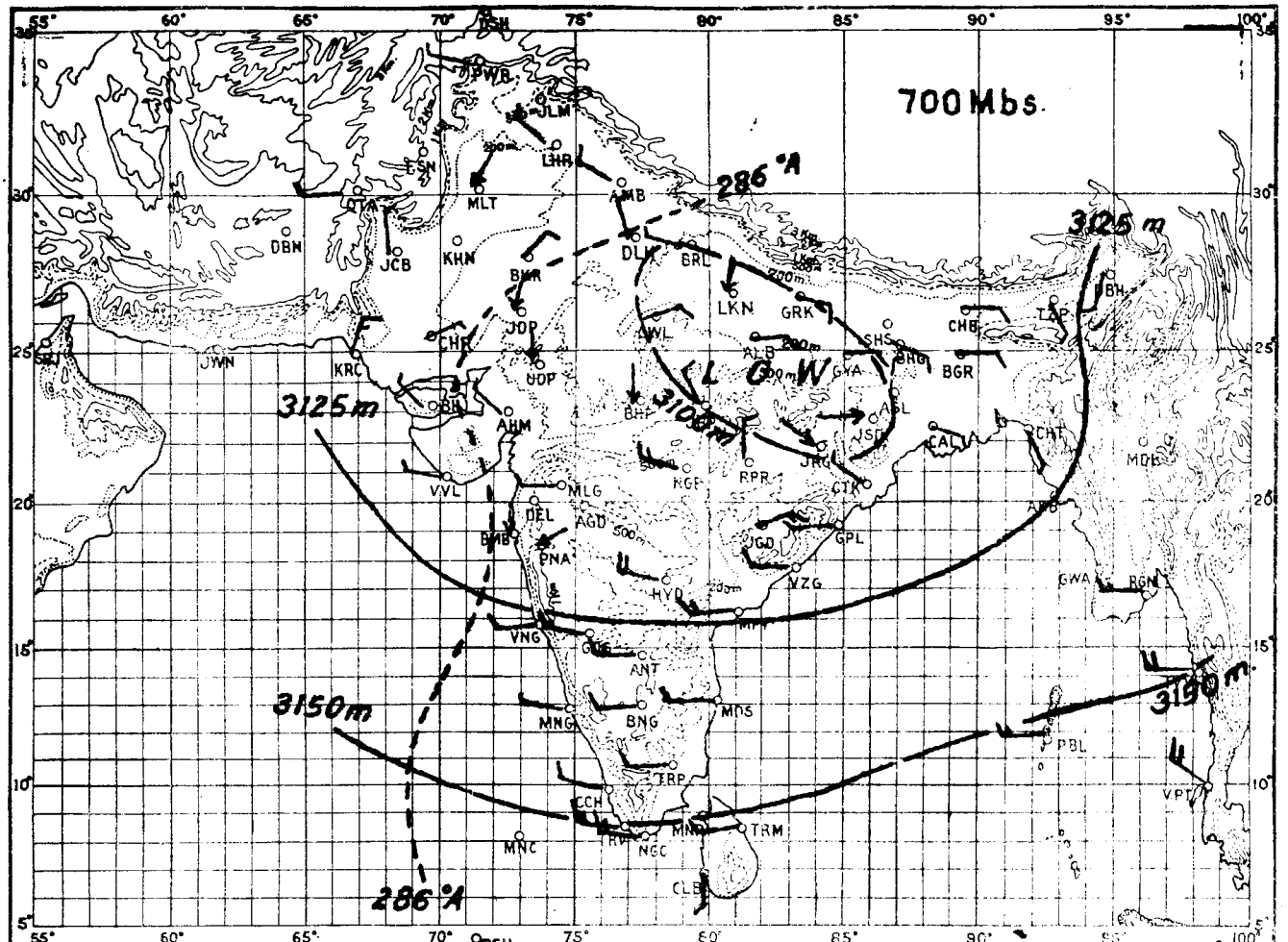
RESULTANT WIND —\ = 5 Knots, —\ = 10 Knots, —\ = 50 Knots.

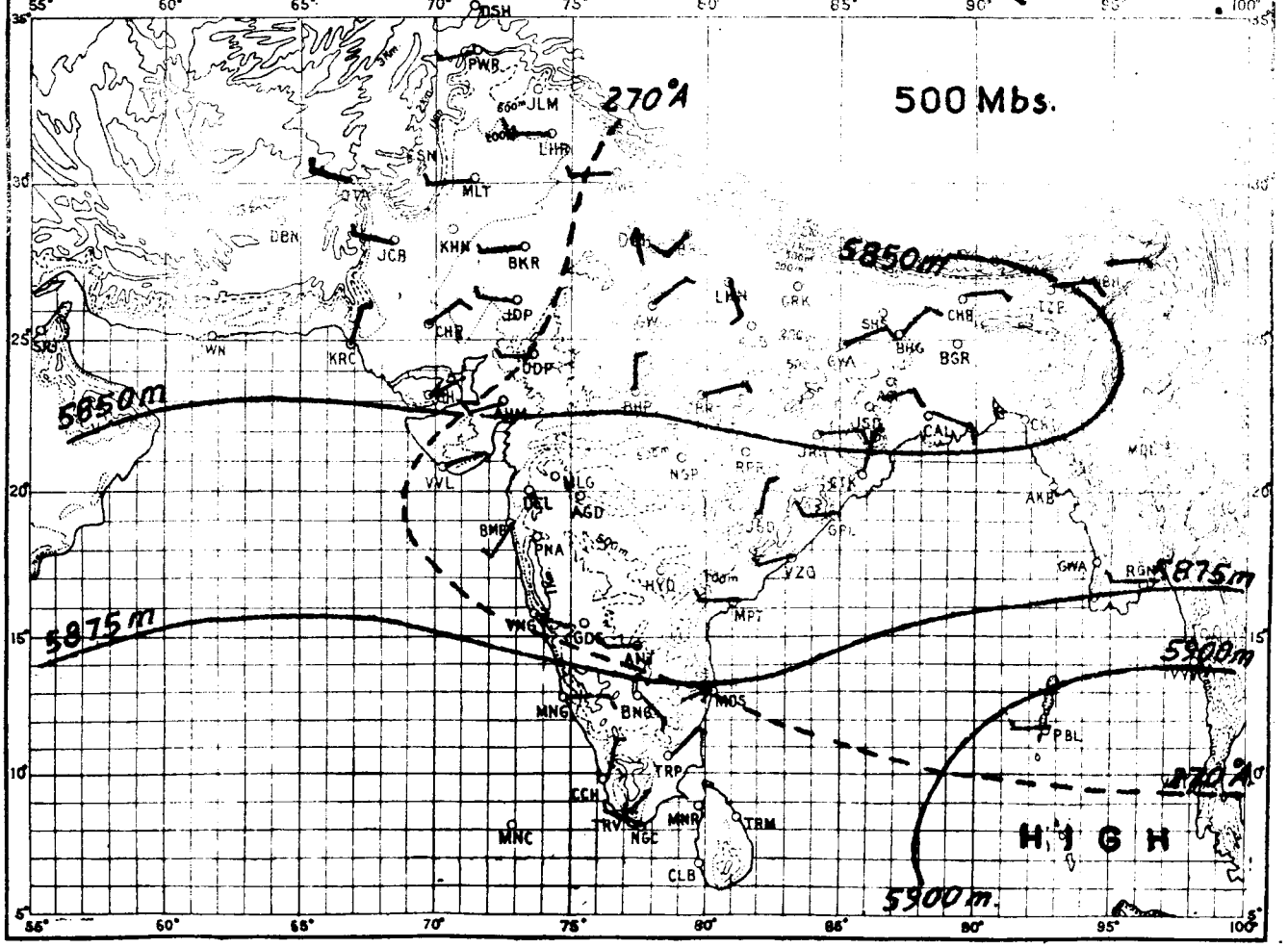
— — — Isotherms in degrees Absolute ——— Contours in geopotential Metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

AUGUST 1951

Plate II





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

G.P.Z.P. POONA, 1951.

- - - - Isotherms in degrees Absolute ——— Contours in geopotential Metres

Registered No. B-3097.

INDIA WEATHER REVIEW, 1951

Monthly Weather Report

September

Published by authority of the Government of India

Chief features.—(1) Passage of a depression from Eastern Pakistan to northwest Uttar Pradesh in the second week and associated very heavy falls of rain in Vindhya Pradesh and west Uttar Pradesh, (2) withdrawal of the monsoon from the country by about the 21st, well in advance of the normal date, (3) continued drought conditions in Rajasthan, Gujarat, Saurashtra and Kutch and Madhya Bharat throughout the month and a marked spell of hot weather during the last week; and (4) a spell of very heavy rain on and near Khasi hills between the 14th and 17th.

The monsoon was generally feeble over the country during the first week except in Madhya Pradesh, Hyderabad and Rayalaseema. In association with a low pressure wave, however, which moved inland across the Orissa coast on the 6th and became unimportant over Vindhya Pradesh on the 9th, widespread or local rain occurred in northeast India outside Assam, in Uttar Pradesh, the central parts of the country and Hyderabad during this period. There was a further strengthening of the monsoon in these parts under the influence of a depression which formed over Eastern Pakistan by the 9th evening, and taking a westnorthwesterly course at first and northerly later, became unimportant over the Punjab-Kumaon hills by the 14th. Widespread rain occurred over the region extending from West Bengal and Orissa to west Uttar Pradesh between the 10th and 13th with locally heavy falls along the track of the depression. Widespread rain with locally heavy falls continued in west Uttar Pradesh on the 14th also. Some of the very heavy falls of rains which occurred in association with the passage of this depression, are given in the following table :

Date	*Station*	*Amount in inches*
9-9-51	Cox's Bazar	8″
10-9-51	Burdwan.	6·5″
12-9-51	Panna (Vindhya Pradesh).	8·7″
12-9-51	Chhattarpur (Vindhya Pradesh)	8·3″
12-9-51	Sutna.	7·0″
14-9-51	Nainital (Uttar Pradesh)	12·0″
14-9-51	Rampur (Nainital, Uttar Pradesh)	6·9″
14-9-51	Dhampur (Bijnor district, Uttar Pradesh)	11·1″
14-9-51	Amroha (Moradabad district, Uttar Pradesh)	7·1″
14-9-51	Champarat	7·0″
14-9-51	Nagina (Bijnor district, Uttar Pradesh)	6·9″

The monsoon withdrew from the Punjab (I) and Uttar Pradesh soon after and by about the 21st it had withdrawn from the rest of the country also, well in advance of the normal date. Assam and sub-Himalayan West Bengal, however, continued to get widespread or local rain between the 14th and 20th with locally heavy falls in and near the Khasi Hills between the 14th and 17th; Cherrapunji recorded 25″ and 15″ of rain on the 14th and 15th respectively. According to newspaper reports, heavy floods occurred in the Brahmaputra and the Lohit rivers in Upper Assam resulting in considerable damage to crops and livestock, while one of the important trading centres Morkong Selek was practically submerged. There was a temporary revival of monsoon towards the end of the month in association with the development of a trough of low pressure in the Bay of Bengal and also another in the east Arabian Sea off the west coast. Fairly widespread or local rain occurred in the southern half of the Peninsula, in coastal Andhradesa, Orissa and Gangetic West Bengal between the 27th and 30th with locally heavy falls in Malabar-south Kanara and the south Konkan on the 30th.

The failure of the monsoon had a very adverse effect on crops in Gujarat, Saurashtra and Kutch and Rajasthan, where drought conditions had started even by the middle of August. Acute famine conditions resulted in these parts. Insufficiency of rains also affected the important cities of Bombay and Poona where a cut in the use of electricity had to be effected.

A spell of hot weather prevailed over Gujarat, Saurashtra and Kutch, south Rajasthan, Madhya Bharat and the adjoining districts of west Madhya Pradesh during the last week, when day temperatures at many stations in these areas were 10° to 15°F above normal. At some of the

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places the temperatures were the highest on record for September. The highest temperature of 109°F (14°F above normal) was recorded at Barmer on the 28th afternoon and at Rajkot and Bhuj (15°F above normal) on the 29th afternoon.

Total rainfall for the month was in large excess in Vindhya Pradesh, Mysore and Travancore-Cochin, in slight to moderate excess in Chota Nagpur and west Uttar Pradesh, and normal in Malabar and south Kanara. It was in slight to moderate defect in the Bay Islands, Assam, West Bengal, Orissa, Bihar, east Uttar Pradesh, Madhya Pradesh, Deccan (Desh), South Hyderabad, coastal Andhradesa, Rayalaseema and Tamilnad and in large defect in the Punjab (I), east Rajasthan, Madhya Bharat, Gujarat, Saurashtra and Kutch, the Konkan and north Hyderabad. There was no rain in west Rajasthan. Averaged over the plains of India, the rainfall was 31% in defect.

The mean maximum temperature was above normal in the Bay Islands, Bihar, the Punjab (I), Rajasthan, Madhya Bharat, west Madhya Pradesh, Gujarat, Saurashtra and Kutch, the Konkan, Deccan (Desh), north Hyderabad and Mysore and normal elsewhere. The mean minimum temperature was normal throughout the country except in east Rajasthan where it was above normal.

The mean relative humidity was normal throughout the country except in Rajasthan, Madhya Bharat and Gujarat where it was below normal.

The mean cloud amount was also normal all over the country except in Chota Nagpur, Bihar, Rajasthan, Madhya Bharat, Gujarat, Saurashtra and Kutch, and Deccan (Desh) where it was below normal.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amounts for the 13 chief political divisions and the 27 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 fall in 24 hours ending at 0830 hrs. I.S.T. of the date given in the succeeding column.

POONA 5;
Dated the 26th November 1951.

S. BASU,
for *Director General of Observatories.*

x for any station denotes the amount recorded during the 24 hours

	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—									
1. Assam (including Manipur and Tripura).	5·92	11·04	−5·12	−46	+1·4	+0·1	+0·4	−2	−0·6
2. West Bengal	8·65	10·86	−2·21	−20	+1·8	+0·3	−0·1	−2	−0·7
3. Orissa	7·42	8·95	−1·53	−17	+1·4	+0·6	+0·5	0	−0·4
4. Bihar	5·99	8·43	−2·44	−29	+2·0	+0·3	+0·2	−1	−0·9
5. Uttar Pradesh	7·07	7·05	+0·02	0	+0·5	+0·3	0	0	0
6. Punjab (I) (including PEPSU and Delhi).	1·53	4·18	−2·65	−63	+2·9	+1·1	−0·4	−4	−0·4
7. Rajasthan	0·08	2·62	−2·54	−97	+4·7	+1·5	−2·6	−12	−1·3
Sub-Division—									
1. Bay Islands	14·21	17·40	−3·19	−18	+2·4	+1·6	+0·9	−4	+0·3
2. Assam (including Manipur and Tripura).	5·92	11·04	−5·12	−46	+1·4	+0·1	+0·4	−2	−0·6
3. West Bengal	8·65	10·86	−2·21	−20	+1·8	+0·3	−0·1	−2	−0·7
4. Orissa	7·42	8·95	−1·53	−17	+1·4	+0·6	+0·5	0	−0·4
5. Chota Nagpur	9·28	8·08	+1·20	+15	+1·9	+0·2	+0·2	−1	−1·0
6. Bihar	4·34	8·61	−4·27	−50	+2·0	+0·3	+0·2	−1	−0·9
7. Uttar Pradesh, East.	5·99	7·69	−1·70	−22	+1·3	+0·3	−0·4	−2	−0·2
8. Uttar Pradesh, West.	8·14	6·40	+1·74	+27	−0·2	+0·3	+0·4	+1	+0·1
9. Punjab (I) (including PEPSU & Delhi).	1·53	4·18	−2·65	−63	+2·9	+1·1	−0·4	−4	−0·4
10. Jammu & Kashmir.	Data incomplete.								
11. Rajasthan, West	0	1·10	−1·10	−100	+3·7	+0·9	−1·4	−7	−1·3
12. Rajasthan, East (including Ajmer).	0·16	4·14	−3·98	−96	+5·4	+2·1	−3·6	−15	−1·4
13. Madhya Bharat	2·04	7·81	−5·77	−74	+5·3	+0·5	−2·7	−13	−0·9
14. Vindhya Pradesh	12·77	7·28	+5·49	+75	+1·5	−1·5	+0·1	−2	−0·8

	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—*contd.*									
8. Madhya Bharat & Vindhya Pradesh.	6·64	7·58	−0·94	−12	+3·7	+0·4	−1·5	−8	−0·9
9. Madhya Pradesh	5·47	8·12	−2·65	−33	+2·0	+0·6	+0·1	−2	−0·5
10. Bombay (including Saurashtra and Kutch).	2·56	6·50	−3·94	−61	+4·1	+1·4	+0·3	−2	−1·5
11. Hyderabad	4·44	7·46	−3·02	−40	+2·3	+1·2	+1·1	0	−0·4
12. Madras (including Travancore-Cochin).	5·09	5·30	−0·21	−4	+0·4	+1·0	+0·5	−1	+0·1
13. Mysore	8·59	5·60	+2·99	+53	+2·3	+1·1	+0·9	+2	−0·5
Mean of India	4·67	6·72	−2·05	−31	+2·4	+0·8	−0·2	−3	−0·7
Sub-Division—*contd.*									
15. Madhya Pradesh, East.	5·50	9·42	−3·92	−42	+1·3	+1·0	0	−1	−0·6
16. Madhya Pradesh, West.	5·45	7·31	−1·86	−25	+2·5	+0·4	+0·1	−3	−0·4
17. Gujarat	0·15	5·39	−5·24	−97	+6·1	+1·3	−0·7	−6	−2·1
18. Saurashtra and Kutch.	0·22	2·53	−2·31	−91	+3·5	+1·1	−0·1	+1	−1·7
19. Konkan	4·23	10·52	−6·29	−60	+2·1	+1·3	+0·2	−1	−0·9
20. Deccan (Desh)	4·26	7·71	−3·45	−45	+4·3	+1·6	+0·9	−2	−1·2
21. Hyderabad, North.	3·21	8·05	−4·84	−60	+3·0	+1·2	+0·8	−1	−0·4
22. Hyderabad, South.	5·66	6·87	−1·21	−18	+1·7	+1·3	+1·3	+1	−0·4
23. Coastal Andhradesa.	4·96	5·74	−0·78	−14	−0·3	+0·5	+0·6	+2	−0·1
24. Rayalaseema	4·94	5·79	−0·85	−15	+0·5	+1·2	+0·6	−1	−0·6
25. Tamilnad	3·11	3·95	−0·84	−21	+0·3	+1·3	+0·5	−2	+0·5
26. Malabar & South Kanara.	9·11	9·21	−0·10	−1	+1·8	+1·3	+0·7	−2	−0·3
27. Mysore	8·59	5·60	+2·99	+53	+2·3	+1·1	+0·9	+2	−0·5
28. Travancore-Cochin.	11·66	6·09	+5·57	+91	+1·5	+0·6	+0·5	−1	+0·1

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	2
Bay Islands—																						
Port Blair	259	1001·2	+0·5	999·1	85·5	+2·4	88	3,21	75·4	+1·6	73	4 days.	82·6	79·2	77·9	76·6	30·9	+0·9	30·2	80	—4	8
Assam																						
Dibrugarh	348	996·7	+0·5	992·4	88·6	+2·2	97	6,7,11	74·5	0	69	17,18	81·6	82·3	77·0	77·8	29·8	—0·1	30·5	81	—5	8
Mohanbari (R)	364	.																				
Sibsagar	317	997·8	+0·7	993·6	89 8	+2·2	97	7	77·0	+0·8	69	18	83·1	84·3	78·1	79·5	30·6	—0·9	31·9	80	—7	8
Tezpur	258	1000·2	+0·9	995·6	89·6	+0·8	96	11	76·2	—0·3	71	18,19	81·7	84·7	78·2	79·5	31·4	+0·2	32·4	85	—1	7
Gauhati D. Type	162	1002·6	...	998·3	88·9	...	95	10	76·3	...	72	22	82·8	83·6	78·8	79·5	31·8	...	32·7	83	...	8
Gauhati	182	1002·2	+1·1	997·0	88·3	—1·1	95	11	75·8	—0·4	71	19,22	82·5	84·3	79·3	79·7	33·0	+1·8	32·7	87	+5	8
Dhubri	115	1004·7	+1·3	1000·7	87·2	+1·5	91	5,6	78·4	+1·1	74	4 days	82·6	82·6	79·3	79·1	32·4	+0·9	32·4	86	+1	8
Silchar	96	1005·7	+0·9	1001·3	89·2	—0·5	96	10	75·3	—0·9	71	4 days	82·3	84·4	78·3	79·4	31·2	—0·4	32·0	83	+3	8
Tura	1,215	967·8	...	964·0	86·9	...	95	10	73·1	...	70	20,23,24	79·1	81·4	75·7	77·7	28·7	...	31·0	85	...	8
West Bengal—																						
Dum Dum	33	1006·1	...	1002·5	91·2	...	95	18,20,26	79·0	...	74	10	84·9	85·4	79·2	79·0	31·8	...	30·8	77	...	7
Calcutta	21	1006·6	+1·2	1003·0	90·9	+1·0	95	18,20,21	79·3	+1·3	75	10,30	84·8	84·6	80·5	79·8	33·6	+0·9	32·6	82	—1	8
Saugor Island	10	1006·5	+1·1	1003·4	88·1	+0·4	91	26	81·0	+1·5	74	10	84·9	85·0	80·2	80·0	33·4	+0·5	32·7	81	0	8
Sandheads	32	1005·8	+0·8	1002·9	...	...	...	...	...	...	...	...	85.1	85·4	80·2	80·1	32·8	—0·2	32·4	80	+1	8
Midnapore	149	1001·9	+1·1	998·3	91·5	+1·8	95	18,22	77·6	—0·5	74	10	83·9	86·0	79·1	79·7	31·5	—0·3	31·5	81	—1	8
Contai	35	1005·8	...	1002·2	90·2	...	95	21,24	79·7	...	75	10,11	84·6	85·1	80·3	79·6	33·1	...	32·0	82	...	
Burdwan	106	1003·0	+0·6	999·2	93·0	+3·0	98	29	76·3	—2·3	74	10	81·8	84·5	76·6	77·0	29·2	—3·2	28·1	75	—8	1
Krishnagar	48	1005·6	+1·3	1001·9	93·1	+3·0	97	5 days	77·6	—0·4	75	10,27	84·7	85·7	80·3	80·5	33·2	+0·2	33·5	82	+1	8
Asansol	414	992·6	+1·1	989·1	91·2	+1·3	96	21	77·4	+0·4	74	6	84·1	85·7	79·0	79·2	31·7	—0·3	31·1	79	—4	8
Berhampore	62	1005·1	+0·9	1001·2	93·9	+4·3	99	27	78·3	—0·3	75	21,27	85·3	86·8	79·7	80·2	32·3	—0·7	32·4	77	—5	8
Malda	103	1004·1	+1·5	1000·1	90 8	+1·8	96	5	78·5	+0·2	74	21	85·3	85·7	79·7	79·9	32·3	—0·6	31·9	78	—3	8
Cooch Behar	145	1003·8	...	1000·0	89·8	...	96	5	76·6	...	72	19	83·7	85·1	78·5	83·2	31·3	...	37·8	80	...	
Jalpaiguri	271	999·0	+1·2	994·8	88·6	+0·5	95	6	75·7	—0·2	72	19,21	79·8	85·0	76·8	78·8	30·1	—0·9	31·1	87	0	
Bagdogra	418	993 9	...	989·7	90·0	...	97	10	74 5	...	69	30	82 3	84·4	77·4	79·5	29·7	...	32·0	80	...	
Orissa—																						
Balasore	65	1004·6	+1·1	1001·4	90·0	+1·2	95	21	78·7	+0·7	74	10	84·1	84·7	79·9	79·9	33·3	+0·9	32·4	83	0	
Chandbali	20	1006·9	+2·1	1003·1	90·7	+1·9	96	20	78·8	—0·5	74	30	85·0	85·2	80·3	80·3	33·5	+1·0	32·9	81	—2	8
Puri	20	1006·5	+1·4	1003 4	89·6	+1·0	93	22,23	80·4	+0·7	76	29,30	85·6	84·9	80 3	80·0	32·6	+0·2	32·6	79	—1	8
Cuttack	87	10 3·9	+0·8	1000·5	92·1	+2·1	96	21,22	79·0	+1·2	76	4 days	83·5	86·4	78·9	78·9	31·8	+0·6	30·3	81	+1	8
Gopalpur	56	1005·4	+1·4	1002·3	89·5	+0·9	96	22	78 8	+0·4	75	27,28	83·7	84·7	79·6	80 5	32·8	+0·8	34·0	83	+2	8
Koraput	2,996	907·8	...	905·7	81·3	...	85	26,27	68·0	...	64	12,18	73·7	74·3	70·9	70·6	24·4	...	24·3	87	...	
Angul	455	991·9	+1·7	988·4	90·4	+1·6	95	17	77·2	+0·7	75	5 days	81·4	85·6	77·3	77·4	30·3	—0·1	28·7	83	+1	8
Sambalpur	486	990 4	+1·0	986·8	90·1	+1·4	94	17	77·1	+0·2	74	18,30	82·4	85·4	78·1	78·9	30·6	+0·3	30·8	82	0	
Jharsuguda	726	982·2	...	978·7	...	...	...	...	...	...	...	...	82·5	84·0	77·7	78·0	29·9	...	30·0	80	...	
Titilagarh	691	983·5	...	979·8	90·5	...	95	17,18,24	75·8	...	73	3,18	80·8	85·1	76·3	77·7	28·9	...	28·9	81	...	
Chota Nagpur—																						
Purulia	835	979·1	...	975·4	90 4	...	94	26	76·5	...	71	10	82·5	84·6	77·7	78·8	29·9	...	30·7	80	...	
Jamshedpur	423	992·6	+1·6	988·9	91·4	+1·5	95	18	77·7	+0·1	75	10,29	83·0	86·1	78·1	78·3	30·5	0	29·2	80	—1	8
Chaibasa	742	981·9	+1·7	978 1	91·3	+2·0	95	18	76·6	+0·6	74	21,29,30	81·4	85 8	77·0	77·9	29·5	—0·1	28·9	82	+1	8
Ranchi	2,150	934·3	+0·6	931·9	86·8	+2·7	91	18	71·8	—0·1	70	5,20	78·9	79 8	74·1	73·6	26·5	+0·6	26·0	80	—1	8
Hazaribagh	2,006	939·9	+1·5	936·7	86·5	+1·8	90	18,25	72·1	—0·2	68	27	78·9	79·7	74·1	74·3	26·5	+0·5	26·6	80	—1	8
Daltonganj	725	982·2	+1·2	978·4	91·4	+1·7	95	25,26	75·9	+0·5	72	10	82·9	85·3	77·0	77·5	28 9	+0·1	28·4	75	—4	8
Dhanbad	839	978·2	...	974·7	90·6	...	95	5,6,21	75·4	...	73	11,27	82·0	84·9	77·7	78·2	30·4	...	30·2	79	...	

(R) Register not received.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																		STATION.
											0830 hrs. I. S.T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bay Islands
5·5	+0·3	6·5	14·21	—3·19	3·00	24	18	—3·9	7·0	—3·4	1	0	1	0	0	12	12	1	3	0	0	1	0	2	10	10	1	6	Port Blair
																													Assam
5·6	—0·2	4·2	9·94	—3·91	3·34	18	9	—6·4	1·5	+0·6	9	5	3	0	2	2	1	5	3	2	5	2	0	0	1	0	0	20	Dibrugarh
																													Mohanbari (R)
5·7	—1·0	4·4	3·62	—8·21	1·51	18	7	—7·8	3·3	+1·5	7	10	0	0	7	3	1	2	0	5	5	0	1	3	3	3	2	8	Sibsagar
4·6	—1·2	3·6	4·78	—3·50	1·68	18	9	—3·7	1·0	—0·4	1	2	16	1	0	4	4	0	2	0	2	9	1	1	1	4	0	12	Tezpur
4·7	...	3·3	3·02	...	1·06	18	7	...	2·0	...	1	13	3	2	0	3	2	2	4	1	3	1	0	1	2	1	1	20	Gauhati D. Type
5·3	—0·1	4·0	4·05	—2·54	1·15	18	10	+0·7	1·8	+0·5	4	6	4	3	3	2	1	2	5	1	2	1	2	0	6	1	1	16	Gauhati
5·4	+0·2	5·5	7·33	—6·69	1·82	17	9	—3·5	2·4	—0·9	5	7	7	2	4	2	0	0	3	1	4	5	2	5	3	2	0	8	Dhubri
4·7	—1·1	4·0	6·40	—8·92	2·42	17	10	—6·2	1·0	—0·3	1	3	3	2	1	3	1	2	14	0	1	1	1	1	2	1	2	21	Silchar
5·0	...	6·5	11·31	...	2·21	20	12	...	3·8	...	0	3	0	1	7	4	1	0	14	1	5	2	3	4	5	2	0	8	Tura
																													West Bengal
4·9	...	6·1	10·10	...	2·69	10	12	...	4·6	...	2	3	4	7	4	2	4	4	0	2	1	3	6	7	3	3	4	1	Dum Dum
4·8	—0·9	6·0	12·84	+2·89	2·74	10	13	—0·2	2·8	0	0	1	3	4	3	7	0	3	9	0	0	2	4	3	6	2	0	13	Calcutta
5·2	—0·9	5·2	10·50	+0·15	3·40	13	9	—3·9	9·9	+1·5	1	5	1	4	4	9	2	2	2	1	2	1	4	9	10	1	1	1	Saugor Island
5·0	0	5·1	4·61	—0·18	1·95	6	10	+1·6	...	...	0	1	2	4	2	11	2	2	6	0	0	3	6	3	13	1	0	4	Sandheads
3·4	—1·1	4·6	7·66	—0·85	3·71	10	8	—3·9	2·3	+0·4	2	3	3	1	8	1	1	0	11	0	1	4	4	10	0	0	0	11	Midnapore
3·5	...	3·7	4·41	...	1·73	26	7	...	4·8	...	3	6	2	6	0	7	1	1	4	3	3	0	8	7	5	0	1	3	Contai
1·4	—4·0	2·8	8·87	+0·07	6·46	10	8	—3·3	3·8	+2·0	1	3	4	4	6	6	1	1	4	1	0	6	5	5	6	0	0	7	Burdwan
4·2	—1·2	5·1	5·99	—1·97	3·56	10	5	—6·2	2·8	0	3	3	6	3	9	0	4	0	2	1	0	9	1	8	0	3	1	7	Krishnagar
3·5	—1·7	4·7	7·73	—0·52	1·95	10	10	—0·7	3·3	—0·7	1	2	3	5	1	3	2	4	9	1	1	7	3	2	0	2	1	13	Asansol
4·7	—0·7	5·5	3·84	—5·30	1·08	6	9	—2·5	1·9	—0·6	0	0	8	3	6	4	0	0	9	0	0	3	3	8	0	0	0	16	Berhampore
4·7	+0·5	5·2	5·52	—6·00	1·43	14	10	—1·6	3·9	0	0	4	8	3	2	8	2	1	2	3	3	6	3	3	2	2	1	7	Malda
5·5	...	5·2	22·22	—1·30	4·20	18	14	—3·1	2·5	...	1	1	13	8	2	1	3	0	1	1	1	2	4	3	2	2	3	12	Cooch Behar
5·1	+0·7	4·8	15·12	—6·10	3·62	13	10	—6·4	3·1	+1·6	3	10	4	1	0	1	1	1	9	3	3	5	1	5	4	0	1	8	Jalpaiguri
4·8	...	4·3	12·32	...	3·34	11	12	...	1·6	...	0	6	4	2	2	1	0	0	15	0	2	1	1	0	1	0	0	25	Bagdogra
																													Orissa
5·8	+0·6	6·5	10·20	—0·86	3·42	11	10	—2·9	3·6	+1·1	4	4	1	3	2	6	1	2	7	0	2	0	4	6	3	0	3	12	Balasore
4·8	—0·6	3·9	8·14	—0·78	2·86	30	9	—5·1	4·4	—0·7	2	5	2	5	1	6	4	5	0	0	1	2	16	4	3	0	0	4	Chandbali
4·3	—0·4	5·0	7·50	—1·55	1·80	27	8	—4·1	8·8	+0·7	3	4	0	2	3	11	2	1	4	2	3	0	5	7	10	1	1	1	Puri
3·2	—1·8	4·8	8·39	—1·37	1·70	23	12	—0·6	2·6	+0·8	0	5	1	1	0	1	0	1	21	0	2	0	1	0	1	0	0	26	Cuttack
4·1	—0·1	5·2	7·07	—0·41	2·21	30	6	—3·5	6·5	0	10	1	0	0	2	2	1	3	11	3	0	0	5	9	9	0	0	4	Gopalpur
5·3	...	6·8	4·71	...	1·09	28	10	...	...	...	2	2	4	2	3	6	9	2	0	5	2	3	0	4	4	6	6	0	Koraput
5·6	+0·3	5·9	3·81	—3·54	1·23	30	5	—6·1	2·8	—1·0	0	2	2	2	2	1	5	1	15	2	3	4	5	4	2	4	2	4	Angul
4·4	—0·6	5·0	6·86	—2·19	2·79	9	14	+2·6	3·1	+0·3	2	4	7	3	3	7	2	0	2	2	3	1	4	4	5	5	0	6	Sambalpur
4·6	...	5·3	4·76	...	1·45	9	9	...	...	...	3	1	4	4	3	3	1	0	11	0	2	2	1	1	3	1	0	20	Jharsuguda
5·0	...	5·7	12·26	...	1·88	18	13	...	1·7	...	2	2	1	5	7	5	1	1	6	2	2	1	2	2	1	3	2	15	Titilagarh
																													Chota Nagpur
3·8	...	6·0	15·86	...	4·14	11	8	...	2·3	...	2	5	3	6	0	2	8	0	4	1	0	7	6	1	0	5	0	10	Purulia
4·4	—1·3	5·3	4·19	—2·92	1·37	10	10	—1·2	3·6	+0·5	0	1	5	2	1	4	10	3	4	0	0	7	7	2	3	3	3	5	Jamshedpur
4·9	—0·2	6·0	6·07	—1·84	1·72	30	9	—2·6	1·3	—0·3	1	5	0	3	0	3	1	1	16	0	5	0	3	1	3	1	0	17	Chaibasa
3·4	—1·7	4·5	13·86	+4·56	3·41	13	12	—0·3	1·3	—2·7	0	0	1	1	0	2	0	0	26	0	0	2	0	0	0	0	0	28	Ranchi
4·3	—1·3	5·5	13·20	+4·26	4·07	11	13	+1·5	4·3	—1·0	1	1	3	5	3	3	2	3	9	2	5	4	6	1	1	4	5	2	Hazaribagh
3·2	—0·3	4·6	9·09	+1·95	3·12	11	10	+0·7	2·7	—0·1	0	2	9	4	1	1	4	1	8	1	5	5	5	0	0	8	1	5	Daltonganj
6·4	...	6·6	6·87	...	3·37	11	8	...	4·8	...	3	4	6	2	3	5	5	1	1	0	1	5	6	4	5	2	2	5	Dhanbad

STATION	Height of barometer above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				temperature, °F.		temperature, °F.		Vapour pressure millibars.			Relative humidity %		
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	2
Bihar																						
Purnea	124	1003·5	+1·4	999·3	91·0	+2·0	96	5	77·1	—0·3	73	10,20,26	84·1	84·2	79·6	79·5	32·5	0	32·6	81	—4	8
Darbhanga	161	1001·9	+1·4	998·1	91·0	+1·8	97	6	78·6	+0·1	75	10	85·0	87·8	80·6	81·5	33·5	+2·3	33·6	82	+5	7
Motihari	218	999·8	+1·5	995·9	91·0	+1.4	96	5	78·1	+1·1	74	10,25,27	84·1	86·3	79·1	79·9	31·7	—0·1	31·8	80	0	7
Patna	173	1001·1	+1·3	997·3	92·1	+2·4	99	6	79·1	+0·2	74	10	85·6	87·5	79·5	79·5	31·8	—0·3	31·0	76	—3	7
Dehri	352	994·5	...	990·8	92·2	...	96	29	78·3	...	75	10,13,27	83·5	86·9	78·8	79·9	31.8	...	31·7	80	...	7
Gaya	365	994·1	+1·2	990·2	92·3	+1·8	96	5,18	78·1	+1·0	74	10	84·1	88·2	78·1	79·2	30·1	—0·3	30·0	75	0	6
Jamui	270	997.7	...	993·9	91·9	...	97	5	78·1	...	75	11,26	84·3	86·1	78·9	79·3	31·1	...	30·8	78	...	7
Dumka	489	990·0	+0·7	986·3	88·8	—0·3	96	18,19	...	...	...	...	82·4	82·6	76·4	75·6	28·3	—2·7	27·1	72	—9	7
Sabour	122	1003·0	+1·9	999·1	91·8	+2 5	96	5,6	78·2	—0·1	75	26,27	85·5	85·4	80·2	79·9	32·4	—0·2	32·4	79	—4	7
Bhagalpur	181	1001·5	...	997·6	93·1	...	98	6,26	79·2	...	77	7 days	86·9	86·6	80·4	79·6	32·5	...	31·4	75	...	7
U. P., East																						
Gonda	360	994·8	...	991·2	91·7	+0·6	97	6,25	76·8	—0·3	72	26	82·2	86·3	77·8	79·5	30·2	—0·8	30·7	82	+1	7
Gorakhpur	254	998·3	+1·3	995·1	92·6	+2·2	98	13	78·1	+0·9	74	13,25	83·9	88·5	77·9	78·9	30·0	—1·2	30·1	77	—4	6
Azamgarh	255	997·5	...	993·8	93·3	...	101	5	77·5	...	74	9,13,14	83·6	88·1	79·6	81·0	33·2	...	32·9	83	...	7
Banaras	250	997·9	+1·1	994·2	93·0	+2·0	100	25	77·1	—0·2	71	27	84·0	88·9	78·6	79·5	30·8	0	30·1	79	—1	6
Allahabad (Bamrauli).	322	995·3	+0·9	992·1	92·3	+0·8	98	24,26	76·7	+0·1	71	10	83·0	87·9	77 9	79·7	30·5	0	31·3	79	0	6
Fatehpur	375	994·8	...	990·5	92·1	+1·0	99	25	77·0	+0·3	71	30	81·5	87·2	77·4	78·9	29·9	—1·1	29·4	79	—2	6
Banda	398	992·5	...	989·9	93·7	...	100	6,20,25	74·9	...	70	3	82·0	87·0	77·6	79·9	30·2	...	31·8	81	...	7
Orai	463	990·3	...	987·6	92·0	..	100	25	75·5	..	72	29	82·2	87·5	76·5	77·8	28·7	..	31·0	76	...	6
Kanpur	414	992·5	+1·4	989·5	93·0	+2·1	100	25	76·9	+0·7	72	30	82·9	87·6	76·7	77·9	29·0	—0·7	29·0	75	—7	6
Lucknow	371	994·1	+1·5	990·8	92·0	+0·1	98	6,24,25	77·4	+0·9	69	27	81·9	87·0	77·1	79·2	29·4	+0·7	30·2	79	0	7
Hardoi	487	990·6	...	987·3	90·2	...	98	6	76·3	...	72	26	81·0	87·5	76·7	79·4	29·1	...	31·8	82	...	6
Kheri	483	990·3	...	986·9	91·4	...	96	6, 24	76·0	...	72	25	81·6	85·6	77·2	79·2	30·2	...	31·5	81	...	7
Bahraich	407	993·1	+1·7	989·5	92·7	+1·5	98	6	76·7	+0·2	66	11	83·2	88·4	77·8	78·4	29 7	—0.2	29·0	78	0	6
U. P., West.																						
Jhansi	823	979·0	+1·2	975·9	90·8	—0·9	100	25	75·2	—0·2	73	4 days	81·4	87·6	74·7	77·0	26·2	—0·9	27·4	75	+1	6
Agra	553	988·5	+2 1	985·2 (b)	92·5	—0·4	100	6,25,26	75·1	—1·1	69	11	79·5	88·8 (b)	74·2	77·9 (b)	26·7	—0·7	27·7 (b)	77	+2	6 (1
Mainpuri	516	989·3	+1·7	985·1	91·9	—1·0	99	1,26	75·9	+0·3	72	14,26	81·5	87·3	76·6	78·5	28 4	+0·3	28·7	80	+4	6
Aligarh	615	985 5	...	982·8	92·5	+0·2	102	6	75·3	—0·6	72	14,26	81·0	89·7	75·8	78·8	28·4	+1·6	28·8	78	+7	6
Bareilly	568	987·0	+0·9	983·9	91·3	+0·4	99	6	76·0	+0·3	71	26	81·8	87·2	76·4	78·6	28 7	—0·2	29·4	78	—2	6
Meerut	728	981·1	+0·6	...	91·9	+0·1	100	6	75·6	+1·0	69	26	81·0	...	74.5	...	26·2	—0·2	...	74	—2	..
Roorkee	899	976·0	+1·1	972·8	90·6	+0·1	97	1,5,6	74·8	+1·7	71	26	81·0	87·7	76·2	78·2	28·4	+1·7	29·0	80	+1	6
Dehra Dun	2,239	932·3	—1·6	929·7	84·7	—0·1	91	6	70·8	+1·3	65	15	76·6	82·1	71·9	74·9	25·4	+1·8	26·8	80	0	7
Punjab (1)																						
New Delhi	710	982·1	+1·0	979·1	95·0	+1·5	103	6	76·5	+1·0	74	15,27	82·9	90·2	73·4	75·7	23·8	—2·2	23·8	63	—8	5
Hissar	725	982·1	+1·7	978·8	100·3	+3·6	106	5,6	75·3	+0·8	70	14	82·0	97·5	72·9	75·6	23·7	—0·5	19·7	63	—2	3
Karnal	818	978·5	...	975·4	93·8	...	101	6	74·5	...	68	26	79·9	90·9	74·2	76·8	26·7	...	25·3	75	...	5
Ambala	892	975·1	+0·2	972·4	96·8	+2·8	105	6	75·4	+1·5	71	15,19	80·6	92·7	74·9	77·2	27·7	+1·8	25·2	75	+1	5
Patiala	822	978·2	...	974·7	96·7	...	105	5,6	74·8	...	71	13,19,26	81·0	92·6	74·2	74·1	25·5	...	20·8	73	...	4
Ludhiana	810	978·6	+1·0	975·8	98·7	+3·8	105	7	76·1	+1·3	71	19	82·6	95·9	73·6	76·2	24·6	—0·6	22·3	64	—8	3
Ferozepore	657	983·6	...	980·8	99·0	...	103	5,7	73·5	...	69	19,26	83·2	94·9	73·5	77·1	23 2	...	23·5	62	...	4
Amritsar	756	979·9	...	976·9	97·8		102	5,6	73·2	...	69	19,24,25	82·5	95·4	74·4	75·8	26·0	...	21·3	67	...	3
Jammu and Kashmir.																						
Srinagar	5,205	842·0	+1·8	837·7	80·7	—0·8	89	22,23	53·9	+0·4	49	25,26	62·7	77·8	58·0	63·6	15.1	0	15·3	76	—9	4
Gulmarg	8,709	741·4	+1·3	...	65·4	+1·9	70	5 days	39·4	—3·7	35	25	51·2	...	48·3	...	10·5	+0.2	...	82	+2	.

(b) Mean of 29 days.

Cloud amount, (Oktas)			Rainfall, inches				Number of rainy days, (0·10" or more)		Wind velocity miles per hour		Wind direction—Number of winds from:—																			STATION
											0830 hrs. I. S. T.									1730 hrs. I.S.T										
Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T	Total of the month	Departure from normal.	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Bihar
4·1	−0·6	5·0	5·66	−5·94	1·34	10	8	−3·5	2·6	+0·7	1	4	10	2	1	2	5	0	5	1	2	1	1	0	1	1	0	23		Purnea
3·2	−1·5	4·4	2·95	−6·29	1·10	8	7	−2·4	1·7	−0·9	0	7	9	0	0	1	7	0	6	0	4	1	3	0	4	1	1	16		Darbhanga
4·6	+0·7	3·1	3·29	−5·76	0·85	10	9	−0·1	2·9	−0·1	0	0	16	0	1	0	7	0	6	0	0	6	0	0	0	4	0	20		Motihari
3·0	−1·9	4·6	6·12	−2·48	2·40	10	6	−3·2	4·9	+1·6	1	10	2	8	1	5	3	0	0	7	7	3	1	0	3	4	1	4		Patna
2·7	...	4·2	5 26	−2·13	1·52	7	8	−0·9	3·2	...	1	2	4	9	5	7	1	0	1	5	5	2	8	0	2	3	3	2		Dehri
3·4	−0·3	5·1	4·15	−3·35	1·64	11	8	−1·3	4·5	0	2	1	7	4	3	6	1	0	6	6	3	6	2	0	1	2	6	4		Gaya
3·3	...	4·9	4·12	...	2·86	11	5	...	2·8	...	4	10	6	2	0	1	1	4	2	2	6	4	5	0	0	0	1	12		Jamui
2·5	−2·2	4·2	13·22	+3·63	2·42	10	12	−0·5	...	...	1	6	8	1	1	2	9	2	0	1	5	6	3	4	5	6	0	0		Dumka
4·1	−1·6	5·4	4·97	−3·39	1·42	10	8	−1·8	4·1	−0·4	0	2	7	7	2	8	2	1	1	1	1	9	1	0	4	6	1	7		Sabour
3·6	...	5·0	4·04	...	1·00	6	8	...	3·9	...	0	2	4	6	1	3	5	0	9	0	2	8	3	0	4	5	1	7		Bhagalpur
																														U. P., East
3·5	−0·7	3·2	5·77	−3·37	2·57	13	9	−1·2	3·7	+0·6	0	0	16	1	0	0	6	3	4	0	0	7	0	0	0	5	0	18		Gonda
2·5	−0·9	2·6	4·64	−3·88	1·13	8	8	−1·3	2·8	+1·1	0	1	12	1	0	3	6	0	7	4	2	7	0	1	4	4	0	8		Gorakhpur
3·1	...	2·5	7·66	...	2·36	7	8	...	...	...	0	0	6	0	0	0	3	0	21	2	0	5	0	0	1	4	0	18		Azamgarh
2·8	−1 4	4·2	12·65	+5·43	4·97	9	10	+1·3	6·3	+3·5	1	2	11	0	1	9	2	1	3	3	7	4	0	1	2	9	2	2		Banaras
4·4	−0·1	4·7	6·36	−2·00	1·81	11	9	−0·5	3·9	+0·2	0	4	5	3	5	7	2	2	2	6	2	2	2	2	0	8	6	2		Allahabad (Bamrauli)
3·3	−0·4	4·2	5·05	−0·46	1·01	9	9	+0·4	2·9	+0·2	0	4	2	0	1	3	9	0	11	0	1	3	1	0	1	6	3	15		Fatehpur
2·9	...	3·4	7·00	...	2·05	12	11	...	2·1	...	0	2	6	0	1	1	10	0	10	0	3	2	0	1	1	9	1	13		Banda
3·5	...	4 8	8·63	...	1·76	13	9	...	5·4	...	1	3	5	4	2	3	9	3	0	4	5	1	3	2	2	5	8	0		Orai
3·5	+0·9	3·8	5·33	−1·46	1·65	12	8	+0·7	6·5	+1·4	3	3	7	1	2	6	7	1	0	4	4	1	2	1	1	7	4	6		Kanpur
3·7	+0·1	3·1	5·97	−1·43	2·10	27	7	−0·9	2·5	+0·8	6	3	8	1	2	5	4	1	0	4	2	5	1	2	4	4	1	7		Lucknow
3·4	...	3·1	7·31	...	1·94	9	6	...	3·7	...	1	2	5	7	0	2	6	3	4	5	2	1	3	0	2	5	8	4		Hardoi
3·8	...	3·4	6·67	...	1·92	14	8	...	2·2	...	2	1	5	8	2	2	4	2	4	0	2	5	2	0	1	7	3	10		Kheri
3·7	+0·9	3·7	2·19	−6·39	0·77	13	5	−2·3	3·9	+1·9	0	1	8	7	1	3	2	3	5	1	3	3	5	0	6	0	8	4		Bahraich
																														U. P., West
2·9	0	3·1	18·71	+12·81	5·95	3	8	+1·0	2·6	−0·4	2	0	2	0	0	1	8	2	15	0	0	1	0	0	2	4	2	21		Jhansi
2·7	−0·4	(b) 2·8	9·21	+4·63	2·20	12	6	+0·4	2·6	−0·8	0	1	0	0	0	3	2	1	23	2	1	0	0	1	4	0	1	20		Agra
3·6	+0·2	3·5	7·35	+2·26	2·05	13	8	+1·6	...	...	0	2	4	5	1	3	5	2	8	0	0	4	4	0	0	4	4	14		Mainpuri
3·3	+0·7	3·5	8·84	+3·54	2·73	8	6	−0·1	...	..	0	1	3	0	0	0	5	0	21	1	2	3	0	0	0	4	0	20		Aligarh
3·5	+0·2	3·9	7·24	−0·26	3·02	9	8	+1·2	2·2	+0·6	3	0	4	3	1	1	3	2	13	2	0	5	0	0	0	9	0	14		Bareilly
2·8	+0·4	...	6·07	+0·21	2·80	14	7	+1·9	3·8	...	0	2	3	2	2	1	7	7	6	...	...	...	...	...	...	...	...	...		Meerut
3·1	+0·2	3·1	2·77	−3·60	1·20	14	5	−1·0	2·7	+1·0	1	1	1	15	1	0	0	1	10	2	1	0	12	0	0	0	4	11		Roorkee
3 5	−0·3	3·7	4·93	−5·69	1·42	7	8	−2·9	1·6	0	1	1	0	1	1	0	2	0	24	1	2	0	3	2	4	4	3	11		Dehra Dun
																														Punjab (I)
2·7	+0·1	3·0	4·06	−0·78	2·74	14	5	+0·4	5·6	...	1	1	5	4	0	0	10	5	4	4	4	5	1	1	1	4	6	4		New Delhi
1·0	−0·6	1·4	0·60	−2·21	0·41	13	2	−1·1	4·4	+0·3	1	3	3	4	3	7	4	2	3	5	4	3	4	1	2	6	5	0		Hissar
2·4	...	2·0	3·79	...	2·60	11	3	...	2·5	...	1	2	2	4	3	3	3	2	10	1	2	4	3	0	2	5	7	6		Karnal
1·8	−0·7	1·5	1·44	−3·67	0·45	11	5	+0·3	2·9	+0·7	0	0	1	7	1	0	0	3	18	0	0	1	0	0	0	0	5	24		Ambala
2·5	...	2·3	1·70	...	1·15	11	3	...	3·3	...	0	0	2	15	0	1	2	7	3	2	0	0	10	0	0	1	11	6		Patiala
1·3	−0·5	1·7	0	−3·95	0	...	0	−3·8	0·3	−0·9	0	1	0	1	0	0	1	1	26	0	1	0	0	0	0	0	0	29		Ludhiana
0·5	...	0·6	0	...	0	...	0	...	...	...	0	0	0	0	0	5	0	2	23	0	0	0	0	0	5	1	5	19		Ferozepore
0·7	...	0·6	0·16	...	0·13	14	1	...	5·3	...	1	1	9	11	1	4	1	0	2	3	3	3	3	4	3	3	8	0		Amritsar
																														Jammu and Kashmir
0·7	−1·6	2·6	0·59	−0·94	0·26	23	2	−1·5	1·9	−0·3	1	0	3	10	5	0	1	3	7	2	0	1	0	1	1	0	5	20		Srinagar
0·6	−1·6	...	1·49	1·13	0·85	25	3	−2·3	3·1	+0·2	4	1	0	2	0	2	1	8	12	...	...	...	...	...	...	...	...	...		Gulmarg

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in millibars			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jammu and Kashmir—contd.																						
Dras (R)	10,059	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Leh	11,529	668·8	+1·3	665·4	68·1	—1·6	74	11	40·8	—1·0	33	19	52·1	63·3	40·5	45·7	5·0	—1·5	4·9	34	—16	28
Skardu (R)	7,505																					
Gilgit (R)	4,890																					
Misgar (R)	10,190																					
Rajasthan, West																						
Sri Ganganagar	580	985·9	...	982·5	100·5	+0·5	104	6	73·4	—0·7	69	8,24	83·2	96·8	72·2	75·3	21·8	—1·1	20 4	56	—4	34
Bikaner	734	981·2	+0·9	978·1	101·7	+4·3	106	28	76·6	—0·5	72	28	82·9	100·5	71·2	72·7	21·1	—3·3	15·0	55	—13	23
Jaisalmer	793	979·7	...	976·3	99·0	...	108	29	75·9	...	73	5 days.	79·9	97·9	75·4	85·5	28·1	...	36·1	77	...	58
Jodhpur	736	982·6	+2·8	979·1	99·4	+5·2	108	29	77·2	+2·4	73	19	82·7	97·7	71·9	73·7	21·8	—3·1	17·8	58	—15	29
Phalodi	783	979 9	...	977·0	99·4	...	105	28	76·5	...	73	19,21	80·8	98·8	77·6	89·6	31·4	...	32·1	79	...	38
Barmer	638	985·7	+2·0	982·3	100·2	+5·0	109	29	77·9	+2·2	72	9	81·9	98·1	75·3	80·7	27·2	+2·0	27·6	73	+2	46
Rajasthan, East																						
Sikar	1,419	959·2	...	956·1	97·2	...	102	4,27,28	73·8	...	66	18	82·2	95·4	76·0	83·1	27·9	...	28 9	73	...	61
Jaipur	1,431	959·1	+0·9	955·7	97·1	+4·0	102	27,28	73·6	+0·8	68	18	83·4	93·8	71·7	73·5	21·1	2·8	18·9	55	—15	36
Ajmer	1,593	953·9	+1·1	950·7	95·4	+5·4	101	29	77·1	+2·6	71	27	81·5	93·8	69·6	70·3	19·3	—4·7	15·9	54	—13	30
Kotah	843	978·2	+0·8	974·6	98·2	+5·9	105	26,27,28	79·9	+3·5	75	15	84·8	95·8	72·6	73·5	22·3	—3·3	18·0	54	—15	32
Jhalawar	1,053	971·6	+1·6	968·0	96·6	+7·2	102	5 days.	75·0	+1·7	69	20,21	80·7	93·5	71·4	72·8	22·1	—5·1	18·0	62	—19	35
Udaipur	1,910	944·0	+1·0	941·4	92·1	+4·5	100	28	73·1	+1·9	67	20	80·7	87·9	70·6	72·6	21·4	—2·3	20·2	60	—15	47
Madhya Bharat																						
Gwalior	688	983·0	...	980·4	91·3	...	99	26	75·8	...	71	14	81·7	87·5	76·1	77·1	28·2	...	26·3	70	...	63
Sheopur Kalan	771	...	...	...	95·7	...	101	5 days	73·6	...	71	17,18,20	80·7	92·2	74·2	76·1	26·1	...	23·5	73	...	47
Guna	1,571	954·3	+1·5	951·3	90·7	+3·6	96	6 days	71·6	+0·1	67	19	78·5	87·1	72·2	75·3	24·4	—2·1	25·1	75	—8	59
Neemuch	1,626	953·5	+1·4	950·1	95·0	+7·1	102	29	74·1	+2·9	69	20	80·1	91·5	70·2	71·2	21·2	—3·7	17·9	61	—18	37
Ratlam	1,596	954·2	...	951·3	91·8	...	100	24	71·7	...	67	21	77·0	88·0	71·1	73·1	23 3	...	21·0	75	...	49
Indore	1,839	946·0	+0·7	942·7	91·7	+6·3	98	24	69·2	—0 3	65	17,18,19	78·2	86·7	70·9	72·7	22·9	—2·4	21·7	69	—14	51
Bhopal (Bairagarh)	1,714	949·8	+1·4	946·6	90·1	+4·2	97	24	70·8	—0·6	63	20	78·1	86·4	71·0	72·2	23·2	—2·7	21·4	71	—12	51
Vindhya Pradesh																						
Nowgong	750	981·0	+0·8	978·5	91·4	+1·1	100	25	73·4	—1·4	68	28	80·3	86·0	75·4	77·5	27·8	—0·5	28·3	79	—2	69
Sutna	1,041	970·9	+0·8	968·1	89·5	+1·3	95	25	74·8	0	71	30	80·4	84·7	75·5	76·7	28·4	+0·2	27·7	79	—1	69
Umaria	1,506	955·8	...	953·2	88·5	+2·1	93	4 days	69·9	—3·2	66	5 days	80·5	82·2	75·0	75·4	27·4	+0·5	27·3	78	—2	75
Madhya Pradesh, East																						
Gondia	1,026	973·0	...	969·6	89·2	...	94	24,25	75·4	...	72	2	80·1	83·4	75·7	76·0	28·3	...	27·3	81	...	69
Pendra	2,040	938·4	+1·0	935·5	85·1	+1·5	90	17	71·5	+1·0	69	18,19	77·8	79·3	73·4	73·9	26·3	+0·6	26·4	81	—1	78
Ambikapur	1,989	940·6	...	937·4	86·2	...	90	25,26	71·2	...	67	26	77·6	80·9	73·5	74·2	26·6	...	26·1	82	...	73
Raigarh	723	982·1	...	978·9	91·6	...	95	8 days	77·0	...	74	6,29	82·4	87·7	77·4	78·3	29·8	...	30·4	79	...	65
Champa	805	979·8	...	976·2	90·5	...	95	18,23	76·5	...	74	1,26,30	82·1	86·7	77·3	78·2	29·8	...	29·1	80	...	68
Raipur	979	973·6	+0·9	970·3	88·7	+0·6	94	23,25	76·1	+1·1	71	11	80·8	86·8	76·2	77·5	28·6	—0·1	28·3	80	—1	67
Kanker	1,318	962·9	+1·5	959·5	87·9	+2·0	92	20,25,28	73·9	+1·0	71	26	78·9	83·7	74·6	76·4	27·3	+0·1	27·7	81	—1	71
Chanda	634	985·9	+0·7	982·2	89·8	+0·9	93	7 days	74·8	+0·3	72	2	80·1	85·8	75·3	77·3	27·8	—0·4	28·1	78	—2	69
Sironcha	405	993·9	...	990·6	90·4	...	95	17,25	76·2	...	71	18	80·6	86·7	76·7	78·3	29·5	...	29·2	83	...	69
Jagdalpur	1,815	946·2	+0·7	943·2	86·0	+1·3	91	1	72·1	+1·6	69	25	77·4	80·8	74·1	75·0	27·4	—0·1	27·3	85	+1	77

(R) Register not received.

Cloud amount (Oktas).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity miles per hour.		Wind direction—Number of winds from :— 0830 hrs. I. S. T.									1730 hrs. I. S. T.									STATION
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal	Heaviest fall in 24 hours.	Date	Total in the month	Departure from normal.	Mean	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Jammu and Kashmir—*contd.*
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Dras (R)
2·3	−9·6	2·8	0·15	−0·12	0·09	24	0	−0·9	3·6	+1·8	0	0	0	0	0	0	0	0	30	0	4	0	1	2	9	3	1	10	Leh
																													Skardu (R)
																													Gilgit (R)
																													Misgar (R)
																													Rajasthan, West
0	−0·7	0·1	0	−0·12	0	...	0	−0·5	3·3	−2·3	1	0	4	2	4	15	1	0	3	2	3	1	0	0	9	9	1	5	Sri Ganganagar
0·2	−1·3	0·5	0	−1·31	0	...	0	−2·1	5·5	+0·1	0	0	0	2	1	9	2	12	4	1	3	0	1	0	12	1	12	0	Bikaner
0·7	...	0·2	0	...	0	...	0	...	2·4	...	0	2	0	0	0	23	1	1	3	0	2	0	1	0	24	1	2	0	Jaisalmer
1·3	−1·9	2·2	0	−2·40	0	...	0	−2·8	4·8	−2·5	0	2	1	1	1	9	10	0	6	2	1	2	0	0	10	11	4	0	Jodhpur
0·1	...	0·2	0	−0·95	0	...	0	−1·7	9·3	...	0	2	4	1	1	11	13	1	0	1	2	1	0	1	13	9	3	0	Phalodi
1·5	−1·1	2·4	0	−0·73	0	...	0	−1·4	6·7	+1·0	1	0	1	0	1	9	9	2	7	1	1	0	0	5	13	1	2	7	Barmer
																													Rajasthan, East
0·8	...	2·9	0	...	0	...	0	...	1·3	...	0	1	0	1	6	4	8	3	7	2	5	1	1	0	7	5	7	2	Sikar
1·2	−1·6	2·4	0	−3·22	0	...	0	−4·7	4·4	+0·4	6	1	0	2	1	1	1	9	9	9	2	4	2	0	0	2	10	1	Jaipur
0·9	−1·9	1·6	0	−2·70	0	...	0	−4·0	6·2	+2·1	0	0	0	2	1	11	9	2	5	4	2	1	0	0	4	12	6	1	Ajmer
2·1	−0·9	2·8	0·40	−4·31	0·40	15	1	−4·7	4·5	+1·9	0	0	1	0	0	4	14	3	8	0	0	1	1	0	0	9	6	13	Kotah
1·9	−1·9	2·1	0·09	−6·14	0·05	13	0	−6·9	3·6	+0·5	2	1	2	0	1	4	5	5	10	4	5	4	1	0	1	6	6	3	Jhalawar
2·4	−0·5	3·1	0·29	−3·56	0·25	8	1	−4·4	3·5	...	3	2	0	0	2	3	5	11	4	1	4	1	0	2	8	8	4	2	Udaipur
																													Madhya Bharat
3·7	...	3·6	11·03	...	3·87	13	6	...	4·4	...	3	2	0	1	3	3	7	4	7	3	2	3	0	0	3	5	8	6	Gwalior
...	...	...	0·45	...	0·23	13	2	...	...	...	5	2	0	2	12	0	4	2	3	8	4	2	4	6	1	2	1	2	Sheopur Kalan
3·6	−0·1	3·4	4·35	−5·06	1·54	8	5	−3·6	4·5	+0·6	4	0	2	2	4	5	10	2	1	9	6	0	1	1	6	3	4	0	Guna
3·4	−0·2	4·0	0	−4·97	0	...	0	−6·3	6·4	+0·4	2	6	0	2	0	7	9	2	2	1	14	1	0	0	6	7	0	1	Neemuch
4·2	[illegible]	5·8	1·45	...	0·59	5	4	...	5·3	...	0	1	3	0	0	6	14	2	4	2	5	2	0	0	3	14	4	0	Ratlam
2·8	−2·6	4·6	1·66	−4·80	0·50	29	6	−2·4	7·6	+0·3	0	0	2	3	1	0	14	5	5	3	1	5	1	0	4	10	6	0	Indore
4·0	−0·6	5·0	2·14	−8·28	0·77	8	5	−5·2	6·6	+0·1	1	0	2	4	0	1	8	10	4	4	6	1	1	0	1	5	10	2	Bhopal (Bairagarh)
																													Vindhya Pradesh
3·7	−0·3	5·1	14·18	+8·37	4·75	12	11	+3·8	2·8	+1·0	2	2	2	1	5	11	0	3	4	8	2	0	0	1	11	2	4	2	Nowgong
3·7	−0·4	5·3	12·92	+6·03	7·01	12	9	+0·1	2·8	−0·5	1	1	4	3	2	8	3	1	7	1	1	2	0	0	4	3	0	19	Sutna
3·4	−1·8	4·5	11·22	+2·09	2·61	11	13	+2·6	2·1	−1·1	0	3	3	4	1	5	4	2	8	2	2	0	1	0	2	8	10	5	Umaria
																													Madhya Pradesh, East
1·7	...	4·6	9·73	...	2·58	10	10	...	2·1	...	3	1	0	5	0	7	2	3	9	5	2	2	2	1	5	4	5	4	Gondia
1·2	−1·1	5·5	7·47	−0·43	1·48	2	13	+1·7	2·8	−0·4	6	1	2	2	8	2	2	1	6	7	1	1	1	9	6	3	2	0	Pendra
1·4	...	3·7	6·79	...	2·25	6	11	...	4·4	...	3	4	1	1	8	6	2	1	4	5	3	3	4	3	5	3	2	2	Ambikapur
1·9	...	5·1	10·68	...	2·30	5	10	...	3·1	...	4	5	3	7	2	4	3	1	1	0	3	1	3	0	6	7	1	9	Raigarh
1·3	...	4·8	4·28	...	1·34	5	8	...	3·0	...	3	2	4	3	1	2	4	3	8	3	1	2	2	3	4	9	3	3	Champa
1·4	−0·2	5·2	5·23	−2·46	2·21	11	5	−5·3	3·7	−1·0	4	4	1	2	3	6	3	1	6	3	0	6	4	2	4	2	2	7	Raipur
1·2	−1·4	5·7	2·82	−7·42	0·72	5	8	−4·3	2·8	−0·8	0	1	0	0	0	4	1	1	23	6	2	2	0	0	2	4	5	9	Kanker
1·3	−0·3	5·1	6·85	−2·06	2·14	1	7	−3·7	1·9	−1·2	0	0	0	0	0	0	2	0	28	0	0	0	0	0	0	0	2	28	Chanda
1·2	...	4·9	8·21	...	1·78	18	11	...	2·9	...	4	2	5	5	2	2	5	4	1	6	6	3	4	2	1	2	2	4	Sironcha
1·0	0	6·4	5·12	−5·26	1·43	30	9	−4·6	2·9	+0·5	0	3	0	3	0	11	0	2	11	0	5	0	4	0	9	0	5	7	Jagdalpur

STATION	Height of bar, cistern above mean sea level in feet	Pressure at station level in millibars			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity %	
		Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Madhya Pradesh, West																					
Buldhana	2,133	937·0	...	933·5	86·2	...	91	4 days	70·7	...	67	13	73·7	83·4	69·5	72·9	22·9	...	23·4	81	...
Akola	925	976·5	+0·7	972·6	92·2	+2·8	98	6	74·0	+0·9	70	7	79·0	89·0	73·1	75·5	25·1	—0·3	24·0	75	—
Amravati	1,213	966·6	+1·1	963·0	90·6	+2·4	96	25	73·7	+1·2	68	7	78·6	87·8	73·5	74·9	25·9	+0·2	23·7	78	—
Yeotmal	1,481	957·7	...	954·2	89·1	...	94	24,25	71·9	...	68	6	78·4	84·7	73·2	75·3	25·6	...	25·7	78	...
Khandwa	1,044	972·4	+0·7	968·6	93·4	+5·0	101	26	71·8	—1·2	69	23	80·8	87·7	73·7	75·6	25·2	—0·5	24·8	71	—1
Hoshangabad	992	973·5	+0·3	970·4	91·7	+5·0	98	23,25	73·7	+0·4	70	18	78·3	87·6	73·9	76·2	26·6	—0·6	25·7	80	—
Sagar	1,808	946·0	+0·9	943·1	86·6	+0·3	93	23,24,25	72·5	+1·1	68	18	77·8	81·8	72·4	72·7	24·8	—0·2	23·8	76	—
Jabalpur	1,289	963·3	+0·7	960·4	89·2	+2·1	94	4 days	73·0	+0·7	70	18	79·5	84·4	74·1	75·6	26·3	—0·1	26·3	77	—
Mandla	1,452	957·9	...	954·9	88·2	...	93	4 days	71·1	...	68	22,27,28	77·2	82·2	74·1	75·2	27·8	...	26·7	85	..
Seoni	2,027	940·2	+2·1	936·4	86·8	+1·8	91	24,26,27	70·9	+0·5	69	1,21	77·6	81·4	72·4	73·4	25·0	+0·1	24·9	77	—
Chhindwara	2,248	932·3	...	929·5	86·3	...	92	24,25,28	69·9	...	66	21	76·4	81·6	71·3	71·9	24·1	...	22·8	78	..
Betul	2,144	936·1	...	933·1	85·3	...	90	4 days	69·0	...	65	18	76·2	79·3	71·2	72·0	27·7	...	23·9	78	..
Nagpur	1,010	973·1	+1·0	969·6	90·4	+0·6	95	17,19,25	73·9	—0·3	71	1	80·3	85·9	74·9	75·9	27·1	+2·1	26·1	77	+
Gujarat																					
Deesa	444	(i) 993·8	+1·9	(h) 989·8	(i) 94·6	...	108	29,30	(i) 73·4	...	72	21	(h) 82·9	(h) 96·2	(h) 74·5	(h) 75·9	(h) 25·4	...	(h) 21·3	(h) 68	.
Surat	39	1007·8	+1·0	1004·0	94·7	+6·0	106	26	78·0	+2·1	74	20	81·4	90·6	76·3	78·1	28·7	—0·3	27·2	78	-
Ahmedabad	182	1002·3	+0·7	998·4	97·5	+4·9	107	29	76·6	+1·3	74	29	82·0	95·5	76·1	78·3	28·1	+1·3	25·3	75	-
Dohad	1,093	971·4	....	967·8	93·2	+7·1	102	24,25	74·2	+1·3	70	19	79·6	90·8	72·8	74·8	24·5	—2·5	22·2	72	—
Baroda	115	1005·1	...	1000·8	97·1	+6·5	106	26,29,30	75·0	+0·4	71	20	81·7	95·2	75·4	78·4	27·2	—1·1	25·5	74	-
Broach	57	1007·1	...	1002·9	97·8	...	107	26,30	76·3	...	75	4 days	81·3	94·9	76·2	78·3	28·6	...	25·5	79	.
Saurashtra and Kutch																					
Bhuj	343	996·7	+1·4	994·0	94·7	+2·9	109	30	76·1	+1·4	74	4 days	80·4	92·7	73·6	73·8	25·3	—1·7	19·9	72	.
Dwarka	37	1007·5	+1·1	1005·1	86·1	+0·9	87	12 days	78·0	+0·3	77	9 days	80·3	83·4	76·8	78·1	29·9	+0·9	30·4	85	
Jamnagar	61	1006·3	+1·4	1003·4	93·0	+3·6	107	30	75·2	+0·7	71	2	82·1	89·1	76·0	77·9	27·9	+0·7	27·5	75	.
Rajkot	432	994·0	+1·3	990·1	96.6	+4·8	109	30	73·9	+1·3	70	2	79·5	94·2	74·9	75·3	27·5	+0·7	21·3	80	
Veraval	26	1007·9	+0·5	1005·3	87·8	...	96	26	76·7	...	73	22	81·4	84·2	77·1	79·1	29·8	...	31·6	81	
Bhavnagar	55	1007·5	+1·6	1003·3	97·8	+5·4	106	30	76·8	+1·9	73	18	80·9	95·0	74·3	76·3	26·0	—0·9	22·4	72	
Konkan																					
Dahanu	15	1008·5	...	1005·8	87·7	...	98	30	77·1	...	74	4 days	82·1	85·7	77·9	80·0	30·7	...	32·4	82	
Bombay	35	1008·3	+0·8	1005·3	88·1	+2·6	93	29,30	77·5	+1·8	73	2	81·7	84·6	77·6	79·0	30·5	—1·0	31·3	83	
Alibag	23	1009·3	+1·0	...	86·9	+2·3	91	30	76·5	+0·5	73	1,13	80·9	...	77·4	...	30·5	+1·2	...	84	
Harnai	66	1007·3	...	1004·3	83·6	...	89	30	76·9	...	73	12,13	79·9	82·3	76·7	78·1	29·9	...	30·9	86	
Devgad	117	1005·5	...	1002·7	85·4	...	90	29	75·9	...	72	30	79·0	82·9	75·9	78·1	29·2	...	30·7	86	
Vengurla	29	1008·6	...	1005·6	86·7	...	91	26	74·5	...	72	14	79·5	82·7	76·3	77·3	29·5	...	29·5	86	
Marmagao	202	1002·8	—0·1	1000·1	84·1	+1·4	89	26	76·1	+1·5	72	30	79·4	81·3	76·2	77·0	29·4	+0·3	29·7	86	
Honavar	85	1007·0	...	1004·0	86·1	...	90	26	74·5	...	72	3	79·0	81·6	76·2	77·4	29·6	...	30·2	88	
Deccan (Desh)																					
Jalgaon	660	986·4	...	982·1	95·5	...	102	25	73·5	...	71	13,17	79·0	92·6	73·5	75·4	25·7	...	22·2	76	
Malegaon	1,432	960·4	+0·9	956·8	94·2	+5·5	99	29,30	71·8	+1·6	66	17	79·7	90·0	71·8	72·8	23·0	—0·9	19·7	66	-
Ahmednagar	2,154	936·6	+0·6	933·1	90·4	+4·3	97	26,29	69·5	+1·6	64	12	76·8	84·2	70·8	71·6	23·3	+0·8	21·4	74	
Poona	1,834	947·5	+0·7	943·9	90·0	+5·4	97	29	71·0	+2·1	69	5 days	76·4	83·8	71·2	72·1	24·0	+0·9	22·1	77	
Jeur	1,709	951·1	...	947·1	91·7	...	97	29	(b) 70·5	...	65	12	77·4	85·5	71·6	72·3	24·1	...	21·7	75	
Sholapur	1,570	956·0	+0·7	951·8	92·0	+3·3	97	29	72·6	+1·6	67	1	77·7	86·4	72·6	74·4	25·3	+2·1	24·2	78	

(b) Mean of 29 days. (h) Mean of 23 days. (i) Mean for 2

Cloud amount. (Oktas).			Rainfall, inches.				Number of rainy days. (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																		STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Madhya Pradesh, West
4·8	...	5·1	3·29	...	1·03	4	7	...	6·8	...	2	1	0	2	4	0	2	19	0	0	8	3	4	0	0	0	15	0	Buldhana
5·4	+0·6	5·3	3·54	—2·26	1·03	7	6	—1·6	4.4	—0·5	2	2	4	1	0	0	9	10	2	6	0	3	2	0	0	5	10	4	Akola
4·7	—0·2	5·1	2·92	—3·12	1·22	7	5	—3·3	6·3	+2·0	2	8	1	0	0	4	10	4	1	0	13	1	3	0	4	0	9	0	Amravati
5·1	...	6·1	7·22	...	1·92	6	8	...	7·2	...	0	9	0	0	0	5	0	16	0	0	11	0	4	0	3	0	12	0	Yeotmal
2·8	—1·6	5·4	2·10	—3·59	0·80	8	4	—3·1	5·0	0	0	1	1	0	0	1	16	2	9	1	4	4	1	0	2	11	5	2	Khandwa
4·8	—0·2	5·9	4·71	—3·65	2·44	9	3	—6·5	2·4	+0·3	0	1	6	2	5	5	5	3	3	1	6	4	4	0	6	6	3	0	Hoshangabad
3·0	—1·2	4·7	9·35	+1·75	4·02	9	10	+0·4	9·3	—0·2	0	3	2	5	2	10	7	1	0	0	7	1	2	1	8	3	8	0	Sagar
4·1	—0·4	4·5	7·90	—0·51	3·35	6	8	—1·7	3·0	+0·8	1	2	1	5	3	9	3	0	6	2	10	0	1	0	5	4	7	1	Jabalpur
5·2	...	6·0	7·08	...	3·72	2	10	...	0·2	...	1	0	0	0	0	0	1	1	27	4	0	0	0	0	0	0	2	24	Mandla
4·5	+0·2	5·7	6·14	—2·45	1·95	2	9	—1·9	3·1	+0·1	1	5	0	3	1	5	2	3	10	3	5	3	4	1	4	1	3	6	Seoni
2·9	...	5·0	4·77	...	1·51	29	9	...	3·0	...	3	1	1	1	0	0	8	2	14	9	4	2	2	1	2	3	6	1	Chhindwara
4·0	...	5·8	5·31	...	3·48	9	8	...	3·9	...	0	0	2	5	1	4	9	7	2	5	5	3	1	1	1	6	8	0	Betul
4·6	—0·1	5·6	6·92	—1·09	2·70	6	6	—4·6	4·0	...	3	6	2	0	1	3	8	5	2	3	6	3	1	2	3	2	8	2	Nagpur
																													Gujarat
(h) 1·6	...	(h) 3·0	0	...	0	...	0	...	...	...	0	2	4	0	2	5	5	2	3	1	4	2	0	0	12	1	3	0	Deesa
3·5	—1·7	3·2	0	—5·80	0	...	0	—7·4	4·5	+0·7	2	0	2	1	0	6	6	5	8	0	0	0	0	2	21	4	2	1	Surat
2·7	—1·4	2·9	0	—4·16	0	...	0	—5·2	4·4	—0·1	0	1	2	0	1	3	10	1	1	1	3	1	3	6	3	6	4	3	Ahmedabad
2·8	—2·9	2·6	0·52	—5·11	0·45	4	1	—6·2	10·5	+4·0	0	4	1	1	1	9	13	0	0	3	0	0	0	1	13	8	3	2	Dohad
1·9	—2·5	2·0	0·07	—5·89	0·06	28	0	—6·7	2·4	—1·0	1	0	0	0	1	10	7	1	10	1	3	1	0	1	8	9	3	4	Baroda
1·5	...	2·7	0·23	...	0·13	28	2	...	4·8	...	1	1	4	4	1	5	8	5	1	0	3	0	1	0	23	2	0	1	Broach
																													Saurashtra and Kutch
2·1	—1·7	2·3	0·01	—1·81	0·01	18	0	—2·2	6·6	—1·0	1	0	0	0	0	7	14	5	3	2	2	0	0	0	11	13	0	2	Bhuj
2·7	—1·5	2·8	0·23	—1·24	0·21	19	1	—1·0	9·0	+0·5	6	0	0	0	0	5	17	2	0	1	0	0	0	0	4	18	7	0	Dwarka
2·1	—1·5	1·7	0·04	—2·19	0·04	2	0	—2·7	12·0	+3·0	0	0	1	0	0	20	4	4	1	1	0	0	0	0	0	21	8	0	Jamnagar
2·5	—1·8	4·3	0·28	—3·06	0·20	2	1	—3·9	9·4	+2·4	4	1	1	0	0	8	11	5	0	3	4	1	0	0	4	9	9	0	Rajkot
2·9	—1·6	2·7	0·59	—1·90	0·29	29	2	—1·9	8·8	...	5	0	0	0	0	1	8	7	9	0	0	0	0	0	2	19	8	1	Veraval
2·5	—1·9	4·1	0·19	—3·67	0·11	13	1	—4·7	5·7	—0·6	3	0	0	1	1	7	11	5	2	0	1	4	4	13	3	3	1	1	Bhavnagar
																													Konkan
4·5	...	4·2	1·14	...	0·30	3	4	...	7·6	...	1	2	8	7	0	0	6	1	5	2	0	1	0	0	1	20	6	0	Dahanu
5·1	—0·6	4·7	1·74	—8·65	0·73	12	5	—7·7	5·3	—1·7	5	4	6	4	0	2	4	4	1	1	0	0	0	0	0	10	19	0	Bombay
4·9	—0·9	...	2·87	—7·60	1·04	2	6	—8·5	4·1	—4·7	2	4	1	5	1	0	1	4	12	...	...	...	...	...	...	...	...	...	Alibag
4·5	...	5·2	4·85	...	2·21	12	5	...	7·6	...	2	3	4	4	1	2	3	8	3	0	1	0	0	0	2	12	15	0	Harnai
4·0	...	5·0	4·80	...	2·75	30	10	...	8·0	...	2	6	9	3	2	0	3	5	0	1	0	1	0	0	0	15	13	0	Devgad
4·6	...	5·4	8·34	...	4·59	30	9	...	...	...	0	1	0	0	0	0	0	0	29	2	0	0	0	0	0	11	4	13	Vengurla
4·5	—1·2	5·2	4·27	—3·39	2·16	30	7	—7·2	6·0	+0·6	2	5	10	2	3	0	4	4	0	0	0	1	0	0	3	16	10	0	Marmagao
5·6	...	6·1	8·06	—5·51	3·89	30	9	—7·6	2·3	...	0	2	13	4	0	0	1	1	9	1	0	0	1	0	3	12	10	3	Honavar
																													Deccan (Desh)
4·3	...	4·5	2·47	—3·54	1·81	5	3	—4·7	6·5	...	0	2	5	1	1	3	10	8	0	1	11	0	2	0	0	0	16	0	Jalgaon
4·2	—0·1	4·8	1·57	—4·22	1·30	22	3	—4·7	4·3	—1·6	0	0	0	0	0	2	4	13	11	0	7	1	0	0	1	2	16	3	Malegaon
4·5	+0·1	5·8	2·83	—3·71	0·66	20	8	—0·6	4·4	—1·8	2	3	0	1	1	3	6	8	6	3	11	0	2	0	2	0	12	0	Ahmednagar
4·0	—1·4	5·9	3·18	—2·11	2·88	22	2	—5·6	2·8	—3·9	0	0	0	0	0	2		2	17	0	0	5	1	0	1	15	5	3	Poona
4·7	...	6·2	2·26	...	0·59	17	7	...	7·2	...	3	3	3	1	0	0	10	9	1	3	6	6	0	1	0	7	7	0	Jeur
3·5	—1·5	5·3	3·87	—3·72	1·52	7	7	—2·1	5·7	—0·7	3	2	2	0	0	6	5	4	8	6	7	2	0	0	3	4	2	6	Sholapur

STATION	Height of bar, cistern above mean sea level in feet	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T	Departure from normal	Mean 1730 hrs. I.S.T	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Deccan (Desh)—contd.																						
Miraj	1,817	948·3	+0·5	944·7	90·1	+5·8	96	17	70·4	+2·5	68	9,16,20	75·6	84·3	70·9	72·2	23·9	+0·2	22·1	79	—4	5
Kolhapur	1,870	946·6	...	943·1	88·6	...	95	25	69·6	...	64	14	74·7	82·6	70·6	72·1	23·9	...	22·5	82	...	6
Bijapur	1,950	943·2	+0·1	940·4	89·7	+2·3	95	17	70·9	+1·1	68	13	75·8	85·3	72·1	76·6	25·6	+2·7	27·7	83	+5	6
Belgaum	2,562	923·7	+0·1	921·2	83·4	+4·0	90	17	66·8	+1·1	60	14	69·6	77·5	68·0	71·3	23·1	+0·7	23·2	92	+3	7
Gadag	2,131	937·8	+0·3	934·0	88·9	+3·6	100	20	69·8	+1·0	67	7,12,14	75·2	83·2	70·5	71·6	23·6	+1·1	21·8	79	—3	5
Hyderabad, North																						
Aurangabad	1,905	945·1	+0·8	941·3	91·1	+4·9	97	26,29	70·5	+1·3	64	11	75·8	87·7	70·3	72·2	23·0	0	20·6	77	—1	4
Parbhani	1,350	961·6	...	958·0	90·9	...	96	29	71·7	...	68	27	78·4	86·0	72·4	73·6	24·5	...	22·6	74	...	5
Ramagundam	527	990·1	...	986·2	91·3	...	96	25	75·2	...	71	7	82·5	87·7	75·3	76·8	26·7	...	26·5	71	...	6
Nizamabad	1,250	964·8	—0·1	961·1	89·9	+2·3	94	24,25	73·2	+0·3	69	7	79·4	85·9	74·5	76·0	27·0	+1·3	26·2	79	—1	6
Bidar	2,178	934·9	...	931·6	86·1	+2·0	91	21	70·7	+0·6	68	6,8	75·3	82·4	71·6	72·7	25·0	+1·6	23·5	83	0	6
Hyderabad, South																						
Gulbarga	1,503	957·7	+0·3	953·6	90·6	+2·0	95	5 days	72·5	+1·0	69	6	77·9	85·9	72·9	73·4	25·6	+1·9	23·0	77	—1	5
Raichur	1,311	964·6	+0·5	960·2	89·8	+0·5	95	17,24	74·2	+1·6	69	17	78·4	87·1	73·1	74·2	25·5	+1·2	23·0	77	+1	5
Hyderabad (Begumpet)	1,778	948·4	+0·8	944·9	88·2	+2·0	94	17,20,21	72·7	+1·3	70	7,8,23	77·9	82·7	73·2	74·0	26·1	+1·0	25·2	80	0	6
Hanamkonda	881	977·7	+0·4	974·1	90·6	+2·4	96	17	75·7	+1·2	72	1,7	80·3	85·6	75·5	76·7	28·0	+0·9	27·3	79	+2	6
Khammameth	367	995·3	...	991·5	91·9	...	97	15,21,22	76·5	...	72	29	81·9	87·6	77·2	77·6	29·8	...	27·8	81	...	6
Coastal Andhra-desa																						
Nellore	65	1006·1	+0·5	1002·2	94·1	—0·6	100	13	78·3	+0·1	75	1,27,28	84·4	88·6	77·3	78·6	28·8	+1·1	28·7	72	+2	6
Ongole	38	1006·7	...	1002·6	92·8	...	98	10	78·9	...	75	1,29	83·9	87·6	79·2	80·2	32·0	...	31·9	81	...	
Ganmavaram	88	1005·1	...	1001·4	90·6	...	94	13	77·8	...	76	5 days	83·1	85·4	78·3	78·5	30·9	...	30·2	80	...	
Masulipatam	10	1007·6	+0·6	1004·0	89·0	—1·5	92	3,12	79·0	+1·4	76	4 days	82·9	85·6	78·9	79·9	31·9	+1·0	32·3	84	+3	
Kakinada	26	1006·7	+0·8	1003·3	90·3	+0·5	95	21	78·7	+0·6	76	29,30	84·5	86·0	79·4	79·6	32·0	+1·2	31·6	79	—1	
Visakhapatnam	9	1006·8	+0·8	1003·6	91·0	+0·5	98	22	79·1	+1·1	76	11	84·4	84·6	80·2	80·9	33·3	—0·8	34·0	82	+1	
Calingapatam	19	1006·1	+0·7	1003·0	89·4	—0·4	94	22	79·2	+0·8	76	12,28,29	81·8	85·7	78·4	80·3	31·6	—0·3	32·9	85	+2	
Rentachintala	348	996·2	...	992·1	94·1	+0·4	100	23,24	77·1	—0·2	74	24,25	83·0	88·8	75·9	76·1	27·3	+0·1	25·0	72	+2	
Rayalaseema																						
Cuddapah	428	994·4	+0·2	989·5	94·4	+0·8	101	22	78·2	+1·7	74	5 days	84·4	91·1	74·4	80·1	24·5	—1·9	30·1	62	+9	
Bellary	1,473	958·9	—0·1	954·6	90·1	—0·4	95	17,25	74·1	+1·1	69	29	77·5	86·7	72·4	74·4	24·9	+2·5	23·5	77	+7	
Kurnool	923	977·4	+0·4	972·9	91·0	+1·0	97	21	74·7	+0·7	70	5	79·6	87·6	73·8	75·6	25·9	+1·1	24·8	75	0	
Anantapur	1,147	969·6	...	965·0	91·8	...	97	20,22,25	74·1	...	71	4,6,7	79·6	89·3	73·2	75·3	25·0	...	23·3	73	...	
Tamilnad																						
Palayamcottai	167	1003·6	...	1000·1	95·2	...	101	13	78·4	...	75	27,29	84·4	86·7	75·5	75·4	26·1	...	24·9	65	...	
Pamban	37	1008·0	—0·1	1004·5	88·7	—0·5	91	16	79·7	+1·0	76	17,26	83·7	84·0	79·0	79·9	31·8	+1·7	33·0	80	+3	
Mathurai	437	994·1	+0·4	990·1	95·0	+1·2	101	10	76·1	+0·2	71	24	83·4	89·0	74·9	76·6	25·7	+0·5	25·6	67	+1	
Nagapattinam	31	1008·1	0	1004·4	91·9	—0·8	98	6	79·5	+2·1	76	26	84·5	86·3	76·3	78·3	27·2	—0·6	29·4	67	—5	
Tiruchi	289	9989·1	—0·3	994·6	95·2	+1·1	99	9,10,12	78·0	+1·8	71	27	82·9	90·7	76·2	78·7	27·8	+1·3	28·1	73	+1	
Coimbatore	1,341	964·0	—0·2	960·4	89·2	+0·5	95	23	72·1	+1·2	70	4,14,17	76·9	83·9	72·5	73·3	25·2	0	23·2	80	—1	
Salem	913	978·1	—0·4	973·6	92·5	+0·7	96	9	75·0	+2·0	72	15,16	78·9	86·0	73·6	75·9	25·9	—0·1	26·0	77	—1	
Kallakurichi	416	994·2	...	989·8	94·3	...	98	9,10	77·0	...	73	12	81·2	90·4	75·0	76·1	26·8	...	24·3	74	...	
Cuddalore	39	1007·5	0	1003·5	92·1	—0·4	99	10	77·8	+1·0	72	1,27	85·6	86·9	77·5	78·8	29·4	+0·9	30·0	67	—8	
Vellore	708	984·9	+0·5	980·4	94·4	+2·2	98	9	77·0	+1·7	72	15	82·5	91·0	73·9	75·0	24·8	—1·1	22·4	65	—8	
Madras	51	1006·9	+0·4	1003·2	92·3	—1·6	97	12	78·1	+0·9	75	5	83·4	86·6	77·3	78·4	29·2	+1·5	29·5	75	+3	
Arogyavaram	2,299	932·0	...	928·1	87·9	...	92	17,22,23	71·2	...	68	26	76·5	84·7	69·3	70·2	21·6	...	19·3	69	...	

Cloud amount (Oktas).			Rainfall inches.				Number of rainy days, (0·1" or more).		Wind velocity, miles per hour.		Wind direction—Number winds from—																		STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													(Deccan Desh) contd.
4·9	−1·4	5·9	3·05	−0·83	1·00	6	5	−0·7	7·4	−0·1	2	2	2	1	0	1	12	7	3	2	2	3	1	1	3	11	6	1	Miraj
3·1	...	5·5	1·76	...	0·75	30	3	...	7·4	...	0	6	2	0	0	0	14	2	6	0	5	1	0	0	0	22	1	1	Kolhapur
5·2	+0·4	7·5	8·47	+2·93	2·63	5	8	0	4·9	−1·1	5	2	4	0	1	3	10	4	1	2	5	4	1	2	1	6	6	3	Bijapur
0·9	−5·0	2·4	4·12	−0·68	0·95	21	7	−2·1	4·1	+0·3	9	3	0	0	0	0	18	0	0	3	0	0	0	0	0	27	0	0	Belgaum
4·4	−1·0	5·9	7·29	+2·61	2·26	7	11	+4·6	6·1	−2·1	3	4	2	0	0	5	9	4	3	1	5	4	2	1	7	8	1	1	Gadag
																													Hyderabad, North
4·0	−1·3	5·2	1·30	−5·39	0·56	5	4	−5·0	6·4	−0·5	0	2	5	1	0	3	13	1	5	4	2	3	0	0	0	6	10	0	Aurangabad
3·5	...	5·5	1·93	−6·12	0·60	18	5	−4·6	...	...	1	0	2	0	0	1	20	0	6	0	0	1	0	0	0	26	2	1	Parbhani
3·9	...	(b) 5·3	6·57	...	1·46	6	7	...	3·0	...	7	2	1	0	6	2	0	4	8	4	9	1	2	2	2	0	2	7	Ramagundam
4·5	−0·1	4·4	5·65	−3·26	1·75	30	8	−2·0	3·1	0	0	0	0	1	0	2	1	2	24	0	2	0	0	0	0	0	2	6	Nizamabad
4·5	+0·3	5·2	3·97	−4·57	1·52	6	10	−1·0	7·2	−0·5	1	4	4	1	3	1	12	4	0	3	10	2	0	0	5	8	1	1	Bidar
																													Hyderabad, South
4·7	−0·2	5·9	6·86	−0·60	2·18	6	10	−0·1	7·9	+1·1	4	6	5	0	0	1	12	2	0	4	6	4	3	1	2	6	4	0	Gulbarga
4·7	+0·6	5·9	7·58	+1·35	2·18	5	7	−2·4	6·6	−0·8	1	4	3	5	0	6	7	3	1	1	7	4	3	0	4	5	6	0	Raichur
4·4	−0·9	5·4	3·36	−3·09	0·78	7	9	−0·5	6·0	−0·1	0	2	4	2	1	0	5	8	8	2	7	0	3	1	1	4	7	5	Hyderabad (Begumpet).
3·9	−1·1	4·7	4·85	−2·49	0·79	5	10	+0·9	4·7	+0·4	2	1	0	4	5	2	5	10	1	3	4	6	1	1	1	2	8	4	Hanamkonda
4·5	...	5·6	5·31	...	3·58	6	3	...	3·8	...	3	0	4	0	8	0	9	3	3	3	0	14	1	3	1	3	3	2	Khammameth
																													Coastal Andhradesa
4·5	−0·9	4·7	3·44	−1·02	1·40	27	8	+2·1	5·2	+0·9	1	0	2	2	6	1	6	6	6	3	0	9	5	1	0	7	4	1	Nellore
4·3	...	4·5	3·27	...	1·53	30	6	...	5·5	...	1	4	0	3	6	2	8	2	4	0	5	2	14	0	1	7	0	1	Ongole
4·8	...	5·1	3·38	...	0·85	18	7	...	6·8	...	0	4	2	2	2	5	10	2	3	1	1	6	8	2	0	7	4	1	Gannavaram
5·4	0	4·9	4·07	−2·30	1·12	28	7	−2·9	6·4	+1·9	1	5	1	0	4	6	9	3	1	0	1	5	5	8	1	4	6	0	Masulipatam
4·9	−0·5	4·9	8·02	+1·86	4·45	29	7	−1·8	6·8	+2·6	0	4	0	0	0	26	0	0	0	0	5	0	0	0	25	0	0	0	Kakinada
4·4	−1·4	5·6	7·08	+0·53	3·14	29	10	+0·9	5·3	−0·1	1	2	1	1	0	8	9	3	5	2	1	3	1	5	12	3	3	0	Visakhapatnam
6·0	+1·5	6·6	7·60	+0·67	1·90	30	5	−4·1	6·2	+1·7	3	2	2	0	0	0	10	13	0	0	3	7	4	8	8	0	0	0	Calingapatam
5·0	−0·8	6·3	1·66	−3·10	0·95	5	4	−3·8	4·9	−1·0	1	0	4	0	4	5	12	1	3	2	0	10	0	2	3	10	0	3	Rentachintala
																													Rayalaseema
4·2	−1·2	5·1	2·64	−3·39	0·55	4	7	−1·3	5·4	+0·5	0	0	3	0	0	0	10	0	17	0	0	6	0	0	0	13	0	11	Cuddapah
5·5	+0·5	6·1	8·09	+3·22	2·23	29	10	+2·9	4·8	−1·5	4	0	1	1	0	1	6	8	9	0	0	6	0	0	2	8	8	6	Bellary
4·3	−1·1	5·1	5·17	−0·79	1·76	4	6	−3·2	6·4	+0·3	0	0	4	3	2	0	11	3	7	0	1	4	4	1	2	8	5	5	Kurnool
4·8	...	5·5	3·87	−2·41	1·06	6	6	−0·9	7·1	...	1	3	1	0	0	0	10	5	10	3	13	1	0	0	0	3	9	1	Anantapur
																													Tamilnad
3·9	...	5·3	2·12	+0·89	0·46	16	7	+4·8	6·6	...	8	0	1	0	2	0	12	7	0	3	0	1	5	4	4	11	2	0	Palayamcottai
4·4	+1·5	5·7	2·12	+0·98	1·17	26	5	+3·1	8·6	+1·0	0	0	0	7	6	13	3	1	0	0	1	0	7	16	6	0	0	0	Pamban
4·6	−0·2	6·4	8·74	+4·04	1·31	13	10	+3·5	3·3	+0·1	2	0	0	1	0	0	6	14	7	0	2	1	5	2	6	4	2	8	Mathurai
4·5	+0·3	4·2	0·85	−2·45	0·73	26	2	−3·1	6·4	+1·6	0	0	0	6	2	9	7	3	3	0	0	11	10	3	6	0	0	0	Nagapattinam
5·0	+0·8	5·0	2·26	−2·46	0·93	14	4	−2·0	9·6	−1·0	0	1	0	2	0	2	8	12	5	2	6	5	1	4	2	4	5	1	Tiruchi
4·5	+0·6	5·1	3·65	+2·06	1·15	14	8	+4·7	7·1	+2·4	1	3	3	1	9	10	1	0	2	1	2	2	2	8	10	3	2	0	Coimbatore
4·7	0	6·0	6·66	+0·59	1·98	14	12	+3·5	4·0	+0·9	2	3	2	0	1	5	10	1	6	7	2	5	1	5	3	3	2	2	Salem
3·4	...	4·1	2·88	...	0·98	30	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kallakurichi
6·0	+1·4	3·0	1·17	−4·04	0·29	27	4	−2·2	6·5	+2·6	0	0	2	1	6	10	10	0	1	0	0	5	16	2	1	0	0	6	Cuddalore
4·0	0	5·1	0·36	−6·52	0·10	30	1	−7·1	4·1	+1·0	0	2	0	1	0	4	7	12	4	2	3	6	4	3	3	4	4	1	Vellore
4·9	−0·1	4·9	3·14	−1·54	0·87	3	7	0	7·5	−0·5	2	0	1	0	1	7	13	3	3	1	1	6	11	4	3	2	1	1	Madras
4·8	...	6·1	0·28	...	0·14	17	2	...	4·7	...	2	0	0	2	2	1	8	7	8	2	5	3	1	3	1	2	9	4	Arogyavaram

(b) Mean of 29 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION	Height of bar, cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature. °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars.			Relative humidity %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean from normal.	Mean 0830 hrs. I.S.T.	Departure 1730 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 ers. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Malabar & South Kanara																						
Mangalore	72	1007·5	—0·8	1004·6	84·9	+0·6	88	26	75·5	+1·2	73	13,28	79·1	82·1	76·2	77·3	29·5	+0·7	29·8	87	—1	80
Kozhikode	27	1009·2	—0·7	1006·1	87·4	+3·0	92	24,25	75·9	+1·3	73	6	80·1	83·4	76·5	78·3	29·5	+0·8	30·7	85	—3	79
Palghat	319	999·2	...	995·5	88·1	...	95	21	73·9	...	70	17	78·2	82·7	75·2	76·3	28·5	...	28·1	87	...	74
Mysore																						
Chitaldrug	2,405	928·3	—0·4	924·7	87·2	+2·9	92	15,17,24	69·6	+1·6	66	18	72·8	83·9	69·1	70·6	22·8	+0·9	20·1	83	+3	53
Shimoga	1,872	946·5	...	943·0	86·4	...	92	17,21	69·4	...	65	13	73·9	80·4	70·5	72·6	24·1	...	24·2	84	...	67
Hassan	3,149	905·3	...	902·2	82·8	+1·8	88	16,23	65·9	+1·1	61	2	70·6	77·0	67·1	69·1	21·3	+0·3	21·0	83	+1	68
Bangalore	3,021	909·2	0	905·4	84·6	+2·5	92	16	67·2	+1·9	64	15	71·1	80·3	67·8	68·8	21·9	+0·7	19·3	84	0	56
Mysore	2,518	925·4	—0·4	922·1	85·3	+1·1	90	14	66·5	—0·1	63	2,4	72·2	81·7	69·0	70·2	23·0	+1·3	20·8	85	+6	57
Travancore-Cochin																						
Fort Cochin	10	1010·2	—0·8	1007·2	84·0	+1·0	87	21,23,25	75·9	+0·5	73	10	80·4	81·7	76·4	77·5	29·2	+0·6	30·3	83	—1	82
Alleppey	12	1010·1	...	1007·1	86·6	...	90	22	75·3	...	73	8,26,27	81·2	82·3	77·9	78·1	31·1	...	30·9	86	...	82
Trivandrum	211	1003·2	—0·5	1000·3	87·5	+2·0	91	18	74·7	+0·7	73	7,28	79·3	81·9	75·3	75·9	28·1	+0·5	27·9	83	0	75
Nagercoil	195	1003·4	...	1000·3	90·3	...	95	5 days	76·1	...	72	25	81·5	82·6	75·3	75·6	27·1	...	27·1	74	...	73
Hill Stations excluding Kashmir																						
Aijal	3,599	889·2	...	886·1	...	...	...	...	67·4	...	62	22	71·8	72·7	69·4	70·6	23·4	...	24·8	89	...	90
Shillong	4,921	850·0	+1·1	847·2	74·8	+0·5	80	5	61·1	—0·5	55	22,26,27	70·4	68·7	64·6	65·6	18·2	—1·3	20·4	73	—6	84
Cherrapunji	4,309	869·5	+1·8	866·5	73·9	+0·6	82	5	63·8	—0·8	60	19,20,21	69·9	69·6	66·4	66·9	20·7	—0·4	21·7	83	—1	87
Darjiling	7,432	777·8	+1·3	775·3	67·0	+2·4	75	6	56·1	+0·1	52	26	61·1	61·3	59·1	59·6	16·4	—0·1	17·0	90	0	92
Kalimpong	3,965	878·6	+0·7	876·0	75·1	+0·4	83	6	...	...	...	..	69·0	71·2	66·8	68·5	21·8	—0·8	23·0	88	—1	84
Katmandu	4,388	866·9	...	863·9	83·7	+1·1	89	4,5,6	64·1	—1·6	56	25	71·7	74·5	67·8	69·3	21·6	+0·3	22·6	82	+3	76
Mukteswar (Kumaon).	7,592	772·6	—0·6	770·9	67·5	—0·2	74	30	55·5	+0·4	52	8	59·3	61·9	56·5	59·4	14·2	—0·2	16·5	84	+3	88
Mussooree	6,699	797·0	...	(b) 795·1	68·2	+0·7	73	13	58·3	+1·0	56	4 days	62·8	(b) 63·3	59·6	(b) 61·2	16·4	+0·2	(b) 17·6	84	—4	(b) 90
Simla	7,224	782·6	+1·5	781·0	68·4	0	75	6	56·8	+0·5	51	19	60·9	63·6	56·5	59·9	14·0	+0·6	16·7	79	+8	82
Dharamshala	3,974	883·1	...	880·5	79·3	...	35	7	69·4	...	63	19	73·0	77·2	63·5	70·0	16·2	...	22·2	73	...	72
Abu	3,945	879·9	+2·0	878·0	80·4	+5·2	91	30	66·6	+1·8	63	6 days	71·8	77·9	64·6	68·9	17·9	—0·8	20·4	68	—12	62
Pachmarhi	3,528	892·3	+1·2	889·6	80·4	+2·9	86	4 days	65·9	—0·2	61	22	72·5	76·8	67·8	69·7	21·3	—0·2	21·9	79	—4	72
Mahabaleshwar	4,534	862·2	+0·7	859·9	74·4	+6·6	82	24,26	61·6	+0·8	57	4	65·9	67·8	63·3	66·4	18·8	—0·4	21·6	87	—10	92
Mercara	3,781	884·4	—0·7	882·5	73·9	+2·1	81	22,23	63·0	+1·2	60	2	66·3	70·1	64·7	67·8	20·3	+0·8	22·4	92	0	89
Kodaikanal	7,688	771·1	+0·7	769·2	65·2	+2·5	69	9	53·0	+1·0	51	21,23	56·7	58·3	54·0	56·5	13·4	+0·8	15·0	85	+9	91
Ootacamund	7,364	779·5	+0·1	777·8	67·2	+2·6	73	19,23	49·9	—1·1	43	3	56·0	60·1	54·1	56·9	13·6	+0·4	14·7	87	+4	82
Cooneor	5,730	825·6	...	...	70·0	—1·1	73	7,11	56·6	+0·3	53	3,4	67·3	...	62·7	...	17·9	+3·5	...	79	+13	...
Tibet																						
Lhasa	12,090	658·9	...	...	70·3	...	79	1,11	43·8	...	33	28	52·7	...	47·9	...	9·8	...	...	71	...	..
Gyantse	13,110	628·9	...	...	68·7	+1·6	79	9	37·4	—2·4	23	28	54·1	...	44·8	...	7·0	—1·1	...	51	—7	..
Ceylon																						
Colombo	24	1010·0	—0·5	1007·3	86·7	+0·7	88	11 days	76·2	—0·4	72	15,16	80·9	81·9	76·6	76·4	29·3	+0·4	28·6	82	—1	7
Trincomalee	24	1008·6	+0·6	1005·6	91·2	—0·8	97	1,3,12	77·5	+0·8	73	13	82·0	85·8	75·7	76·8	27·5	+0·2	27·4	74	—4	6
Batticoloa	20	1009·1	...	1006·1	89·3	...	95	4,5,30	76·4	...	75	2,15,23	82·9	84·6	76·4	79·3	28·1	...	31·8	73	...	7
Hambantota	61	1007·9	—0·4	1005·4	85·7	—0·9	88	4,5,29	75·7	—0·3	74	5 days	80·5	80·6	76·5	76·3	29·3	+0·9	29·0	83	—2	8
Mannar	12	1009·2	...	1006·2	88·6	...	93	16	78·7	...	75	14	82·3	83·3	77·8	78·0	30·5	...	30·3	81	...	7

(b) Mean of 29 days.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more)		Wind velocity, miles per hour		Wind direction—Number of winds from:—																			STATION
											0830 hrs. I.S.T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal	Heaviest fall in 24 hours.	Date	Total in the month	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Malabar & South Kanara
4·9	−0·9	5·2	10·88	+0·40	4·29	30	10	−5·5	4·7	+0·8	2	3	8	2	0	0	2	1	12	1	0	0	0	0	7	10	10	2		Mangalore
5·6	+0·2	5·9	7·35	−0·59	3·06	30	10	−1·7	5·8	+1·4	7	4	5	4	2	1	2	5	0	2	1	1	0	0	4	12	10	0		Kozhikode
5·0	...	5·0	6·46	...	2·09	17	8	...	5·4	...	0	0	9	0	0	0	19	0	2	1	0	1	0	0	4	23	1	0		Palghat
																														Mysore
4·7	−1·5	5·6	5·75	+1·38	1·78	27	7	−0·1	5·5	−0·4	0	0	2	1	0	9	14	2	2	2	4	5	0	0	4	13	0	2		Chitaldrug
5·6	...	6·2	3·44	...	1·60	28	8	...	3·1	...	2	1	1	2	3	11	2	1	7	1	1	1	0	2	14	7	2	2		Shimoga
4·7	−1·1	5·6	9·39	+5·06	3·18	28	10	+1·9	5·9	+0·8	1	0	6	1	0	0	16	0	6	1	3	1	4	0	5	12	0	4		Hassan
5·0	−1·6	5·8	10·50	+3·84	2·91	29	9	+0·1	6·5	+0·7	0	1	0	3	4	4	12	4	2	1	6	3	3	0	3	6	5	3		Bangalore
5·0	−0·8	3·3	7·63	+2·68	1·38	15	10	+1·8	5·7	−0·3	1	0	2	0	3	5	9	0	10	2	4	6	0	0	0	17	1	0		Mysore
																														Travancore-Cochin
6·3	+1·2	7·0	14·01	+6·34	3·62	26	15	+1·3	5·7	+1·3	0	9	6	2	0	1	4	2	6	0	2	0	0	0	3	14	11	0		Fort Cochin
5·9	...	6·5	16·65	...	3·55	27	16	...	7·0	...	2	4	5	1	1	3	5	8	1	2	0	1	0	0	3	9	15	0		Alleppey
4·5	−0·9	5·9	9·31	+4·80	2·78	28	11	+2·9	6·0	+0·2	15	4	0	0	0	1	0	9	1	0	2	0	0	0	4	10	13	1		Trivandrum
4·6	...	6·0	6·63	...	1·57	28	9	...	8·4	...	0	1	1	1	1	0	13	5	8	0	0	0	0	0	1	28	1	0		Nagercoil
																														Hill stations excluding Kashmir
5·9	...	6·4	9·15	...	2·17	29	14	...	5·1	...	0	2	9	11	1	4	0	1	2	0	1	2	3	1	4	7	8	4		Aijal
5·1	−0·5	6·7	7·45	−4·34	1·22	14	17	−0·3	3·5	+2·0	0	1	3	5	3	7	1	0	10	1	1	1	4	1	6	0	0	16		Shillong
5·4	−0·7	5·5	57·00	+13·65	24·89	14	15	−4·2	6·6	+2·7	0	8	8	4	1	6	1	2	0	1	6	3	0	0	10	2	2	6		Cherrapunji
6·9	+0·5	6·7	14·16	−4·74	5·63	11	11	−6·0	5·6	+2·4	1	4	8	5	1	3	7	0	1	0	1	5	4	5	5	7	2	1		Darjiling
3·5	−2·2	3·9	11·76	+0·44	3·62	11	8	−4·7	6·2	+0·6	0	0	0	0	0	0	0	30	0	0	0	0	26	0	0	0	3	1		Kalimpong
5·7	−0·3	5·5	3·64	−3·52	0·90	4	7	−6·3	0·8	0	1	1	0	4	0	0	0	1	23	1	0	0	0	1	0	0	1	27		Katmandu
4·0	−0·3	5·1	9·24	+1·31	4·86	14	12	+1·9	8·7	+3·7	0	4	5	2	1	2	8	4	4	0	3	4	1	0	5	15	2	0		Mukteswar (Kumaon)
4·4	−0·4	5·4	5·69	−4·26	1·20	15	11	−1·8	3·1	−0·7	3	3	0	6	8	1	0	0	9	2	2	0	4	8	3	0	0	10		Mussooree
4·7	+1·1	5·3	8·59	+1·91	2·12	13	9	−0·3	1·5	−1·0	4	4	2	1	2	0	0	1	16	4	7	0	0	2	2	2	5	8		Simla
3·3	...	4·4	5·42	...	1·42	11	9	...	...	...	2	0	10	0	2	0	5	0	11	6	0	1	0	5	1	14	2	1		Dharamshala
2·5	−1·9	2·8	0·07	−9·30	0·03	19	0	−7·6	3·4	−2·0	2	1	0	1	1	3	5	0	17	2	2	0	0	4	3	4	0	15		Abu
4·1	−1·1	5·0	8·97	−5·22	2·78	9	10	−3·1	3·3	−1·1	4	0	4	1	0	0	7	9	5	3	4	3	0	0	0	8	7	5		Pachmarhi
5·1	−1·9	7·1	6·82	−21·92	1·45	11	13	−9·6	5·4	−2·4	1	9	4	0	0	3	3	8	2	0	0	1	0	1	6	5	15	2		Mahabaleshwar
4·6	−1·8	5·9	13·38	+2·30	3·76	30	16	−2·2	5·7	+0·5	0	3	4	2	0	0	8	8	5	0	0	0	1	0	0	14	13	2		Mercara
5·8	+1·3	7·4	10·17	+2·89	1·63	14	15	+3·1	6·7	−0·6	3	7	2	2	0	0	3	9	3	5	5	1	3	0	0	4	8	4		Kodaikanal
4·1	−1·6	5·4	8·11	+2·28	2·57	29	8	−4·0	2·9	−0·6	2	1	3	0	0	1	11	2	10	3	2	1	0	0	1	7	4	12		Ootacamund
4·9	−0·1	...	11·06	+7·50	2·80	26	12	+5·0	5·0	+1·5	2	3	0	5	2	9	1	8	0	...	...	...	...	...	...	...	...	...		Coonoor
																														Tibet
4·1	...	...	2·29	...	0·61	4	6	...	0	...	0		0	0	0	0	0	0	30	...	...	...	...	...	...	...	...	...		Lhasa
2·3	−1·8	...	0·71	−0·58	0·15	17	3	−1·5	1·7	−0·7	0	0	1	4	0	0	0	0	25	...	...	...	...	...	...	...	...	...		Gyantse
																														Ceylon
6·1	+0·3	7·0	12·84	+7·17	2·70	16	13	+4·2	...	...	1	0	3	9	1	10	6	0	0	1	0	0	0	3	20	5	1	0		Colombo
5·0	+1·4	6·6	2·44	−1·45	1·78	13	4	−1·4	...	...	0	0	0	0	1	22	0	0	7	1	4	3	2	0	17	0	1	2		Trincomalee
4·4	...	6·5	0·64	...	0·64	28	1	...	...	...	0	3	0	3	3	2	6	7	6	0	4	9	12	2	0	1	1	1		Batticoloa
5·6	+1·8	6·6	3·09	+0·43	1·92	24	6	+1·2	...	...	1	0	0	0	0	16	9	4	0	0	0	0	0	0	21	9	0	0		Hambantota
4·5	...	6·5	3·35	...	1·38	19	6	...	...	...	0	0	0	5	8	14	0	0	3	0	0	0	4	5	15	3	0	3		Mannar

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION	Hight of bar. cisterns above mean sea level in feet.	Pressure at station level in Millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, millibars.			Relative humidity %		
		Mean 0800 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Height.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
HYDROMETEOROLOGICAL OBSERVATORIES																						
Damodar Catchment																						
Bokaro	784	980·1	...	976·5	90·3	...	95	26	75·1	...	72	19,20	81·5	84·6	76·5	77·2	28·9	...	28·6	79	...	71
Mahanadi Catchment																						
Baramul	210	999·8	...	996·3	91·4	...	95	18	75·4	...	71	20	83·2	81·1	76·2	77·6	27·7	...	30·7	81	...	85
Hirakud	522	985·6	...	985·9	92·0	...	95	17	77·0	...	75	1	83·4	85·9	78·3	76·4	30·7	...	29·9	79	...	72
Barakachhar	1,136	...	...	...	87·8	...	93	24	74·5	...	70	11	79·9	83·3	75·8	76·7	28·6	...	28·4	82	...	74
Narbada Catchment																						
Punasa	877	...	...	...	93·0	...	99	25,28	71·7	...	68	17,18	80·1	87·9	74·2	75·9	26·2	...	25·1	75	...	57
Bagra Tawa	1.087	...	...	...	89·8	...	95	5 days	72·4	...	69	28,29	78·9	84·1	74·1	76·4	27·9	...	27·6	79	...	71
Sabarmati Catchment																						
Dharoi	...	...	...	...	97·6	...	108	29	75·9	...	70	21	79·8	97·6	72·9	75·9	24·5	...	20·7	71	...	34

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days. (0.10" or more).		Wind velocity miles per hour.		Wind direction—Number of winds from :—																		STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0833 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													HYDROMETEOROLOGICAL OBSERVATORIES
																													Damodar Catchment
4·7	...	5·6	12·15	...	3·03	11	11	...	3·6	...	0	0	1	7	2	3	4	3	10	1	1	2	12	1	2	3	3	5	Bokaro
																													Mahanadi Catchment
...	...	...	5·64	...	2·12	7	7	...	1·4	...	2	7	0	4	1	7	1	5	3	1	2	0	0	0	5	1	6	15	Baramul
...	...	...	6·44	...	1·69	9	11	...	2·4	...	0	2	0	8	0	10	0	7	3	0	2	1	0	1	3	0	5	18	Hirakud
...	...	...	5·65	...	2·28	9	6	...	2·8	...	1	4	1	1	3	16	2	1	1	1	4	3	0	0	9	3	3	7	Barakachhar
																													Narbada Catchment
...	...	...	2 36	...	1·49	8	4	...	4·7	...	0	2	4	0	2	10	8	1	3	2	4	2	0	1	7	9	1	4	Punasa
...	...	...	13·69	...	7·49	9	8	...	3·0	...	0	2	0	0	4	14	5	0	5	1	1	1	2	4	6	3	1	11	Bagra Tawa
																													Sabarmati Catchment
...	...	...	0	...	0	...	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Dharoi

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 4TH CLASS STATIONS—SEPTEMBER 1951.

STATION.	Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb °F.	Wet bulb °F.	Vapour pressure, millibars.		Relative humidity, %		Cloud amount	Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind	
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean Dry temperature, 0830 hrs. I. S. T.	Mean Wet temperature, 0830 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 0830 hrs. I. S. T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Resultant Direction 0830 hrs. I.S.T.	Velocity in
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Assam																							
Lumding	93·1	+4·5	99	10	75·4	+0·2	74	4,13,23	83·8	79·2	32·2	+1·6	80	—5	...	5·31	—2·07	2·15	17	6	—4·8	...	...
Uttar Pradesh, West																							
Lokpal	47·6	...	48	20days	34·7	...	28	29,30	...	...	...	...	...	...	...	13·95	...	2·18	14	22	...	...	...
Jammu and Kashmir																							
Jammu	95·7	+3·8	100	6,7	75·4	+0·3	69	24	82·1	72·8	23·9	+0·7	60	—8	2·1	0·52	—2.99	0·25	11	3	—1·1	N33E	...
Kargil (R)																							
Mysore																							
Balehonnur	79·4	+3·0	85	25	65·4	+0·9	61	13	69·2	67·9	22·8	+1·1	93	0	...	9·70	+2·02	2·37	18	16	0	...	...
Nandi Hills	76·0	...	79	4 days	61·7	...	59	4 days	67·3	63·7	18·9	...	83	...	6·3	5·83	...	2·16	17	8	...		...
Sikkim																							
Lachen	...	...	...	...	44·9	...	42	4,5,7	53·4	...	...	...	...	...	...	11·55	...	1·55	19	22	...	...	...
Tibet																							
Yatung (Chumbi)	64·9	+2·2	70	6	44·2	—2·9	36	26,27, 29	56·8	54·8	14·0	+1·5	89	+4	0·1	0·90	—3·45	0·30	26	6	—5·0	...	...
HYDROMETEOROLOGICAL OBSERVATORIES.																							
Mahanadi Catchment																							
Sonepur	90·0	...	95	18,29	77·2	...	72	9	82·5	78·0	30·7	...	...	...	...	2·71	...	0·44	7	7	...	3·1	...
Ginabahar	90·0	...	93	22	71·0	...	67	26	80·8	76·2	28·8	...	81	...	...	9·44	...	2·53	6	13	...	...	...
Ganga Catchment.																							
Tapoban	71·7	...	81	3	55·2	...	50	26	62·1	58·7	15·3	...	82	...	...	4·48	...	1·92	14	10	...	...	...
Badrinath	59·3	...	62	5 days	49·8	...	48	20,21	51·9	50·9	12·4	...	94	...	...	0·86	...	0·20	2,5	4	...	...	...
Narbada Catchment																							
Thikri	94·8	...	102	24,29	72·9	...	68	17	81·9	75·2	26·8	...	71	...	...	3·85	...	1·44	8	5	...	...	...
Sabarmati Catchment.																							
Jhadol	90·6	...	100	28	67·2	...	62	28	76·5	70·5	22·7	...	73	...	...	0·51	...	0·51	2	1	...	...	...

(R) Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 5TH CLASS STATIONS—SEPTEMBER 1951.

Division.	Station.	Rainfall, inches.				Number of rainy days (0·10" or more).	
		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.
1	2	3	4	5	6	7	8
Assam	Mawsynram	56·87	...	20·95	13	14	...
West Bengal	Bankura (R)						
Bihar	Muzaffarpur	2·22	—6·43	0·92	7	8	—1·5
	Chapra	4·84	—2·64	1·03	21	6	—2·7
	Arrah	3·95	—4·24	1·35	10,11	7	—2·5
Punjab (I)	Dalhousie	4·84	—2·01	2·18	12	4	—4·3
	Kyelang	2·12	+0·51	0·50	11	5	+2·4
	Gondla	3·31	...	0·79	11	6	...
	Koksar	6·76	...	1·90	12	5	...
	Kothi	9·40	...	2·40	10	9	...

Division.	Station.	Rainfall, inches.				Number of rainy days (0·10" or more).	
		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure
1	2	3	4	5	6	7	8
Punjab (I)—*contd.*	Dharampore	5·80	—1·31	1·40	10	10	+[illegible]
	Kharsali	7·59	...	1·33	12	14	...
	Rana	6·93	...	1·25	14	16	...
	Jamuna Chetty	11·29	...	1·72	20	19	...
Jammu & Kashmir	Sonamarg	1·33	—1·72	0·24	18,29	8	+[illegible]
	Gurez	0·08	—1·78	0·04	24	0	—[illegible]
Deccan (Desh)	Khandala	5·79	—21·56	1·52	12	9	—1[illegible]
Sikkim	Thangu	4·32	...	0·55	12	17	...
	Chungthang	13·60	...	2·25	19	16	...

(R) Register not received.

RADIOSONDE DATA

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

(From Ascents at 15 hrs. G. M. T.)

SEPTEMBER 1951

Standard Pressure Surface mbs.	ALLAHABAD (Sur. Pr. 993 mb.)						CALCUTTA (1005 mb.)						JODHPUR (980 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A			Dew Point	No. of obsns.	Height (gpm.)	Temperature °A			Dew Point	No. of obsns.	Height (gpm.)	Temperature °A			Dew Point
			Mean	Max.	Min.				Mean	Max.	Min.				Mean	Max.	Min.	
Surface	29	98	302·1	305	298	297·4	30	7	301·1	303	299	298·9	30	218	306·0	309	303	290·2
1000	29	37	...	...	...	...	29	50	...	...	...	...	30	41	...	...	...	...
900	29	973	297·2	303	293	292·1	28	981	296·4	299	293	292·4	30	986	300·7	305	297	287·2
850	29	1472	293·4	297	287	289·4	28	1477	293·5	296	291	289·6	30	1490	296·0	301	292	285·8
800	29	1994	289·5	294	281	286·1	28	2002	290·5	293	288	285·9	30	2014	290·9	294	287	283·5
700	28	3119	282·4	287	273	278·2	28	3132	284·1	288	281	278·1	30	3141	282·1	286	278	275·6
600	28	4382	275·1	281	267	268·9	28	4405	277·1	281	272	270·1	29	4400	273·4	279	263	263·8
500	27	5831	266·6	275	259	265·5	28	5852	269·2	273	265	262·5	30	5845	267·2	273	261	...
400	25	7542	256·3	264	245	...	25	7587	259·1	264	256	...	29	7559	256·8	265	250	...
300	24	9643	241·0	251	229	...	23	9700	243·8	250	232	...	28	9663	241·6	250	230	...
250	21	10918	231·8	241	226	...	19	10990	234·4	243	227	...	25	10944	232·4	241	226	...
200	19	12376	219·8	229	205	...	14	12502	223·0	231	217	...	24	12437	221·3	228	214	...
175	13	13231	213·0	224	205	...	8	13351	215·5	221	209	...	18	13319	214·9	222	205	...
150	8	14200	207·3	220	198	...	6	14309	207·0	211	199	...	9	14283	209·6	215	205	...
125	6	15332	202·3	215	189	...												
100	5	16596	198·2	211	187	...												
80																		

Standard Pressure Surface mbs.	MADRAS (1005 mb.)						NAGPUR (971 mb.)						NEW DELHI (980 mb.)					
Surface	30	15	301·7	303	300	297·2	30	307	300·1	302	297	295·2	30	217	301·9	305	296	295·1
1000	30	57	...	...	...	...	30	46	...	...	...	...	30	37	...	...	...	...
900	30	990	296·9	299	294	290·2	30	980	297·5	302	294	292·0	29	975	299·2	304	292	288·9
850	30	1482	294·2	297	291	288·0	30	1479	294·7	299	291	289·7	29	1476	295·6	300	291	286·1
800	30	2014	290·1	292	287	285·7	30	2006	291·3	294	288	287·0	28	2001	291·3	295	286	282·9
700	30	3141	284·2	287	281	277·9	30	3138	284·6	289	281	279·9	28	3128	283·2	287	279	274·3
600	30	4419	277·4	280	274	270·1	27	4415	277·2	281	275	271·6	28	4393	274·7	279	268	265·5
500	29	5882	269·5	273	266	...	27	5887	270·8	276	265	266·7	28	5839	265·2	272	256	...
400	27	7610	257·8	261	253	...	22	7625	261·1	268	255	...	28	7540	254·3	263	243	...
300	24	9734	244·1	248	240	...	15	9759	247·4	253	241	...	25	9624	239·1	246	224	...
250	18	11018	236·9	239	232	...	9	11053	239·1	245	233	...	20	10886	230·0	237	215	...
200	17	12528	225·0	230	219	...	8	12574	228·1	235	222	...	19	12345	218·9	227	203	...
175	9	13373	219·0	222	206	...	5	13476	223·2	228	219	...	11	13255	217·1	223	204	...
150							5	14488	215·8	221	211	...	8	14277	214·1	219	209	...
125													6	15417	210·6	217	203	...
100																		
80																		

RADIOSONDE DATA
MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
(From Ascents at 15 hrs. G. M. T.)
SEPTEMBER 1951.

Standard Pressure Surface mbs.	POONA (Sur. Pr. 946 mb.)						PORT BLAIR (1007 mb.)						TRIVANDRUM (1002 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Poir
Surface	30	557	298·4	302	294	292·9	29	21	299·2	301	298	298·0	30	64	299.3	301	297	296
1000	30	69	...	...	...	...	28	82	...	...	...	...	30	83	...	...	...	...
900	30	995	296·0	301	293	291·8	28	1006	294·4	296	291	292·3	30	1007	294·0	297	291	290
850	30	1491	293·4	298	290	288·7	28	1501	291·9	294	289	289·4	30	1500	291·7	295	289	288
800	30	2015	290·8	294	288	285·1	26	2022	289·2	292	286	285·7	30	2022	288·9	292	286	285
700	30	3145	283·6	286	279	279·6	24	3150	283·9	287	280	278·6	30	3148	283·6	286	281	278
600	30	4415	276·6	280	271	270·6	23	4417	277·2	281	274	273·1	30	4420	277·0	281	273	270
500	28	5881	270·0	273	264	261·4	21	5877	268·7	273	266	...	30	5882	269·2	273	267	...
400	27	7617	260·3	262	255	...	17	7599	258·6	263	256	...	29	7611	259·4	264	255	...
300	26	9753	246·9	250	241	...	16	9727	245·6	250	242	...	28	9741	244·9	251	241	...
250	25	11043	226·2	243	229	...	15	11014	235·5	242	233	...	27	11023	235·6	242	231	...
200	23	12555	226·2	237	214	...	11	12532	226·1	232	221	...	26	12531	224·7	234	216	...
175	23	13423	219·6	232	203	...	7	13380	217·9	223	214	...	17	13403	219·2	226	211	...
150	20	14389	210·8	217	191	...	6	14374	210·2	216	206	...	12	14390	213·6	220	206	...
125	9	15491	206·0	211	199	...							9	15572	207·2	213	201	...
100	5	16840	202·2	209	198	...												
80																		

Standard Pressure Surface mbs.	VERAVAL (1006 mb.)						VISAKHAPATNAM (1000 mb.)					
Surface	30	8	300·3	302	300	297·6	28	48	301·7	303	299	29
1000	28	67	...	...	...	...	28	47	...	...	...	
900	28	996	295·7	305	291	290·0	28	980	299·5	299	294	29
850	27	1492	292·9	301	289	286·1	28	1478	293·7	297	292	28
800	26	2017	290·4	296	287	282·1	28	2023	290·5	294	287	28
700	25	3146	284·3	286	282	274·3	28	3134	284·3	289	281	28
600	25	4420	277·9	281	275	263·8	28	4409	277·6	281	273	27
500	22	5888	270·1	275	268	...	28	5876	269·5	272	266	..
400	19	7631	261·0	268	257	...	28	7607	259·3	263	256	..
300	11	9752	245·7	249	243	...	23	5747	246·2	250	243	..
250	8	11047	236·6	239	233	...	16	11027	236·3	241	227	..
200	7	12573	224·8	228	223	...	10	12558	227·2	233	225	..
175	6	13150	...	...	...	...						
150	5	14362	...	...	...	...						
125												
100												
80												

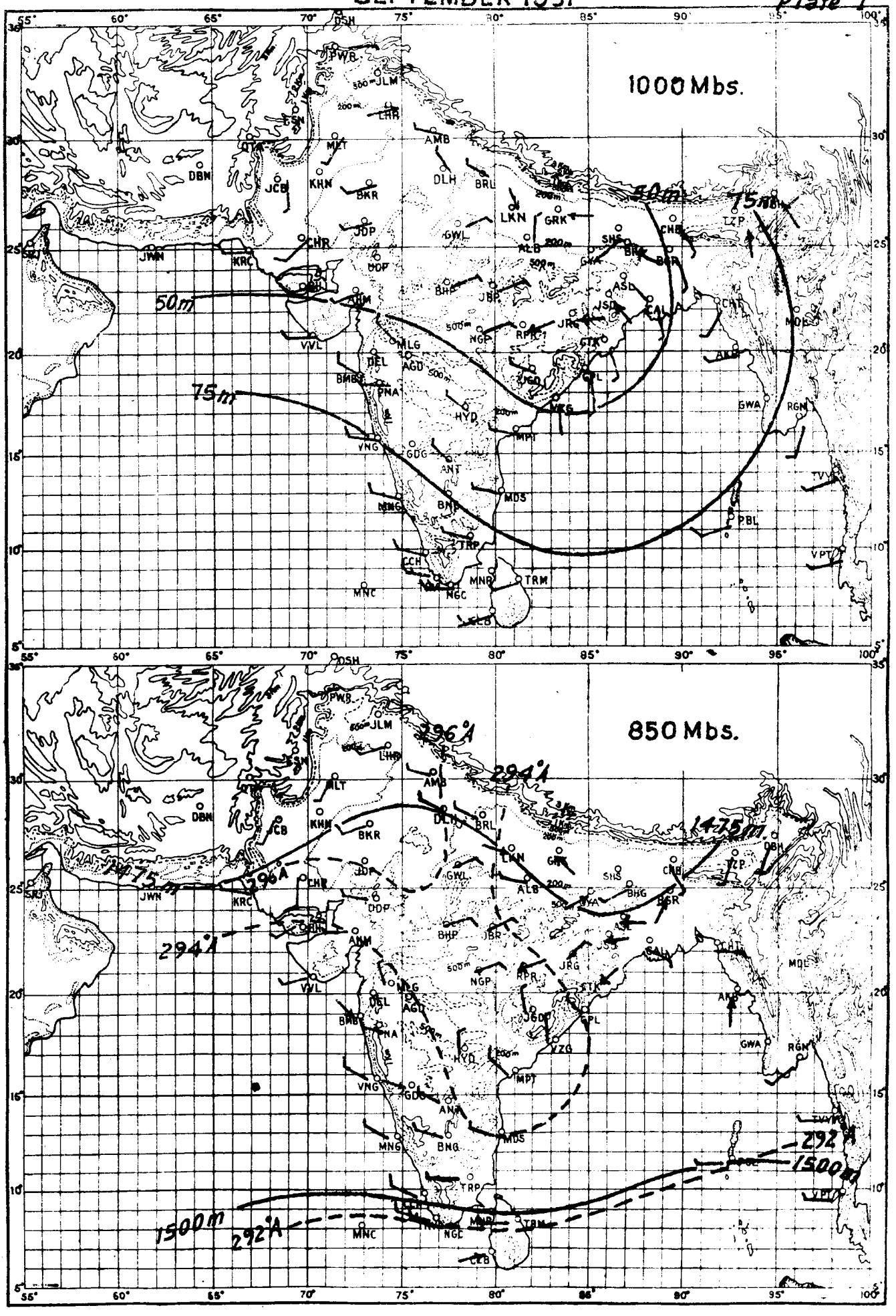
NOTE.—Number of observations refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature than 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S1—2 DDGOM Poona—30-9-53—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

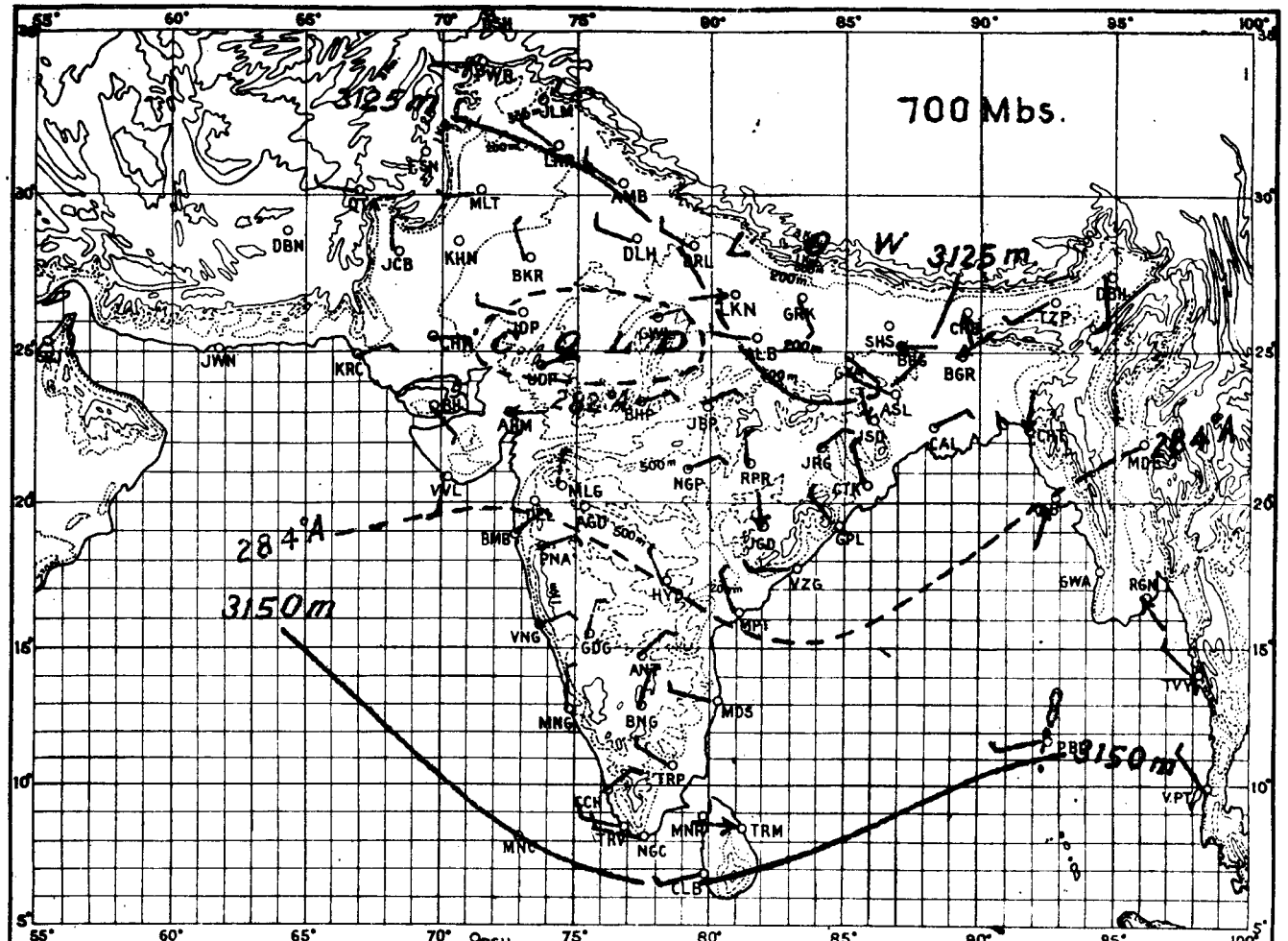
SEPTEMBER 1951

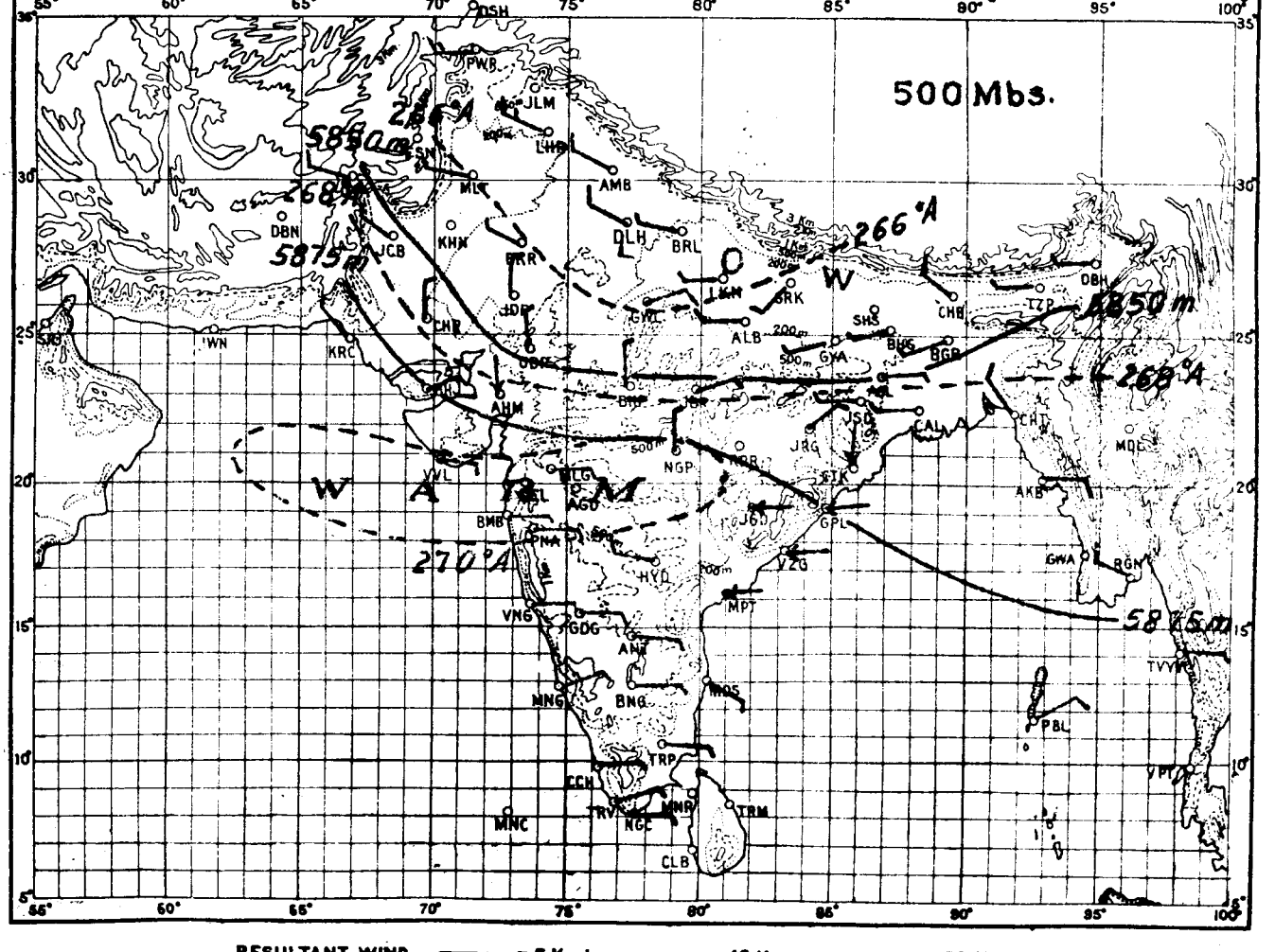
Plate I



MONTHLY MEAN CONSTANT PRESSURE CHARTS

SEPTEMBER 1951 *Plate II*





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

G.P.Z.P. POONA, 1951.

------ *Isotherms in degrees Absolute* ——— *Contours in geopotential Metres.*

Registered No. B-3097

INDIA WEATHER REVIEW, 1951

Monthly Weather Report

October

Published by authority of the Government of India

Chief features.—(1) Good rainfall during first half of the month in northeast India outside Bihar and Gangetic West Bengal, in Madhya Pradesh, Hyderabad and Deccan (Desh) and (2) delayed onset of the northeast monsoon and deficient rainfall in Tamilnad.

There was temporary revival of the southwest monsoon in the beginning of October in association with two troughs of low pressure—one in the Bay of Bengal and the other in east Arabian Sea. The first one appeared over southwest Bay of Bengal towards the end of September and passed inland across the Orissa coast on the 2nd. Thereafter, moving northnortheastwards, it lay over Eastern Pakistan and the adjoining parts of Assam where it became unimportant by the 4th. The second trough, which was well-marked, appeard off the Kanara-Konkan coast between the 30th September and 2nd October. Under the influence of these two pressure systems, widespread or local thundershowers occurred over the region extending from Assam and sub-Himalayan West Bengal to Hyderabad and coastal Andhradesa, in Deccan(Desh) and along the west coast between the 1st and the 4th. Widespread thundershowers continued in Assam for another two days. Locally heavy falls were also reported from south Deccan (Desh) and the south Konkan on the 1st and 2nd and from Assam on the 4th. As a result of heavy downpour in Assam for a number of days, the water level of Brahmaputra and her tributaries rose considerably and standing crops in Gauhati subdivision were badly damaged.

Conditions became markedly unsettled in the northwest Bay of Bengal by the 10th morning, and a shallow depression formed the same evening with centre about 180 miles eastsoutheast of Gopalpur. Moving in a northwesterly direction, the depression passed inland across the Orissa coast on the 12th morning and weakened into a trough of low pressure which moved westwards and finally merged on the 15th into another trough of low pressure in the east Arabian Sea off the Konkan-Kathiawar coast. In association with this, fairly widespread or local rain occurred in northeast India outside Bihar between the 11th and 13th, in Madhya Pradesh on the 13th and 14th and in north Deccan (Desh) and the north Konkan between the 15th and 17th. Locally heavy falls were reported successively from Orissa, west Madhya Pradesh, north Deccan(Desh) and the north Konkan between the 11th and the 17th. According to newspaper reports, the rainfall over north Deccan (Desh) and the north Konkan was exceptionally heavy at places, causing severe floods and loss of human lives, cattle and property in those areas. However, this rainfall alleviated to a large extent the scarcity of water in some districts of Bombay State.

Thunderstorm activity was mainly confined to the southern half of the Peninsula between the 17th and the 24th. Widespread thundershowers occurred in Mysore on the 20th and 21st and in Travancore-Cochin on the 20th, 22nd and 24th. Local or scattered thundershowers were reported from Deccan (Desh) on most of the days and from Tamilnad and Malabar and south Kanara on a number of days.

The seasonal trough of low pressure which appeared over the central Bay of Bengal on the 23rd, moved gradually westwards, and lay as a well-marked low pressure area in west central Bay off the Circars coast after the 26th. Under its influence, the northeast monsoon set in along the east coast to the north of Madras by the 27th, and extended along the Coromandel coast by the 29th. Fairly widespread or local thundershowers occurred in Orissa between the 27th and 31st with a few heavy falls on the last two days, and were also reported from Gangetic West Bengal and Assam on the 30th and 31st, Travancore-Cochin between 28th and 31st, Tamilnad, 29th and 31st, coastal Andhradesa and Mysore on the 27th and 28th.

Two western disturbances affected the country during the month. The first one moved eastwards across the hills of the Punjab (I) between the 9th and 10th and caused a few showers in the Simla—Kumaon hills. The second one—a secondary disturbance—appeared over west Rajasthan, Sind and the neighbouring areas on the 27th and moved away across the Punjab-Kumaon hills by the 29th morning. It did not, however, cause any precipitation.

JUN 15 1955

There was little or no rain in northwest India, Uttar Pradesh, Madhya Bharat, Gujarat and Saurashtra and Kutch during the month, and a large area of standing crops in these regions withered away, while the sowing of rabi crops could not also be undertaken. Due to acute scarcity of fodder and water in Rajasthan, a large exodus of cattle took place from the desert areas of Jodhpur.

A spell of abnormally warm weather prevailed over Saurashtra and Cutch, Gujarat and west Rajasthan during the first week when day temperatures were 8°-18°F above normal. The highest temperature of 108°F during the month (11°-12°F above normal) was recorded at Bhuj and Deesa on the 3rd and at Barmer and Bikaner on the 4th afternoon. During the latter half of the month unusually warm weather was also experienced over the region extending from the Punjab (I) and west Rajasthan to east Uttar Pradesh and north Deccan (Desh) when both day and night temperatures were generally 8°-12°F above normal.

Total rainfall for the month was in large excess in the Bay Islands, Assam, Orissa, Deccan (Desh) and north Hyderabad, in slight to moderate excess in West Bengal, Chota Nagpur, Madhya Pradesh and south Hyderabad and normal in the Konkan and Mysore. It was in slight to moderate defect in Bihar, Rayalaseema, Malabar and south Kanara, and Travancore-Cochin and in large defect elsewhere except in west Rajasthan and Saurashtra and Kutch where no rain fell. Averaged over the plains of India, the rainfall was 7% in defect.

The mean maximum temperature was above normal in Chota Nagpur, Bihar, northwest India, Uttar Pradesh, the central parts of the country, outside east Madhya Pradesh, in Gujarat, Saurashtra and Kutch, coastal Andhradesa, Tamilnad, Malabar and south Kanara and normal elsewhere. The mean minimum temperature was above normal throughout the country except in the Bay Islands, Assam, Malabar and south Kanara, Mysore and Travancore-Cochin where it was normal.

The mean relative humidity was above normal in west Madhya Pradesh and north Hyderabad below normal in east Rajasthan and normal elsewhere.

The mean cloud amount was above normal in the Bay Islands, West Bengal, Orissa, Bihar, Madhya Bharat, west Madhya Pradesh and north Hyderabad. It was below normal in the Punjab (I), east Rajasthan and Vindhya Pradesh and normal elsewhere.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amounts for the 13 chief political divisions and the 27 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 :
Dated the 21st February, 1952.

S. BASU,
for *Director General of Observatories.*

—	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—									
1. Assam (including Manipur and Tripura).	8·78	4·82	+3·96	+82	+0·3	+1·1	+1·1	+4	+0·7
2. West Bengal	5·27	4·62	+0·65	+14	+1·8	+3·1	+3·0	+4	+0·8
3. Orissa	9·20	5·90	+3·30	+56	+0·7	+2·6	+3·0	+5	+0·8
4. Bihar	2·27	2·64	−0·37	−14	+2·6	+3·7	+3·8	+4	+0·4
5. Uttar Pradesh	0·20	1·34	−1·14	−85	+4·3	+6·1	+3·7	+1	0
6. Punjab (I) (including PEPSU and Delhi).	0·08	0·58	−0·50	−86	+6·0	+7·3	+3·3	−1	−0·5
7. Rajasthan	0·06	0·34	−0·28	−82	+4·8	+7·0	+1·4	−5	−0·3
Sub-Division—									
1. Bay Island	19·25	12·51	+6·74	+54	+1·0	+1·1	+0·1	+1	+1·1
2. Assam (including Manipur & Tripura).	8·78	4·82	+3·96	+82	+0·3	+1·1	+1·1	+4	+0·7
3. West Bengal	5·27	4·62	+0·65	+14	+1·8	+3·1	+3·0	+4	+0·8
4. Orissa	9·20	5·90	+3·30	+56	+0·7	+2·6	+3·0	+5	+0·8
5. Chota Nagpur	3·14	2·75	+0·39	+14	+2·3	+3·8	+4·0	+3	+0·2
6. Bihar	1·78	2·57	−0·79	−31	+2·9	+3·6	+3·7	+5	+0·5
7. Uttar Pradesh, East.	0·16	1·79	−1·63	−91	+4·2	6·2	+3·0	−1	+0·1
8. Uttar Pradesh, West.	0·25	0·89	−0·64	−72	+4·5	+6·1	+4·4	+3	−0·1
9. Punjab (I) (including PEPSU & Delhi).	0·08	0·58	−0·50	−86	+6·0	+7·3	+3·3	−1	−0·5
10. Jammu & Kashmir.	Data incomplete								
11. Rajasthan, West	0	0·16	−0·16	−100	+4·8	+7·1	+2·3	−4	−0·1
12. Rajasthan, East (including Ajmer).	0·11	0·53	−0·42	−79	+4·9	+7·0	+0·7	−6	−0·4
13. Madhya Bharat	0·21	1·13	−0·92	−81	+6·1	+6·0	+2·1	0	+0·5
14. Vindhya Pradesh	0·71	1·84	−1·13	−61	+3·5	+5·4	+4·2	+2	−0·5

—	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—contd.									
8. Madhya Bharat & Vindhya Pradesh.	0·42	1·44	−1·02	−71	+5·0	+5·8	−3·0	+1	+0·1
9. Madhya Pradesh	2·80	2·29	+0·51	+22	+2·5	+4·6	+3·6	+5	+0·6
10. Bombay (including Saurashtra and Kutch).	3·15	2·61	+0·54	+21	+2·4	+3·3	+2·4	+3	+0·2
11. Hyderabad	3·65	2·36	+1·29	+55	+1·3	+2·2	+2·3	+5	+0·5
12. Madras (including Travancore-Cochin).	3·54	7·92	−4·38	−55	+2·2	+2·1	+0·7	−3	+0·3
13. Mysore	5·70	6·08	−0·38	−6	+0·2	+1·2	+0·7	+5	−0·1
Mean of India	2·86	3·07	−0·21	−7	+2·9	+4·1	+2·4	+1	+0·2
Sub-Division—contd.									
15. Madhya Pradesh, East.	3·92	3·20	+0·72	+23	+1·8	+4·1	+2·7	+4	+0·2
16. Madhya Pradesh, West.	2·09	1·73	+0·36	+21	+2·9	+4·9	+4·2	+6	+0·8
17. Gujarat	0·20	1·25	−1·05	−84	+4·6	+5·4	+2·3	−2	+0·2
18. Saurashtra and Kutch.	0	0·50	−0·50	−100	+2·9	+3·4	+2·3	+5	+0·3
19. Konkan	5·14	5·32	−0·18	−3	+0·6	+2·1	+3·0	+3	+0·2
20. Deccan (Desh)	5·67	3·42	+2·25	+66	+1·7	+2·5	+2·3	+5	+0·1
21. Hyderabad, North.	3·56	2·02	+1·54	+76	+1·5	+2·4	+2·5	+7	+0·8
22. Hyderabad, South.	3·74	2·70	+1·04	+39	+1·1	+2·1	+2·1	+3	+0·2
23. Coastal Andhradesa.	2·60	7·91	−5·31	−67	+2·9	+2·1	+1·5	−1	+0·2
24. Rayalaseema	2·39	4·04	−1·65	−41	+1·4	+2·5	+0·7	−4	+0·4
25. Tamilnad	2·96	8·39	−5·43	−65	+2·4	+2·2	0	−5	+0·2
26. Malabar & South Kanara.	5·52	9·21	−3·69	−40	+2·1	+1·5	+1·2	−1	+0·3
27. Mysore	5·70	6·08	−0·38	−6	+0·2	+1·2	+0·7	+5	−0·1
28. Travancore-Cochin.	9·09	12·05	−2·96	−25	+1·2	+1·3	+1·7	+1	+0·5

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M.T.

STATION.	Height of bar. above mean sea level in feet.	Pressure at station level in millibars. Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Maximum temperature, °F. Mean.	Departure from normal.	Highest.	Date.	Minimum temperature, °F. Mean.	Departure from normal.	Lowest.	Date.	Dry bulb temperature, °F. Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Wet bulb temperature, °F. Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Vapour pressure, millibars. Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Relative humidity, % Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bay Islands																						
Port Blair	259	1002·5	+0·3	1000·0	84·9	+1·0	87	21	74·9	+1·1	72	8	82·0	78·0	77·6	75·8	30·2	+0·1	29·7	82	+1	90
Assam																						
Dibrugarh	348	999·2	−2·0	995·5	85·4	+1·1	94	1	71·0	+1·5	65	30,31	76·9	78·2	73·5	74·8	26·5	+0·7	27·8	84	+2	84
Mohanbari (R)	[illegible]																					
Sibsagar	317	1000·6	−1·4	996·9	84·9	+0·6	90	4 days	71·7	+1·1	64	31	78·1	78·6	75·0	75·8	28·4	+0·9	28·9	86	−2	8
Tezpur	258	1002·7	−1·6	998·5	86·5	+0·2	93	1,11	71·9	+0·7	69	7 days	76·7	81·5	74·2	76·9	27·7	+1·3	29·6	89	+7	8
Gauhati D. Tyre	162	1005·0	...	1001·1	86·0	...	93	1	72·7	...	66	25	79·3	79·2	75·9	76·7	28·9	...	30·2	85	...	8
Gauhati	182	1004·7	−1·5	1000·1	85·7	−1·3	92	1	72·5	+1·5	66	25	78·2	80·5	75·4	76·2	28·5	+1·5	28·6	88	+5	8
Dhubri	115	1006·7	−1·7	1003·1	84·3	0	90	1	74·9	+2·1	70	30	78·6	80·5	76·1	76·9	29·6	+2·3	30·1	89	+7	8
Silchar	96	1007·9	−1·3	1003·8	86·1	−2·2	92	10	72·4	+0·2	68	25,31	78·2	81·3	75·7	77·5	29·3	+0·9	30·2	89	+7	8
Tura	1,215	969·4	...	966·2	84·2	...	89	1	70·3	...	66	31	75·9	77·5	73·2	75·1	27·0	...	28·5	87	...	8
West Bengal																						
Dum Dum	33	1008·2	...	1005·0	90·4	...	95	4 days	77·7	...	73	31	84·4	84·3	78·0	77·8	29·7	...	29·6	74	...	7
Calcutta	21	1008·7	−2·1	1005·5	90·4	+1·2	96	7,21	78·1	+4·3	74	28,31	83·7	83·7	79·2	78·8	32·0	+3·4	31·2	81	−1	8
Saugor Island	10	1008·3	−2·6	1005·6	87·5	+0·7	91	21,22,23	79·8	+3·5	75	27,28	84·0	83·1	79·4	78·8	32·4	+2·7	31·4	81	+3	8
Sandheads	32	1007·5	−3·1	1005·1	...	...	...	...	...	...	...	...	85·2	84·2	79·9	79·0	32·1	+2·2	31·8	79	+7	7
Midnapore	149	1004·1	−2·2	1000·9	90·1	+1·0	96	7	75·7	+2·3	71	23	82·4	84·0	78·2	78·5	31·3	+4·5	30·8	82	+7	7
Contai	35	1007·4	...	1004·4	89·1	...	93	24	76·7	...	71	18	81·6	82·0	77·8	78·6	30·5	...	31·7	84	...	8
Burdwan	106	1005·1	−2·9	1002·0	92·3	+3·2	98	7,21	76·3	+2·1	72	12	82·8	85·5	78·1	78·8	31·1	+3·7	30·9	80	+3	7
Krishnagar	48	1007·8	−2·2	1004·6	92·5	+3·0	98	7	75·8	+2·8	72	16,31	82·8	83·9	79·1	79·1	32·6	+4·5	31·5	85	+12	8
Asansol	414	995·0	−2·4	991·7	90·8	+1·8	96	4 days	74·7	+3·9	70	22,23	81·7	83·1	76·9	76·7	29·1	+3·3	28·3	80	+4	7
Berhampore	62	1007·4	−2·0	1003·9	93·6	+5·2	100	16	75·7	+1·8	72	31	82·7	83·6	78·1	77·9	31·0	+2·9	30·4	80	+2	7
Malda	103	1006·2	−2·9	1002·7	89·0	+0·9	93	16,19,20	75·8	+3·5	72	31	82·6	83·6	77·7	78·2	30·1	+2·3	30·4	80	+5	7
Cooch Behar	145	1006·3	...	1002·7	88·0	...	94	12	72·6	...	67	30	79·5	81·8	75·1	77·5	27·6	...	30·0	80	...	8
Jalpaiguri	271	1001·3	−1·5	997·3	87·3	+0·6	92	1,10	73·1	+2·8	69	30,31	77·2	83·7	73·9	77·1	26·8	+0·6	29·0	85	+2	7
Bagdogra	418	996·8	...	992·1	88·4	...	93	10	71·6	...	67	26,28,30	80·1	80·9	74·9	77·0	27·5	...	29·8	78	...	8
Orissa																						
Balasore	65	1006·7	−2·4	1003·7	88·8	+0·4	95	21,22	76·4	+3·1	71	23	82·5	83·7	78·3	79·7	31·4	+3·8	32·8	83	+5	
Chandbali	20	1008·9	−1·7	1005·8	89·3	+1·4	96	21	77·2	+2·6	73	16,23,29	83·0	83·7	79·1	79·5	32·0	+3·0	32·8	84	+3	
Puri	20	1008·6	−1·8	1005·7	89·3	+0·7	96	7	78·7	+1·7	74	31	83·6	84·2	78·7	78·9	31·2	+2·1	31·0	80	+3	
Cuttack	87	1006·1	−2·4	1003·0	89·9	+0·2	96	22	76·9	+2·5	72	24	81·4	84·8	77·1	78·0	29·5	+2·0	29·4	82	+4	
Gopalpur	56	1007·4	−1·8	1004·5	88·7	+0·5	95	23	76·6	+2·0	72	24,25	82·1	84·1	78·5	79·4	31·8	+3·8	32·5	85	+7	
Koraput	2,996	910·5	...	907·5	81·8	...	85	14	65·3	...	57	25	72·9	74·9	69·5	69·9	23·1	...	22·9	84	...	
Angul	455	994·1	−1·5	990·9	89·0	+0·5	94	20,22	73·0	+3·4	68	25	79·8	84·3	75·6	76·7	28·6	+2·7	28·1	82	+5	
Sambalpur	486	992·7	−2·3	989·3	89·9	+1·1	95	22	74·2	+2·7	68	24,25	80·5	84·7	76·3	77·7	29·3	+3·8	29·3	82	+6	
Jharsuguda	736	984·6	...	981·7	...	...	...	...	...	...	...	...	80·7	82·1	75·8	76·4	28·1	...	28·8	79	...	
Titlagarh	691	985·9	...	982·4	90·7	...	97	7	73·5	...	68	24,25	79·7	85·3	74·5	76·9	27·1	...	27·6	78	...	
Chota Nagpur																						
Purulia	835	981·4	...	978·0	90·1	...	96	18	74·0	...	70	23,25,31	80·2	82·7	75·5	74·7	28·3	...	25·7	80	...	
Jamshedpur	423	994·9	−2·2	991·4	90·6	+0·9	96	20	74·8	+3·7	68	23,24	80·8	85·3	75·7	76·7	28·2	+3·6	27·6	79	+4	
Chaibasa	742	984·0	−1·9	980·7	89·8	+1·6	95	5 days	73·6	+3·5	67	25	80·2	84·0	74·7	76·2	27·3	+2·8	27·0	80	+4	
Ranchi	2,150	937·1	−1·7	934·1	86·1	+3·0	91	4 days	69·8	+3·6	63	25,26	78·2	80·3	72·4	71·1	24·6	+4·6	23·4	76	+10	
Hazaribagh	2,006	942·1	−2·0	939·2	86·4	+2·8	91	7	69·0	+2·5	62	24	79·8	79·7	71·7	71·6	24·1	+4·6	23·7	72	+7	
Daltonganj	725	984·8	−2·1	981·1	92·2	+3·1	97	18	72·0	+5·5	64	24,25	82·5	85·4	74·8	74·8	26·3	+4·3	24·8	67	−9	
Dhanbad	839	980·5	...	977·2	90·8	...	96	19	72·7	...	67	24	81·2	82·7	75·2	74·9	27·1	...	25·7	75	...	

(R) Register not received.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	
																														Bay Islands
6·3	+1·1	6·7	19·25	+6·74	4·15	4	26	+9·3	7·2	—0·4	0	2	3	1	2	10	11	1	1	0	1	3	1	0	10	14	1	1		Port Blair
																														Assam
4·7	+0·5	3·7	5·35	—0·64	2·24	5	8	—0·6	1·0	+0·3	7	12	6	1	0	0	0	3	2	3	3	1	0	1	1	0	0	22		Dibrugarh
																														Mohanbari (R)
5·7	—0·2	4·1	5·74	+0·57	1·60	4	11	+3·1	2·3	+0·9	4	8	3	0	6	3	2	2	3	8	5	1	0	0	1	0	6	10		Sibsagar
4·2	+0·5	3·4	10·56	+6·46	1·96	11	9	+2·7	1·3	—0·2	0	3	21	0	0	1	1	0	5	0	4	10	0	0	1	1	0	15		Tezpur
4·3	...	3·4	10·29	...	2·37	3	11	...	2·1	...	2	17	3	0	1	0	0	2	6	1	9	0	0	1	0	0	0	20		Gauhati D. Type
4·9	+0·7	3·8	7·69	+4·91	3·67	3	8	+3·8	2·0	+0·8	6	7	8	4	0	0	0	2	4	1	3	5	2	0	0	1	0	19		Gauhati
4·5	+1·5	4·2	9·86	+4·96	5·47	17	12	+7·0	3·1	—0·1	0	17	9	3	0	0	0	0	2	5	8	3	2	2	3	0	0	8		Dhubri
4·9	+0·9	3·7	18·04	+10·79	4·89	4	13	+5·1	0·6	—0·4	1	3	5	1	1	0	1	1	18	0	1	2	0	0	0	1	0	27		Silchar
4·5	...	5·7	11·64	...	1·97	5	14	...	2·7	...	0	2	4	1	4	5	0	0	15	0	4	4	0	1	5	0	0	17		Tura
																														West Bengal
3·5	...	4·3	3·81	...	1·38	30	8	...	3·9	...	2	1	7	3	7	3	5	2	1	1	4	2	4	10	5	2	2	1		Dum Dum
3·2	+0·2	4·5	3·48	—1·00	0·73	2	8	+1·8	2·7	+0·6	0	3	4	0	2	6	1	1	14	0	0	2	3	2	4	0	1	19		Calcutta
4·3	+0·2	4·5	8·80	+0·73	2·23	11	11	+3·5	8·3	+2·5	3	5	3	3	2	7	4	3	1	1	2	2	3	6	12	3	2	0		Saugor Island
4·8	+1·3	5·0	9·45	+4·82	2·51	27	9	+3·3	...	...	0	3	2	5	2	7	6	0	6	1	2	2	5	5	6	3	2	5		Sandheads
3·2	+0·6	3·5	3·79	—0·01	1·21	4	6	+0·4	2·2	+0·8	5	1	6	2	7	2	1	1	6	0	1	2	0	5	3	0	0	20		Midnapore
2·8	...	2·8	12·59	...	2·97	1	12	...	3·9	...	13	4	0	3	1	3	0	0	7	2	3	0	6	8	5	0	1	5		Contai
1·0	—2·0	1·2	6·68	+3·38	4·63	4	8	+3·6	3·3	+2·0	3	5	5	3	2	8	2	1	2	2	5	4	1	3	7	0	1	8		Burdwan
3·7	+0·8	4·6	9·07	+4·83	4·12	4	9	+4·0	2·5	+0·7	0	5	5	1	13	1	2	1	3	0	3	6	0	6	1	1	2	12		Krishnagar
2·9	0	4·0	3·87	—0·47	0·89	4	9	+3·5	1·5	—1·5	1	3	5	0	0	0	3	5	14	1	5	0	3	1	0	0	2	19		Asansol
3·5	+8·6	5·3	8·07	+4·43	1·38	5	11	+6·5	1·7	+0·3	1	2	6	4	4	2	1	0	11	0	0	11	1	1	0	0	0	18		Berhampore
3·6	+1·8	3·2	1·96	—2·39	0·50	2	6	+1·7	3·1	+0·3	1	6	10	4	2	2	1	1	4	3	7	5	4	3	1	1	0	7		Malda
4·2	...	3·5	6·65	—0·66	2·41	17	7	+0·8	3·0	...	0	1	25	3	1	0	0	0	1	0	0	5	3	5	0	1	0	17		Cooch Behar
4·4	+2·1	3·3	5·20	—0·36	1·15	19	10	+4·5	3·8	+2·6	9	7	10	0	0	0	0	0	5	0	6	10	1	3	1	0	0	10		Jalpaiguri
4·5	...	3·2	6·69	...	1·40	7	10	...	1·4	...	1	10	3	5	0	0	0	0	12	1	2	1	2	0	0	0	0	25		Bagdogra
																														Orissa
4·5	+1·4	4·7	17·05	+10·62	3·12	1	11	+4·6	3·0	+1·2	5	5	2	0	3	4	1	5	6	0	2	0	4	4	2	0	0	19		Balasore
4·7	+1·3	3·7	11·47	+3·84	4·80	11	13	+4·7	4·3	+0·6	6	2	0	5	1	5	4	8	0	2	4	2	6	6	2	2	2	4		Chandbali
4·0	+1·0	4·7	9·32	+2·11	2·01	11	10	+2·7	7·7	+1·3	7	7	0	2	3	5	1	1	5	2	3	0	7	5	9	1	1	3		Puri
3·1	—0·1	4·0	4·36	—0·98	1·47	11	9	+2·7	3·0	+1·7	0	6	0	0	0	1	3	1	20	0	2	0	1	0	2	0	0	26		Cuttack
3·7	+0·9	4·3	12·27	+3·67	3·02	30	12	+5·1	6·1	+0·4	11	0	1	0	1	2	1	6	9	4	1	4	5	9	3	0	1	4		Gopalpur
4·0	...	5·1	2·97	...	0·84	1	8	...	...	...	1	4	5	0	10	8	1	2	0	10	6	2	0	1	2	2	8	0		Koraput
4·3	+0·8	5·0	5·28	+1·34	0·99	29	9	+3·3	2·9	—0·2	2	0	2	3	0	3	13	4	4	3	0	2	4	4	3	4	4	7		Angul
3·2	+0·5	3·7	4·62	+2·48	1·28	4	7	+3·5	2·5	+0·2	2	11	7	0	1	6	2	0	2	0	4	1	4	1	2	3	1	15		Sambalpur
3·8	...	3·8	2·88	...	1·19	4	5	...	...	...	5	6	3	0	1	2	1	0	13	1	3	0	0	1	0	0	0	26		Jharsuguda
3·1	...	4·3	4·11	...	2·35	12	2	...	1·5	...	2	2	0	5	8	5	0	1	8	1	2	1	0	0	1	1	3	22		Titilagarh
																														Chota Nagpur
2·9	...	4·1	2·23	...	0·74	11	6	...	2·3	...	0	2	3	3	0	0	13	9	1	0	3	4	1	0	0	4	5	14		Purulia
3·1	0	4·1	2·42	—0·24	1·01	11	6	+1·8	3·5	+1·4	0	1	3	1	0	3	11	4	8	0	2	8	4	1	2	3	2	9		Jamshedpur
3·8	+1·0	5·0	2·27	—0·66	0·79	11	5	+0·6	1·3	+0·1	1	7	0	0	0	9	1	1	12	0	3	0	2	2	2	0	2	20		Chaibasa
2·7	—0·1	3·2	4·49	+1·36	1·30	4	9	+4·2	1·8	—1·1	1	0	2	0	0	1	0		27	0	0	3	0	1	0	0	0	27		Ranchi
2·5	0	3·5	4·36	+1·26	3·11	16	7	+2·4	3·0	—0·5	0	3	2	3	4	2	6	3	8	2	2	1	3	0	1	2	11	9		Hazaribagh
1·7	—0·1	2·6	2·16	+0·23	1·12	16	3	—0·2	2·2	+0·2	0	0	10	4	0	1	7	1	8	2	3	6	4	1	0	6	2	7		Daltonganj
7·4	...	7·4	1·77	...	0·66	4	5	...	4·4	...	2	8	3	2	1	9	2	3	1	2	5	4	4	5	3	2	5	1		Dhanbad

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bihar																						
Purnea	124	1005·8	—1·8	1001·6	89·3	+1·4	93	16	73·9	+3·1	70	30,31	80·8	82·2	76·8	78·2	29·7	+3·0	31·1	83	+3	83
Darbhanga	161	1004·5	—1·7	999·9	90·0	+1·8	95	15	75·1	+3·5	70	31	81·8	84·6	78·0	79·5	30·7	+4·7	32·3	84	+13	79
Motihari	218	1002·1	—2·1	998·5	91·0	+2·9	95	10,11	74·1	+4·8	70	4 days	82·1	85·2	77·0	78·4	29·5	+3·4	29·8	78	+1	73
Patna	173	1003·5	—2·2	999·8	93·0	+4·4	96	20,21	76·3	+3·5	73	21,22,24	83·5	87·4	76·8	77·5	28·7	+3·4	27·5	73	+4	63
Dehri	352	996·9	...	993·4	92·5	...	96	4 days	74·5	...	69	23	82·1	87·3	75·8	77·2	27·3	...	27·4	74	...	62
Gaya	365	996·4	—2·5	993·0	92·2	+3·6	97	20	74·3	+4·3	68	24,25	82·9	86·1	74·9	76·3	25·9	+3·1	26·2	68	0	63
Jamui	270	1000·1	...	996·7	91·7	...	96	20	74·8	...	70	23	81·3	84·4	76·3	76·7	28·7	...	28·2	79	...	70
Dumka	489	992·6	—2·4	989·1	91·1	+3·0	97	20	...	...	...	...	83·1	84·1	76·9	76·8	29·1	+3·7	27·9	75	+3	70
Sabour	122	1005·3	—2·3	1001·6	91·1	+3·0	95	15,20	74·4	+3·4	71	28,30,31	83·0	83·8	78·2	78·4	30·5	+4·0	30·6	80	+4	78
Bhagalpur	181	1004·0	...	1000·3	92·1	...	97	20	75·9	...	72	31	84·6	85·2	78·2	78·2	29·9	...	29·8	74	...	72
U. P., East																						
Gonda	360	997·3	...	993·6	94·2	+3·4	99	13,17	73·4	+5·9	63	31	80·2	86·6	74·4	76·2	26·0	+2·8	26·4	76	0	62
Gorakhpur	254	1000·5	—2·3	996·8	93·4	+4·3	97	16,17	75·2	+5·8	70	21	82·2	88·8	75·7	76·0	27·2	+2·8	24·7	72	—3	54
Azamgarh	255	1000·3	...	996·5	95·7	...	100	18,22	73·6	...	67	4 days	82·6	88·8	76·3	77·6	28·2	...	27·7	71	...	59
Banaras	250	1000·4	—2·4	996·9	94·8	+4·3	99	18	73·5	+5·5	66	24	81·8	99·9	74·9	76·0	26·5	+3·4	24·3	73	+4	51
Allahabad (Bamrauli).	322	998·0	—2·4	994·6	94·7	+4·3	100	18	73·5	+6·4	67	25,31	83·1	89·6	75·1	76·9	26·0	+4·7	26·5	68	+1	55
Fatehpur	375	996·0	...	992·6	96·4	+3·9	102	19	73·5	+7·0	67	31	82·3	90·9	73·8	75·8	24·3	+2·8	23·8	65	—3	49
Banda	398	995·8	...	992·2	96·8	...	100	5 days	72·2	...	65	25	82·7	91·1	74·2	76·3	25·3	...	23·8	65	...	49
Orai	463	993·0	...	989·7	96·3	...	101	17	72·9	...	64	31	82·2	91·0	75·3	74·5	26·5	...	21·7	61	...	44
Kanpur	414	995·0	—2·1	991·7 (a)	96·7	+5·0	101	17,19	73·3	+7·3	62	31	83·5	90·5 (a)	73·3	75·5 (a)	23·2	+2·4	23·8 (a)	59	—9	48
Lucknow	371	996·7	—1·9	993·1	94·9	+3·5	99	17,18,19	72·8	+6·3	62	31	80·3	86·6	73·4	75·6	24·6	+2·8	26·2	71	+2	58
Hardoi	467	992·1	...	989·1	95·7	...	99	12,17,18	71·8	...	59	31	77·9	91·2	71·4	78·5	23·4	...	27·6	71	...	54
Kheri	483	992·9	...	988·6	92·5	...	95	4 days	71·3	...	60	31	79·6	85·3	74·3	77·2	26·8	...	28·1	77	...	68
Bahraich	407	995·9	—1·3	992·0	94·9	+4·8	98	17,18	73·9	+5·5	65	21	81·9	89·4	74·6	74·9	25·8	+2·6	22·8	70	—3	49
U. P., West																						
Jhansi	823	981·5	—2·1	978·0	97·0	+3·9	102	6,18	73·2	+6·5	65	31	82·3	91·9	71·6	73·8	21·6	+3·9	20·5	57	+2	38
Agra	553	990·1	—2·2	986·7	98·2	+5·4	104	17	72·5	+7·4	64	31	78·8	94·2	69·0	73·1	19·7	+4·6	18·2	59	+7	34
Mainpuri	516	991·3	—2·0	989·0	98·5	+5·3	103	17,19	71·0	+6·0	60	31	81·8	92·1	72·5	75·5	23·0	+4·4	22·7	62	0	47
Aligarh	615	988·0	...	985·0	98·2	+5·1	102	17,19	70·5	+4·6	59	31	79·9	92·8	70·8	74·4	21·8	+6·0	21·6	63	+12	40
Bareilly	568	989·5	—2·2	985·8	94·2	+4·5	99	17	71·3	+5·5	60	31	80·1	87·6	73·0	74·7	24·6	+3·6	23·7	70	—3	53
Meerut	728	984·2	—1·8	..	95·3	+4·8	100	17	69·6	+7·0	62	30,31	77·2	...	70·4	...	21·9	+5·0	...	70	+3	...
Roorkee	899	978·6	—2·0	974·9	91·8	+3·6	95	5 days	67·4	+6·0	56	31	75·3	87·0	69·9	87·0	22·1	+4·2	22·1	75	+3	51
Dehra Dun	2,239	934·5	—1·3	931·8	86·1	+3·2	90	19	65·7	+5·4	58	30	73·5	81·9	66·4	72·7	19·0	+3·8	24·1	68	0	64
Punjab (1)																						
New Delhi	710	984·5	—2·2	981·0	97·2	+4·7	103	17	72·3	+8·0	63	31	81·4	91·6	68·8	72·3	18·1	+2·8	18·4	50	—5	37
Hissar	725	984·2	—2·2	980·8	101·2	+6·6	107	2	70·5	+7·3	58	30	77·3	97·2	66·0	72·1	16·3	+2·1	15·5	52	—2	26
Karnal	818	980·9	...	977·6	95·4	...	100	16	68·8	...	55	31	76·9	91·7	69·4	72·8	21·2	...	19·1	68	...	38
Ambala	892	977·4	—3·1	974·7	98·0	+6·2	102	19,20	69·7	+7·6	56	31	78·2	93·3	69·3	72·2	20·1	+4·0	17·3	63	+3	33
Patiala	822	980·6	...	977·4	97·7	...	102	6	68·7	...	55	31	77·2	92·0	69·0	71·7	20·6	...	17·1	64	...	35
Ludhiana	810	981·0	—2·3	978·1	98·8	+6·5	103	7	69·7	+6·5	53	31	77·9	94·5	68·6	73·2	19·5	+4·4	18·4	60	—1	33
Ferozepore	657	985·8	...	983·7	98·2	...	103	5 days	66·0	...	54	31	77·0	92·7	67·6	74·2	29·5	...	20·8	59	...	39
Amritsar	756	982·4	...	979·6	96·0	...	101	6	65·3	...	52	30	75·6	90·5	68·1	71·3	20·4	...	18·2	66	...	36
Jammu and Kashmir																						
Srinagar	5,205	844·2	—0·7	840·7	73·6	—0·2	87	7	46·2	+5·6	39	31	52·2	66·5	49·5	56·9	11·2	+1·6	12·8	84	—2	58
Gulmarg	8,709	...	...	...	...	...	...	Closed during winter Months					..	...	...	...	...	...	...	...	...	...

(a) Mean of 30 days.

Cloud amount (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Bihar
3·7	+1·5	2·5	3·25	+0·03	1·19	1	5	+1·6	2·1	+0·8	0	8	17	0	1	0	1	0	4	0	0	5	1	0	0	0	0	25		Purnea
3·2	+1·3	1·9	2·48	+0·18	0·94	17	5	+2·5	0·8	−0·5	0	12	7	0	0	0	1	0	11	0	1	0	3	0	1	0	2	24		Darbhanga
3·0	+1·5	1·7	0·16	−2·15	0·16	2	1	−1·5	2·1	+0·4	0	1	23	2	0	0	1	0	4	0	0	8	0	0	0	1	0	22		Motihari
2·1	+0·2	2·2	0·91	−1·39	0·43	16	3	+0·1	3·3	+1·3	0	15	3	2	3	3	1	1	3	0	12	1	2	1	5	0	0	10		Patna
1·8	...	2·5	1·04	−0·91	0·58	2	2	−0·6	2·1	...	1	1	4	4	6	10	0	1	4	8	1	2	1	1	2	0	8	8		Dehri
2·2	+0·3	2·8	0·73	−1·19	0·40	2	2	−0·9	2·8	−0·2	0	3	1	2	11	6	1	0	7	1	7	3	0	1	1	1	4	13		Gaya
2·3	...	3·5	1·73	...	0·57	25	5	...	2·2	...	1	10	7	3	0	0	0	6	4	0	12	2	1	0	0	1	2	13		Jamui
1·8	−0·3	3·0	5·72	+1·91	1·96	4	7	+2·4	2·2	+1·0	4	4	7	3	1	7	5	0	0	1	2	10	4	2	4	5	2	1		Dumka
2·7	+0·1	3·4	1·34	−1·80	0·55	11	4	+1·1	2·8	+0·3	1	3	9	6	0	3	3	2	4	1	1	5	2	0	2	2	1	17		Sabour
2·8	...	3·4	1·31	...	0·59	30	4	...	2·8	...	2	3	10	1	1	1	5	0	8	2	4	6	3	0	2	1	1	12		Bhagalpur
																														U. P., East
1·4	0	1·1	0·26	−1·53	0·26	2	1	−0·7	1·7	−0·3	0	0	14	4	0	0	0	1	12	0	0	0	0	0	0	0	0	31		Gonda
1·0	−0·2	0·9	0·18	−2·79	0·14	4	1	−1·3	1·3	+0·3	1	3	12	3	0	0	1	1	10	0	0	2	0	0	0	5	0	24		Gorakhpur
1·0	...	0·8	0·19	...	0·15	4	1	...	...	...	0	0	2	1	0	0	2	0	26	0	0	0	0	0	0	1	0	30		Azamgarh
1·8	+0·1	2·4	0·31	−1·87	0·16	2	2	−0·2	...	...	0	2	6	4	1	9	4	0	5	9	4	3	1	0	4	4	5	1		Banaras
1·7	0	2·6	0·14	−2·20	0·14	2	1	−1·5	2·5	+0·2	0	4	4	3	2	6	5	0	7	1	3	1	0	0	3	5	2	16		Allahabad (Bamrauli).
1·1	−0·2	1·6	0·03	−0·86	0·03	3	0	−1·4	1·2	−0·4	0	0	2	1	0	5	2	4	17	0	0	0	0	0	1	0	1	29		Fatehpur
0·8	...	1·4	0	...	0	...	0	...	1·5	...	0	2	6	0	1	3	11	0	8	1	1	5	2	0	2	6	0	14		Banda
1·0	...	2·4	1·08	...	0·47	1	3	...	3·9	...	1	3	5	2	0	11	4	5	0	9	6	3	4	2	1	1	5	0		Orai
0·9	+0·2	1·6	0·10	−1·20	0·10	1	1	−0·5	3·7	+0·2	1	5	7	1	2	6	5	2	2	3	3	4	0	1	1	3	9	7		Kanpur
0·7	+0·3	(a) 1·3	0·10	−1·18	0·06	3	0	−1·7	1·2	+0·1	4	2	9	2	1	0	6	3	4	3	0	3	0	0	1	2	3	18		Lucknow
0·5	...	0·5	0·71	...	0·41	2	2	...	1·7	...	3	3	2	9	2	0	6	1	5	4	1	0	1	2	0	1	9	13		Hardoi
1·0	...	0·6	1·53	...	1·53	8	1	...	1·0	...	3	3	5	7	3	0	0	2	8	0	0	2	0	0	0	0	1	28		Kheri
1·3	+0·3	1·2	0·16	−1·42	0·16	4	1	−0·7	2·6	+1·2	2	2	13	9	0	0	0	1	4	1	1	1	1	0	2	0	8	17		Bahraich
																														U. P., West
1·3	+0·3	1·0	0·27	−0·72	0·27	8	1	−0·1	3·3	+0·9	0	0	0	1	0	0	8	0	22	2	1	0	0	0	0	3	1	24		Jhansi
0·2	−0·6	0·2	0·09	−0·62	0·06	7	0	−0·8	1·6	+0·8	0	0	0	0	0	2	0	0	29	0	0	0	0	0	0	0	1	30		Agra
0·8	−0·2	0·7	0	0·95	0	...	0	−1·0	...	...	1	1	4	4	0	2	3	1	15	0	1	0	3	0	0	8	2	17		Mainpuri
0·4	−0·1	0·4	0	−0·31	0	...	0	−0·3	...	...	0	0	2	0	0	0	3	0	26	0	0	0	0	0	0	0	0	31		Aligarh
0·7	−0·2	0·5	0·54	−0·73	0·54	3	1	−0·1	1·0	0	0	1	5	4	0	0	2	1	18	0	0	1	0	0	0	0	0	30		Bareilly
0·3	−0·2	...	0	−0·81	0	...	0	−0·9	2·7	...	0	3	7	3	0	0	1	2	15	...	...	...	...	...	...	...	...	...		Meerut
0·7	+0·1	1·2	0·49	−0·35	0·31	3	2	+1·1	2·5	+1·3	0	0	1	13	0	0	0	0	17	0	0	0	6	0	0	0	5	20		Roorkee
0·7	−0·3	1·1	0·59	−0·67	0·38	3	2	+0·4	2·0	+0·1	1	4	1	0	0	0	1	1	23	1	1	0	0	0	4	0	3	22		Dehra Dun
																														Punjab (I)
0·2	−0·5	0·4	0·33	−0·07	0·33	3	1	+0·4	3·4	...	1	1	4	3	2	3	7	2	8	8	2	1	2	0	1	0	6	11		New Delhi
0·1	−0·5	0·1	0	−0·61	0	...	0	−0·6	3·7	+0·5	0	3	1	3	4	8	5	2	5	6	2	1	0	0	1	5	10	6		Hissar
0	...	0·3	0	...	0	...	0	...	2·0	...	0	8	7	5	1	2	3	2	3	1	1	1	1	0	0	4	15	8		Karnal
0·1	−0·6	0·1	0	−0·87	0	..	0	−0·9	3·7	+1·8	1	0	2	5	0	0	0	2	21	2	0	1	1	1	0	2	5	19		Ambala
0·4	...	0·5	0	...	0	...	0	...	3·8	...	0	0	1	18	1	0	0	5	6	4	0	0	4	0	0	2	16	5		Patiala
0·3	−0·3	0·3	0	−0·43	0	...	0	−0·7	0·3	−0·7	0	0	1	1	1	0	0	1	27	0	2	0	0	0	0	1	2	26		Ludhiana
0·3	...	0·2	0	...	0	...	0	...	...	...	0	1	0	0	0	5	0	0	25	0	0	0	0	0	3	0	0	28		Ferozepore
0·3	...	0·6	0	...	0	...	0	...	5·2	...	1	2	14	6	0	0	1	0	7	3	1	3	4	2	0	2	14	2		Amritsar
																														Jammu and Kashmir
2·1	+0·2	2·6	1·25	+0·08	0·88	29	3	+0·2	1·2	−0·8	2	0	1	5	4	1	0	2	16	1	1	0	1	1	0	2	3	22		Srinagar
																														Gulmarg

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jammu and Kashmir—*contd.*																						
Dras (R)	10,059																					
Leh	11,529	670·5	+1·1	665·7	62·3	+4·0	68	9	34·1	+3·6	27	20,21	44·5	54·6	33·2	38·4	3·0	—1·0	3·1	80	—16	23
Skardu (R)	7,505																					
Gilgit (R)	4,890																					
Misgar (R)	10,190																					
Rajasthan, West																						
Sri Ganganagar	580	988·5	...	985·2	99·2	+4·1	103	17	67·5	+7·8	58	31	78·1	91·6	67·0	72·9	17·6	+5·3	19·8	54	+4	36
Bikaner	734	983·6	—3·3	981·1	100·1	+3 3	108	5	72·7	+6·4	58	31	79·3	99·7	63·9	69·7	13·0	+0·8	11·5	39	—8	17
Jaisalmer	793	981·1	...	978·7	101·7	...	108	3,4	72·3	...	63	30	79·4	99·5	72·2	81·8	23·0	...	28·7	69	...	45
Jodhpur	736	984·5	—0·5	981·3	101·4	+5·9	107	4,5,16	74·1	+8·7	66	31	81·0	98·5	65·3	68·9	14·5	+0·2	11·3	40	—11	17
Phalodi	783	981·7	...	979·1	100·0	...	106	5	73·6	...	61	30	78·6	99·4	66·0	72·1	16·6	...	13·9	47	...	26
Barmer	638	987·4	—1·9	984·1	102·9	+5·8	109	4	75·6	+5·3	67	25,31	81·8	99·2	69·9	75·4	19·6	+2·7	18·7	54	—2	31
Rajasthan, East																						
Sikar	1,419	961·4	...	958·3	98·1	...	105	3	70·5	...	57	30	80·0	94·9	71·8	78·4	23·2	...	25·8	66	...	47
Jaipur	1,431	961·2	—2·3	957·9	98·6	+4·5	103	5	70·1	+5·8	61	31	83·2	94·5	67·9	70·4	16·0	+2·0	16·1	42	—4	26
Ajmer	1,593	956·1	—1·9	952·9	96·9	+5·4	102	5,16	72·6	+8·0	61	31	81·1	93·4	65·7	66·4	14·5	—0·3	9·7	43	—4	21
Kotah	843	980·6	—2·3	976·9	99·4	+4·8	105	5,6	77·5	+7·2	70	29,31	82·8	97·3	67·6	70·5	16·6	+0·6	12·8	43	—6	23
Jhalawar	1,053	973·7	—2·1	969·9	98·8	+6·9	104	5	72·4	+8·3	63	30,31	79·4	96·3	67·1	69·7	16·6	—0·6	12·6	50	—11	22
Udaipur	1,910	946·0	—1·7	943·0	94·5	+2·8	99	4,13	69·3	+5·6	59	31	79·6	89·8	66·9	68·4	17·9	+1·6	14·1	51	—6	31
Madhya Bharat																						
Gwalior	688	985·4	...	982·5	96·6	...	103	17	71·5	...	56	31	82·8	91·8	70·5	74·1	20·0	...	20·7	52	...	41
Sheopur Kalan	771	...	...	...	95·9	...	105	5,6	70·5	...	59	31	79·3	96·7	69·0	72·7	19·6	...	16·6	58	...	28
Guna	1,571	956·4	—2·1	953·4	96·1	+6·5	101	5	68·6	+6·4	59	29,31	78·7	91.0	70·3	74·2	21·9	+4·7	22·0	66	+4	45
Neemuch	1,626	955·4	—1·6	952·2	97·1	+6·1	101	5,11	72·3	+7·7	63	31	80·0	93·4	66·5	67·6	16·7	+0·7	12.6	48	—7	24
Ratlam	1,596	955·8	...	952·9	95·9	...	101	11	70·5	...	65	27,28,30	78·9	92·2	69·0	75·0	20·2	...	22·6	62	...	45
Indore	1,839	947·8	—1 6	944·5	94·1	+5·4	99	10,11	67·4	+5·1	58	31	78·8	90·3	69·0	69·7	20·2	+1·8	16 4	61	+6	35
Bhopal (Bairagarh)	1,714	951·9	—1·9	948·6	94·5	+6·6	100	5	68·9	+4·8	63	27,30,31	79·5	89·3	68·7	68·4	19·6	+1·0	15·3	58	—4	33
Vindhya Pradesh																						
Nowgong	750	983·7	—2·2	980·5	94·4	+3·7	99	5	70·3	+5·5	61	31	79·7	90·5	72·0	75·4	23·3	+3·7	23·2	68	—1	48
Sutna	1,041	973·8	—2·2	970·6	92·3	+3·9	96	8,19,21	71·2	+5·3	64	31	79·5	87·2	72·8	74·1	24·4	+4·1	22·9	70	+3	53
Umaria	1,506	958·3	...	955·0	89·7	+2·9	94	22	...	...	...	...	79·2	84·5	72·5	75·3	24·5	+4·8	26·2	71	+4	67
Madhya Pradesh, East																						
Gondia	1,026	975·1	...	971·6	90·5	...	94	6	72·8	...	67	26,27,31	79·0	85·3	74·3	75·8	26·8	...	26·1	80	..	63
Pendra	2,040	940·8	—2·0	973·9	86·1	+3·0	92	6,7	69·1	+5·0	64	26	76·7	80·2	70·5	72·5	22·9	+3·6	24·1	74	+7	69
Ambikapur	1,989	942·8	...	940·0	87·2	...	91	7,20	66·8	...	58	25	76·0	82·2	71·1	72·9	24·0	...	23·9	79	...	64
Raigarh	723	984·4	...	980·8	91·5	...	96	22	74·4	...	69	23.24,25	80·1	87·8	75·0	77·2	27·4	...	27·1	78	...	62
Champa	805	982·3	...	978·5	91·1	...	95	22	74·0	...	68	25	78·7	86·5	75·1	76·5	28·1	...	26·6	83	...	62
Raipur	979	976·0	—2·0	972·7	89·6	+1·1	95	8	73·6	+3·9	68	26	79·8	86·2	74·3	74·6	26·5	+3·6	24·0	78	+7	57
Kanker	1,318	965·0	—1·4	961·8	88·3	+1·8	9	6 days	70·9	+3·7	63	26	78·3	84·0	73·4	75·3	25·9	+2·8	26·0	78	—1	64
Chanda	634	987·9	—2·0	984·2	91·2	+1·4	95	25	72·3	+4·1	64	26	80·0	86·5	73·5	76·9	25·3	+1·8	27·2	73	0	64
Sironcha	605	996·0	...	992·3	92·2	...	95	6,12,22	74·7	...	68	26	8·05	87·6	76·6	76·7	29·4	...	26·4	82	...	60
Jagdalpur	1,815	948·7	—0·8	945·4	86·8	+1·9	91	6,8,21	69·7	+3·6	61	26	75·1	80·6	71·9	72·7	25·4	+1·5	24·3	84	+5	68

(R) Register not received.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																		STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Jammu and Kashmir—*contd.*
																													Dras (R)
1·2	—1·0	3·1	0·02	—0·08	0·02	19	0	—0·3	2·9	+1·0	0	0	0	1	0	3	0	0	27	0	2	0	3	3	17	2	2	2	Leh
																													Skardu (R)
																													Gilgit (R)
																													Misgar (R)
																													Rajasthan, West
0·1	—0·1	0·1	0	—0·10	0	...	0	—0·3	2·4	—2·0	3	0	2	2	9	10	0	0	5	2	2	0	0	1	1	1	1	23	Sri Ganganagar
0·1	—0·5	0·3	0	—0·21	0	...	0	—0·4	3·6	—0·2	0	0	0	6	0	13	0	4	8	0	3	0	3	0	8	0	16	1	Bikaner
0·1	...	0·2	0	...	0	...	0	...	8·3	...	1	1	0	0	2	21	1	0	5	0	7	0	0	0	21	2	1	0	Jaisalmer
0·8	—0·2	0·6	0	—0·32	0	...	0	—0·5	4·0	—0·8	1	8	0	0	1	8	2	1	10	2	3	2	1	1	8	6	3	5	Jodhpur
0·4	...	0·2	0	—0·07	0	...	0	0	7·9	...	1	0	0	3	6	13	8	0	0	5	0	1	0	3	12	8	2	0	Phalodi
0·9	+0·2	0·5	0	—0·10	0	...	0	—0·5	5·8	+1·1	2	1	1	0	3	6	2	5	11	1	2	0	2	3	11	3	4	5	Barmer
																													Rajasthan, East
0·1	...	0·5	0	...	0	...	0	...	0·3	...	0	1	1	2	4	2	2	2	17	2	3	1	0	1	2	8	6	8	Sikar
0·1	—0·9	0·5	0	—0·48	0	...	0	—0·7	3·2	0	4	1	0	1	0	1	0	7	17	10	2	1	1	0	0	1	12	4	Jaipur
0·4	—0·5	0·2	0	—0·38	0	...	0	—0·7	4·1	+2·0	1	0	0	5	2	6	4	0	13	3	1	2	0	0	4	9	5	7	Ajmer
1·2	—0·1	0·4	0·36	—0·29	0·36	1	1	0	3·2	+1·7	0	0	0	0	0	2	7	1	21	0	0	0	0	0	0	9	7	15	Kotah
1·0	—0·4	1·3	0	—0·55	0	...	0	—1·5	2·7	+1·1	2	4	2	1	0	2	6	2	12	4	10	4	0	0	2	6	4	1	Jhalawar
0·8	0	2·1	0·20	—0·37	0·20	18	1	—0·1	2·5	...	3	1	0	1	0	1	3	6	16	2	4	2	2	2	4	4	4	7	Udaipur
																													Madhya Bharat
1·5	...	1·3	0	...	0	...	0	...	3·4	...	1	0	1	1	1	8	3	2	14	2	4	2	1	0	0	2	4	16	Gwalior
...	...	...	0	...	0	...	0	...	...	...	1	1	0	3	15	1	0	0	10	15	5	2	0	2	2	2	0	3	Sheopur Kalan
2·0	+0·8	2·4	0	—1·05	0	...	0	—1·6	3·3	+1·6	4	0	5	3	2	6	5	0	6	11	4	2	0	2	2	5	0	5	Guna
1·6	+0·4	2·5	0·56	—0·06	0·44	19	2	+1·1	4·9	+1·0	1	10	0	2	1	4	5	2	6	1	19	0	0	0	3	4	0	4	Neemuch
2·6	...	4·8	0·02	...	0·02	20	0	...	5·3	...	9	5	2	1	0	5	7	1	1	1	12	3	1	1	1	8	2	2	Ratlam
1·9	+0·3	2·8	0·13	—1·08	0·07	16	0	—2·0	5·0	+1·5	4	3	1	2	2	3	5	3	8	7	8	0	2	0	2	5	0	7	Indore
2·1	+0·3	3·3	0·13	—1·53	0·13	14	1	—1·4	6·3	+3·0	3	4	2	4	3	4	3	4	4	12	6	1	2	0	0	3	4	3	Bhopal (Bairagarh)
																													Vindhya Pradesh
1·6	—0·1	2·0	0·03	—1·10	0·03	13	0	—1·5	2·1	+0·9	1	1	2	0	2	16	0	0	9	3	5	0	0	1	3	0	1	18	Nowgong
1·2	—0·6	2·9	0·99	—0·94	0·92	14	1	—1·2	1·8	—0·3	0	2	4	0	1	6	3	0	15	0	5	1	0	0	0	2	3	20	Sutna
1·7	—0·7	2·6	1·11	—1·36	0·41	16	4	+1·3	1·5	—0·3	1	2	1	0	0	3	2	0	22	1	2	0	0	0	4	2	0	22	Umaria
																													Madhya Pradesh, East
1·8	...	2·7	3·36	...	1·67	13	3	...	1·7	...	8	3	4	3	2	1	2	0	8	5	0	1	1	1	4	3	0	16	Gondia
1·9	—0·5	3·4	4·38	+1·39	1·98	13	7	+2·9	2·4	+0·3	11	0	1	2	3	1	0	8	5	5	1	1	1	4	7	3	3	6	Pendra
1·8	...	1·7	0·92	...	0·31	30	3	...	4·4	...	0	7	1	2	4	5	4	0	8	15	7	0	0	1	1	5	2	0	Ambikapur
3·6	...	3·7	3·33	...	1·61	4	3	...	2·6	...	6	10	3	1	1	3	4	2	1	2	2	1	4	3	3	3	1	12	Raigarh
3·0	...	2·5	4·99	...	1·42	2	6	...	2·6	...	6	2	4	1	0	3	6	2	7	7	3	2	0	0	1	6	7	5	Champa
2·6	+0·3	3·5	3·62	+1·45	1·17	12	6	+2·7	3·3	—0·1	4	3	3	1	1	2	5	1	11	4	5	1	2	1	4	2	0	12	Raipur
2·7	—0·6	4·3	3·95	—0·45	1·39	18	9	+3·7	2·1	—0·2	1	0	0	0	0	3	0	0	27	2	5	0	0	0	4	1	1	18	Kanker
3·0	+0·7	4·1	5·18	+3·14	2·12	15	6	+3·1	1·1	—0·6	0	0	0	0	0	0	1	0	30	0	0	0	1	0	0	0	1	29	Chanda
2·5	..	3·4	2·92	...	1·39	1	4	...	2·4	...	3	4	5	5	3	2	1	1	7	4	5	8	4	1	2	1	2	4	Sironcha
4·3	+1·1	5·1	2·47	—1·89	07·6	6	6	+0·3	2.2	+0·4	0	3	1	1	0	10	0	7	9	1	7	0	4	0	7	0	1	11	Jagdalpur

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars. Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Maximum temperature, °F. Mean.	Departure from normal.	Highest.	Date.	Minimum temperature, °F. Mean.	Departure from normal.	Lowest.	Date.	Dry bulb temperature, °F. Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Wet bulb temperature, °F. Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Vapour pressure, millibars. Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Relative humidity, % Mean 0830 hrs. I.S.T.	Departure from normal.	Mean
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Madhya Pradesh, West																						
Buldhana	2,133	938·3	...	935·2	88·4	...	93	11	70·5	...	65	29	74·9	85·2	69·4	72·5	22·3	...	22·2	76	...	5
Akola	925	978·1	−2·0	974·5	93·5	+0·9	99	11	71·3	+4·4	63	27,31	78·2	89·6	71·4	73·0	23·2	+4·3	20·2	70	+9	4
Amravati	1,213	968·5	−1·8	965·2	91·8	+0·9	98	10	72·8	+4·1	67	27	78·9	88·5	71·4	72·8	22·9	+4·5	20·5	68	+10	4
Yeotmal	1,481	959·6	...	956·3	90·8	...	95	9,10	70·6	...	64	27	79·3	85·1	71·0	72·3	22·1	...	21·3	66	...	5
Khandwa	1,044	974·1	−2·0	970·3	96·5	+4·0	102	11	70·5	+4·4	61	31	80·9	91·1	71·3	73 6	21·9	+3·4	20·4	63	+1	4
Hoshangabad	992	975·7	−2·8	972·1	94·6	+4·9	99	9,10,24	71·5	+4·8	63	31	77·8	91·7	71·8	73·9	23·9	+4·1	20·5	73	+5	4
Sagar	1,808	948·3	−2·1	945·1	91·5	+3·3	96	5,17	71·8	+5·5	65	31	80·2	85·9	69·5	68·8	20·3	+4·1	17·1	58	+4	
Jabalpur	1,289	965·9	−1·7	962·5	92·7	+4·9	97	25	69·9	+6·4	61	31	79·2	87·3	71·8	73·5	23·3	+3·0	21·9	69	−2	
Mandla	1,452	960·5	...	957·0	90·6	...	95	5	67·6	...	57	31	73·8	85·0	71·1	73·9	24·8	...	23·6	87	...	
Seoni	2,027	941·0	−2.2	938·5	89·3	+2·9	95	6,7	69.0	+4.9	61	31	76·9	82·5	69·9	71·0	22·1	+4·1	21·3	70	+9	
Chhindwara	2,248	934·6	...	931·2	87·7	...	92	7,9	67·1	...	59	31	74·6	83·1	69 2	69·7	22·2	...	19·3	76	...	
Betul	2,144	938·0	...	935·1	86·8	...	91	21,23,25	66·4	...	59	30,31	75·9	80·7	69·6	71·5	22·1	...	22·6	73	...	
Nagpur	1,010	975·3	−1·9	971·8	92·2	+1·6	97	5	71·1	+4·6	64	26,27,31	80·1	86·9	73·2	74·0	24·8	+6·1	22·8	71	+12	
Gujarat																						
Deesa	444	993·6	−3·0	990·5	101·9	+4·1	108	4,5,13	(c) 65·5	−1·2	55	9	80·7	98·0	69·8	72·4	19·9	+2·3	15·6	56	−2	
Surat	39	1008·9	−1·3	1005·2	97·9	+3·8	104	13	76·5	+4·4	70	30	80·8	92·8	75·1	77·6	27·2	+3·4	25·4	76	+8	
Ahmedabad	182	1003·7	−2·1	999·9	101·2	+4·0	107	5,13	73·6	+4·2	66	25,31	81·2	98·2	72·4	75·9	23·2	+3·5	20·4	65	+1	
Dohad	1,093	972·8	...	969·1	97·6	+4·7	104	12	73·0	+6·1	67	27,31	80·0	94·4	69·7	71·6	20·1	0	16·2	58	−13	
Baroda	115	1006·1	...	1002·0	101·4	+6·0	107	13	73·0	+6·9	62	31	80·4	97·1	72·9	76·3	24·3	+2·4	21·5	68	−4	
Broach	57	1008·1	...	1004·0	101·1	...	107	13	73·3	...	69	30,31	79·9	97·4	75·0	79·6	27·4	...	26·4	79	...	
Saurashtra and Kutch																						
Bhuj	343	998·4	−1·5	995·4	99·3	+3·2	108	4	73·9	+3·4	67	31	78·9	96·0	71·0	70·8	22·3	+1·8	14·3	67	+8	
Dwarka	37	1009·0	−1·7	1006·5	86·8	−0·5	104	1	76·0	+0·5	72	31	78·6	82·3	75·7	77·5	29·0	+3·1	30·0	87	+8	
Jamnagar	74	1007·7	−5	1004·7	96·2	+1·9	105	1,15	73·8	+4·0	65	31	81·2	89·8	74·6	76·2	26·3	+2·1	24·7	73	−6	
Rajkot	432	995·3	−1·5	991·6	100·4	+4·6	106	4,14	72·8	+4·1	67	26	78·0	97·5	71·8	71·6	23·8	+2·6	14·7	74	+3	
Veraval	26	1008·9	−1·9	1006·1	(b) 89·8	...	101	31	73·6	...	67	25	79·3	83·4	73·1	77·8	25·0	...	30·0	75	+9	
Bhavnagar	55	1008·6	−1·2	1004·6	100·9	+5·1	106	5	75·6	+4 9	69	25	80·1	97·7	71·5	74·2	22·5	+2·1	18·2	65	+6	
Konkan																						
Dahanu	15	1009·3	...	1006·6	90·1	...	97	28	76·3	...	71	28,29,31	82·0	86·2	77·5	80·5	30·2	...	33·0	80	...	
Bombay	35	1008·9	−1·2	1006·1	89·8	+1·0	95	28,30	78·2	+2·6	75	29,30	82·9	85·4	78·2	79·3	30·9	+2·6	31·4	80	−1	
Alibag	23	1009·9	−0·5	...	88·8	+0·3	96	30	76·1	+1·6	72	27,30,31	81·4	...	77·6	...	30·6	+3·9	...	84	+8	
Harnai	66	1007·8	...	1005·2	87·2	...	93	29	77·5	...	73	1	82·3	84·1	76·3	78·6	28·2	...	30·9	75	...	
Devgad	117	1006·2	...	1003·4	87·4	...	94	27,28	76·8	...	72	2	79·9	85·4	77·0	79·6	30·3	...	31·9	86	...	
Vengurla	29	1009·3	...	1006·4	88·9	...	95	23,27,29	75·0	...	71	10	80·2	84·2	77·4	78·6	30·8	...	30·8	87	...	
Marmagao	202	1003·7	−0·4	1001·0	86·4	+0·5	92	29	76·9	+2·2	73	1,10	80·8	83·1	77·2	77·7	30·3	+2·5	30·0	84	+2	
Honavar	85	1007·9	...	1005·0	87·9	...	94	27	75·0	...	73	4 days	79·7	84·6	76·4	79·3	29·6	...	31·8	86	...	
Deccan (Desh)																						
Jalgaon	660	993·7	...	983·9	95·2	...	101	11	71·0	...	59	31	77·7	91·8	72·0	73·7	24·2	...	20·2	75	...	
Malegaon	1,432	961·7	−1·6	958·2	94·3	+2·6	101	11,12	70·0	+4·1	62	4 days	78·1	89·3	69·3	69·4	20·5	+1·5	15·5	64	+1	
Ahmednagar	2,154	937·9	−1·4	934·7	90·2	+1·6	97	11,13	68·3	+2·7	59	30	76·6	85·6	69·1	69·5	21·2	+2·7	18·1	69	+5	
Poona	1,834	948·5	−1·2	945·1	89·7	+0·3	97	12	69·1	+2·8	61	30	74·3	83·7	70·8	72·8	24·3	+3·4	23·0	84	+7	
Jeur	1,709	952·4	...	948 6	92·0	...	97	25	68·5	...	59	30	77·5	87·8	70·4	70·3	22·5	...	18·1	70	—	
Sholapur	1,570	957·2	−1·0	953·4	93·0	+2·4	97	11,13,14	71·3	+2·5	63	27	78·9	88·3	71·5	72·0	23·3	+3·6	20·2	70	+6	

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

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity miles per hour.		Wind direction—Number of winds from:—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Madhya Pradesh, West
4·0	...	4·0	5·03	...	1·97	14	5	...	4·3	...	4	0	0	3	3	7	1	13	0	5	14	2	1	1	0	2	6	0	Buldhana
4·0	+1·6	3·5	2·15	+0·33	0·87	14	6	+3·5	2·6	−0·1	1	3	1	2	3	2	5	4	10	5	8	2	1	1	1	3	5	5	Akola
3·8	+1·4	3·8	2·59	+0·68	1·30	14	4	+1·4	4·6	+1·4	1	12	3	1	0	4	4	5	1	3	12	1	2	2	3	3	5	0	Amravati
3·5	...	4·8	1·58	...	0·50	14	5	...	5·1	...	1	10	0	4	1	2	0	13	0	0	11	1	9	3	1	0	6	0	Yeotmal
2·2	+0·4	3·8	2·04	+0·65	1·08	1	3	+1·0	3·4	+0·8	1	4	1	1	4	4	10	1	5	4	5	2	3	3	4	3	4	3	Khandwa
3·3	+1·5	4·1	0·49	−0·79	0·34	1	2	0	2·0	+0·7	1	4	4	0	3	2	5	0	12	2	5	5	2	2	4	5	2	4	Hoshangabad
1·5	−0·3	3·1	0	−1·09	0	...	0	−1·9	8·9	+1·2	0	6	3	4	2	11	5	0	0	1	10	1	5	0	10	4	0	0	Sagar
2·1	+0·4	2·5	0·62	−1·26	0·31	13	3	+0·7	2·7	+1·3	0	5	2	12	3	4	1	0	4	1	12	1	4	1	7	1	1	3	Jabalpur
4·5	...	4·7	5·67	...	4·78	13	3	...	0·2	...	0	0	0	0	0	0	0	0	31	0	0	0	0	1	0	0	1	29	Mandla
2·2	+0·3	3·3	3·95	+1·68	3·32	13	4	+0·9	3·5	+1·1	3	6	1	1	2	6	0	2	10	3	3	5	11	3	3	0	1	2	Seoni
2·1	...	2·9	3·66	...	1·85	13	5	...	2·7	...	2	2	1	1	0	0	4	2	19	6	9	1	3	2	2	2	4	2	Chhindwara
2·2	...	3·0	7·59	...	3·65	14	6	...	2·4	...	2	2	2	3	1	2	4	2	13	4	6	1	1	0	1	2	0	16	Betul
3·3	+0·9	4·0	4·91	+2·71	2·60	13	5	+1·9	2·9	...	8	8	1	1	1	2	2	3	5	1	9	4	1	0	5	2	1	8	Nagpur
																													Gujarat
0·5	−0·5	0·8	0	−0·31	0	...	0	−0·5	...	...	2	6	6	4	6	4	1	2	0	2	6	0	1	5	11	6	0	0	Deesa
2·5	+0·2	2·1	0·07	−1·44	0·07	1	0	−2·0	4·3	+1·7	2	5	3	7	2	2	1	2	7	0	0	0	0	6	11	4	6	4	Surat
2·2	+0·9	1·6	0	−0·35	0	...	0	−0·7	3·8	+0·8	1	3	5	2	3	3	1	11	2	4	6	3	2	2	1	5	7	1	Ahmedabad
1·3	−0·8	1·0	0·74	−0·66	0·65	1	1	−1·0	7·6	+4·7	4	2	1	3	2	6	7	4	2	5	4	4	0	0	12	5	1	0	Dohad
1·9	+0·5	1·5	0	−1·76	0	...	0	−1·3	2·0	+0·1	1	4	1	2	4	4	2	3	10	3	1	1	1	0	5	1	5	14	Baroda
1·1	...	1·6	0	...	0	...	0	...	4·3	...	2	1	2	6	5	6	4	4	1	2	6	1	3	0	15	1	3	0	Broach
																													Saurashtra and Kutch
1·2	+0·1	0·6	0	−0·33	0	...	0	−0·5	5·3	+0·8	3	1	0	0	1	3	9	3	11	7	2	0	0	1	3	10	7	1	Bhuj
1·8	−0·1	1·3	0	−0·25	0	...	0	−0·3	8·5	+1·6	10	3	0	1	1	4	2	9	1	6	0	0	0	1	3	6	15	0	Dwarka
2·2	+1·3	0·9	0	−0·31	0	...	0	−0·5	11·4	...	2	0	1	0	3	8	5	7	5	7	0	0	0	0	1	17	6	0	Jamnagar
2·4	+0·6	2·1	0	−0·57	0	...	0	−1·1	8·5	+4·3	2	2	0	1	2	4	4	8	8	9	8	1	0	0	3	4	6	0	Rajkot
2·3	+0·5	1·8	0	−0·62	0	...	0	−0·8	10·0	...	8	6	1	0	0	2	3	4	7	0	0	0	0	0	5	14	9	3	Veraval
1·6	−0·6	2·3	0	−0·90	0	...	0	−0·9	5·0	+1·6	0	1	0	0	3	6	11	5	5	2	5	10	4	7	1	2	0	0	Bhavnagar
																													Konkan
3·9	...	2·4	4·44	...	3·68	17	3	...	7·0	...	2	0	14	12	0	0	1	0	2	6	0	2	2	0	3	10	8	0	Dahanu
3·5	+0·4	3·0	2·71	+0·17	1·33	16	3	−0·1	5·2	−0·9	4	6	11	4	2	1	0	1	2	3	0	0	1	3	3	5	16	0	Bombay
3·8	−0·1	...	3·73	−1·30	1·44	17	6	+0·9	4·4	−0·8	2	4	3	4	2	0	0	0	16	...	...	...	...	...	...	...	...	...	Alibag
3·2	...	4·5	10·05	...	3·83	17	5	...	6·5	...	3	7	7	6	0	1	1	3	3	0	2	0	4	1	4	4	16	0	Harnai
3·1	...	4·0	14·55	...	5·55	17	9	...	6·6	...	0	2	21	5	0	1	0	2	0	0	0	1	0	0	3	17	10	0	Devgad
3·8	...	5·0	11·28	...	4·82	2	8	...	...	...	1	0	0	0	0	0	0	0	30	0	0	0	0	1	4	4	0	22	Vengurla
4·5	+0·3	5·2	6·81	+0·33	3·00	1	7	−0·9	6·0	+1·3	0	10	5	4	9	1	2	0	0	3	1	0	1	3	9	10	4	9	Marmagao
5·2	...	5·7	7·30	+0·08	3·10	1	10	+2·1	2·1	...	0	2	17	3	1	1	2	1	4	0	0	0	1	1	5	11	4	6	Honavar
																													Deccan (Desh)
2·9	...	2·2	5·00	+3·56	2·64	15	2	+0·2	3·6	...	0	4	2	7	1	1	7	6	3	4	14	2	2	0	1	1	7	0	Jalgaon
2·7	+0·1	3·2	2·46	+0·75	1·77	15	3	+0·3	3·7	−0·2	2	1	0	0	0	1	2	7	18	0	9	5	0	0	2	3	5	7	Malegaon
3·5	+1·0	4·3	4·29	+2·12	1·78	15	4	+0·6	3·9	−0·9	9	1	0	1	1	3	0	8	8	1	18	2	0	1	2	0	3	4	Ahmednagar
3·9	+0·7	4·7	10·11	+6·57	2·48	20	11	+5·9	1·7	−2·3	0	0	0	0	1	1	8	0	21	0	0	1	0	0	0	13	3	14	Poona
4·0	...	4·9	5·39	...	1·91	2	3	...	4·2	...	6	3	2	1	1	1	5	8	4	7	7	2	1	1	2	4	6	1	Jeur
3·2	−1·1	4·1	5·49	+2·45	4·16	1	4	−0·3	4·3	−1·6	6	8	0	4	0	5	1	2	5	7	5	5	3	2	0	3	1	5	Sholapur

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity. %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	2
Deccan (Desh)— *contd.*																						
Miraj	1,817	949·3	—0·7	945·9	90·1	+3·2	95	11,12	69·8	+1·5	63	31	74·7	85·4	70·4	71·5	23·6	+2·6	20·7	81	+9	5
Kolhapur	1,870	947·5	...	944·2	88·3	...	92	5,days	69·4	...	63	31	74·2	83·5	70·3	72·5	23·7	...	22·7	83	...	6
Bijapur	1,950	944·3	—1·3	941·2	90·5	+1·8	95	13,14	70·9	+2·1	66	30,31	77·2	86·8	70·0	71·0	22·2	+1·6	19·4	70	+2	4
Belgaum	2,562	924·9	—0·4	922·6	83·4	0	86	9 days	67·1	+1·7	62	31	70·4	78·2	67·6	70·4	21·9	+1·0	22·2	85	+5	6
Gadag	2,131	938·9	—0·5	935·6	88·4	+1·6	93	11	69·3	+0·3	67	22,26	75·5	82·8	70·3	73·6	23·2	+1·7	24·5	78	+3	6
Hyderabad, North																						
Aurangabad	1,905	946·4	—1·3	943·1	90·8	+1·1	97	11,12	68·9	+2·0	60	28	75·1	85·5	69·0	70·9	21·8	+3·8	19·9	74	+16	5
Parbhani	1,350	963·2	...	959·6	92·5	...	97	10,11	69·4	...	60	27	78·4	86·7	70·7	71·7	22·2	...	19·7	65	...	4
Ramagundam	52	992·3	...	988·1	93·5	...	97	6,24	71·8	...	69	27	82·9	89·5	75·8	76·2	27·2	...	24·8	71	...	5
Nizamabad	1,250	966·6	—2·2	963·2	91·5	+2·2	102	16	70·9	+2·9	64	26,28,30	79·9	86·0	73·1	74·4	24·8	+2·5	23·8	71	+1	5
Bidar	2,178	936·2	...	933·3	87·5	+1·9	91	13,14	70·7	+1·1	67	26	76·1	83·6	70·0	71·1	22·6	+1·9	20·9	74	+4	5
Hyderabad, South																						
Gulbarga	1,503	959·0	—1·3	955·3	90·6	+0·1	95	12,13,14	70·8	+1·8	65	28,30	77·7	87·1	70·7	71·4	22·8	+2·2	19·9	71	+5	4
Raichur	1,311	965·6	—1·0	962·0	90·3	+0·4	94	13	73·5	+1·3	71	4 days	78·7	86·3	72·4	72·4	24·3	+1·5	20·9	73	+3	5
Hyderabad (Begumpet)	1,778	950·0	—0·8	946·9	89·4	+1·2	95	14	(b) 70·1	+2·4	64	26	77·5	82·7	72·2	72·2	24·8	+2·5	22·7	77	+5	4
Hanamkonda	881	979·5	—1·7	976·1	92·4	+2·9	95	4 days	73·7	+2·8	68	26	80·8	86·2	74·7	74·8	26·6	+2·2	24·3	74	+1	5
Khammameth	367	997·0	...	993·3	96·1	...	97	8	75·3	...	70	25,26	81·5	88·0	76·6	76·3	29·0	...	26·2	79	...	5
Coastal Andhradesa																						
Nellore	65	1007·4	—1·0	1004·0	95·5	+4·8	100	13	77·8	+1·9	75	6 days	83·7	87·3	77·7	78·8	29·7	+0·7	29·7	76	—3	4
Ongole	38	1008·0	...	1004·9	93·4	...	100	7	78·3	...	75	24,28	84·8	87·1	77·4	77·8	28·8	...	28·3	71	...	4
Gannavaram	88	1006·6	...	1003·3	92·3	...	97	7,18	76·6	...	73	25	84·1	85·2	78·2	78·8	30·1	...	29·1	76	...	7
Masulipatam	10	1009·2	—1·4	1005·8	89·9	+1·3	94	7	79·0	+3·0	75	4	83·6	86·1	79·3	79·4	32·2	+2·6	31·9	82	+2	7
Kakinada	26	1008·6	—1·4	1005·4	90·6	+2·7	95	8,19,24	77·0	+1·1	75	7 days	84·3	85·5	78·5	78·5	30·6	+2·2	30·1	76	—1	7
Visakhapatnam	9	1008·9	+1·7	1005·8	91·2	+1·0	96	4 days	77·5	+1·5	74	25	83·5	84·1	78·6	79·0	31·0	+0·4	31·6	78	+1	7
Calingapatam	19	1008·3	—2·0	1005·2	89·0	+0·9	95	6,7,23	77·7	+2·0	73	24,25	80·6	85·4	76·9	79·3	29·9	+0·9	31·4	86	+5	7
Rentachintala	348	997·7	...	993·9	96·2	+4·7	100	7,8	76·5	+2·7	72	26	83·5	91·6	75·4	75·5	26·4	+0·9	22·9	67	—7	4
Rayalaseema																						
Cuddapah	428	995·8	—0·6	990·9	93·7	+1·7	99	4	77·9	+3·4	73	15	85·6	90·3	75·1	78·7	25·0	—1·3	28·2	60	—13	5
Bellary	1,473	960·1	—1·0	956·5	90·5	+0·7	93	13,24,25	73·4	+2·1	69	31	77·8	86·1	72·2	72·5	24·4	+2·4	21·1	70	+1	5
Kurnool	923	978·7	—0·8	974·8	92·5	+1·9	96	23,25	73·8	+2·1	69	25	79·7	87·0	73·4	74·1	24·6	+1·0	22·9	73	+1	5
Anantapur	1,147	970·9	...	966·7	91·5	...	94	8 days	72·2	...	68	22	79·2	88·7	72·2	73·7	23·8	...	21·6	70	...	4
Tamilnad																						
Palayamcottai	167	1004·8	...	1001·2	95·4	...	100	15,19	78·2	...	76	1,9,30	84·7	86·8	75·6	75·9	26·1	...	25·6	65	...	5
Pamban	37	1009·2	—0·2	1006·0	87·4	—0·5	90	8	79·7	+2·0	76	10,11	83·4	83·3	79·2	79·3	32·2	+2·3	32·4	82	+2	4
Mathurai	437	995·5	—0·5	991·8	93·8	+3·6	98	4	75·9	+1·3	72	23	82·7	87·3	75·7	76·7	27·2	+0·4	26·6	71	—3	4
Nagapattinam	31	1009·5	—0·2	1006·0	90·7	+2·0	95	6,10	78·3	+1·8	73	10,11	83·4	85·8	77·3	78·6	29·2	+0·3	30·2	75	—4	5
Tiruchi	295	1000·6	—0·3	996·6	92·5	+2·1	97	5,6,8	76·0	+2·0	74	4 days	82·0	88·2	75·9	76·9	27·8	+0·1	26·4	74	—5	5
Coimbatore	1,341	965·3	—0·3	962·0	88·5	+0·8	92	20	73·1	+2·4	71	5	78·8	83·7	73·0	73·8	25·2	—0·3	25·1	75	—6	4
Salem	913	979·4	—0·6	975·2	92·0	+2·2	96	19	74·5	+2·6	70	10	78·5	86·7	73·3	74·4	25·7	—0·2	23·5	77	—1	5
Kallakurichi	416	995·5	...	991·7	93·2	...	99	5	75·5	...	71	29	80·0	87·8	74·9	76·0	27·3	...	25·3	78	...	5
Cuddalore	39	1009·0	—0·4	1005·3	92·3	+3·8	97	4 days	77·5	+2·3	74	25	84·4	85·9	77·1	78·2	28·5	—0·8	29·4	71	—10	5
Vellore	703	986·1	—0·3	982·4	93·3	+4·4	98	7,8	75·1	+2·3	71	23,24,25	81·1	85·8	73·8	74·1	25·2	—1·5	23·5	70	—10	5
Madras	51	1008·2	—0·8	1004·8	93·3	+3·2	98	5,14	77·9	+2·9	74	10	83·3	86·3	76·8	78·1	28·5	—0·1	29·1	74	—6	4
Arogyavaram	2,299	933·3	...	930·1	86·8	...	90	4 days	69·6	...	64	22	76·8	82·0	69·5	70·0	21·6	...	20·2	69	...	5

Cloud amount (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																			STATION.
											0830 hrs. I.S.T.									1730 hrs. I.S.T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Deccan (Desh)— *contd.*
3·9	—0·1	5·0	3·04	—1·08	1.43	1	5	—1·4	5·5	+0·1	1	1	4	1	0	3	12	8	1	5	5	1	0	1	5	10	4	0		Miraj
2·6	...	4·3	4·17	...	2·51	1	6	...	5·4	...	0	4	2	0	2	1	12	2	8	0	4	2	0	0	1	20	1	3		Kolhapur
2·9	0	5·6	1·06	—1·83	0·40	1	3	—1·1	4·2	+0·9	5	2	0	2	0	3	6	6	7	1	13	4	4	1	1	3	3	1		Bijapur
...	...	...	6·56	+1·79	1·90	1	9	+1·5	3·6	+0·5	3	2	5	0	4	1	5	4	7	1	2	3	1	7	1	11	2	3		Belgaum
4·3	+0·2	5·1	7·13	+3·32	2·11	1	9	+1·7	5·5	+0·4	0	1	3	2	0	7	12	4	2	0	4	4	0	2	5	9	1	6		Gadag
																														Hyderabad, North
3·8	+0·8	4·5	4·27	+2·48	2·14	15	6	+3·2	...	...	1	3	9	1	1	3	4	2	7	3	7	4	0	2	5	5	4	1		Aurangabad
2·2	...	3·5	3·04	+0·95	1·54	16	4	+1·0	...	...	1	0	20	1	0	0	6	0	3	8	0	9	1	1	0	9	1	2		Parbhani
3·1	...	4·6	0·58	...	0·23	3	3	...	2·6	...	13	0	1	4	1	0	2	5	5	5	15	0	3	1	2	1	1	3		Ramagundam
2·9	+0·3	4·2	4·30	+2·30	3·11	3	4	+1·0	1·8	—0·5	1	1	0	0	1	1	2	2	23	1	4	0	0	0	1	0	4	21		Nizamabad
4·4	+1·4	4·4	2·64	+0·43	0·82	1	5	+1·3	4·6	—0·9	2	5	1	3	2	6	3	7	2	6	9	6	1	2	3	2	1	1		Bidar
																														Hyderabad, South
3·3	+0·7	4·5	4·00	+1·31	1·79	2	5	+1·0	5·4	—0·2	4	11	4	2	1	2	6	1	0	3	5	11	1	5	3	2	1	0		Gulbarga
3·3	+0·7	4·8	4·56	+1·51	1·43	2	8	+3·7	5·7	0	3	4	0	1	1	7	6	6	3	6	7	1	2	0	5	3	6	1		Raichur
3·5	+0·1	4·5	3·97	+1·52	1·23	16	6	+1·7	3·7	—0·1	1	1	0	1	0	2	6	3	17	5	9	2	0	1	2	5	2	5		Hyderabad (Begumpet)
2·6	—0·7	3·5	2·42	—0·19	1·56	2	3	—1·1	3·0	0	6	1	0	2	4	1	3	9	5	6	10	3	0	2	2	4	1	3		Hanamkonda
3·3	...	4·5	3·45	...	1·43	1	7	...	2·4	...	14	1	3	3	0	1	3	2	4	8	4	8	1	0	1	3	1	5		Khammameth
																														Coastal Andhradesa
4·2	—0·8	5·1	1·91	—7·65	0·62	10	5	—3·9	3·5	+0·6	2	0	0	1	5	1	1	5	16	0	2	11	7	3	1	1	0	6		Nellore
2·9	...	3·7	6·06	...	1·44	27	9	...	3·1	...	1	2	0	1	0	6	2	3	16	0	3	0	13	0	1	0	2	12		Ongole
3·9	...	5·1	2·22	...	1·09	4	5	...	3·9	...	4	2	6	3	0	3	9	3	1	1	3	6	9	6	2	1	2	1		Gannavaram
4·7	+0·9	5·1	2·54	—6·06	1·09	16	6	—2·5	4·4	+0·8	4	2	1	2	2	5	7	4	4	2	2	3	5	9	3	1	4	2		Masulipatam
3·9	—0·2	4·0	5·14	—3·38	1·87	3	10	+1·4	4·8	—0·1	0	7	0	1	0	19	0	4	0	0	2	0	9	0	18	0	2	0		Kakinada
4·1	—0·2	5·1	5·03	—2·80	1·63	18	7	—1·3	4·1	—0·1	1	4	0	0	0	0	6	12	8	1	0	5	4	5	9	2	1	4		Visakhapatnam
5·0	+1·6	6·0	2·30	—5·57	1·10	31	8	+0·7	5·6	+0·9	2	0	1	0	1	1	12	14	0	2	2	3	7	10	6	0	1	0		Calingapatam
4·8	—0·3	5·6	1·09	—3·90	0·46	12	3	—4·6	3·8	—0·4	2	1	1	1	2	2	9	1	12	6	0	9	1	3	1	9	1	1		Rentachintala
																														Rayalaseema
4·3	+0·1	4·9	2·70	—2·16	1·10	1	4	—2·8	1·5	—2·2	0	0	5	0	0	0	5	1	20	0	0	3	0	0	0	3	0	25		Cuddapah
5·5	+1·4	6·5	2·34	—1·82	1·40	20	4	—1·9	3·2	+0·1	1	0	1	0	0	3	2	6	18	1	3	4	1	0	4	4	4	10		Bellary
3·4	—0·3	4·8	2·14	—1·06	0·88	4	4	—0·9	4·3	+1·2	2	2	1	1	0	2	9	5	9	2	7	7	1	3	3	2	2	4		Kurnool
4·2	...	5·3	2·37	—1·57	1·49	8	4	—1·5	5·1	...	0	3	2	0	0	9	5	1	11	1	8	2	2	1	3	4	5	5		Anantapur
																														Tamilnad
2·0	...	4·4	1·54	—5·51	0·66	20	3	—5·6	5·1	...	6	3	1	4	2	2	5	7	1	1	0	3	4	9	3	9	2	0		Palayamcottai
4·7	+1·1	5·2	1·89	—6·64	0·94	24	3	—6·4	9·2	+2·0	0	1	1	7	8	11	3	0	0	0	2	2	4	15	7	0	0	1		Pamban
4·3	—0·8	6·5	5·24	—2·18	2·41	23	7	—3·2	3·0	+0·3	3	1	0	0	0	3	6	10	8	1	0	4	12	1	2	5	2	4		Mathurai
5·2	+0·2	5·6	3·60	—6·98	1·59	11	8	—2·2	5·0	+0·7	0	0	0	1	4	12	6	2	6	0	1	5	9	7	6	0	1	2		Nagapattinam
4·5	0	5·7	4·66	—2·55	1·52	13	8	—1·5	7·1	+1·4	1	4	1	0	1	4	12	5	3	1	3	6	1	6	5	4	5	0		Tiruchi
3·3	1·0	5·5	3·11	—3·20	1·17	10	5	—4·7	5·4	+2·7	3	4	1	1	8	8	3	1	2	1	3	4	1	5	10	5	2	0		Coimbatore
5·0	+0·4	5·6	2·41	—4·03	0·71	10	5	—4·7	3·6	+1·2	0	0	2	0	3	8	5	0	13	2	4	5	1	4	3	6	1	5		Salem
4·1	...	4·9	2·21	...	0·34	6	7	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...		Kallakurichi
5·3	+0·7	5·4	1·70	—9·83	0·70	29	5	—5·8	5·5	+2·4	1	2	0	3	2	15	5	2	1	0	3	0	15	5	4	0	0	4		Cuddalore
4·8	+1·0	6·1	2·72	—4·08	1·01	27	7	—2·2	3·6	+1·6	0	1	0	0	0	0	7	11	12	1	7	7	2	6	5	2	1	0		Vellore
5·0	+0·4	5·3	2·74	—9·30	1·42	21	4	—6·7	6·3	—0·4	2	0	0	0	2	10	12	4	1	0	5	6	12	3	3	1	0	1		Madras
5·8	...	6·6	2·21	...	1·19	21	5	...	3·8	...	4	1	0	1	6	0	5	2	12	7	3	4	2	1	5	4	3	2		Arogyavaram

(b) Mean of 29 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Malabar & South Kanara																						
Mangalore	72	1008·5	—0·3	1005·8	87·2	+1·3	91	27	76·0	+1·4	73	1	80·2	83·9	76·8	78·5	29·9	+1·4	30·9	86	+2	78
Kozhikode	27	1010·2	—0·2	1007·4	89·3	+3·0	93	30	76·3	+1·5	74	30	81·4	85·0	77·1	78·3	29·8	+1·0	30·0	81	—5	73
Palghat	319	1000·2	...	996·9	88·2	...	93	23	75·1	...	72	26	79·7	82·2	76·3	76·4	29·4	...	28·3	85	...	76
Mysore																						
Chitaldrug	2,405	929·4	—1·0	926·3	84·9	—0·3	88	11,20	69·5	+1·3	66	1,26	73·4	81·8	69·0	70·1	21·6	+0·1	20·4	80	+5	57
Shimoga	1,872	947·5	...	944·2	85·9	...	89	24,25	68·5	...	63	22	73·6	80·6	70·7	72·1	24·3	...	23·5	87	...	68
Hassan	3,149	906·5	...	903·6	81·9	—0·3	88	20	66·4	+1·7	64	23	70·3	76·5	67·4	68·4	21·7	+0·6	20·4	86	+6	66
Bangalore	3,021	910·2	—0·4	907·0	82·4	+0·7	87	20	66·8	+1·9	64	22	70·8	77·8	67·8	68·5	22·0	+0·8	19·9	85	+4	62
Mysore	2,518	926·5	—0·5	923·5	84·1	—0·1	87	6 days	67·6	+0·6	65	4	72·1	79·5	69·1	70·4	23·1	+1·0	21·8	86	+5	61
Travancore-Cochin																						
Fort Cochin	10	1011·1	—0·4	1008·1	86·5	+2·2	88	6 days	76·7	+1·4	74	10	82·0	83·1	77·4	77·9	30·0	+1·4	30·3	81	—1	79
Alleppey	12	1010·8	...	1008·0	87·4	...	89	7 days	76·0	...	73	4 days	82·6	83·3	78·6	78·1	31·6	...	30·5	84	...	78
Trivandrum	211	1004·1	—0·2	1001·5	86·2	+0·2	90	30	75·2	+1·1	73	1,24	79·4	81·9	76·6	78·1	30·0	+2·0	31·1	88	+3	80
Nagercoil	195	1004·5	...	1001·5	88·5	...	93	19	76·3	...	73	22	81·7	81·5	76·5	76·3	28·8	...	28·6	78	...	78
Hill Stations excluding Kashmir																						
Aijal	3,599	890·7	...	887·6	70·6	...	75	19	65·6	...	61	31	70·2	69·5	67·8	68·5	22·2	...	23·4	88	...	95
Shillong	4,921	851·1	—1·1	848·4	71·8	+0·7	77	1,10	57·6	+2·8	51	24	67·3	65·5	61·8	63·4	16·6	+0·5	19·2	74	+2	89
Cherrapunji	4,309	870·4	—0·4	867·2	72·1	+0·2	78	1,9,10	60·8	+0·3	55	31	67·3	66·1	63·7	64·1	18·8	+1·2	19·6	83	+10	90
Darjiling	7,432	778·6	—0·2	776·2	65·0	+3·3	71	11,12	52·7	+2·5	47	31	58·3	57·5	56·7	55·9	15·2	+2·0	14·8	91	+10	90
Kalimpong	3,965	879·8	—2·0	878·3	73·4	+1·4	78	1,11	...	...	...	...	66·5	68·0	64·1	65·8	19·3	+1·5	21·0	88	+9	89
Katmandu	4,388	868·6	...	865·5	80·7	+0·6	84	23	58·8	+2·4	55	30	66·7	70·1	63·4	65·0	18·4	+2·7	19·2	84	0	75
Mukteswar (Kumaon)	7,592	774·0	—0·7	772·0	68·9	+3·9	72	4 days	53·4	+3·7	49	30,31	58·5	61·0	50·8	54·5	10·3	+1·4	12·2	60	+3	68
Mussooree	6,699	798·4	...	796·9	66·6	+2·5	78	18	56·6	+5·3	53	29,31	62·6	61·4	54·9	57·7	12·3	+2·8	14·9	64	0	81
Simla	7,224	783·7	—0·2	782·4	68·3	+4·0	73	1	54·9	+3·5	50	29	60·6	61·9	51·3	54·2	9·6	+2·5	11·8	54	+10	62
Dharamsala	3,974	884·8	...	882·6	79·3	...	83	18	66·0	...	58	29	71·1	75·6	63·0	66·0	16·8	...	19·3	66	...	64
Abu	3,945	882·1	—0·3	879·6	85·3	+6·2	91	13	68·7	+4·3	63	25,31	75·6	80·1	59·9	61·9	11·3	—0·2	11·6	38	—10	32
Pachmarhi	3,528	894·4	—1·2	891·6	82·5	+3·2	88	8,9,10	64·1	+4·2	54	27,31	72·7	79·2	66·3	68·8	19·5	—2·7	19·8	72	+12	59
Mahabaleshwar	4,534	863·2	—0·5	861·1	77·2	+3·0	83	11	61·6	+0·3	60	19,27,31	67·3	70·1	62·2	66·8	17·6	+1·6	21·1	78	+1	85
Mercara	3,781	885·6	—0·4	883·1	75·3	0	80	15,24,30	63·4	+0·9	61	17,18	66·2	71·1	65·4	67·7	21·0	+1·5	21·8	94	+7	85
Kodaikanal	7,688	772·1	+0·8	770·3	64·1	+2·0	67	4,31	52·2	+1·0	49	27,28	57·5	57·2	54·2	55·7	13·2	+0·4	15·0	82	+2	92
Ootacamund	7,364	780·5	+0·2	778·7	66·7	+2·1	70	4 days	49·1	—1·4	44	3	56·5	59·5	54·1	56·2	13·5	+0·8	14·2	86	+7	83
Coonoor	5,730	826·8	...	...	69·7	0	71	10 days	55·6	—0·5	53	10	66·0	...	60·1	...	15·6	+0·3	...	72	—3	...
Tibet																						
Lhasa	12,090	658·8	...	...	68·2	...	74	3	36·9	...	30	29	50·2	...	42·9	...	6·9	...	...	57	...	...
Gyantse	13,110	628·2	...	...	63·9	+3·3	70	15,16	31·0	+2·2	21	28	48·3	...	37·6	...	4·5	—1·3	...	39	—11	...
Ceylon																						
Colombo	24	1011·1	+0·1	1008·2	85·7	0	87	18,26,31	75·5	+0·5	71	29	80·3	82·1	76·8	76·6	29·9	+1·0	27·8	85	—2	77
Trincomalee	24	1009·9	+0·5	1006·8	90·1	+0·9	94	7,14,18	76·3	+0·8	70	8	82·2	82·9	76·2	76·7	28·1	+0·1	27·8	75	—7	74
Batticolea	20	1010·5	...	1007·5	87·6	...	93	12	76·6	...	75	4 days	82·5	83·6	77·2	78·3	29·5	...	30·7	78	...	78
Hambantota	61	1009·4	+0·3	1006·5	86·0	—0·2	90	25	76·0	+0·9	74	11,23,27	81·3	81·5	78·2	77·1	31·4	+3·5	29·8	82	—2	81
Mannar	12	1010·6	...	1007·5	87·9	...	91	29	78·4	...	74	23	82·6	83·5	78·3	78·5	31·2	...	31·0	82	...	79

Cloud amount (Oktas).			Rainfall, inches				Number of rainy days (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														Malabar & South Kanara
5·7	+0·9	6·3	5·45	−2·70	2·71	6	7	−3·4	5·0	+0·9	0	0	22	5	0	1	1	0	2	1	0	0	1	1	10	12	6	0		Mangalore
4·9	−0·3	6·7	5·59	−4·68	1·31	1	10	−1·2	6·0	+1·6	2	9	10	4	3	1	1	1	0	0	0	1	1	0	6	15	8	0		Kozhikode
4·1	...	5·4	7·54	...	1·82	1	13	...	4·9	...	0	0	7	0	0	0	24	0	0	0	0	0	0	0	1	28	2	0		Palghat
																														Mysore
4·7	+0·1	5·7	6·58	+1·82	2·03	29	8	+1·6	5·1	+1·4	0	0	6	1	0	11	12	0	1	2	6	2	1	1	6	12	0	1		Chitaldrug
5·3	...	5·7	4·05	...	1·47	30	8	...	2·6	...	1	0	1	1	6	7	1	1	13	1	3	1	0	3	7	8	2	6		Shimoga
4·4	−0·5	5·8	1·63	−4·44	0·61	11	5	−4·1	5·5	+2·2	2	0	5	2	0	5	13	1	3	1	4	4	1	0	6	13	0	2		Hassan
5·2	−0·1	5·6	4·83	−1·04	1·74	12	8	−0·5	6·0	+1·9	0	2	4	1	0	10	10	0	4	0	5	5	2	2	5	7	4	1		Bangalore
5·4	0	4·9	8·73	+2·85	2·95	13	7	−1·6	4·7	+0·1	0	0	4	0	3	6	14	0	4	6	1	5	0	1	3	13	1	1		Mysore
																														Travancore-Cochin
6·5	+1·7	7·4	8·83	−4·54	1·95	1	17	+2·8	5·7	+2·0	0	6	10	6	2	0	3	2	2	1	0	0	0	0	6	17	6	1		Fort Cochin
6·1	...	6·5	14·11	...	3·25	28	17	...	6·9	...	1	6	8	4	1	4	5	2	0	1	0	0	0	0	5	14	11	0		Alleppey
4·8	−0·7	6·6	9·35	−1·38	2·85	24	13	+0·8	4·5	+0·8	10	2	0	1	0	0	4	11	3	0	0	1	0	0	8	13	5	4		Trivandrum
5·5	...	6·2	3·50	...	1·29	30	6	...	7·6	...	1	2	0	0	0	0	20	4	4	1	0	0	0	0	1	26	3	0		Nagercoil
																														Hill Stations excluding Kashmir
5·5	...	5·6	13·91	...	3·39	4	14	...	4·5	...	1	3	11	4	1	5	2	0	4	0	0	2	1	2	8	8	8	2		Aijal
3·6	+0·2	6·5	12·30	+5·58	3·95	3	15	+5·0	2·1	+0·9	0	2	3	4	3	4	0	1	14	1	1	2	2	1	0	0	2	22		Shillong
5·2	+1·4	4·7	49·53	+30·11	18·28	3	15	+5·7	5·0	+1·9	0	10	10	1	4	1	4	0	1	6	3	1	2	1	6	8	2	2		Cherrapunji
6·1	+1·8	5·7	2·47	−2·94	1·43	4	4	−0·8	4·4	+1·8	1	9	9	4	1	1	1	0	5	0	1	7	2	3	6	7	0	5		Darjiling
3·3	+0·3	3·9	2·55	−2·46	2·00	4	3	−1·8	5·0	−1·4	0	0	0	1	0	0	0	30	0	0	0	0	30	0	0	0	1	0		Kalimpong
4·7	+0·1	3·9	0·76	−0·68	0·31	3	4	+0·8	0·9	+0·1	0	0	2	0	1	0	0	0	28	1	1	2	0	0	0	0	1	26		Katmandu
1·0	−0·4	1·2	1·11	−0·77	0·54	9	2	−0·3	7·9	+3·2	0	2	2	4	0	3	9	3	8	0	3	0	0	1	10	15	2	0		Mukteswar
1·7	+0·1	3·5	0·03	−1·11	0·03	9	0	−2·3	3·5	−0·8	3	3	0	5	7	0	0	0	13	0	1	0	11	12	2	0	0	5		Kumaon Mussooree
0·8	−0·3	1·3	0·04	−1·14	0·03	10	0	−1·9	1·6	−1·2	0	3	3	1	3	1	1	1	18	5	4	0	0	4	4	1	6	7		Simla
0·8	...	1·8	1·65	...	0·95	10	3	...	...	...	10	0	9	0	0	0	0	0	12	13	1	1	0	0	0	14	0	2		Dharamsala
0·9	−0·2	1·1	0	−0·76	0	...	0	−0·9	2·7	−0·7	2	1	1	1	0	1	3	1	21	4	2	1	0	1	2	2	3	16		Abu
2·6	+0·4	3·2	1·69	−0·61	0·51	14	5	+2·0	2·7	+0·4	1	3	4	1	1	1	5	5	10	1	8	2	0	2	0	3	1	14		Pachmarhi
3·8	0	4·6	11·03	+4·68	3·62	2	8	+0·1	5·7	−1·9	7	10	5	1	0	4	0	3	1	0	2	2	0	0	5	3	19	0		Mahabaleshwar
4·6	−0·8	5·1	6·40	−1·89	1·37	2	10	−2·9	5·1	+1·7	0	3	4	2	0	2	8	7	5	0	3	3	0	0	3	12	9	1		Mercara
4·5	−0·3	7·5	5·42	−4·82	1·13	13	11	−4·3	6·1	−0·7	3	4	1	7	1	0	3	4	8	2	1	0	5	3	2	3	10	5		Kodaikanal
3·6	−1·2	5·4	3·91	−4·07	0·77	14	12	−1·8	2·5	−0·3	1	7	1	0	2	2	2	2	14	2	8	0	0	2	2	3	1	13		Ootacamund
5·6	0	...	2·40	−7·73	0·60	12	8	−6·1	6·7	+3·9	4	6	1	11	9	0	0	0	0	...	...	...	...	...	...	...	...	...		Coonoor
																														Tibet
2·0	...	...	0·86	...	0·28	7	4	...	0	...	0	0	0	0	0	0	0	0	31	...	...	...	...	...	...	...	...	...		Lhasa
1·2	−0·4	...	0·09	−0·03	0·05	4	0	−0·5	2·3	−0·7	0	0	3	7	0	1	0	1	19	...	...	...	...	...	...	...	...	...		Gyantse
																														Ceylon
5·8	+0·1	6·6	7·81	−6·64	3·61	29	11	−5·1	...	...	0	0	5	8	2	7	5	1	3	0	0	0	0	2	18	10	1	0		Colombo
5·0	+1·1	6·6	7·08	−1·23	3·13	24	7	−3·9	...	...	0	0	0	1	3	25	0	0	2	1	4	4	4	1	12	2	1	2		Trincomalee
4·1	...	5·5	1·76	...	1·25	7	4	...	...	...	0	0	2	2	1	1	10	5	10	0	3	14	13	1	0	0	0	0		Batticoloa
5·0	+1·2	6·2	1·98	−2·30	0·45	31	5	−2·9	...	...	1	1	0	0	1	16	10	2	0	0	0	0	1	2	18	9	1	0		Hambantota
4·5	...	5·9	2·80	...	1·86	23	3	...	...	...	0	0	0	4	10	17	0	0	0	1	2	0	0	6	21	1	0	0		Mannar

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S.T. (0300 HRS. G. M. T.)

STATION	Height of barometer cistern above mean sea level in feet.	Pressure at station level in Millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, Millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
HYDROMETEOROLOGICAL OBSERVATORIES																						
Damodar Catchment																						
Bokaro . .	784	982·4	...	979·1	90·5	...	95	7,8,22	71·4	...	64	22,23,24	79·1	82·6	74·1	75·1	26·5	...	26·3	78	...	70
Mahanadi Catchment																						
Baramul . .	210	1001·6	...	988·5	90·0	...	94	6 days	73·1	...	65	24	79·6	85·4	76·6	76·5	29.9	...	29·7	85	...	86
Hirakud . .	522	988·7	...	988·2	91·0	...	96	22	75·0	...	70	24,25	82·8	84·1	76·7	77·8	29·0	...	29·5	75	...	75
Barakachhar .	1,136	...	...	...	89·6	...	93	4 days	71·7	...	64	26	79·7	82·6	75·0	75·5	27·4	...	27·5	80	...	67
Narbada Catchment																						
Punasa . .	877	...	...	...	97·1	...	102	11	69·2	...	60	31	81·5	90·7	72·4	73·6	23·2	...	20·7	63	...	44
Bagra Tawa .	1,087	...	...	...	93·2	...	97	4,5	70·3	...	59	31	80·3	85·9	73·6	77·1	28·9	...	28·2	73	...	65
Sabarmati Catchment																						
Dharoi .	...	...	...	...	100·9	...	106	13	71·6	...	61	26	78·4	96·9	69·8	75·9	21·1	...	21·1	...	...	...

Cloud amount (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														HYDROMETEOROLOGICAL OBSERVATORIES
																														Damodar Catchment
2·7	...	3·7	4·28	...	1·72	30	5	...	2·7	...	1	1	2	4	4	8	2	0	9	0	0	4	6	0	1	2	3	15		Bokaro
																														Mahanadi Catchment
...	...	...	11·24	...	3·63	11	1	...	...	...	11	0	0	0	1	9	0	6	4	1	0	0	0	0	2	0	9	19		Baramul
...	...	...	4·31	...	1·95	4	5	...	...	...	4	4	2	2	4	5	8	2	0	2	4	4	7	4	0	5	5	0		Hirakud
1·0	...	1·4	4·06	...	1·62	4	7	...	...	...	1	6	0	3	1	17	1	2	0	2	5	3	0	0	4	1	2	12		Barakachhar
																														Narbada Catchment
0·3	...	1·5	1·08	...	0·67	3	2	...	...	...	1	4	6	2	2	9	3	0	4	0	5	5	2	4	5	3	0	7		Punasa
0·1	...	1·7	0·36	...	0·33	14	1	...	...	...	0	2	4	0	3	10	3	0	9	0	3	3	8	6	1	0	0	10		Bagra Tawa
																														Sabarmati Catchment
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Dharoi

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 4TH CLASS STATIONS—OCTOBER 1951.

STATION.	Maximum temperature, °F.				Minimum temperature °F.				Mean dry bulb temperature 0830 hrs. I. S. T. °F.	Mean wet bulb temperature 0830 hrs. I.S.T. °F.	Vapour pressure, Millibars,		Relative humidity, %		Mean cloud amount 0830 hrs. I. S. T.	Rainfall, inches.				Number of rainy days (0·10" or more).		Wind.	
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.			Mean 0830 hrs. I.S.T.	Departure from normal.	Mean. 0830 hrs. I.S.T.	Departure from normal.		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Resultant direction 0830 hrs. I.S.T.	Velocity in miles per hour.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Assam																							
Lumding	88·5	+3·6	93	4 days	70·7	+0·8	63	28,30	77·9	75·2	26·9	+1·7	87	0	...	4·20	+0·66	0·80	4	10	+4·1	...	...
U. P. West																							
Lokpal	Closed during Winter Months																						
Jammu and Kashmir																							
Jammu	94·0	+5·9	99	7	72·4	+5·2	63	30	76·3	65·6	16·5	+2·9	54	+1	0·6	0·74	—0 02	0·39	9	2	+0·9	NIIE	...
Kargil (R)																							
Mysore																							
Balehonnur	79·9	+0·9	85	10,11	64·9	+0·5	61	8	68·9	67·8	22·8	+1·0	95	+3	..	6·74	—1·09	1·51	27	11	—0·4	...	...
Nandi Hills	73·7	...	77	26	60·9	...	59	4	65·2	63·1	18·9	...	86	...	2·9	4·43	...	1·10	28	5	...	...	...
Sikkim																							
Lachen	...	...	...	...	34·4	...	26	30	42·5	...	...	...	...	...	...	2·60	...	0·98	9	6	...	...	...
Tibet																							
Yatung (Chumbi)	63·9	+5·2	68	1,15	38·6	+1·7	35	30	55·7	53·7	13·4	+4·6	89	+6	0·4	1·40	—0·54	0·60	4	3	—0·4	...	...
HYDROMETEOROLOGICAL OBSERVATORIES																							
Mahanadi Catchment																							
Sonepur	89·9	...	94	6,8	75·0	...	68	24	81·4	76·4	29·0	...	79·6	...	...	3·24	...	0·81	4	6	...	...	...
Ginabahar	91·3	...	94	9	66·4	...	64	24,29	80·2	74·9	27·2	...	...	...	...	4·48	...	2·85	16	5	...	...	...
Ganga Catchment																							
Tapoban	71·7	...	81	3	55·2	...	50	26	62·1	58·7	15·3	...	...	...	...	0·15	...	0·10	10	1	...	...	...
Badrinath	Closed during Winter Months																						
Narbada Catchment																							
Thikri	99·0	...	104	11,12	72·3	...	61	31	82·9	73·1	23·2	...	...	...	...	0·60	...	0·60	2	1	...	...	...
Sabarmati Catchment																							
Jhadol	95·7	...	99	10	63·0	...	51	31	74·1	65·2	17·4	...	...	...	...	...	...	...	...	...	...	...	...

(R) Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 5TH CLASS STATIONS—OCTOBER 1951.

Division.	Station.	Rainfall, inches.				Number of rainy days, (0·10" or more).	
		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.
1	2	3	4	5	6	7	8
Assam	Mawsynram	33·77	...	9·65	2	11	...
West Bengal	Bankura	3·16	+0·04	0·80	11	7	+2·5
Bihar	Muzaffarpur	0·55	—1·86	0·35	2	2	—0·5
	Chapra	0·02	—2·09	0·02	1	0	—2·5
	Arrah	0·54	—1·88	0·33	2	2	—1·0
Punjab (I)	Dalhousie	0·37	—0·97	0·37	29	1	—1·1
	Kyelang	0·27	—0·51	0·18	15	1	—0·3
	Gondla	0·45	...	0·25	28	2	...
	Koksar	0·90	...	0·62	29	2	...
	Kothi	2·97	...	0·80	16	5	...
	Dharampore	0·06	—0·96	0·06	1	0	—1·3
	Kharsali	0·51	...	0·18	10	3	...
	Rana	0	...	0	...	0	...
	Jamuna Chetty	0	...	0	...	0	...
Jammu & Kashmir	Sonamarg	2·06	—0·47	0·85	17	4	—1·2
	Gurez	1·77	—0·71	0·90	17	2	—4·2
Deccan (Desh)	Khandala	13·03	+5·94	4·61	1	9	+2·7
Sikkim	Thangu	1·82	—	0·56	6	5	...
	Chungthang	7·24	...	1·99	19	15	..

RADIOSONDE DATA

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

(From Ascents at 15 hrs. G. M. T.)

OCTOBER 1951.

Standard Pressure Surface mbs.	ALLAHABAD (Sur. Pr. 996 mb.)						CALCUTTA (1007 mb.)						JODHPUR (983 mb.)					
	No. of obsns.	Height (gpm.).	Temperature °A				No. of obsns.	Height (gpm.).	Temperature °A				No. of obsns.	Height (gpm.).	Temperature °A			
			Mean.	Max.	Min.	Dew Point.			Mean.	Max.	Min.	Dew Point.			Mean.	Max.	Min.	Dew Point.
Surface	31	98	301·8	305	297	294·3	22	7	300·5	303	297	298·1	31	218	305·2	309	299	286·0
1000	31	61	...	...	...	...	22	67	...	...	...	...	31	60	...	...	...	...
900	31	998	298·0	303	293	287·0	21	996	295·2	300	293	291·3	31	1006	301·9	306	297	282·9
850	31	1496	293·4	299	286	287·8	21	1489	291·9	295	287	287·5	31	1509	296·8	301	291	282·1
800	31	2017	288·6	294	280	281·0	21	2010	288·9	294	284	282·7	31	2036	291·6	297	287	280·2
700	29	3132	280·4	287	271	270·2	21	3134	282·8	287	277	275·7	31	3154	281·8	287	275	272·4
600	28	4386	273·3	283	268	262·5	21	4399	276·1	282	270	266·1	31	4418	273·6	278	268	262·7
500	27	5832	265·5	274	261	259·0	20	5853	268·6	273	263	...	31	5857	264·8	271	255	...
400	26	7533	253·6	263	245	...	20	7574	258·2	263	252	...	29	7553	252·8	259	244	...
300	24	9611	239·1	251	232	...	17	9695	244·5	251	241	...	26	9623	238·4	244	231	...
250	24	10864	230·1	240	221	...	14	10973	234·9	240	225	...	25	10877	229·0	237	219	...
200	21	12317	218·5	225	208	...	11	12465	223·0	234	217	...	24	12337	217·8	229	205	...
175	11	13212	214·4	221	208	...							18	13176	211·8	226	201	...
150	8	14187	210·7	218	204	...							9	14167	208·2	224	194	...
125	6	15278	205·5	212	207	...							5	15262	204·2	220	191	...
100	5	16626	199·6	207	190	...							5	16592	201·4	215	191	...
80																		

Standard Pressure Surface mbs.	MADRAS (1006 mb.)						NAGPUR (972 mb.)						NEW DELHI (982 mb.)					
Surface	30	15	302·1	304	299	296·9	31	307	300·0	303	297	293·3	31	217	301·0	305	299	291·
1000		70	...	...	...	...	31	65	...	...	...	...	31	41	...	...	...	...
900		1002	296·2	299	293	289·9	31	1004	298·0	301	294	289·9	31	997	301·0	306	294	285·
850	29	1498	294·0	297	289	286·2	31	1500	294·5	297	291	287·5	31	1500	297·4	302	291	281·
800	29	2037	290·3	293	287	283·2	31	2026	290·3	294	287	284·5	31	2026	291·9	296	289	278·
700	29	3153	284·3	287	280	276·2	31	3153	282·8	287	277	275·2	31	3150	282·5	286	277	269·
600	29	4426	277·3	283	273	269·9	31	4422	276·1	281	273	266·1	31	4413	273·7	278	270	261
500	29	5890	269·9	272	266	...	28	5877	268·5	273	263	...	31	5840	264·1	273	260	...
400	25	7622	259·1	262	257	...	28	7608	258·3	265	254	...	31	7533	252·0	257	246	...
300	19	9753	245·5	248	243	...	21	9730	244·8	253	240	...	29	9559	236·5	252	230	...
250	10	11027	234·6	238	232	...	16	11022	234·8	243	232	...	24	10829	228·9	234	220	...
200	13	12517	224·8	230	221	...	12	12514	222·6	227	217	...	23	12291	217·6	239	208	...
175	6	13417	217·5	223	211	...	8	13304	216·4	221	214	...	13	13121	211·1	219	201	...
150	5	14377	212·9	216	210	...	6	14316	209·0	214	207	...	7	14435	205·5	213	204	...
125																		
100																		
80																		

RADIOSONDE DATA
MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
(From Ascents at 15 hrs. G. M. T.)
OCTOBER 1951

Standard Pressure Surface mbs.	POONA (Sur. Pr. 948 mb.)						PORT BLAIR (1008 mb.)						TRIVANDRUM (1003 mb.)					
	No. of obsns.	Height (gpm.).	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.).	Temperature °A			
			Mean.	Max.	Min.	Dew Point.			Mean.	Max.	Min.	Dew Point.			Mean.	Max.	Min.	Dew Point.
Surface	31	557	298·0	303	295	293·3	29	21	299·0	300	297	297·0	31	64	299·0	301	297	297·0
1000	31	83	...	...	...	...	29	91	...	...	...	...	31	92	...	...	...	...
900	31	1008	296·9	301	293	290·1	29	1016	295·0	297	292	292·0	31	1016	294·0	297	292	290·7
850	31	1505	294·8	299	290	286·3	29	1509	292·0	295	291	288·0	31	1510	291·5	294	289	288·6
800	31	2030	291·5	294	289	282·6	29	2032	290·0	293	286	285·0	31	2031	288·5	291	283	285·1
700	31	3162	283·8	287	278	277·1	29	3160	284·0	286	281	279·0	31	3156	283·9	287	280	278·3
600	31	4432	276·6	280	273	268·0	29	4431	277·0	280	274	274·0	29	4428	276·9	281	272	269·8
500	29	5895	270·1	273	266	...	27	5888	268·0	272	265	...	29	5888	268·7	273	265	...
400	27	7628	259·7	265	257	...	27	7614	259·0	263	253	...	29	7614	258·7	262	255	...
300	24	9759	245·9	255	241	...	26	9736	245·0	252	238	...	28	9737	244·7	251	240	...
250	21	11030	235·2	241	232	...	24	11021	236·0	245	226	...	26	11018	234·7	244	231	...
200	16	12538	223·5	228	221	...	16	12527	224·0	237	215	...	24	12525	223·7	240	216	...
175	16	13399	218·4	223	213	...	9	13419	216·0	223	210	...	15	13385	217·1	222	213	...
150	14	14374	211·0	218	203	...	8	14321	211·0	218	202		13	14387	210·7	215	205	...
125	7	15497	205·9	214	200	...							10	15448	204·5	210	202	...
100	6	16795	199·8	211	195	...							9	16805	201·3	207	196	...
80																		

Standard Pressure Surface mbs.	VERAVAL (1009 mb.)						VISAKHAPATNAM (1002 mb.)					
Surface	31	8	300·2	304	298	297·2	30	48	302·0	304	299	298·0
1000	31	77	...	...	...	...	30	66	...	...	...	...
900	31	1010	299·4	304	292	284·7	30	998	296·0	298	293	292·0
850	31	1510	296·4	301	292	281·6	30	1494	293·0	295	290	288·0
800	31	2039	292·3	297	289	279·8	30	2018	289·0	292	286	285·0
700	29	3170	283·8	287	280	273·8	30	3144	284·0	289	280	277·0
600	27	4438	277·2	280	274	263·9	30	4418	277·0	281	273	269·0
500	26	5899	269·1	271	265	...	29	5876	269·0	273	263	...
400	17	7622	259·1	263	255	...	29	7609	259·0	264	255	...
300	12	9712	244·0	248	237	...	25	9730	245·0	251	240	...
250	8	11040	235·5	238	231	...	24	11030	235·0	242	230	...
200	6	12583	225·1	229	222	...	19	12516	224·0	228	216	...
175							11	13392	219·0	226	214	...
150							9	14400	213·0	220	205	...
125												
100												
80												

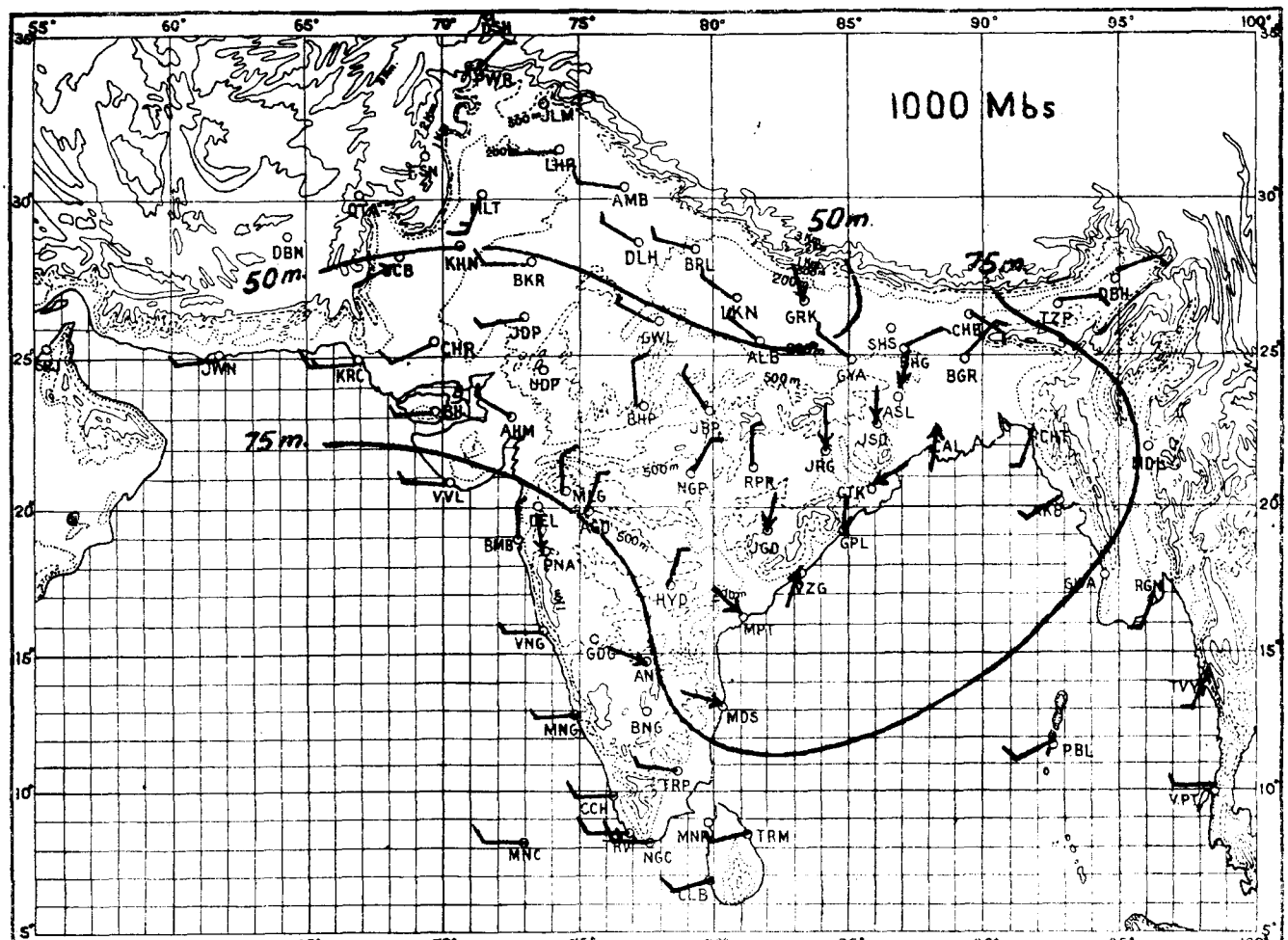
NOTE.—Number of observations refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

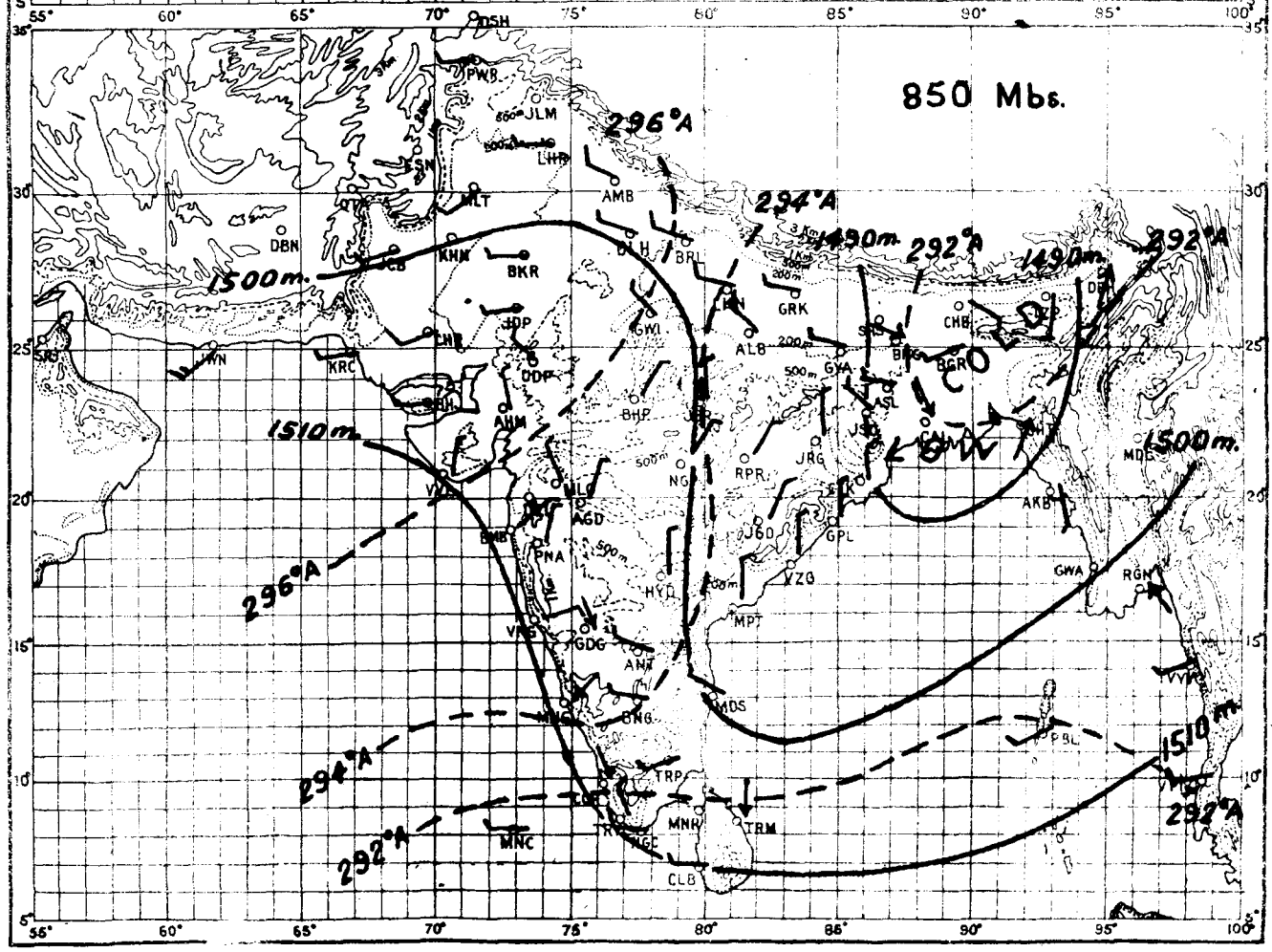
GIPN—S1—4 DDGOM Poona—25-11-53—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

OCTOBER 1951

Plate I





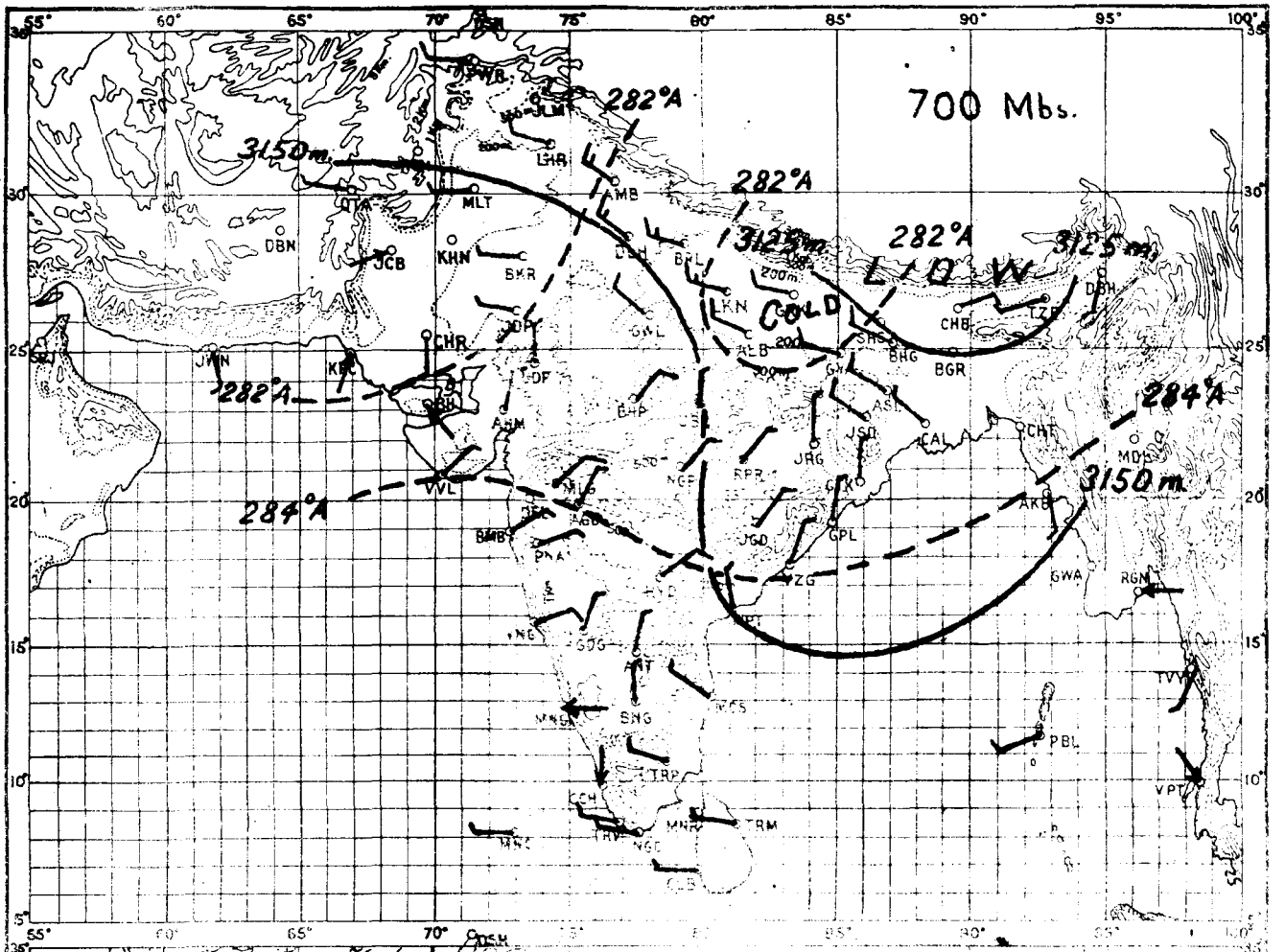
RESULTANT WIND ——\ = 5 Knots, ——\ = 10 Knots, ——\ = 50 Knots. G.P.I.P. POONA, 1951.

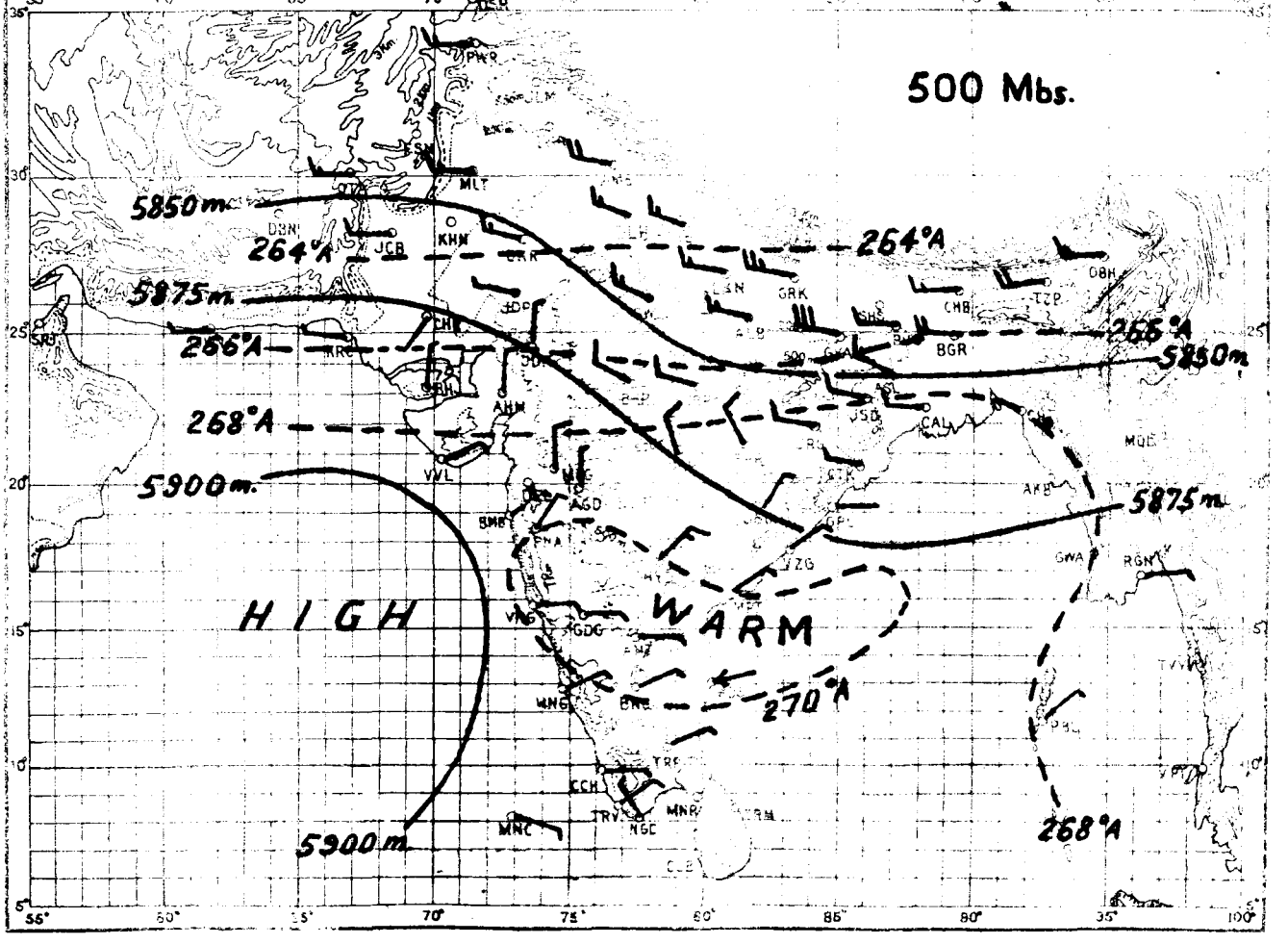
- - - - *Isotherms in degrees Absolute* —— *Contours in geopotential Metres.*

MONTHLY MEAN CONSTANT PRESSURE CHARTS

OCTOBER 1951

Plate II





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

- - - - Isotherms in degrees Absolute ——— Contours in geopotential Metres.

Registered No. B-3097

INDIA WEATHER REVIEW, 1951

Monthly Weather Report

November

Published by authority of the Government of India

Chief features : (I) Northward movement of a cyclonic storm in the east Arabian Sea, (2) passage of an active western disturbance from north Gujarat and the adjoining south Rajasthan to the hills of the Punjab (1) during the last week and, (3) two spells of active northeast monsoon.

The month began with weak northeast monsoon in the south Peninsula. Active monsoon conditions, however, prevailed in Tamilnad, Malabar and South Kanara, and Travancore-Cochin between the 8th and the 12th. The rainfall decreased thereafter along the Coromandel coast, but continued to be fairly widespread or local in Travancore-Cochin up to the 18th, chiefly under the influence of markedly unsettled conditions which developed in the southeast Arabian Sea by the 12th morning and concentrated into a depression with central region near Lat. 10°N., Long 65°E.,' the same evening. The depression moved in a northerly direction and intensified into a cyclonic storm by the morning of the 14th when it was centred near Lat. 13½°N., Long. 65°E. Thereafter, it took a north-northeasterly course and became severe by the morning of the 16th with its centre about 400 miles west of Bombay. Continuing along the same course, it weakened rapidly into a depression within the next 24 hours probably retaining a small core of strong winds near the centre and lay off the Kathiawar coast about 150 miles to the west of Veraval. It weakened further and became unimportant by the morning of the 19th. Under its influence, locally very heavy rain occurred in northwest Saurashtra on the 18th. An exceptionally heavy fall of 14" within 24 hours, the heaviest fall on record during last 50 years, was reported by Dwarka on the morning of the 18th out of which nearly 12 inches fell within 9 hours, *i.e.* between 2330 hrs. IST of the 17th and 0830 hrs. IST. of the 18th. According to newspaper reports, fourteen persons were drowned in Dwarka, and breaches in railway tracks occurred at three places between Bhatia and Varvala isolating okha the tip of the Peninsula.

The dry spell in Tamilnad was interrupted on the 18th when the northeast monsoon strengthened along the Coromandel coast in association with markedly unsettled conditions which appeared on the 16th evening in the southwest Bay of Bengal off Ceylon. These moved away westwards as a low pressure wave across the extreme south of the Peninsula by the 19th morning. Widespread rain occurred in Tamilnad and Travancore-Cochin between the 18th and the 21st, with locally very heavy falls in Tamilnad. Local or widespread showers also occurred in Malabar and south Kanara between the 16th and the 21st. Cuddalore reported a very heavy fall of 10·5" on the 18th morning and a further fall of 6·1" the next day. Madras (Nungambakkam) also reported 6·5" on the 19th morning. The Vaigai river was reported to be in spate on account of these heavy rains and the causeway across this river at Madura had to be closed temporarily to traffic on account of the overflowing water. Most of the tanks in Tamilnad were completely filled and the proposed cut of 2 million gallons in the supply of drinking water to the Madras city was suspended much to the relief of the general public.

The westward movement of the low pressure wave mentioned above, accentuated the trough of low pressure already existing in the east Arabian Sea and conditions became markedly unsettled in the Laccadives area by the morning of the 21st. They, however, became unimportant by the 23rd morning after causing local or widespread rain along the west coast and in Deccan (Desh) on the 22nd and 23rd.

Weather became markedly unsettled in the southeast Bay of Bengal by the 23rd morning and a depression formed the next morning with centre near Lat. 12°N., Long. 85°E. The depression took a northnorthwesterly course, deepened and was centred about 50 miles south of Vishakapatnam on the 25th morning. It weakened rapidly by the same evening into a trough of low pressure off the Orissa coast which moved away northeastwards as a low pressure wave. In association with this depression widespread and locally heavy rain occurred successively in the northern districts of coastal Andhradesa, in Orissa, Gangetic West Bengal and Assam between the 25th and the 27th.

Almost simultaneouly with the above depression, a secondary western disturbance appeared over north Gujarat and the adjoining south Rajasthan on the 23rd. Unlike the two dry western disturbances which traversed northwest India between the 4th and 6th, and the 12th and 13th, respecrively this one was fairly active. Moving northeastwards, it finally passed away across the hills of the Punjab (I) by the morning of the 26th. In association with this disturbance, widespread thundershowers occurred in the Punjab (I), west Rajasthan, west Uttar Pradesh and north Gujarat on

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the 25th and in the Punjab (I) and west Uttar Pradesh on the 26th, with locally very heavy falls. Faizabad, Khora, Ambala and Dharampur reported 5.6", 5.5", 5.3" and 5.1" respectively. This spell of wet weather in northwest India and Gujarat was very vital as it came after an almost continuous drought of 3½ months in these parts. Reports of snowfall in the interior of Himachal Pradesh and higher regions of Kashmir on the 26th also appeared in the Press. The temperature at Simla fell down to the freezing point for the first time in the season, on the 26th morning.

The northeast monsoon again strengthened in Tamilnad and Travancore-Cochin towards the end of the month, and widespread rain occurred there on the 29th and the 30th. Cuddalore reported 4" of rain successively on these two days.

Night temperatures were markedly above normal over the belt of the country extending from west Uttar Pradesh to Saurashtra and Kutch between the 16th and 18th and over the region extending from south Rajasthan and south Madhya Bharat to Hyderabad on the 21st. They were again 10°–20°F above normal in northwest India, west Uttar Pradesh, Madhya Bharat, north Gujarat and Saurashtra and Kutch on the 24th and the 25th.

Total rainfall for the month was in large excess in Assam, West Bengal, west Uttar Pradesh. the Punjab (I), Rajasthan, Saurashtra and Kutch and Travancore-Cochin, in moderate excess in the Konkan, in slight excess in Orissa, Tamilnad, Malabar and south Kanara, and normal in Chota Nagpur. It was in slight defect in the Bay Islands and Bihar, in moderate defect in Deccan (Desh), coastal Andhradesa and Mysore and in large defect in east Uttar Pradesh, Madhya Bharat, Vindhya Pradesh, Madhya Pradesh, Gujarat, Hyderabad, Rayalaseema. Averaged over the plains of India, the rainfall was 14% in excess.

The mean maximum temperature was normal in the Bay Islands, Assam, West Bengal, Orissa, west Rajasthan, Tamilnad, Malabar and south Kanara, Mysore and Travancore-Cochin. It was above normal over the rest of the country.

The mean minimum temperature was above normal in the Bay Islands, Bihar, Uttar Pradesh, the Punjab (I), Rajasthan, Madhya Bharat, Gujarat, Saurashtra and Kutch, the Konkan, Deccan (Desh), Rayalaseema, Tamilnad, Malabar and south Kanara and Mysore. It was normal elsewhere.

The mean relative humidity was above normal in the Punjab (I) and Mysore, below normal in Gujarat and normal elsewhere.

The mean cloud amount was above normal in the Bay Islands, Assam, Uttar Pradesh, the Punjab (I), Rajasthan, Madhya Bharat. Gujarat, Saurashtra and Kutch, Tamilnad, Malabar and south Kanara, and Travancore-Cochin, below normal in Orissa, Chota Nagpur, Vindhya Pradesh, east Madhya Pradesh and normal elsewhere.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amounts for the 13 chief political divisions and the 27 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 21st February 1952

S. BASU,
for *Director General of Observatories.*

—	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division									
1. Assam (including Manipur and Tripura).	1·80	1·04	+0·76	+73	+0·4	+1·2	+0·7	+3	+0·8
2. West Bengal .	1·53	0·75	+0·78	+104	+1·3	+1·8	+1·6	+3	−0·1
3. Orissa . .	1·96	1·77	+0·19	+11	+0·5	+1·4	+1·6	+5	−0·5
4. Bihar . . .	0·38	0·43	−0·05	−12	+2·5	+2·2	+1·5	−1	−0·3
5. Uttar Pradesh .	0·40	0·22	+0·18	+82	+2·8	+3·7	+1·4	0	+0·6
6. Punjab (I) (including PEPSU and Delhi).	1·81	0·12	+1·69	+1408	+2·6	+4·5	+2·1	+6	+0·9
7. Rajasthan . .	0·87	0·16	+0·71	+444	+1·7	+4·5	+1·2	+1	+0·9
Sub-Division									
1. Bay Islands .	8·25	10·52	−2·27	−22	+1·6	+2·4	+1·8	+4	+1·2
2. Assam (including Manipur & Tripura).	1·80	1·04	+0·76	+73	+0·4	+1·2	+0·7	+3	+0·8
3. West Bengal .	1·53	0·75	+0·78	+104	+1·3	+1·8	+1·6	+3	−0·1
4. Orissa .	1·96	1·77	+0·19	+11	+0·5	+1·4	+1·6	+5	−0·5
5. Chota Nagpur .	0·55	0·56	−0·01	−2	+2·2	+0·8	+0·8	−3	−0·8
6. Bihar . .	0·30	0·37	−0·07	−19	+2·7	+3·1	+2·0	0	0
7. Uttar Pradesh, East.	0·03	0·25	−0·22	−88	+3·4	+3·5	+0.6	−2	+0·5
8. Uttar Pradesh, West.	0·76	0·19	+0·57	+300	+2·3	+3·9	+2·1	+3	+0·7
9. Punjab (I) (including PEPSU & Delhi).	1·81	0·12	+1·69	+1408	+2·6	+4·5	+2·1	+6	+0·9
10. Jammu and Kashmir.	Data incomplete								
11. Rajasthan, West	0·66	0·04	+0·62	+1550	+0·9	+4·7	+2·0	+5	+1·0
12. Rajasthan, East (including Ajmer).	1·08	0·28	+0·80	+286	+2·4	+4·3	+0·5	−2	+0·8
13. Madhya Bharat .	0·20	0·70	−0·50	−71	+4·4	+4·5	−0·2	−3	+0·6
14. Vindhya Pradesh	0	0·47	−0·47	+100	+4·9	+1·6	+0·6	−5	−0·7

—	Rainfall.				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—*contd.*									
8. Madhya Bharat & Vindhya Pradesh	0·11	0·60	−0·49	−82	+4·6	+3·6	+0·2	−4	0
9. Madhya Pradesh .	0·01	0·67	−0·66	−99	+3·0	+1·6	−0·2	−5	0·4
10. Bombay (including Saurashtra & Kutch).	1·43	0·88	+0·55	+63	+3·0	+3·0	+0·7	−2	+0·2
11. Hyderabad .	0·05	1·05	−1·00	−95	+2·4	+1·8	+0·4	−3	−0·2
12. Madras (including Travancore-Cochin).	7·39	6·64	+0·75	+11	+1·4	+2·1	+1·5	+1	+0·9
13. Mysore . .	1·70	2·73	−1·03	−38	+1·4	+3·4	+2·3	+6	+0·5
Mean of India .	1·65	1·45	+0·20	+14	+2·3	+2·8	+1·0	0	+0·3
Sub-Division—*contd.*									
15. Madhya Pradesh, East.	0·03	0·69	−0·66	−96	+2·2	+1·2	−0·3	5	−0·7
16. Madhya Pradesh, West.	0	0·67	−0·67	−100	+3·5	+1·9	−0·1	−5	−0·3
17. Gujarat . .	0·16	0·48	−0·32	−67	+4·4	+3·8	−1·1	9	+0·3
18. Saurashtra & Kutch.	3·23	0·16	+3·07	+1919	+2·1	+3·6	+1·1	+5	+0·7
19. Konkan . .	1·74	1·29	+0·45	+35	+2·6	+2·4	+1·8	0	+0·4
20. Deccan (Desh) .	0·91	1·23	−0·32	−26	+2·9	+2·5	+0·8	−3	−0·1
21. Hyderabad, North.	0·01	0·97	−0·96	−99	+2·2	+1·7	0	−3	0
22. Hyderabad, South	0·09	1·13	−1·04	−92	+2·6	+1·9	+0·7	−2	−0·3
23. Coastal Andhradesa.	3·76	5·67	−1·91	−34	+2·0	+1·4	+1·0	+1	0
24. Rayalaseema .	0·55	2·27	−1·72	−76	+2·7	+3·4	+1·2	−5	+0 5
25. Tamilnad . .	11·30	9·33	+1·97	+21	+0·9	+2·1	+1·3	+1	+1·0
26. Malabar & South Kanara.	4·97	4·15	+0·82	+20	+1·7	+2·5	+3·5	+3	+1·9
27. Mysore . .	1·70	2·73	−1·03	−38	+1·4	+3·4	+2·3	+6	+0·5
28. Travancore-Cochin	12·96	6·83	+6·13	+90	−0·1	+0·9	+2·4	+5	+1·9

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T	Departure from normal	Mean 1730 hrs. I.S.T	Mean.	Departure from normal	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bay Islands																						
Port Blair	259	1002·9	—0·3	1000·2	85·5	+1·6	87	30	75·9	+2·4	74	1	82·7	79·6	78·1	76·1	31·0	+1·8	29·3	80	+4	85
Assam																						
Dibrugarh	348	1003·6	—1·1	1000·5	79·3	—0·3	85	8	62·3	+2·3	51	30	66·7	69·4	65·3	66·2	20·6	+0·8	20·8	90	+8	82
Mohanbari (R)	364																					
Sibsagar	317	1005·5	—0·2	1001·8	78·4	+0·3	85	8	60·7	+0·9	51	30	69·1	69·8	66·4	67·4	21·2	+0·4	21·7	87	—2	88
Tezpur	258	1007·5	—0·5	1003·1	81·7	+0·8	86	4,9	62·3	+0·7	54	30	68·0	73·0	65·7	68·3	20·3	+0·3	21·8	88	+7	77
Gauhati D. Type	162	1009·9	..	1006·3	80·3	..	85	3	61·4	..	55	30	70·2	71·0	67·2	68·2	21·4	..	22·0	85	..	87
Gauhati	182	1009·8	0	1004·6	80·3	—1·0	85	22	62·1	+0·7	54	30	69·1	73·6	66·8	68·4	21·2	+0·4	21·6	89	+3	75
Dhubri	115	1012·0	0	1008·4	78·2	—1·2	83	9	66·6	+2·6	58	28	70·4	74·1	67·7	69·6	22·1	+1·7	22·7	87	+8	79
Silchar	96	1011·6	—0·8	1008·3	84·5	—0·4	88	2,9,12	64·4	+0·9	57	30	72·0	76·9	68·1	71·1	21·6	—0·1	23·1	81	+1	74
Tura	1,215	973·9	..	970·7	80·2	..	85	2	62·4	..	54	29	67·6	70·5	63·2	68·3	17·9	..	23·0	78	..	89
West Bengal																						
Dum Dum	33	1013·7	..	1010·3	84·6	..	89	10	66·3	..	59	29, 30	74·7	77·5	67·9	68·9	20·0	..	20·4	69	..	61
Calcutta	21	1014·1	—0·5	1010·7	85·1	+0·9	89	6 days	66·9	+3·2	59	30	74·8	76·7	69·4	69·7	21·9	+1·7	21·7	75	—1	69
Saugor Island	10	1013·6	—1·0	1010·6	82·6	+0·3	86	8, 10	70·2	+2·8	61	30	76·8	77·6	71·2	71·1	23·7	+1·1	23·0	75	0	72
Sandheads	32	1013·0	—0·6	1010·4	..	..	..	..	..	..	..	..	79·9	80·2	71·4	71·3	22·4	—0·6	22·0	63	+1	64
Midnapore	149	1009·7	—0·4	1006·2	84·6	+0·2	89	4, 10	63·4	+0·1	56	23	74·0	77·7	67·9	69·9	20·7	+2·7	21·2	72	+6	67
Contai	35	1013·0	..	1009·8	84·4	..	89	4	67·7	..	59	30	73·2	78·1	69·2	72·0	22·6	..	24·2	81	..	73
Burdwan	106	1010·7	—1·1	1006·3	87·0	+3·1	90	6 days	65·1	+1·2	58	23, 30	72·9	78·9	67·9	70·4	21·0	+2·2	21·5	75	+6	64
Krishnagar	48	1013·2	—0·6	1009·9	86·9	+2·6	91	4,9,10	62·9	+0·6	55	24	72·6	77·5	68·1	70·4	21·5	+1·7	22·3	79	+10	69
Asansol	414	1000·6	—0·5	996·8	85·2	+1·3	89	4 days	62·6	+2·6	55	30	72·2	78·4	65·9	67·7	18·7	+1·8	18·6	72	+3	55
Berhampore	62	1013·0	—0·5	1009·2	87·7	+4·9	93	4 days	64·2	+0·5	57	23,29	73·2	78·3	68·0	70·3	21·3	+1·5	21·7	76	+1	66
Malda	103	1011·7	—0·4	1008·0	82·7	+0·4	87	2	63·4	+2·3	55	22	73·2	76·7	68·1	69·4	21·3	+1·8	21·0	76	+4	68
Cooch-Behar (R)	145																					
Jalpaiguri	271	1006·3	—0·2	1002·5	81·8	—0·2	85	4 days	63·2	+2·4	55	28	68·2	76·0	64·8	68·9	19·3	+0·3	21·1	83	+3	69
Bagdogra	418	1001·1	..	997·3	82·7	..	87	12,18	60·4	..	50	28	71·4	71·1	66·5	67·7	19·9	..	21·5	76	..	84
Orissa																						
Balasore	65	1012·3	—0·8	1009·0	84·4	+0·1	89	10	65·7	+2·5	59	30	72·6	77·0	67·7	71·3	20·8	+1·7	23·9	77	+6	75
Chandbali	20	1014·3	—0·1	1011·1	84·3	+0·2	89	22	67·1	+1·6	59	23,30	74·5	77·0	70·3	70·6	23·7	+2·6	22·5	80	+3	73
Puri	20	1013·8	—0·5	1010·8	84·1	—0·5	88	4 days	70·2	+1·0	65	24,26,30	75·5	79·0	70·6	71·3	23·3	+1·6	23·0	77	+5	68
Cuttack	87	1011·4	—1·1	1008·2	85·2	+0·2	90	8	67·9	+2·1	62	4 days	73·3	79·1	68·7	69·9	22·0	+1·8	21·1	78	+4	62
Gopalpur	56	1012·6	—0·4	1009·4	84·4	+0·3	90	23	68·1	+0·8	63	24	73·9	79·2	69·9	71·5	23·1	+1·5	23·2	81	+9	67
Koraput	2,996	903·2	..	910·5	79·1	..	83	21	57·6	..	50	14,30	66·8	70·8	62·7	63·2	17·9	..	16·9	78	..	64
Angul	455	959·5	+0·1	995·9	84·4	+0·6	88	21	63·8	+1·5	57	24	70·6	79·6	66·2	68·1	19·9	+1·0	18·3	78	+6	5
Sambalpur	486	998·0	—0·8	994·3	85·2	+1·3	89	1,4	61·2	—0·1	55	24,30	69·8	78·2	65·2	68·5	19·3	+1·2	19·6	77	+5	5
Jharsuguda	726	989·8	...	986·2	..	..	..	..	..	..	..	..	71·5	73·8	64·3	64·9	17·4	..	16·9	66	..	6
Titilagarh	691	990·9	..	987·0	86·1	..	90	5 days	62·9	..	57	23,24,30	71·2	80·3	65·8	68·3	19·1	..	18·2	74	..	5
Chota Nagpur																						
Purulia	835	986·7	..	982·9	84·3	..	88	4,5,6	62·3	..	56	22,29,30	71·7	76·4	65·4	67·9	18·3	..	19·4	69	..	6
Jamshedpur	423	1000·4	—0·3	996·6	85·5	+0·5	89	6 days	61·2	+2·2	53	22,23	68·7	77·8	63·6	67·1	17·9	+1·5	18·1	74	+3	5
Chaibasa	742	989·4	—0·3	985·7	84·9	+2·0	89	4 days	60·5	+0·8	53	23	68·9	77·6	63·7	66·2	18·0	+0·7	16·7	74	0	5
Ranchi	2,150	940·8	—1·0	938·3	80·2	+2·7	86	4,5,6	57·5	+0·3	50	29,30	70·7	71·2	61·2	60·9	14·6	+1·2	13·8	58	0	5
Hazaribagh	2,006	946·5	0	943·5	80·1	+2·5	84	6 days	56·3	—0·9	48	30	70·0	70·7	60·6	60·0	14·2	+0·9	13·5	58	+1	5
Daltonganj	725	990·3	—0·7	986·3	85·8	+3·4	92	2	56·1	+1·7	47	22,30	69·9	75·9	61·5	64·7	14·7	—0·3	16·0	59	—17	5
Dhanbad	839	985·8	..	982·4	84·4	..	90	4	61·1		52	30	73·2	76·7	64·9	65·3	17·0	..	16·1	62	..	5

(R) Register not received.

Cloud amount (Oktas)			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity miles per hour.		Wind direction—Number of winds from :—																		STATION.
											0830 hrs. I.S.T.									1730 hrs. I.S.T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	93	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bay Islands
5·8	+1·2	5·2	8·25	−2·27	2·49	21	12	−1·6	5·5	−2·9	1	15	10	1	1	0	1	0	1	0	10	10	4	1	1	0	0	4	Port Blair
																													Assam
4·1	+1·5	2·9	2·49	+1·17	0·55	28	8	+5·5	0·5	−0·1	0	11	10	2	0	1	0	0	6	0	3	4	1	0	0	0	0	22	Dibrugarh
																													Mohanbari (R)
5·2	−0·2	2·0	2·10	+0·88	0·78	2	4	+1·7	2·0	+0·9	3	9	1	4	2	1	0	5	5	8	6	1	2	0	0	0	4	9	Sibsagar
2·5	+0·2	1·7	2·76	+1·86	1·62	9	4	+2·2	1·0	−0·5	2	12	9	0	0	0	0	0	7	1	4	3	0	0	0	0	0	22	Tezpur
2·7	..	1·8	0·75	..	0·43	27	2	..	1·7	..	0	19	1	1	2	0	2	1	4	0	4	0	0	1	0	0	0	25	Gauhati D. Type
3·8	+1·2	2·1	0·58	+0·03	0·36	27	2	+0·8	1·7	+0·6	5	7	4	6	4	0	0	1	3	0	0	2	3	2	1	0	0	22	Gauhati
4·0	+2·3	2·8	1·61	+1·21	1·35	3	3	+2·3	3·9	−0·1	2	18	7	2	0	0	0	0	1	3	12	5	1	2	1	0	0	6	Dhubri
2·2	−0·3	1·1	2·31	+0·56	1·03	3	3	+0·9	0·5	−0·5	0	3	6	5	1	0	0	0	15	0	1	1	0	0	0	0	0	28	Silchar
2·1	..	2·4	1·71	..	1·10	3	3	..	2·9	..	1	3	5	3	2	1	0	0	15	1	7	7	9	1	0	0	0	5	Tura
																													West Bengal
1·5	..	2·1	1·94	..	1·61	26	3	..	1·9	..	11	7	6	1	0	0	0	5	0	6	2	2	1	2	1	0	13	3	Dum Dum
1·2	−0·6	1·6	1·97	+1·16	1·85	26	2	+0·9	1·8	−0·1	2	3	2	0	0	0	1	1	21	0	0	0	2	2	0	0	1	25	Calcutta
2·1	−0·5	3·1	1·79	+0·51	0·66	26	5	+3·7	5·9	+0·4	6	14	4	0	0	0	2	4	0	7	10	2	1	2	4	1	3	0	Saugor Island
2·5	−0·3	2·3	1·15	−1·60	0·48	26	4	+1·5	..	..	9	14	0	0	0	0	0	5	2	9	4	1	4	0	0	1	3	8	Sandheads
1·1	−0·7	0·9	1·68	+0·81	1·60	26	1	−0·1	1·7	+0·4	14	8	0	0	1	1	0	0	6	2	6	2	0	0	0	0	0	20	Midnapore
1·5	..	1·7	2·57	..	1·88	26	3	..	2·4	..	17	4	0	0	0	1	0	4	4	5	1	1	5	1	1	0	0	16	Contai
1·1	−0·6	0·4	0·65	−0·21	0·48	27	2	+1·0	1·4	+0·2	9	4	1	0	1	2	1	5	7	3	1	1	0	0	0	0	2	23	Burdwan
1·6	−0·1	2·1	1·65	+0·67	1·50	26	2	+0·8	1·2	0	8	8	0	0	1	1	2	2	8	0	1	1	0	1	2	4	0	21	Krishnagar
0·9	−1·2	1·8	0·80	+0·23	0·72	26	1	0	1·9	−1·2	1	0	0	1	0	0	8	12	8	1	0	1	0	0	0	0	2	26	Asansol
2·0	+0·2	1·7	1·84	+1·19	0·85	26	3	+2·3	0·5	−0·5	3	0	4	0	4	1	0	1	17	0	0	0	0	0	0	0	1	29	Berhampore
1·6	+0·8	1·9	1·04	+0·59	0·60	4	2	+1·3	2·1	−0·3	7	9	3	3	3	1	0	1	3	2	3	1	0	0	0	0	4	20	Malda
																													Cooch Behar (R)
2·7	+1·6	2·5	1·78	+1·29	0·88	1	4	+3·2	2·4	+1·4	14	10	2	2	0	0	1	0	1	1	1	4	0	0	3	0	0	21	Jalpaiguri
3·0	..	2·8	0·46	..	0·27	1	1	..	0·7	..	3	4	6	0	0	0	0	1	13	0	0	0	0	0	0	0	0	25	Bagdogra
																													Orissa
2·2	0	2·9	1·20	−0·30	0·94	26	2	+0·5	2·4	+0·8	18	4	1	0	0	1	0	5	1	2	1	0	3	1	0	0	0	23	Balasore
2·2	−0.5	2·3	3·54	+1·89	1·70	1	4	+2·5	3·2	0	6	2	1	0	0	0	6	15	0	5	6	8	6	2	0	1	1	1	Chandbali
2·1	−0·3	2·7	3·58	+0·39	1·60	26	5	+2·6	5·5	−0·2	12	12	0	0	0	0	0	5	1	2	11	1	6	3	1	0	0	6	Puri
1·9	−0·6	1·8	2·24	+0·62	1·50	26	3	+1·4	2·5	+1·3	0	3	0	0	0	0	0	0	27	0	3	0	0	0	0	0	0	27	Cuttack
2·4	+0·2	2·7	2·10	−1·83	0·84	26	4	+1·2	6·3	+0·1	19	1	0	0	0	0	0	9	1	7	5	11	6	0	0	0	0	1	Gopalpur
2·5	..	3·0	2·72	..	1·72	26	3	..	..	..	0	7	6	5	8	4	0	0	0	18	2	3	2	1	0	1	3	0	Koraput
1·6	−1·1	1·9	2·02	+0·91	2·02	26	1	−0·4	2·8	−0·2	1	1	0	0	1	2	18	6	1	6	2	1	4	3	0	2	1	11	Angul
1·3	−0·8	1·9	0·67	−0·14	0·39	26	2	+1·0	1·8	−0·3	8	10	3	0	0	0	0	0	9	2	8	1	0	1	1	2	0	15	Sambalpur
1·3	..	1·2	0·30	..	0·28	26	1	..	..	..	16	7	1	1	0	0	0	0	5	1	0	1	0	0	0	0	0	28	Jharsuguda
1·7	..	2·3	0·67	..	0·54	26	2	..	1·5	..	3	4	1	4	5	3	2	1	7	2	2	0	0	0	0	0	0	26	Titilagarh
																													Chota Nagpur
1·0	..	1·5	1·76	..	1·24	1	2	..	1·3	..	0	0	0	1	0	0	8	14	7	0	0	0	1	0	0	1	3	25	Purulia
0·9	1·3	1·3	1·14	+0·77	1·12	26	1	+0·3	2·0	+0·4	0	0	0	1	0	0	15	7	7	1	2	4	2	1	0	3	0	17	Jamshedpur
1·2	−0·8	2·1	1·41	+0·71	1·41	26	1	0	0·9	−0·3	0	1	0	0	0	3	0	0	26	0	0	0	0	0	0	0	1	29	Chaibasa
0·7	−1·1	1·1	0·10	−0·51	0·10	26	1	0	1·5	−1·2	2	1	1	1	1	0	0	0	24	1	0	0	0	0	0	0	1	28	Ranchi
1·1	−0·4	1·0	0·08	−0·48	0·08	26	0	−0·9	3·2	−1·1	1	1	0	3	5	7	0	3	10	5	0	0	1	1	0	0	19	4	Hazaribagh
0·8	−0·4	1·0	0	−0·56	0	..	0	−0·8	1·2	−0·3	0	1	7	9	0	0	1	0	12	0	2	7	3	0	0	1	2	15	Daltonganj
1·7	..	1·7	0·16	..	0·16	26	1	..	3·0	..	1	4	1	1	2	4	6	4	7	4	1	1	1	1	0	4	10	8	Dhanbad

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I. S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bihar																						
Purnea	124	1011·5	—0·2	1007·4	83·0	+0·6	87	8	60·9	+2·3	51	29	71·0	72·3	67·0	68·8	20·8	+2·1	22·5	81	0	83
Darbhanga	161	1010·1	—0·2	1006·2	83·5	+0·6	88	9	63·3	+3·8	54	22	70·7	75·4	67·6	69·8	21·8	+3·2	22·5	84	+9	74
Motihari	218	1008·0	—0·3	1004·1	84·5	+2·3	89	3,19,21	60·8	+4·8	51	30	73·6	73·3	68·0	68·3	21·0	+3·0	21·3	73	—2	77
Patna	173	1009·2	—0·9	1005·5	86·6	+4·5	92	3	63·7	+2·7	54	30	73·8	78·6	65·5	66·8	17·5	+0·6	16·9	63	—2	52
Dehri	352	1002·6	..	998·9	87·3	..	93	1,2	60·9	..	53	30	70·2	80·1	62·5	66·4	16·0	..	16·2	63	..	45
Gaya	365	1002·3	—0·9	998·5	86·5	+5·2	92	3,5	59·5	+2·5	51	30	71·1	75·1	62·2	64·7	15·0	+0·7	16·1	58	—6	45
Jamui	270	1005·5	..	1001·8	86·0	..	91	5	61·2	..	54	22,29,30	70·2	77·5	64·7	66·6	18·4	..	17·2	73	..	53
Dumka	489	997·8	—0·9	994·6	85·3	+2·9	91	1	..	..	..	..	72·9	76·9	65·9	67·8	18·6	+1·4	19·2	68	+1	59
Sabour	122	1011·0	—0·1	1009·5	84·8	+2·6	90	3,5	60·4	+3·5	51	22,29	72·5	74·7	67·4	68·7	20·7	+3·0	21·3	77	+1	73
Bhagalpur	181	1009·6	..	1005·9	87·0	..	93	8	64·1	..	56	29,30	74·6	76·6	67·7	68·6	19·9	..	20·3	69	..	65
U.P., East																						
Gonda	360	1002·8	..	999·2	85·9	+2·2	92	1,3	58·3	+3·4	49	30	65·4	76·5	61·4	65·9	16·8	+1·9	15·9	78	+3	51
Gorakhpur	254	1005·9	—1·0	1001·9	85·0	+2·9	91	1,2	61·8	+4·5	53	30	71·3	78·7	64·9	67·0	17·8	+1·1	17·8	69	—4	51
Azamgarh	255	1005·7	..	1001·6	88·4	..	97	1	58·1	..	47	30	69·1	78·6	60·7	67·7	14·2	..	18·4	68	..	56
Banaras	250	1006·3	—1·0	1002·8	87·1	+4·1	95	1	57·8	+1·9	50	30	66·5	79·9	60·0	65·0	14·8	—0·6	14·2	68	0	41
Allahabad (Bamrauli).	322	1003·7	—1·1	1000·1	87·3	+3·9	93	1,2	58·0	+3·7	50	29,30	70·6	79·5	61·8	66·1	14·9	+0·5	15·4	58	—9	46
Fatehpur	375	1002·1	..	998·4	87·8	+2·9	95	1	58·2	+3·5	49	30	67·8	80·6	60·2	65·7	14·5	+0·4	14·9	62	+2	43
Banda	398	1001·2	..	997·6	89·4	..	96	1	58·3	..	50	29,30	68·8	81·5	60·4	67·3	14·0	..	16·7	59	..	46
Orai	463	998·6	..	995·3	87·5	..	94	6	58·9	..	51	29	68·7	81·1	58·3	(b) 64·3	12·1	..	(b) 13·3	52	..	(b) 38
Kanpur	414	1000·6	—0·8	997·3	87·3	+4·5	94	5,6	58·2	+4·3	50	21,29,30	69·6	79·3	60·0	63·9	13·7	0	13·0	55	—12	39
Lucknow	371	1002·4	—0·5	998·9	87·4	+3·5	95	1	58·0	+3·9	50	29,30	66·0	75·9	60·5	64·8	14·5	+0·3	16·1	72	+2	55
Hardoi	467	997·3	..	994·8	86·1	..	93	6	56·8	..	49	20	62·5	79·7	57·2	65·7	13·7	..	15·4	67	..	41
Kheri	483	998·5	..	994·7	83·3	..	91	1	57·1	..	48	29	65·5	73·9	61·2	65·5	16·5	..	17·6	78	..	62
Bahraich	407	1001·2	—0·1	997·6	85·9	+2·9	93	1	59·0	+2·9	47	30	68·4	78·3	62·7	64·9	16·9	+1·5	15·0	72	—1	46
U.P., West																						
Jhansi	823	986·6	—1·2	982·8	89·1	+3·7	96	5,6	59·8	+4·9	51	29,30	70·3	82·4	59·4	64·3	12·3	+0·4	12·6	46	—5	35
Agra	553	995·6	—1·1	992·4	86·8	+2·4	94	5,11,13	57·5	+5·6	49	19,20,30	63·5	81·5	56·3	64·2	12·2	+1·7	12·1	63	+9	37
Mainpuri	516	997·1	—0·7	994·1	88·2	+3·6	96	5	56·7	+3·5	48	21,30	66·4	79·6	61·1	68·4	15·5	+3·6	17·7	73	+12	54
Aligarh	615	996·8	..	990·1	85·9	+2·2	94	5	56·7	+2·6	48	20	64·4	78·2	57·8	66·0	13·3	+3·2	16·4	65	+15	52
Bareilly	568	995·0	—0·9	991·8	83·9	+2·3	90	1	58·2	+4·7	51	19,21,22	66·3	74·6	60·6	63·4	15·5	+1·7	15·4	71	—3	52
Meerut	728	989·6	—0·6	..	83·6	+2·0	91	5	55·0	+4·1	46	21	62·9	..	57·4	..	13·7	+2·5	..	70	+1	..
Roorkee	899	983·5	—0·9	980·4	80·8	+1·2	87	1,2	53·3	+3·6	46	22,30	61·0	73·2	56·9	62·5	14·0	+2·1	14·4	77	+1	53
Dehra Dun	2,239	938·1	—0·4	936·2	76·4	+1·0	82	1	53·4	+2·3	46	28	60·8	68·8	55·5	62·6	12·7	+1·9	16·7	70	—5	70
Punjab (I)																						
New Delhi	710	989·8	—1·1	986·8	84·8	+1·6	92	2,3,5	57·7	+5·9	50	20,21,29	65·5	76·4	55·2	61·9	10·3	+1·3	14·2	50	0	42
Hissar	725	989·3	—1·4	986·7	86·8	+2·5	95	2,4,12	53·8	+4·0	45	21	58·8	82·4	52·2	64·1	10·5	+1·8	12·1	63	+9	35
Karnal	818	986·1	..	983·4	82·7	..	92	5	54·2	..	47	20,21	60·5	76·1	55·1	62·5	12·0	..	13·2	69	.	45
Ambala	892	982·2	—2·2	980·1	85·1	+3·0	92	4 days	54·4	+4·5	45	21	60·7	77·4	56·5	66·5	14·1	+3·6	16·9	78	+15	57
Patiala	822	985·7	..	983·6	83·7	..	91	4 days	54·0	..	44	21	62·5	76·6	56·1	62·4	12·7	..	13·4	65	..	44
Ludhiana	810	986·1	—1·3	983·8	84·7	+3·3	93	2,3,4	54·5	+3·5	45	20	61·5	80·0	54·8	63·2	11·6	+1·7	12·3	64	0	41
Ferozepore	657	991·9	..	988·7	84·0	..	95	2	(d) 51·4	..	43	19,20	57·7	76·5	53·4	63·5	12·0	..	14·5	73	..	47
Amritsar	756	987·7	..	985·4	82·2	..	90	6	50·2	..	42	18,19	59·2	75·0	54·9	61·7	12·5	..	13·0	75	..	45

(b) Mean of 29 days. (d) Mean of 27 days.

Cloud amount, (Oktas)			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from >																		STATION.
											0830 hrs. I.S.T.									1730 hrs. I. S. T.									
Noon 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bihar
1·8	+0·8	1·6	0·57	+0·23	0·34	3	2	+1·5	1·3	+0·3	0	2	16	0	0	2	0	1	9	0	0	0	0	0	0	0	0	30	Purnea
0·8	−0·2	0·7	1·22	+0·95	1·10	28	2	+1·6	0·2	−0·7	0	1	12	1	0	2	0	0	14	0	1	0	0	0	0	0	0	29	Darbhanga
0·7	0	0·4	0·20	−0·04	0·20	28	1	+0·7	1·0	−0·6	0	0	14	1	0	0	0	0	15	0	0	1	0	0	0	0	0	29	Motihari
1·1	0	0·8	0	−0·34	0	..	0	−0·5	2·3	+0·8	0	2	0	7	6	5	2	3	5	1	2	1	0	1	4	0	3	18	Patna
0·9	..	0·7	0	−0·46	0	..	0	−0·7	2·0	..	0	0	0	3	6	18	1	0	2	6	1	0	0	0	0	0	7	16	Dehri
0·9	−0·3	1·0	0	−0·49	0	..	0	−0·7	1·4	−1·5	0	0	0	4	10	3	1	0	12	2	3	0	0	0	0	1	5	19	Gaya
1·2	..	2·0	0·08	..	0·08	26	0	..	1·8	..	0	1	9	3	1	1	2	7	6	1	1	0	0	0	0	0	5	23	Jamui
1·0	−0·2	1·3	0·62	+0·08	0·52	26	1	+0·2	1·3	+0·2	2	1	0	4	3	6	3	3	8	3	4	3	3	0	4	0	2	11	Dumka
1·4	0	1·8	0·29	−0·09	0·19	28	2	+1·3	1·8	−0·7	2	0	7	3	4	5	3	0	6	6	1	2	0	0	0	0	2	19	Sabour
0·7	..	1·2	0·31	..	0·22	26	1	..	1·9	..	0	2	7	2	2	1	4	0	12	8	3	4	1	0	0	2	2	10	Bhagalpur
																													U. P., East
1·3	+0·4	1·5	0	−2·20	0	..	0	−0·5	1·4	−0·3	0	1	8	2	0	0	0	2	17	0	0	0	0	0	0	0	0	30	Gonda
0·8	+0·2	0·7	0	−0·19	0	..	0	−0·3	1·1	+0·3	0	1	11	0	0	0	1	0	17	0	0	1	0	0	0	1	0	28	Gorakhpur
0·8	..	0·2	0	..	0	..	0	—	..	..	0	0	1	0	0	0	2	0	27	0	0	0	0	0	0	2	0	28	Azamgarah
1·4	+0·4	1·0	0	−0·37	0	—	0	−0·6	..	..	3	1	1	1	5	11	1	1	6	1	2	1	0	0	1	12	0	13	Banaras
1·4	+0·3	1·2	0·01	−0·30	0·01	26	0	−0·5	1·9	+0·2	0	2	2	5	3	7	3	1	7	2	2	2	0	0	0	2	2	20	Allahabad (Bamrauli)
1·2	+0·2	1·7	0·08	−0·01	0·08	26	0	−0·4	1·1	−0·4	0	1	0	0	1	0	3	2	23	0	0	0	0	0	0	0	1	29	Fatehpur
0·5	..	0·8	0	..	0	—	0	..	1·3	..	0	0	3	0	3	0	8	0	16	0	0	3	0	0	0	6	0	21	Banda
1·2	..	2·5	0·32	..	0·32	26	1	..	3·4	..	3	2	2	3	2	7	6	5	0	15	2	1	1	2	0	0	9	0	Orai
1·5	+1·0	2·0	0·15	−0·20	0·15	26	1	+0·6	3·1	+0·6	2	3	2	1	2	2	3	2	13	5	1	0	0	0	1	5	4	14	Kanpur
1·0	+0·2	1·3	0·04	−0·18	0·04	26	0	−0·4	1·2	+0·3	10	1	4	0	0	1	4	5	5	1	0	1	0	0	0	1	2	25	Lucknow
1·6	..	1·6	0·31	..	0·31	26	1	..	1·4	..	4	4	2	4	1	3	4	2	6	6	0	2	0	0	2	4	10	6	Hardoi
2·1	..	1·5	0·21	..	0·21	26	1	..	0·8	..	3	6	3	3	1	0	0	2	12	1	0	0	0	0	0	0	0	29	Kheri
1·9	+1·3	1·6	0	−0·28	0	..	0	−0·5	2·3	+1·1	2	2	6	7	0	0	0	0	13	0	2	0	0	0	1	0	5	22	Bahraich
																													U. P., West
1·0	+0·2	1·3	0·20	−0·09	0·20	26	1	+0·5	2·2	+0·5	0	3	2	0	0	0	2	0	23	1	0	0	0	0	0	2	0	27	Jhansi
0·9	+0·1	1·6	0·90	+0·76	0·65	25	2	+1·7	1·1	−1·0	0	0	0	3	0	0	0	1	26	0	0	0	0	0	0	0	0	30	Agra
2·0	+1·2	1·7	0·20	+0·05	0·12	26	1	+0·7	..	..	1	2	4	0	0	0	3	3	17	1	3	4	0	0	0	5	4	13	Mainpuri
2·0	+1·4	2·3	0·77	+0·74	0·55	25	2	+1·9	..	..	0	0	3	0	0	0	0	1	26	0	0	1	0	0	0	1	0	28	Aligarh
1·9	+1·2	1·7	0·70	+0·52	0·55	25	2	+1·7	0·8	0	0	3	4	1	0	0	0	1	21	0	0	0	0	0	0	0	0	30	Bareilly
1·4	+0·8	..	0·96	+0·83	0·49	25	2	+1·7	2·6	..	0	1	5	0	0	0	2	6	16	..	..	..	..	..	..	..	..	..	Meerut
1·8	+1·1	2·1	0·87	+0·64	0·71	25	2	+1·5	2·3	+1·3	1	1	2	11	0	0	0	2	13	0	0	0	2	0	0	0	7	21	Roorkee
1·8	−0·7	2·3	1·50	+0·48	0·90	25	2	+0·3	1·7	+0·2	2	2	0	0	0	3	0	0	23	0	1	0	1	0	0	1	0	27	Dehra Dun
																													Punjab (I)
2·0 (b)	+1·2	2·2	0·61	+0·51	0·52	25	1	+0·7	4·0	..	1	1	5	2	0	1	12	2	6	6	0	2	2	0	0	1	12	7	New Delhi
1·4	+0·8	1·3	0·26	+0·20	0·23	25	1	+0·8	2·6	+0·2	1	0	2	5	2	7	2	3	8	3	1	0	0	0	4	4	7	11	Hissar
1·5	..	2·1	0·73	..	0·69	25	1	..	2·4	..	2	0	6	6	0	2	3	5	6	0	0	0	1	0	2	9	9	9	Karnal
1·2	+0·2	1·7	5·37	+5·18	5·32	26	1	+0·6	3·4	+1·6	0	0	1	4	0	0	0	7	18	1	0	0	2	0	0	1	1	25	Ambala
2·0	..	2·5	2·76	...	2·05	26	3	...	4·6	..	2	0	0	12	2	0	0	5	9	7	0	0	6	0	0	0	13	4	Patiala
2·2	+1·2	2·0	1·00	+0·87	0·46	27	3	+2·6	0·2	−0·6	0	0	1	2	1	0	0	0	26	0	0	0	1	0	0	1	2	26	Ludhiana
2·4	..	2·2	1·89	..	1·68	25	2	..	..	..	0	2	0	0	0	4	0	2	22	0	1	0	0	0	0	0	0	29	Feroze ore
2·1	..	1·2	1·14	..	0·76	25	2	..	4·4	..	4	2	3	4	2	2	2	1	10	1	2	2	3	0	1	9	8	4	Amritsar

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION.	Height of bar. above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jammu & Kashmir																						
Srinagar	5,205	846·3	—0·3	842·8	61·5	—1·0	67	1	35·2	+4·3	28	23	39·1	55·2	37·5	47·6	7·0	+0·5	8·5	87	+3	58
Gulmarg	8,709							Closed	during	winter	months.											
Dras (R)	10,059																					
Leh	11,529	689·5	+0·4	666·6	48·0	+1·2	55	1,2	23·4	+3·0	16	1	31·0	40·2	23·4	30·8	2·1	—0·8	2·8	33	—23	35
Skardu (R)	7,505																					
Gilgit (R)	4,890																					
Misgar (R)	10,190																					
Rajasthan, West																						
Sri Ganganagar	580	993·8	..	991·4	85·8	+1·3	94	2,10	51·6	+3·8	43	20	59·4	77·1	53·2	64·1	11·1	+2·0	14·5	65	+10	47
Bikaner	734	988·1	—1·9	986·4	86·5	—1·2	95	1,2	55·7	+4·1	43	19	62·0	83·0	52·9	62·1	9·7	+1·9	9·6	52	+7	29
Jaisalmer	793	986·2	..	983·5	88·5	..	96	7	59·5	..	47	30	67·2	84·7	56·5	64·3	10·9	..	11·5	48	.	29
Jodhpur	736	989·0	+0·2	986·0	89·2	+1·6	96	1,7	62·4	+6·7	55	30	68·5	85·0	55·7	63·3	9·5	+1·5	10·3	41	—1	27
Phalodi	783	986·4	..	984·1	86·4	..	94	days	59·7	..	44	28	64·3	85·1	55·8	68·4	11·4	..	11·5	58	..	42
Barmer	638	991·9	—0·8	988·9	91·5	+2·1	100	1	65·1	+4·2	55	28	69·8	86·5	59·9	69·2	13·1	+2·6	16·7	54	+5	39
Rajasthan, East																						
Sikar	1,419	965·7	..	963·6	86·0	..	92	6 days	53·4	..	45	19	62·8	79·3	58·3	70·8	14·7	..	21·6	72	..	64
Jaipur	1,431	965·7	—1·2	962·8	86·5	+1·1	94	2,4	57·9	+4·2	49	28,29,30	71·4	80·0	58·7	63·0	11·1	+1·6	12·0	45	—1	36
Ajmer	1,593	960·3	—1·0	957·4	85·8	+2·2	92	1,2	56·3	+3·6	47	28,29	63·9	79·9	53·9	59·2	9.8	—0·1	8·2	52	+1	27
Kotah	843	985·3	—1·5	982·2	89·1	+2·4	95	23,24	64·2	+5·1	57	28,29,30	69 5	85·2	57·8	64·8	11·0	+0·2	11·5	47	—2	27
Jhalawar	1,053	978·3	—0·5	974·7	90·0	+5·3	95	3,5,6	59·7	+5·9	53	29	65·6	86·1	55·7	62·9	10·8	—0·7	9·3	50	—9	23
Udaipur	1,910	949·7	—0·9	946·5	86·3	+0·9	95	6	57·1	+2·9	50	27,28,30	65·6	81·5	56·6	63·4	11·9	+1·6	11·6	57	+1	36
Madhya Bharat																						
Gwalior	688	990 9	..	987·8	87·2	..	94	13	55·5	..	45	20	69·5	79·9	58 7	63·9	12·0	..	13·1	52	..	39
Sheopur Kalan	771	..	..	..	..	..	..	..	..	..	...	..	65·6	84·0	56·3	64·6	11·3	..	12·0	54	..	34
Guna	1,571	960·6	—0·9	957·7	89·1	+5·3	94	1	56·2	+5·1	44	29	66·0	83·1	57·5	64·7	12·7	+1·1	13·4	61	+1	35
Neemuch	1,626	959·1	—2·0	956·2	88·7	+4·2	94	1	60·5	+5·4	53	28,29	69·8	84·8	55·5	61·4	9·3	—1·1	9·1	39	—9	23
Ratlam	1,596	959·5	..	953·1	89·6	..	94	1	60·9	..	55	27,28	69·8	85·0	58·2	64·4	11·9	..	12·3	50	..	31
Indore	1,861	950·9	—0·9	947·5	87·9	+3·6	92	1	57·0	+3·4	49	30	71·2	83·4	60·7	64·2	13·8	+0·5	12·7	54	+2	33
Bhopal (Bairagarh)	1,714	956·0	—0·8	952·8	87·7	+4·6	92	1	59·2	+4·3	51	29,30	70·1	82·7	58·2	61·9	11·7	—1·2	10·5	48	—8	28
Vindhya Pradesh																						
Nowgong	750	989·0	—1·0	985·6	88·4	+5·6	94	6	54·9	+2·1	47	29	66·4	81·6	57·8	65·1	12·5	—0·6	13·7	57	—14	38
Sutna	1,041	978·5	—1·[illegible]	975·5	87·2	+5·3	92	1,2,6	55·3	+1·1	46	21	66·8	79·7	59·4	65·6	14·0	+1·1	15·2	62	0	44
Umaria	1,506	961·8	..	959·5	85·4	+3·9	89	1,5	..	..	..	..	67·8	77·7	59·9	65·5	14·5	+1·3	16 6	60	—2	52
Madhya Pradesh, East																						
Gondia	1,026	979·9	..	976·5	86·9	..	90	4 days	60·2	..	52	30	68·7	81·5	62·2	67·4	16·2	..	16·6	67	..	46
Pendra	2,040	945·2	—0·6	942·1	81·4	+3·8	84	1,2,6	57·4	+2·1	51	30	69·7	74·0	59·3	61·6	13·0	—0·3	13·7	53	—9	48
Ambikapur	1,989	947·4	..	944·3	81·2	..	85	1,2	51·1	..	44	29,30	65·5	74·3	59·0	63·9	14·4	..	16·1	67	..	56
Raigarh	723	989·6	..	986·0	87·0	..	92	1	62·8	..	55	30	70 0	82·1	62·8	66·4	16·2	..	15·0	64	..	41
Champa	805	987·4	..	983·4	86·5	..	90	1,7	61·4	..	57		68·7	81·0	62·4	65·7	16·4	..	14·7	67	..	42
Raipur	979	980·8	—0·8	977·4	85·1	+1·4	89	1	62·1	+1·5	56	30	70·3	80·5	62·0	65·1	15·3	—0·7	14·2	61	—4	41

(R) Register not received

(a) Mean of 30 days.

(b) Mean of 29 days.

Cloud amount, (0 to 10). Mean 0830 hrs. I.S.T.	Cloud amount, (0 to 10). Departure from normal.	Cloud amount, (0 to 10). Mean 1730 hrs. I.S.T.	Rainfall, inches. Total of the month.	Rainfall, inches. Departure from normal.	Rainfall, inches. Heaviest fall in 24 hours.	Rainfall, inches. Date.	Number of rainy days, (0.10" or more). Total in the month.	Number of rainy days, (0.10" or more). Departure from normal.	Wind velocity, miles per hour. Mean.	Wind velocity, miles per hour. Departure from normal.	Wind direction—Number of winds from :— 0830 hrs. I. S. T. N	NE	E	SE	S	SW	W	NW	Calm	1730 hrs. I. S. T. N	NE	E	SE	S	SW	W	NW	Calm	STATION.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Jammu & Kashmir
2·8	+0·6	2·2	0·72	+0·28	0·46	26	2	+0·9	0·7	−1·1	0	1	1	4	2	2	0	3	17	2	2	0	0	0	1	1	1	23	Srinagar
																													Gulmarg
																													Dras (R)
2·3	−0·3	2·8	0·19	+0·15	0·16	26	1	+0·8	(c) 3·8	+2·2	0	3	0	0	0	1	0	0	26	0	2	0	1	2	10	2	1	12	Leh
																													Skardu (R)
																													Gilgit (R)
																													Misgar (R)
																													Rajasthan, West
1·8	+1·2	0·8	0·73	+0·72	0·73	25	1	+1·0	1·8	−1·7	0	1	3	4	2	1	0	0	19	2	0	1	0	0	0	5	4	18	Sri Ganganagar
1·8	+0·8	1·3	1·73	+1·68	1·65	25	1	+0·9	1·8	−0·7	0	0	0	7	5	5	0	0	13	0	6	1	1	0	6	0	11	5	Bikaner
1·8	..	1·6	0	..	0	..	0	..	4·1	..	2	8	0	0	6	3	0	1	10	2	11	0	0	2	7	4	2	2	Jaisalmer
2·1	+1·1	1·8	0·71	+0·60	0·63	24	1	+0·8	3·0	−1·5	0	18	2	0	0	0	0	1	9	2	8	4	1	0	0	3	3	9	Jodhpur
2·0	..	1·7	0	−0·02	0	....	0	−0·1	4·3	..	5	3	3	4	8	5	1	1	0	8	3	1	1	0	6	7	4	0	Phalodi
2·1	+1·0	1·6	0·15	+0·12	0·08	23	0	−0·2	3·5	−0·1	3	0	0	0	0	1	0	12	14	3	5	1	0	0	4	0	3	14	Barmer
																													Rajasthan, East
1·9	..	2·4	1·30	..	0·87	26	3	..	2·8	..	0	0	2	9	2	0	1	0	16	1	6	1	1	0	1	3	3	14	Sikar
1·4	+0·7	2·2	1·31	+1·17	0·79	25	2	+1·7	3·0	+0·2	0	1	5	2	1	1	0	0	20	7	2	0	2	0	4	0	4	11	Jaipur
1·9	+1·1	1·6	0·10	−0·09	0·10	25	1	+0·6	1·6	+0·6	0	0	1	0	1	0	1	0	27	2	3	0	1	1	0	3	3	17	Ajmer
1·3	+0·3	1·3	1·50	+1·27	1·41	25	1	+0·4	1·2	+0·2	0	1	0	0	0	1	0	0	28	0	0	0	2	0	0	1	1	26	Kotah
1·4	+0·4	1·5	1·00	+0·27	0·59	25	2	+0·9	1·6	+0·4	1	2	0	0	0	0	0	0	27	5	8	4	2	2	1	0	3	5	Jhalawar
2·1	+1·6	2·1	1·50	+1·39	0·95	25	2	+1·7	1·1	..	2	0	0	1	0	0	0	2	25	1	0	5	2	1	1	0	3	17	Udaipur
																													Madhya Bharat
1·8	..	1·9	0·53	..	0·27	26	2	..	2·5	..	1	1	2	0	0	3	0	2	21	6	4	1	0	0	0	0	5	14	Gwalior
..	..	..	1·00	..	0·75	25	2	..	..	..	2	2	0	5	7	2	0	0	12	11	4	1	1	2	0	2	2	7	Sheopur Kalan
1·8	+1·1	1·9	0·09	−0·78	0·09	26	0	−0·8	2·2	+0·9	3	1	15	2	2	0	1	0	6	3	0	4	1	0	3	2	3	14	Guna
2·1	+1·1	2·3	0·71	+0·40	0·71	25	1	+0·6	2·7	−0·6	1	10	3	3	0	0	0	1	12	3	12	0	1	0	1	1	3	9	Neemuch
2·6	..	4·2	0·62	..	0·62	25	1	..	3·6	..	4	9	9	1	1	0	0	0	6	3	9	6	1	1	2	2	3	2	Ratlam
1·5	+0·3	1·4	0	−0·61	0	..	0	−0·9	3·2	+0·2	1	2	3	11	3	1	0	0	9	2	3	3	0	1	2	0	2	17	Indore
1·4	0	1·5	0	−1·01	0	..	0	−1·2	4·4	+0·7	2	4	3	6	6	0	0	1	8	4	8	2	4	1	0	0	2	9	Bhopal (Bairagarh)
																													Vindhya Pradesh
1·0	−0·2	1·4	0	−0·43	0	..	0	−0·7	1·4	+0·6	0	2	0	0	3	11	0	0	14	4	2	0	0	0	0	0	5	19	Nowgong
0·6	−0·6	0·5	0	−0·35	0	..	0	−0·7	1·3	−0·4	0	0	3	0	0	4	6	0	17	9	1	2	0	0	0	0	8	10	Sutna
0·6	−1·4	0·7	0	−0·64	0	..	0	−0·7	0·8	−0·7	0	1	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	30	Umaria
																													Madhya Pradesh, East
0·3	..	0·3	0	..	0	..	0	..	1·4	..	5	5	1	0	0	0	0	3	16	3	2	3	0	1	0	0	0	21	Gondia
0·6	−1·4	1·0	0	−0·72	0	..	0	−1·3	1·8	−0·2	11	1	0	1	2	0	0	3	12	5	1	1	1	3	1	0	4	14	Pendra
0·6	..	0·6	0	..	0	..	0	..	3·7	..	2	3	3	0	6	5	2	0	9	16	8	0	0	0	0	0	5	1	Ambikapur
1·4	..	0·8	0·08	..	0·08	26	0	..	2·3	..	8	13	1	1	0	0	0	0	7	7	8	1	4	1	0	0	0	9	Raigarh
1·3	..	0·9	0	..	0	..	0	..	2·8	..	15	4	1	1	0	0	0	5	4	12	2	2	2	0	1	1	3	7	Champa
1·3	−0·4	1·0	0	−0·53	0	..	0	−1·1	2·6	+0·6	8	9	2	0	2	0	0	0	9	4	7	3	1	0	0	0	0	15	Raipur

(c) Mean of 28 days.

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maxim m temperature, °F.				Minimum temperature, °F.				Dry bulb temperature °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity. %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Me 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Madhya Pradesh, East—contd.																						
Kanker	1,318	969·5	−0·1	966·0	84·6	+1·6	87	7,21	58·5	+1·5	51	30	68·5	79·9	62·9	67·8	17·1	+0·6	17·8	71	−5	51
Chanda	634	992·6	−0·5	988·5	87·2	+1·9	91	2	59·4	+0·4	53	30	70 4	81 9	63·5	68·8	16·9	−0·4	18·1	67	−3	49
Sironcha	605	1000·3	..	996·5	88·8	..	92	2	64 5	..	57	30	71·1	84·3	66·0	70·6	19·5	..	19·4	75	..	48
Jagdalpur	1,815	952·2	0	949·0	83·1	+2·1	88	21	58·2	+0·3	51	14,15,24	66·5	77·1	62·6	65·7	17·8	−0·6	17·0	80	−2	55
Madhya Pradesh, West																						
Buldhana	2,133	94·15	..	938·4	85·1	..	89	22	63·2	..	59	30	70·1	82·7	62·2	67·3	15·9	..	16·6	63	..	48
Akola	925	982·3	−0·9	978·6	90·4	+2·4	94	1	60·1	+1·7	54	30	69 1	86·5	59·3	65·3	12·9	−0·6	11·7	53	−4	27
Amravati	1,213	972·7	−0·7	969·1	88·5	+1·9	92	1,22	64·3	+1·7	59	14,17	72·5	85·7	60·3	64·5	12·4	−0·6	11·2	46	−4	26
Yeotmal	1,481	963·5	..	960·2	86·5	..	91	1	62·4	..	56	30	74·3	81·0	63·0	64·7	14·5	..	13·5	52	..	35
Khandwa	1,044	978·2	−0·4	974·2	92·5	+4·7	97	1	58·8	+2·3	52	30	72·1	87·0	60·4	65·0	12·7	0	11·2	48	−10	26
Hoshangabad	992	980·3	−1·5	976·4	89·3	+4.7	95	1	60·3	+1·9	53	30	68·2	85·9	59·5	65·0	13·4	−0·1	11·7	58	−3	21
Sagar	1,808	952·5	−1·0	949·5	85·4	+3·3	90	1	62·5	+4·1	53	28	71·8	78·3	58·0	60·1	11·0	+0·4	10·4	42	−5	3
Jabalpur	1,289	970·7	−0·3	967·1	88 0	+5·8	91	1	55·4	+3·1	48	29,30	66·8	80·4	58·9	65·2	13·5	−0·4	14·4	60	−12	4
Mandla	1,452	965·5	..	961·5	85·0	..	88	1	51·0	..	44	29	60·1	78·5	56·9	64·6	14·4	..	14·6	81	..	4
Seoni	2,027	945·6	−0·5	941·9	84·4	+3·0	87	1,22	56·4	+1·1	50	29,30	67·6	77·3	58·1	62·9	12·6	−0·3	13·8	57	0	3
Chhindwara	2,248	938·5	..	935·3	84·8	..	87	4 days	54·8	..	48	30	64·2	80·4	57·2	61·8	13·2	..	11·3	65	..	3
Betul	2,144	941·9	..	938·7	84·3	..	87	1,22,23	55·5	..	48	30	69·0	75·9	59·7	62·4	13·7	..	13·8	57	..	4
Nagpur	1,010	980·0	−0·6	976·3	87·7	+2·2	92	23	58·1	−1·0	53	15.29,30	70·9	81·1	61·6	64·7	14·5	+0·7	13·5	56	0	3
Gujarat																						
Deesa	444	997.8	−1·9	994·8	94·5	..	100	1,3	62.4	..	56	27,28,30	71·0	88·3	58·9	67·0	11·6	..	12·9	45	..	2
Surat	39	1011·6	−1·2	1008·1	98·2	+6·3	103	2,3,9	68 5	+3·6	63	27	73·7	90·5	63·9	72·6	15·9	−0·6	19·3	57	−1	4
Ahmedabad	182	1007·1	−1·7	1003·8	94·5	+2·5	100	1	63·6	+2·6	57	27	73·3	89·6	60·5	67·6	12·2	−0·8	13·2	45	−10	2
Dohad	1,093	976·3	..	972·6	92·6	+3·5	97	1,2	63·3	+5·0	58	27,28	70·7	88·7	58·5	65·8	11·3	−2·1	11·4	44	−20	2
Baroda	115	1009·2	..	1005·6	96·9	+5·4	101	1,2,22	61·3	+4·0	58	7 days	70·3	89·6	61·6	71·1	14·8	−0·9	17·6	59	−5	3
Broach	57	1010·9	..	1007·1	97·9	..	102	1,2	66·8	..	60	8,26	71·4	93·7	62·3	70·2	15·1	..	14·6	58	..	2
Saurashtra and Kutch																						
Bhuj	343	1001·8	−1·3	999·0	92·1	+2·3	98	1,4	65·2	+3·2	55	28	71·0	88·9	62·0	64·6	14·9	+0·8	9·8	58	+10	2
Dwarka	37	1011·7	−1·9	1008·9	86·5	−0·6	97	9	70·6	+1·9	66	4 days	73·9	81·8	62·9	70 8	22·2	+2·9	20·7	78	+11	5
Rajkot	432	998·1	−1·4	994·6	94·6	+3·5	100	22	66·1	+5·5	57	26	71·9	91·9	61·1	68·9	13·5	+1·2	13·7	51	0	2
Veraval	26	1011·1	−2·0	1008·5	92·6	..	100	1,2,3	68·0	..	62	26,27	76·2	83·8	66·2	76·3	17·5	+1·7	27·6	57	+5	7
Bhavnagar	55	1011·6	−1·1	1008·3	94·1	+3·4	99	1	66·3	+3·7	57	27,28	71·0	90·9	59·3	67·7	12·0	−1·1	12·7	46	−3	2
Konkan																						
Dahanu	15	1011·5	..	1008·8	91·8	..	97	10	70·2	..	63	27	76·9	84·1	69·3	77·5	21·0	..	29·2	67	..	7
Bombay	35	1010·9	−1·2	1007·9	92·5	+3·1	96	9	75·3	+2·8	70	27	80·3	85·5	72·9	76·9	24·3	+1·2	27·7	69	−4	6
Alibag	23	1011·7	−0·6	..	91·3	+2 9	97	4	71·7	+2 0	67	27	78·5	..	71·2	..	22·7	+1·5	..	69	+2	.
Harnai	66	1009·5	..	1006·6	93·8	..	96	4	76·6	..	73	7	81·7	85·1	71·9	76·7	22·3	..	27·6	61	..	6
Devgad	117	1007·3	..	1004·2	92·4	..	97	4,26	75·9	..	71	6	79 4	88·1	72·3	77·4	23·9	..	27·2	70	..	6
Vengurla	29	1010·5	..	1007·2	93·2	..	96	6 days	72·3	..	66	6	78·7	86·7	73 2	77·8	25·4	..	28·5	77	..	6
Marmagao	202	1004·6	−1·0	1001·3	99·9	+1·7	95	7	75·8	+2·5	72	8	80·1	85·3	73·6	76·3	25·4	+2·7	26·9	72	+3	6
Honavar	85	1008·7	..	1005·3	91·9	..	95	6 days	74 8	..	71	18	80·3	86·8	74·6	79·1	26·7	..	30 5	76	..	7

Cloud amount, Oktas.			Rainfall, inches.				Number of rainy days (0.10" or more).		Wind velocity miles per hour.		Wind direction—Number of winds from:— 0830 hrs. I.S.T.									1730 hrs. I. S. T.									STATION.
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Madhya Pradesh, East—contd
1·4	−0·9	1·8	0	−0·38	0	..	0	−0·8	1·5	−0·4	0	0	0	0	0	0	0	0	30	0	7	0	0	0	0	0	0	23	Kanker
1·8	−0·3	1·6	0	−0·66	0	..	0	−1·3	1·1	−0·3	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	30	Chanda
1·7	..	1·9	0·06	..	0·06	6	0	..	2·1	..	8	5	2	2	1	0	0	3	9	7	8	5	5	2	0	0	0	3	Sironcha
2·5	−0·3	3·0	0·13	−1·01	0·13	25	1	−0·9	1·7	+0·1	0	6	0	2	0	2	0	10	10	1	16	0	4	0	2	0	4	3	Jagdalpur
																													Madhya Pradesh, West
2·0	..	2·0	0·28	..	0·25	22	1	..	4·2	..	2	1	3	3	17	2	2	0	0	9	16	1	1	2	0	0	1	0	Buldhana
2·0	+0·2	2·0	0	−0·73	0	..	0	−1·0	2·7	+0·1	1	4	7	4	5	3	0	0	6	3	13	11	2	0	0	0	1	0	Akola
1·8	0	1·8	0	−0·66	0	..	0	−1·0	5·2	+1·9	0	15	11	0	0	0	0	0	4	2	6	11	6	0	1	1	0	3	Amravati
2·0	..	2·9	0	..	0	..	0	..	5·2	..	0	22	3	3	0	0	0	2	0	0	28	1	0	1	0	0	0	0	Yeotmal
1·5	+0·1	1·6	0	−0·76	0	..	0	−1·0	2·5	+0·2	1	5	6	9	2	1	0	0	6	5	9	3	7	1	0	0	4	1	Khandwa
1·9	+0·5	2·1	0	−0·67	0	..	0	−0·9	1·8	+0·2	2	6	18	2	1	0	0	0	1	0	3	11	8	3	0	0	1	4	Hoshangabad
0·7	−0·6	1·1	0	−0·63	0	..	0	−0·9	7·2	+0·3	1	3	7	6	6	4	2	1	0	0	9	1	5	0	7	3	4	1	Sagar
0·7	−0·6	0·7	0	−0·43	0	..	0	−0·9	2·0	+0·8	0	0	1	24	3	0	0	1	1	1	10	5	4	0	0	0	2	8	Jabalpur
1·5	..	1·6	0	..	0	..	0	..	0	..	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	30	Mandla
0·3	−1·2	0·7	0	−0·68	0	..	0	−1·0	2·7	+0·5	2	2	1	0	0	0	0	0	25	1	6	10	3	2	0	0	0	8	Seoni
0·5	..	0·8	0	..	0	..	0	..	1·4	..	0	4	0	1	0	0	0	0	25	0	9	3	4	1	1	1	2	9	Chhindwara
1·7	..	1·6	0	..	0	..	0	..	2·4	..	0	2	8	9	1	0	0	1	9	8	10	1	0	1	0	0	0	10	Betul
1·1	−0·9	1·3	0	−0·77	0	..	0	−1·1	2·5	..	12	14	2	0	0	0	0	0	2	1	11	10	1	0	0	0	0	7	Nagpur
																													Gujarat
0·8	..	1·5	0·47	..	0·37	25	2	..	..	..	6	14	4	2	0	2	0	0	2	7	4	3	1	2	2	3	6	2	Deesa
1·6	+0·2	2·0	0·15	−0·17	0·13	24	1	+0·5	3·8	+1·0	0	4	18	6	0	0	0	0	2	0	3	2	1	0	8	7	9	0	Surat
1·8	+0·8	2·0	0·47	+0·33	0·47	25	1	+0·6	2·8	+0·4	1	7	13	2	0	0	0	1	6	4	6	11	4	1	2	1	0	1	Ahmedabad
1·1	−0·4	1·1	0·03	−0·62	0·03	25	0	−0·9	4·1	+1·5	1	10	8	6	2	2	0	0	1	5	6	6	2	2	1	3	0	5	Dohad
1·6	+0·5	1·7	0	−0·80	0	..	0	−1·5	1·1	−0·6	0	4	2	2	1	0	0	0	21	1	4	1	1	0	1	1	3	18	Baroda
1·2	..	1·5	0·01	..	0·01	23	0	..	2·9	..	1	5	9	9	3	0	1	1	1	4	9	4	2	1	4	1	3	2	Broach
																													Saurashtra and Kutch
1·5	+0·6	1·8	0·67	+0·59	0·51	18	1	+0·8	2·7	−0·7	0	2	3	0	0	1	0	0	24	2	12	2	0	1	0	5	3	5	Bhuj
2·0	+0·7	2·2	14·91	+13·83	13·98	18	2	+1·9	9·2	+1·9	12	12	5	0	0	0	0	0	1	13	8	1	0	0	0	0	8	0	Dwarka
1·7	+0·6	2·3	0	−0·23	0	..	0	−0·3	5·3	+1·7	3	8	7	2	2	1	0	1	6	5	7	5	3	1	0	1	5	3	Rajkot
1·9	+0·8	2·3	0·53	+0·36	0·45	23	1	+0·8	6·2	..	5	15	5	1	0	0	0	0	4	0	1	0	7	9	6	5	2	0	Veraval
2·1	+0·6	2·4	0·02	−0·24	0·02	23	0	−0·3	3·1	+0·1	0	1	0	0	1	6	6	4	12	1	3	9	1	4	1	1	0	10	Bhavnagar
																													Konkan
2·4	..	1·7	1·29	..	1·21	24	1	..	5·7	..	0	0	16	13	1	0	0	0	0	12	0	1	0	0	1	4	12	0	Dahanu
2·0	+0·2	2·0	0·11	−0·42	0·04	24	0	−0·8	5·5	−0·8	3	11	14	2	0	0	0	0	0	2	0	0	0	0	1	9	17	1	Bombay
1·9	−0·4	..	3·19	+1·64	1·55	22	3	+1·6	2·4	−2·1	0	3	6	2	0	0	0	0	19	..	..	..	..	..	..	..	..	..	Alibag
1·9	..	2·7	0·84	..	0·65	24	2	..	7·5	..	2	14	9	3	0	1	1	0	0	0	0	0	2	1	2	6	19	0	Harnai
1·9	..	2·3	0·47	..	0·34	24	2	..	7·4	..	1	5	20	4	0	0	0	0	0	0	0	0	0	0	3	17	10	0	Devgad
3·2	..	3·6	0·86	..	0·73	8	1	..	..	..	2	2	2	0	0	0	0	1	23	0	0	0	0	1	2	2	1	24	Vengurla
4·2	+1·5	4·3	1·72	+0·52	1·10	8	2	−0·4	1·9	+0·9	0	7	12	9	2	0	0	0	0	0	0	0	1	2	11	11	5	0	Marmagao
4·8	..	4·9	1·93	+0·05	0·95	9	2	−0·8	2·2	..	1	3	17	3	0	0	2	0	4	1	0	0	0	0	3	17	3	6	Honavar

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION.	Height of bar. above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature °F.		Vapour pressure, millibars.			Relative humidity. %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Deccan (Desh)																						
Jalgaon	660	991·3	..	987·7	91·5	..	96	1	59·2	..	53	4 days	69·0	88·1	60·2	66·3	13·8	..	12·2	57	..	28
Malegaon	1,432	965·1	−0·6	961·4	89·9	+2·2	94	1	60·3	+2·6	55	4 days	70·2	85·2	60·0	64·5	13·1	−0·3	11·4	52	−6	29
Ahmednagar	2,154	940·6	−0·9	937·3	88·7	+3·6	92	10,21	60·6	+2·4	53	14	71·7	83·8	61·6	65·2	14 6	+0·7	13·7	56	−3	35
Poona	1,834	951·0	−0·9	947·2	88·9	+3·4	93	9	61·1	+2·6	54	5,14	68·6	83·2	63·2	69·5	17·6	+2·5	19·1	75	+2	49
Jeur	1,709	955·2	..	951·1	90·3	..	93	1,9	61·6	..	54	11	72·7	87·2	62·4	67·6	15·1	..	15·1	55	..	34
Sholapur	1,570	959·9	−0·6	955·8	91·0	+3·5	95	1	64·3	+1·5	55	15,16	75·3	87·1	63·7	66·2	15·4	+0·6	13·5	51	−6	32
Miraj	1,817	951·2	−0·8	947·6	90·1	+4·9	93	9	65·8	+3·2	58	14	73·2	86·0	63·8	67·3	16·4	+0·1	15·3	60	−2	36
Kolhapur	1,870	949·6	..	945·6	89·3	..	92	1,8	60·8	..	59	17,18	72·0	86·3	63·7	67 1	16·8	..	14·9	63	..	37
Bijapur	1,950	947·0	−0·6	942·9	88·9	+3·2	92	1	65·5	+2·8	60	11,30	74·5	86 3	62·8	66·7	14·8	−1·5	14·4	51	−11	3
Belgaum	2,562	926·3	−0·7	923·5	84·8	+2·1	88	8	64·5	+3·0	57	3,13,17	68·3	82·0	66·0	67·0	20·8	+4·9	16·5	78	+12	4
Gadag	2,131	940·7	−0·4	937·1	85·5	+0·6	92	1,27	66·9	+2·1	62	17	76·2	83·8	65·1	67·8	16·7	−0·5	16·7	59	−6	4
Hyderabad, North																						
Aurangabad	1,905	949·5	−0·9	945·9	88·6	+2·5	91	5 days	61·8	+1·5	57	4,12	70·8	85·2	60·8	67·9	14·2	+0·7	16·3	56	+2	4
Parbhani	1,350	966·4	..	962·8	88·7	..	92	1	59·2	..	53	11	71·1	84·2	60·9	65·4	13·7	..	12·9	52	..	3
Ramagundam	527	996·6	..	992·7	90·0	..	94	21,22	65·3	..	59	30	74·2	85·5	67·6	74·8	20·1	..	24 6	70	..	5
Nizamabad	1,250	970·3	−1·0	966·4	87·9	+2·3	92	1,2	61·9	+1·5	54	14	74·1	83·5	65·2	66·9	17·2	−0·2	15·1	60	−8	3
Bidar	2,178	939·3	..	936·0	84·9	+2·4	89	22	65·7	+1·1	62	17	72·5	81·3	63·3	63·7	16·1	+0·8	13·0	59	−1	3
Hyderabad, South																						
Gulbarga	1,503	962·0	−0·8	954·7	89·1	+1·8	93	1	65·0	+1·8	57	25	74·5	86·1	64·3	65·8	16·4	+0·1	13·4	57	−4	3
Raichur	1,311	968·3	−0·6	964·4	88·7	+2·1	92	27	69·9	+2·3	65	25	76·1	85·9	67·3	67·4	18·8	0	14·5	61	−4	3
Hyderabad (Begumpet)	1,778	953·0	−0·4	949·7	87·8	+2·7	91	22,27	62·7	+1·1	55	14	71·6	82·0	65·4	66·7	18·9	+1·1	16·1	71	+2	4
Hanamkonda	881	983·4	−0·9	979·5	89·2	+3·9	92	1,8	66·3	+2·2	58	14	75·8	84·8	68·1	68·3	20·0	+1·4	16·1	66	−3	4
Khammameth	367	1000·9	..	997.0	89·2	..	93	1,2	68·5	..	61	14,15	75·0	84·9	70·7	70·0	23·7	..	18·3	78	..	5
Coastal Andhradesa																						
Nellore	65	1010·7	−0·3	1007·6	87·5	+2·2	97	1	73·6	+1·7	69	12,30	78·4	81·4	74 9	75·2	28·0	+1·5	27·0	85	+2	7
Ongole	38	1011·9	..	1008·4	87·7	..	94	6	73·0	..	68	15,16	78·9	82·4	73·7	74·2	26·0	..	25·2	79	..	6
Gannavaram	88	1010·6	..	1007·1	90·7	..	95	26	71·5	..	66	15,16	80·8	82·7	72·4	73·5	23·3	..	24·0	65	..	6
Masulipatam	10	1013·0	−0·6	1009·7	85·9	+1·1	92	26	73·0	+1·8	69	14,15,16	78·9	82·0	73·7	74·7	26·0	+1·2	26·1	77	−1	7
Kakinada	26	1012·9	−0·2	1009·3	85·3	+2·2	93	1,28	72·8	+1·2	66	15	80·3	81·6	73·2	73·7	24 8	+1·5	24.8	72	−1	6
Visakhapatnam	9	1013·1	−0·8	1010·2	87·2	+0·7	92	4,5	71 5	+0·6	67	4 days	79·6	80·4	73·2	73·9	25·0	+1·5	25·7	74	+8	7
Calingapatam	19	1012·9	−0·8	1009·8	82·9	−0·6	88	12	69·5	+0·2	65	15,16,17	72·4	80·7	69·3	72·8	23·1	−0·4	24·0	85	+6	6
Rentachintala	348	1001·5	..	997·3	92·3	+5·2	97	2,6	70·0	+2·3	63	14,15	77·6	88·8	70·6	70·7	22·4	+1·1	17·5	70	−2	3
Rayalaseema																						
Cuddapah	428	998·4	−0·4	994·0	90·4	+2·7	95	1,2	74·1	+4·2	69	24	82·8	85·3	74·4	74·7	25·2	+1·4	24·6	66	−01	5
Bellary	1,473	962·4	−0·8	958·3	88·9	+1·9	93	27	69·5	+3·2	64	17,25	74·8	85·9	67·5	68·2	19·6	+0·9	15·6	67	−1	3
Kurnool	923	981·7	−0·3	977·3	91·3	+3·4	95	27	68·8	+2·9	60	26	76·1	87·3	69·0	70·2	21·1	+1·3	17·5	68	−3	4
Anantapur	1,147	973·2	..	967·9	89·3	..	94	1,27	68·8	..	61	17	76·4	87·2	69·1	69·6	21·1	..	16·7	66	..	4
Tamilnad																						
Palayamcottai	167	1006·0	..	1002·7	87·4	..	95	1	75·4	..	72	18,21	79·4	82·0	75 6	76·1	28·5	..	28·1	83	..	7
Pamban	37	1010·4	−0·2	1007·1	84·9	−0·2	89	1	76·7	+0·5	74	1	80·7	82·0	76·9	77·0	29·9	+0·8	29·6	84	+1	7
Mathurai	437	996 7	−0·7	993·3	87·8	+1·1	92	1	74·7	+1·7	72	21	79·9	82·5	74·8	75·9	27·3	+1·7	27·5	78	−2	7
Nagapattinam	31	1010 8	−0·3	1007·8	85·2	+0·9	92	1	75·5	+1·1	62	18	79·6	82·1	75·6	76·3	28·4	+0·9	28·3	83	+1	7
Tiruchi	295	1002·1	−0·7	998·6	87·1	+0·6	94	2	74·7	+2·8	71	19	78·3	82·2	74·5	75·4	27·5	+0·5	26·5	83	+2	6
Coimbatore	1,341	966·5	−0 5	962·2	85·4	0	90	26	72·3	+3·0	69	2	75·2	81·4	72·2	73·6	25·7	+2·1	24·8	86	+4	6

b) Mean of 29 days

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																			STATION.
											0830 hrs. I.S.T.									1730 hrs. I.S.T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Deccan (Desh)
2·1	..	2·0	0·01	−0·77	0·01	24	0	−0·9	3·6	..	0	3	15	12	0	0	0	0	0	1	4	10	8	0	0	0	3	4	Jalgaon
1·9	0	1·5	1·15	−0·28	0·86	24	2	+0·8	2·5	−0·7	1	2	1	0	1	3	1	1	20	0	15	5	1	2	0	0	0	7	Malegaon
2·6	+0·8	2·6	0·15	−0·96	0·12	23	1	−0·4	3·7	−0·4	0	1	0	6	0	2	0	6	15	0	20	1	4	0	0	0	0	5	Ahmednagar
2·6	+0·7	3·0	2·74	+1·66	1·06	23	3	+1·4	1·1	−2·6	0	1	0	1	0	0	0	0	28	1	2	9	1	1	0	0	1	15	Poona
2·9	..	3·4	0·02	..	0·02	9	0	..	4·3	..	1	5	7	4	3	0	0	0	10	2	8	8	5	4	1	0	2	0	Jeur
1·1	−1·1	2·6	0	−1·33	0	..	0	−1·7	5·2	−0·9	0	6	2	14	0	0	0	0	8	2	1	13	8	1	0	0	0	5	Sholapur
3·0	−0·2	3·5	0·65	−1·17	0·50	21	2	−0·5	6·1	+1·1	1	2	16	2	1	0	0	1	7	2	6	17	4	1	0	0	0	0	Miraj
1·7	..	2·8	0·4	..	0·26	8	2	..	5·2	..	0	9	10	1	0	0	0	0	10	1	11	10	2	0	2	3	1	0	Kolhapur
1·8	−0·9	3·4	0·06	−1·21	0·06	9	0	−1·8	2·7	+0·3	1	5	8	8	2	0	0	1	5	0	16	13	1	0	0	0	0	0	Bijapur
..	..	..	2·20	+0·65	1·66	21	3	+0·6	3·3	+0·1	5	2	6	1	5	0	2	1	8	5	4	6	3	6	2	0	1	3	Belgaum
2·5	−0·3	3·9	0·32	1·46	0·17	20	2	−1·0	3·9	−0·4	1	11	15	2	0	0	0	0	1	1	12	11	1	0	0	0	0	5	Gadag
																													Hyderabad, North
2·5	+0·3	2·4	0·03	−0·92	0·03	23	0	−1·3	..	..	0	6	16	5	0	0	0	1	2	1	4	12	8	1	3	0	0	1	Aurangabad
1·3	..	1·6	0	−1·36	0	..	0	−1·8	..	..	0	3	24	0	0	0	0	2	1	3	0	25	0	0	0	0	0	2	Parbhani
(b) 2·0	..	(b) 2·9	0	..	0	..	0	..	(c) 3·1	..	16	2	0	2	1	0	0	0	8	6	19	2	1	0	0	0	0	1	Ramagundam
2·4	+0·2	2·8	0	−0·69	0	..	0	−1·1	2·5	+0·3	0	2	2	0	0	0	0	1	25	4	5	1	1	0	0	0	1	18	Nizamabad
2·1	−0·4	2·8	0·03	−0·83	0·03	7	0	−1·7	6·1	+0·6	0	10	14	5	1	0	0	0	0	1	22	7	0	0	0	0	0	0	Bidar
																													Hyderabad, South
2·1	0	2·6	0	−1·10	0	..	0	−1·7	7·0	+1·1	1	8	19	1	1	0	0	0	0	2	7	15	5	0	0	0	1	0	Gulbarga
2·8	+0·4	3·5	0·36	−0·80	0·27	20	1	−0·8	5·8	+0·4	2	11	8	8	0	0	0	0	1	3	13	9	3	0	1	0	1	0	Raichur
2·7	−0·3	3·1	0	−1·14	0	..	0	−2·1	4·0	+0·2	7	11	6	3	0	0	0	0	3	1	16	8	4	0	0	0	1	0	Hyderabad (Begumpet)
1·7	−1·4	1·2	0	−1·10	0	..	0	−1·7	2·7	−0·2	6	2	1	2	10	2	0	2	5	7	15	5	2	0	0	0	0	1	Hanamkonda
2·7	..	2·6	1·49	..	1·18	7	2	..	3·0	..	17	3	6	0	0	0	0	2	2	7	3	17	1	1	0	0	0	1	Khammameth
																													Coastal Andhradesa
4·2	−0·8	4·9	7·27	−4·43	3·29	19	8	−0·8	4·0	+1·0	7	5	1	0	0	1	0	11	5	1	16	8	2	0	0	1	1	1	Nellore
3·3	..	2·5	1·87	..	0·95	9	4	..	3·8	..	7	14	1	1	0	0	1	0	6	0	9	3	12	0	0	0	0	6	Ongole
3·1	..	3·9	0·06	..	0·06	9	0	..	6·3	..	6	14	7	0	0	0	1	2	0	2	1	19	6	0	0	0	1	1	Gannavaram
3·7	+0·6	4·3	0·60	−5·18	0·22	7	3	−1·7	6·7	+2·5	8	15	4	1	0	0	0	1	1	1	1	11	14	1	1	0	0	1	Masulipatam
2·4	−1·2	2·6	4·78	−0·81	2·25	6	5	+0·5	8·6	+1·6	0	28	0	0	0	1	0	1	0	0	22	0	7	0	0	1	0	0	Kakinada
3·1	−0·6	2·9	3·13	−1·54	2·09	25	3	−0·9	5·5	+1·7	4	7	4	0	0	0	2	11	2	0	3	20	6	0	0	0	1	0	Visakhapatnam
4·8	+1·9	4·5	5·20	+1·81	3·20	25	4	+1·3	9·9	+3·9	14	1	1	0	0	0	0	14	0	0	10	15	5	0	0	0	0	0	Calingapatam
4·1	−0·6	3·4	0·95	−0·95	0·85	8	2	−1·6	3·6	+0·3	7	1	2	0	0	0	2	0	18	12	4	10	0	1	0	2	0	1	Rentachintala
																													Rayalaseema
4·0	+0·2	4·0	1·62	−1·91	0·92	20	3	−2·2	4·4	+1·0	0	0	12	0	0	0	0	0	18	0	0	12	0	0	0	0	0	18	Cuddapah
5·2	+1·7	5·6	0·49	−1·48	0·49	9	1	−2·1	2·5	+0·1	0	1	0	2	0	0	0	0	27	0	10	7	4	0	0	0	0	9	Bellary
2·7	−0·3	2·9	0	−1·19	0	...	0	−2·1	3·4	+1·0	0	5	9	4	0	0	0	0	12	0	9	5	7	1	0	0	0	8	Kurnool
4·2	..	4·1	0·11	−2·26	0·06	20	0	−3·7	6·0	..	1	6	13	1	1	0	0	0	8	0	15	14	0	0	0	0	0	1	Anantapur
																													Tamilnad
5·2	..	5·8	10·31	+2·88	2·16	11	13	+3·5	3·8	..	10	5	0	1	0	1	3	9	1	2	1	5	6	6	2	3	3	2	Palayamcottai
5·5	+1·5	6·0	15·17	+3·45	2·61	10	16	+3·0	6·6	−2·3	4	6	3	3	0	0	0	14	0	9	9	1	3	3	2	0	3	0	Pamban
6·1	+1·0	6·2	4·27	−1·46	1·58	23	6	−2·0	2·7	−1·4	9	6	0	0	0	1	3	5	6	2	5	5	2	0	1	1	1	13	Mathurai
6·1	+0·7	5·8	11·83	−5·71	2·33	10	14	+1·0	7·2	+1·1	5	4	2	2	0	0	1	9	7	7	14	6	2	0	0	0	1	0	Nagapattinam
6·2	+1·7	6·1	7·20	+1·36	1·93	8	10	+1·5	5·5	+1·7	4	16	2	0	1	0	1	2	4	3	14	7	2	1	1	0	2	0	Tiruchi
6·3	+1·5	5·8	7·05	+3·02	1·63	18	12	+5·2	3·4	+1·2	7	13	7	0	1	0	1	1	0	4	12	9	1	2	1	0	1	0	Coimbatore

(c) Mean of 28 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Tamilnad—*contd.*																						
Salem	913	980·8	—0·6	977·1	88·0	+1·0	92	5 days	72·6	+3·4	69	16	76·4	83·3	71·8	73·8	24·6	+0·9	24·2	79	+1	63
Kallakurichi	416	997·5	..	994·2	86·4	..	93	2	73·6	..	69	25	76·9	81·9	72·9	73·7	25·8	..	24·7	82	..	67
Cuddalore	39	1010·7	—0·6	1007·6	85·2	+0·8	92	1,2	74·5	+1·8	71	24	78·6	81·7	75·1	76·2	29·2	+2·1	28·4	85	+1	78
Vellore	703	988·5	0	984·8	86·9	+2·6	93	1	71·7	+2·6	65	16	76·2	82·4	72·7	73·0	25·9	+1·4	23·5	83	—1	63
Madras	51	1010·6	—0·7	1007·7	86·5	+1·1	94	1	74·3	+2·4	71	12,24,30	79·4	81·6	75·5	75·4	28·4	+1·6	27·2	83	0	74
Arogyavaram	2,299	935·4	..	932·0	82·1	..	87	4,26	65·3	..	60	16	71·8	78·6	67·5	68·9	21·2	.	20·2	80	..	62
Malabar & South Kanara																						
Mangalore	72	1008·8	—1·0	1005·7	89·2	+1·4	94	29,30	76·4	+2·8	72	9	80·6	85·1	76·7	78·3	29·6	+4·3	30·0	83	+8	72
Kozhikode	27	1010·5	—0·9	1007·4	89·4	+2·1	93	7	76·2	+2·3	74	13	82·1	84·4	77·2	78·6	29·7	+2·6	30·7	80	—2	77
Palghat	319	1000·7	..	997·1	89·5	..	93	6	75·1	..	72	4	79·4	82·6	75·3	76·5	28·1	..	28·4	82	..	74
Mysore																						
Chitaldrug	2,405	931·1	—0·4	927·7	84·5	+1·3	88	27	67·9	+3·0	61	5	73·2	82·7	68·4	72·6	21·8	+3·0	23·3	79	+9	62
Shimoga	1,872	948·6	..	944·9	86·8	..	89	8	(b) 68·2	..	63	5,29,30	72·3	82·9	69·1	71·2	23·0	..	21·3	85	..	56
Hassan	3,149	907·4	..	904·3	82·6	+1·8	86	17	65·2	+3·8	59	13	70·5	78·2	66·3	67·5	20·4	+1·5	18·7	80	+4	61
Bangalore	3,021	911·5	—0·3	908·4	80·9	+1·6	84	15,26	64·8	+3·1	61	16,17,25	69·8	76·1	65·8	66·5	20·1	+1·4	18·3	81	+3	60
Mysore	2,518	927·4	—0·6	(b) 924·4	82·5	+0·2	86	2,16	67·7	+3·3	65	4,26	72·1	(b) 79·8	68·6	(b) 69·1	22·5	+2·4	(b) 19·9	84	+7	(b) 58
Travancore-Cochin																						
Fort Cochin	10	1011·2	—0·6	1008·0	86·7	+1·0	90	7,30	76·4	+1·1	74	4 days	81·3	83·1	77·0	77·7	29·7	+2·5	30·0	82	+3	78
Alleppey	12	1010·9	..	1007·9	87·5	..	90	28	75·8	..	73	3,12,18	82·1	82·9	78·7	78·3	32·0	..	31·0	85	..	81
Trivandrum	211	1004·2	—0·4	1001·4	85·0	—1·2	89	10	74·1	+0·6	71	18	77·5	80·9	75·5	76·6	29·2	+1·8	29·3	91	+6	81
Nagercoil	195	1004·8	..	1001·9	86·4	..	91	27	74·5	..	72	12,13,22	78·7	79·9	75·4	76·3	28·6	..	29·3	85	..	85
Hill Stations excluding Kashmir																						
Aijal	3,599	893·5	..	890·3	66·4	..	76	14	60·0	..	52	29	65·4	64·6	61·3	61·4	17·0	..	17·5	80	..	83
Shillong	4,921	853·0	—0·2	850·7	65·2	—0·8	72	26	46·5	+0·3	39	29,30	60·3	57·6	53·5	55·5	11·0	—1·2	14·3	63	—5	87
Cherrapunji	4,309	872·7	+0·7	869·6	68·0	+0·5	72	1,2,8	53·3	—0·7	49	27,28,29	63·5	59·4	56·4	56·5	12·8	—0·2	14·3	66	+5	83
Darjiling	7,432	779·4	+0·3	777·2	55·7	+0·1	61	19	43·7	+0·6	37	28,30	50·1	48·1	47·1	46·7	9·9	+0·6	10·3	82	+13	90
Kalimpong	3,965	885·0	+1·7	881·9	66·4	—0·4	70	9,18	..	..	..	..	57·9	60·0	55·7	56·9	14·5	+1·2	14·7	87	+13	83
Katmandu	4,388	871·3	..	868·2	72·8	0	79	2,6	47·9	+2·2	39	29	55·5	61·2	53·5	56·2	13·2	+2·5	13·4	88	+1	72
Mukteswar (Kumaon)	7,592	774·2	—0·7	772·5	61·0	+2·2	68	1	44·6	+1·7	33	26	49·1	51·1	41·4	45·2	6·1	+0·9	8·1	54	+10	65
Mussoorie	6,699	798·9	..	797·4	60·6	+1·1	66	8	46·2	+1·1	36	27	52·5	51·0	44·3	47·4	7·0	+1·1	9·9	51	+4	71
Simla	7,224	784·0	—0·1	782·6	60·7	+2·4	67	5	46·0	+1·8	32	26	52·7	51·1	40·0	42·9	3·8	—0·5	6·4	31	—3	53
Dharamshala	3,974	887·1	..	885·6	70·0	..	75	1,4,25	55·3	..	45	27	59·3	64·8	51·1	56·1	9·5	..	11·9	58	..	60
Abu	3,921	884·7	—0·2	882·8	78·1	+4·4	85	7	58·7	+0·9	48	27	65·4	71·1	52·7	55·9	8·5	+0·1	9·1	39	—6	37
Pachmarhi	3,528	897·4	—0·3	894·9	79·4	+4·9	83	1	51·1	+0·4	44	29	63·9	74·2	56·6	60·3	12·8	+1·1	12·2	64	+7	42
Mahabaleshwar	4,534	864·7	—0·1	862·3	78·4	+4·4	82	20	60·7	+1·9	58	3,26	65·7	71·2	58·3	62·3	13·6	+1·5	15·5	62	—4	62
Mercara	3,781	886·8	—0·1	884·4	75·2	+0·1	77	8 days	63·2	+2·8	61	4 days	66·0	72·1	64·0	67·5	19·5	+1·9	21·2	91	+8	79
Kodaikanal	7,688	772·3	+0·7	770·5	61·4	+0·5	65	26	51·2	+1·8	45	18	55·3	55·5	54·2	54·9	13·9	+2·0	14·5	93	+14	97
Ootacamund	7,378	(c) 780·5	+0·5	(c) 778·8	66·5	+2·8	71	26	50·4	+2·3	43	25	56·0	59·0	54·1	56·5	13·5	+1·8	14·6	89	+3	86
Coonoor	..	..	..	..	67·6	+0·6	71	7,18,27	55·1	+1·8	50	25,26,27	63·3	..	60·3	..	16·6	+2·4	..	85	+9	..
Tibet																						
Lhasa	12,090	657·2	..	..	56·1	..	63	7,26	25·9	..	17	29	38·9	..	33·6	..	4·8	..	..	61	..	..
Gyantse	13,110	625·1	..	..	55·1	+4·5	67	6	19·7	+2·5	5	28	36·2	..	30·0	..	3·8	0	..	56	+14	..

(b) Mean of 29 days.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity miles per hour.		Wind direction—Number of winds from:—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal	N.	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Tamilnad—*con'd.*
4·8	+0·6	6·3	3·84	+0·03	1 08	9	9	+2·8	3·8	+1·2	5	11	4	0	0	0	1	1	8	0	6	11	3	3	0	0	2	5	Salem
4·2	..	5·6	8·82	..	2 57	8	12	..	..	..	..	..	..	..	..	..	..	..		.	..	..	..	.	..	..	..	..	Kallakurichi
6·3	+1·4	6·0	36·41	+20·89	10·53	18	14	+2·4	5·7	+1·9	16	7	0	0	0	0	1	3	3	2	21	1	0	0	0	0	0	6	Cuddalore
4·7	+0·6	5·5	6·49	—1·19	2·68	19	8	—0·5	3·7	+1·7	3	7	0	0	1	1	2	5	11	0	9	14	2	1	1	0	0	3	Vellore
4·9	+0·1	6·1	10·44	—3·52	2·65	19	11	—0·1	7·7	—1·6	13	4	2	0	0	1	2	8	0	6	19	4	0	0	0	0	0	1	Madras
5·4	..	5·9	2·35	..	0·87	8	7	..	3·1	..	2	11	2	1	2	0	0	0	12	3	16	4	0	1	1	0	0	5	Arogyavaram
																													Malabar & South Kanara
5·5	+2·1	5·7	3·31	+0·46	0·98	22	8	+3·6	4·8	+0·8	0	2	21	7	0	0	0	0	0	0	0	0	0	3	15	5	6	1	Mangalore
5·9	+1·7	6·6	6·64	+1·18	1·80	16	11	+4·8	5·4	+1·6	0	12	13	2	1	2	0	0	0	1	2	2	0	0	5	12	8	0	Kozhikode
4·9	..	5·3	3·29	..	0·96	22	6	..	4·4	..	0	0	24	1	0	0	3	0	2	0	0	12	0	0	3	13	2	0	Palghat
																													Mysore
4·3	+0·4	5·0	0·48	—1·89	0·48	22	1	—2·4	3·9	+0·2	0	1	24	1	0	2	1	0	1	0	10	17	0	0	0	1	0	2	Chitaldrug
5·0	..	5·1	2·31	..	1·68	22	3	..	2·2	..	0	5	4	2	1	0	0	0	18	1	5	6	3	2	2	1	3	7	Shimoga
4·8	+0·8	5·0	1·63	—1·40	0 86	21	4	—0·6	3·4	+0·6	0	1	16	8	0	0	1	2	2	4	6	11	6	1	0	0	0	2	Hassan
4·0	—0·5	5·1	2·21	—0 46	1·36	18	3	—1·5	5 1	+0·7	0	14	8	2	0	0	1	0	5	1	14	9	3	0	0	0	0	3	Bangalore
5·7	+1·1	(b) 4·9	1·04	—1·70	0·27	2,19	4	—0·2	5·3	+0·3	2	5	16	0	1	0	2	0	4	2	8	16	0	1	0	0	0	2	Mysore
																													Travancore-Cochin
6·7	+2·7	7·7	10·04	+3·35	2·44	11	14	+5·6	4·3	+1·0	0	13	9	5	0	0	0	1	2	1	0	[illegible]	1	3	7	11	7	0	Fort Cochin
6·6	..	7·0	12·90	..	1 90	13	16	..	4·8	..	0	7	11	6	1	2	1	1	1	1	0	1	1	0	7	12	7	1	Alleppey
6·0	+1·0	7·0	15·88	+8·90	2·90	13	15	+5·5	3·5	+0·9	2	6	1	2	1	0	2	3	13	2	0	1	1	1	7	5	5	8	Trivandrum
6·8	..	7·5	14·46	..	3·41	24	18	..	3·8	..	5	9	1	0	0	0	4	2	9	2	2	6	1	0	5	10	2	2	Nagercoil
																													Hill Stations excluding Kashmir
3·4	..	2·4	3·82	..	2·40	2	4	..	3·7	..	0	2	12	4	1	3	2	1	5	2	1	1	0	1	6	6	7	6	Aijal
2·3	+0·2	5·2	3·32	+1·71	1·46	27	10	+7·3	1·9	+0·7	3	1	3	4	1	2	0	2	14	1	1	0	1	0	1	0	1	25	Shillong
2·7	+0·4	2·4	1·58	—1·12	1·24	27	3	+1·2	4·1	+1·4	0	11	14	0	1	1	1	0	2	2	8	2	0	0	4	3	7	4	Cherrapunji
5·0	+2·1	5·5	0·82	+0·01	0·39	1	3	+1·8	3·7	+1·7	0	3	5	7	1	3	1	1	9	0	0	4	4	1	6	12	0	3	Darjiling
2·7	+0·5	4·2	1·40	+0·69	1·05	9	4	+2·6	4·6	—1·9	0	0	0	3	0	0	0	27	0	0	0	0	29	0	0	0	1	0	Kalimpong
5·2	—0·9	3·6	0·23	+0·17	0·11	9	1	+0·8	0·9	0	0	0	1	2	0	0	0	1	26	2	1	2	5	1	0	0	2	17	Katmandu
1·7	+0·4	2·0	1·25	+0·83	1·10	26	2	+1·3	7·3	+2·7	0	1	3	1	2	3	12	2	6	0	1	1	0	1	7	18	2	0	Mukteswar (Kumaon)
2·1	+0·9	(b) 3·0	2·12	+1·95	1·06	25	3	+2·1	4·3	—0·2	5	5	0	6	6	1	0	0	7	2	2	0	7	11	2	0	0	5	Mussooree
2·0	+0·7	2·4	2·75	+2·23	2·18	26	2	+0 9	2·2	—0·5	2	4	3	3	5	0	0	1	12	6	5	0	1	5	2	0	3	8	Simla
1·3	..	1·2	1·19	..	1·18	26	1	..	(c) 1·1	..	23	0	3	0	0	0	1	0	3	12	0	1	0	0	0	16	1	0	Dharamshala
1·5	+0·5	1·8	1·18	+0·96	0·71	25	2	+1·6	0·8	—2·1	1	1	0	1	0	0	1	1	25	0	1	0	0	0	0	1	1	27	Abu
1·0	—0·5	1·2	0	—0·74	0	..	0	—1·2	2·0	+0·1	0	3	4	1	2	1	1	0	18	5	11	4	0	0	0	1	0	9	Pachmarhi
2·7	+0·5	2·6	2·17	+0·61	1·21	21	4	+1·6	5·6	—1·9	0	7	13	8	0	0	1	0	1	2	6	7	0	1	0	5	7	2	Mahabaleshwar
5·5	+0·7	4·9	4·42	+1·42	0·85	22	7	+1·7	4·9	+0·8	0	11	12	0	2	0	1	1	3	0	8	9	0	0	0	2	2	9	Mercara
6·1	+1·2	8·0	9·39	—0·80	1·73	29	13	+0·2	8·1	+0·6	3	7	3	7	1	0	0	7	2	4	3	3	3	1	0	0	8	8	Kodaikanal
4·7	+0·1	5·6	3·13	—3·20	0·55	20	10	—0·5	1·3	—1·4	2	7	4	1	0	0	0	0	16	1	5	3	0	1	0	0	1	19	Ootacamund
5·9	+0·8	..	16·66	+5·43	3·34	11	13	+0·3	3·2	+0·1	4	5	0	14	1	4	0	2	0	..	..	..	..	..	..	..	..	..	Coonoor
																													Tibet
1·5	..	..	0·13	..	0·08	2	0	..	0	..	0	0	0	0	0	0	0	0	30	...	..	..	..	..	..	..	..	..	Lhasa
1·1	+0·2	..	0·15	+0·10	0·06	28	0	—0·2	2·4	—0·7	0	0	2	4	0	0	0	0	24	..	..	..	..	.	..	..	..	..	Gyantse

(c) Mean of 28 days

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Ceylon																						
Colombo	24	1010·8	—0·3	1007·8	85·1	—0·9	87	6,27,30	73·4	—0·3	71	12	78·1	80·2	75·4	75·5	28·8	+1·0	28·0	87	0	79
Trincomalee	24	1010·4	+0·2	1007·5	84·8	—0·3	91	2	74·9	+0·3	72	18	79·4	81·7	75·9	76·2	29·0	+1·0	28·4	84	—2	77
Batticoloa	20	1010·8	..	1007·9	85·8	..	90	2	75·0	..	71	18	79·3	81·7	76·0	76·7	29·2	..	29·1	85	..	79
Hambantota	61	1009·1	—0·1	1006·1	86·3	+0·9	88	8 days	74·6	+0·7	72	17,22	79·4	81·8	76·1	77·1	29·3	+1·5	29·7	85	—2	80
Mannar	12	1011·2	..	1008·2	84·9	..	90	8	76·0	..	72	12,18	79·9	80·8	76·6	77·1	29·8	..	30·1	86	..	84
HYDROMETEOROLOGICAL OBSERVATORIES																						
Damodar Catchment																						
Bokaro	784	987·1	..	984·2	83·8	..	89	4	55·1	..	47	22,23,30	65·1	75·1	60·1	65·6	15·5	..	17·3	73	..	58
Mahanadi Catchment																						
Baramul	210	1007·3	..	1003·6	86·1	..	90	4,8	62·2	..	53	24	69·6	74·4	66·8	69·7	20·0	..	22·7	85	..	78
Hirakud	522	996·7	..	993·3	87·2	..	92	1	62·6	..	56	30	72·7	78·4	65·9	67·5	19·1	..	18·1	68	..	54
Barakachhar	1,136	..	..	..	85·7	..	93	25	58·1	..	51	30	70·0	75·7	64·0	65·5	17·7	..	17·0	66	..	56
Narbada Catchment																						
Punasa	877	..	..	..	92·7	..	98	1	59·4	..	53	9,29	73·9	85·2	52·1	66·8	13·7	..	14·1	49	..	34
Bagra Tawa	1,087	..	..	..	88·3	..	91	1	55·1	..	48	29,30	68·3	79·3	60·1	66·4	14·0	..	16·2	60	..	48
Sabarmati Catchment																						
Dharoi	..	..	..	..	94·5	..	99	1,2	60·2	..	56	13	89·9	..	77·4	..	26·5	..	..	55	..	..

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																			STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52.		53
																														Ceylon
5·2	+0·2	6·6	21·99	+9·14	6·35	12	20	+6·4	..	..	3	6	8	6	2	4	0	0	1	4	1	3	3	1	6	8	3	1		Colombo
5·6	+1·0	6·1	16·59	+2·93	4·88	17	14	+0·1	..	..	2	2	1	0	1	8	5	5	6	12	4	1	1	1	0	3	6	2		Trincomalee
4·5	..	5·1	10·81	..	2·72	17	13	..	..	..	0	0	0	0	2	4	11	8	5	4	12	4	4	1	0	2	3	0		Batticoloa
5·0	+0·9	6·1	8·42	+1·41	2·05	17	12	+2·0	..	..	6	9	0	0	0	3	4	8	0	4	1	2	4	3	10	3	3	0		Hambantota
5·3	..	6·6	9·69	..	1·87	21	16	..	..	..	4	4	5	4	5	3	1	1	3	7	6	0	0	0	3	3	4	7		Mannar
																														HYDROMETEOROLOGICAL OBSERVATORIES
																														Damodar Catchment
1·4	..	0·8	0·10	..	0·09	26	0	..	2·1	..	1	0	0	1	0	7	2	5	14	2	2	0	2	0	0	0	3	21		Bokaro
																														Mahanadi Catchment
..	..	..	1·50	..	1·25	26	2	..	1·0	..	0	9	0	8	2	8	0	0	3	1	1	0	0	1	1	0	2	24		Baramul
..	..	..	0·46	..	0·31	26	2	..	1·3	..	7	5	5	1	3	1	7	1	0	7		6	5	3	0	3	4	0		Hirakud
0	..	0·3	0	..	0	..	0	..	1·5	..	1	4	3	4	5	8	0	1	4	2	11	0	0	0	0	0	0	17		Barakachhar
																														Narbada Catchment
0·1	..	0·3	0·02	..	0·02	25	0	..	3·3	..	0	14	10	2	1	0	0	0	3	0	5	8	4	2	3	0	0	8		Punasa
0·2	..	0·4	0	..	0	..	0	..	1·5	..	1	1	5	0	1	4	4	0	14	0	1	9	3	0	0	0	0	17		Bagra Tawa
																														Sabarmati Catchment
..	..	..	0·58	..	0·58	25	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		Dharoi

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 4TH CLASS STATIONS—NOVEMBER 1951.

STATION.	Maximum temperature, °F.				Minimum temperature, °F.				Mean dry bulb temperature, 0830 hrs. I.S.T. °F.	Mean wet bulb temperature, 0830 hrs. I.S.T. °F.	Vapour pressure, millibars.		Relative humidity %		Mean cloud amount, 0830 hrs. I.S.T.	Rainfall, inches.				Number of rainy days, (0·10" or more)		Wind.	
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.			Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 0830 hrs. I.S.T.	Departure from normal.		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Resultant Direction 0830 hrs. I.S.T.	Velocity in miles per hour.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Assam																							
Lumding	83·6	+4·5	90	1	59·7	0	53	30	70·2	67·0	21·4	+1·1	84	—5	..	0·73	—0·42	0·50	27	2	+0·1	..	..
Uttar Pradesh, West																							
Lokpal	Closed during winter months																						
Jammu and Kashmir																							
Jammu	81·6	+3·6	89	2,13	59·8	+3·6	51	27	62·2	53·9	10·2	+0·7	55	—1	3·1	0·91	+0·63	0·65	25	2	+1·4	N11E	..
Kargil (R)																							
Mysore																							
Balehonnur	80·9	+2·0	85	4	65·2	+3·7	59	23	68·8	67·3	22·2	+3·0	92	+7	..	3·12	+0·28	1·56	20	4	—0·7	..	..
Nandi Hills	72·8	..	76	8	60·2	..	56	26	64·5	60·0	15·8	..	96	..	5·2	0·26	..	0·09	20	0	..	..	..
Sikkim																							
Lachen	..	..	..	..	34·4	..	26	30	42·5	..	..	..	..	..	..	1·93	..	0·87	27	4	..	..	..
Tibet																							
Yatung (Chumbi)	53·3	+1·1	60	1,2	31·2	+3·5	20	30	43·2	41·1	8·2	+2·3	85	+5	1·3	0·49	+0·05	0·18	3	3	+2·1	..	..
HYDROMETEOROLOGICAL OBSERVATORIES																							
Mahanadi Catchment																							
Sonepur	85·0	..	89	3	64·0	..	58	30	72·2	67·5	20·7	..	78	..	..	0·95	..	0·63	26	2	..	S39W	1·7
Ginabahar	87·9	..	92	8	61·5	..	59	28	70·6	64·1	17·5	..	69	..	..	0	..	0	..	0	..	..	..
Ganga Catchment																							
Tapoban	65·0	..	78	3	43·8	..	35	25,26,27	50·3	..	..	..	..	..	..	1·69	..	1·37	25	2	..	..	..
Badrinath	Closed during winter months																						
Narbada Catchment																							
Thikri	94·6	..	100	4	60·2	..	54	13	72·9	63·7	16·3	..	58	..	..	0·05	..	0·05	23	0	..	..	..
Sabarmat Catchmenti																							
Jhadol	87·4	..	92	1,2	52·0	..	46	10	63·4	56·4	12·6	..	62	..	..	0·80	..	0·58	24	2	..	..	..

(R)—Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 5TH CLASS STATIONS—NOVEMBER 1951.

Division.	Station	Rainfall, inches.				Number of rainy days, 0.10" or more).	
		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.
1	2	3	4	5	6	7	8
Assam	Mawsynram	0·50	..	0·50	26	1	..
West Bengal	Bankura	1·20	+0·55	1·20	26	1	−0·1
Bihar	Muzaffarpur	0·10	−0·19	0·10	28	1	+0·5
	Chapra	0	−0·36	0	..	0	−0·5
	Arrah	0	−0·37	0	..	0	−0·6
Punjab (1)	Dalhousie	2·77	+2·01	2·32	26	2	+1·1
	Kyelang	1·97	+1·62	1·72	25	2	+1·2
	Gondla	4·24	..	3·25	25	3	..
	Koksar	1·63	..	1·27	26	2	..
	Kothi	4·34	..	2·00	25	4	..
	Dharampore	6·01	+5·69	5·15	26	3	+2·2
	Kharsali	0·31	..	0·15	28	2	..
	Rana	0·26	..	0·16	26	2	..
	Jamuna Chetty	2·28	..	1·18	25	2	..
Jammu and Kashmir	Sonamarg	0·25	−1·30	0·15	26	2	−0·9
	Gurez	0	−1·03	0	..	0	−2·9
Deccan (Desh)	Khandala	1·78	+1·02	1·07	22	3	+2·3
Sikkim	Thangu	1·92	..	0·80	29	3	..
	Chungthang	4·22	..	1·25	28	9	..

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

(From Ascents at 15 hrs. G.M.T.)

NOVEMBER 1951

Standard Pressure Surface mbs.	ALLAHABAD (Sr. Pr. 1002 mb.)						CALCUTTA (1012 mb.)						JODHPUR (988 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	098	295·0	298	290	282·8	30	7	295.7	300	292	291·5	30	218	297·3	301	293	281·0
1000	30	111	..	..	..	..	30	114	..	..	..	..	30	112	..	..	..	..
900	30	1028	292·7	297	286	274·9	30	1030	291·3	294	286	282·1	30	1034	294·5	300	287	277·0
850	30	1515	288·9	293	283	271·9	30	1516	287·8	291	284	278·0	30	1525	290·3	295	283	274·6
800	30	2028	284·5	291	275	268·8	30	2027	285·1	289	281	272·5	30	2040	285·9	289	278	272·7
700	30	3133	279·6	284	275	259·3	29	3137	280·6	286	276	258·2	30	3147	279·3	285	274	265·0
600	30	4338	273·0	277	269	255·3	27	4391	275·0	280	268	251·6	30	4395	271·7	280	266	259·6
500	29	5818	263·7	271	258	..	27	5835	265·3	271	257	..	29	5821	262·2	268	254	..
400	28	7504	252·2	259	243	..	26	7528	253·9	261	242	..	29	7499	250·4	257	241	..
300	25	9565	238·3	249	229	..	23	9622	240·1	249	231	..	27	9558	236·7	245	229	..
250	23	10812	229·5	242	221	..	16	10873	229·8	240	223	..	27	10795	227·7	236	221	..
200	22	12273	218·7	236	209	..	11	12385	219·8	228	210	..	27	12251	217·1	226	210	..
175	18	13126	212·8	232	203	..	5	13262	214·2	218	210	..	23	13084	211·7	223	205	..
150	14	14085	209·5	227	198	..	..	..	..	..	..	..	14	14055	207.6	218	202	..
125	10	15233	205·1	219	196	..	..	..	..	..	..	..	8	15116	201.7	210	195	..
100	5	16535	196·4	205	185	..	..	..	..	..	..	..	7	16437	199.1	209	190	..
80																		

Standard Pressure Surface mbs.	MADRAS (1009 mb.)						NAGPUR (977 mb.)						NEW DELHI (988 mb.)					
Surface	29	15	299·9	302	297	295·3	29	307	295·5	298	293	285·3	30	218	294·5	302	287	285·2
1000	29	97	..	..	..	..	29	110	..	..	..	..	29	115	..	..	..	..
900	29	1019	293·8	296	290	288·1	29	1030	294·9	297	292	281·8	29	1031	293·6	299	283	277·4
850	29	1516	291·7	294	287	284·1	29	1523	291·3	293	288	279·8	29	1520	289·0	295	280	273·3
800	29	2034	289·2	293	285	279·1	29	2041	287·6	293	285	275·6	29	2032	285·7	291	275	269·6
700	29	3160	284·0	288	281	272·9	28	3159	282·6	286	278	264·7	29	3141	279·0	284	270	261·7
600	29	4323	277·3	280	273	264·7	26	4426	276·1	281	271	256·6	29	4390	272.1	278	264	262·3
500	28	5891	268·7	273	264	..	23	5879	267·7	272	262	..	28	5819	261·2	268	252	..
400	28	7526	259·0	263	252	..	22	7599	256·1	261	251	..	28	7495	249·5	256	241	..
300	26	9753	246·8	252	242	..	16	9694	241·9	246	235	..	27	9471	236·7	250	223	..
250	24	11023	235·5	242	231	..	8	10982	232·4	237	225	..	26	10790	228·1	240	217	..
200	17	12549	225·0	231	218	..	5	12454	220·4	226	215	..	26	12255	219·2	231	210	..
175	14	13424	218·7	225	213	..	..	..	..	..	..	..	20	13078	214·2	226	205	..
150	11	14397	210·1	218	202	..	..	..	..	..	..	..	16	14063	209·2	220	202	..
125	5	15536	205·2	211	203	..	..	..	..	..	..	..						
100																		
80																		

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

(From Ascents at 15 hrs. G.M.T.)

NOVEMBER 1951

Standard Pressure Surface mbs.	POONA (Sur. Pr. 949 mb.)						PORT BLAIR (1008 mb.)						TRIVANDRUM (1003 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	557	296·0	300	293	288·4	26	21	300.0	301	298	297·0	30	64	298·8	301	297	297·2
1000	30	102	..	..	..	..	26	98	..	..	..	..	29	92	..	..	..	..
900	30	1024	297·8	301	293	283·1	26	119	295·0	296	291	291·0	29	1017	293·9	296	291	291·1
850	30	1521	294·6	298	292	281·1	26	1512	292·0	294	290	288·0	29	1511	291·7	294	289	288·7
800	30	2045	289·7	295	286	279·3	25	2033	289·0	292	288	284·0	29	2031	289·3	292	287	284·9
700	30	3169	283·7	287	281	268·2	25	3169	284·0	286	280	277·0	29	3158	283·5	286	281	279·8
600	30	4440	277·5	282	274	260·2	24	4431	277·0	280	273	268·0	28	4429	276·9	281	273	274·0
500	30	5904	269·1	272	265	..	22	5890	269·0	271	266	..	28	5888	268·9	272	265	..
400	30	7631	258·7	262	253	..	19	7618	269·0	262	255	..	25	7618	259·7	263	257	..
300	27	9753	245·2	253	242	..	15	9742	245·0	247	242	..	21	9758	246·7	250	243	..
250	24	11035	235·1	238	231	..	11	11017	235·0	238	233	..	19	11047	236·4	246	231	..
200	20	12549	225·0	228	218	..	6	12525	223·0	226	220	..	15	12557	225·7	228	223	..
175	16	13395	219·3	224	215	..							8	13421	219·4	221	217	..
150	18	14391	211·3	217	207	..							8	14409	211·9	215	210	..
125	9	15511	207·2	211	203	..							6	15513	206·3	209	201	..
100	5	16819	200·0	205	197	..							6	16862	201·8	205	197	..
80																		

Standard Pressure Surface mbs.	VERAVAL (1010 mb.)						VISAKHAPATNAM (1006 mb.)					
Surface	30	8	296.8	302	297	295·7	30	48	299·7	302	296	294·1
1000	30	97	..	..	..	..	30	102	..	..	..	..
900	30	1027	296·3	299	291	284.9	30	1026	293·4	297	291	288.4
850	30	1522	293·0	296	287	283.2	30	1518	290·8	295	287	285·0
800	30	2044	289·1	292	285	280·0	30	2034	288·2	293	284	279·3
700	30	3168	283·7	288	279	271·1	30	3156	283·2	287	278	268·4
600	30	4441	277·5	281	272	263·5	30	4416	277·2	280	274	266·1
500	28	5907	268·8	273	265	..	30	5889	268·6	272	262	..
400	26	7627	257·8	266	252	..	30	7609	258·0	263	253	..
300	22	9737	242·4	249	235	..	25	9727	243·9	250	240	..
250	17	11008	233·6	240	227	..	20	11011	234·6	243	231	..
200	12	12490	223·1	228	219	..	16	12489	224·1	226	221	..
175	12	13354	216·0	223	212	..	10	13357	217·2	219	215	..
150	8	14343	214.3	224	206	..	10	14338	209·7	212	204	..
125							5	15411	204·6	207	201	..
100							5	16744	200·6	204	194	..
80												

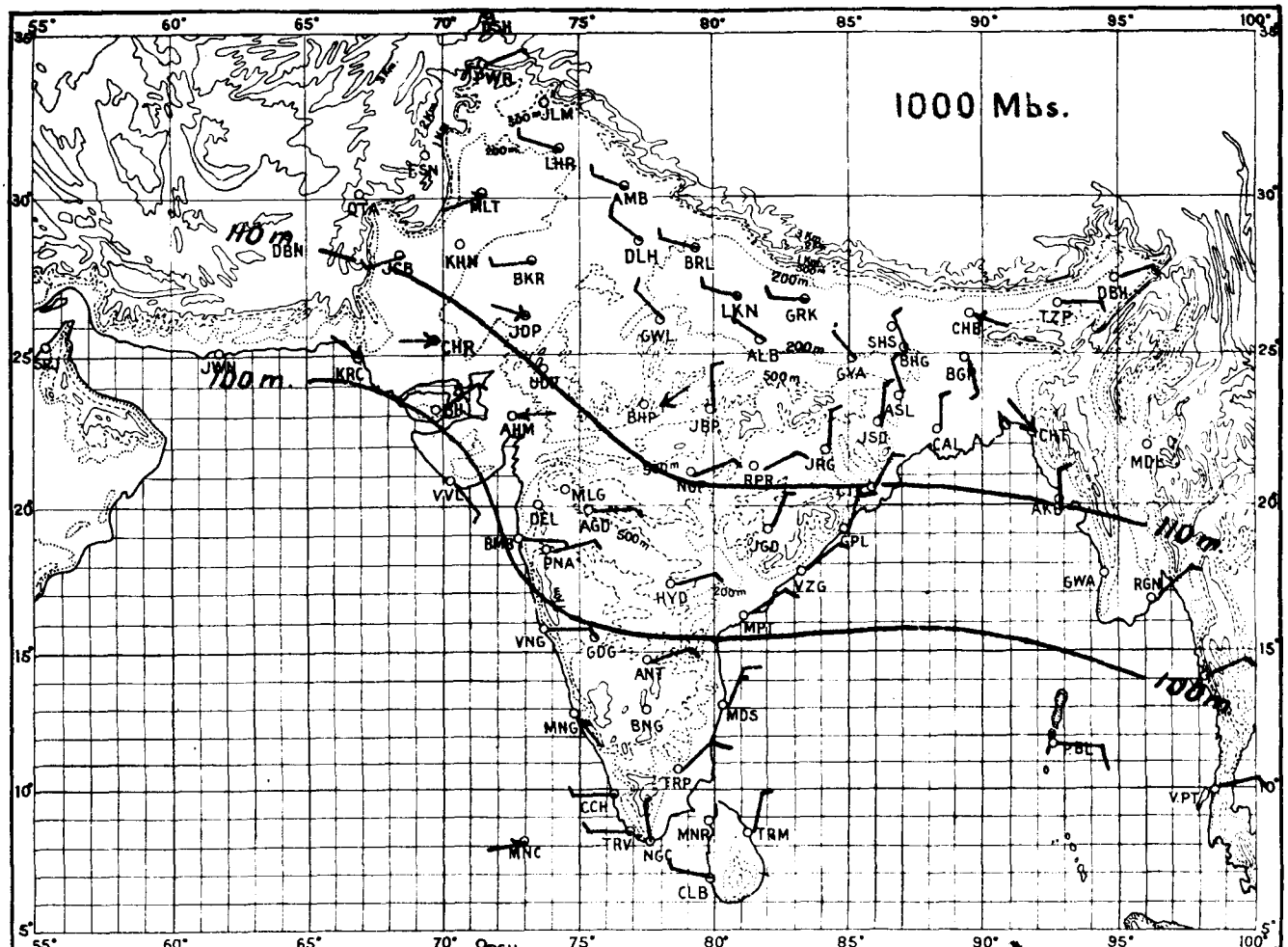
NOTE.—Number of observations refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperatures less than 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

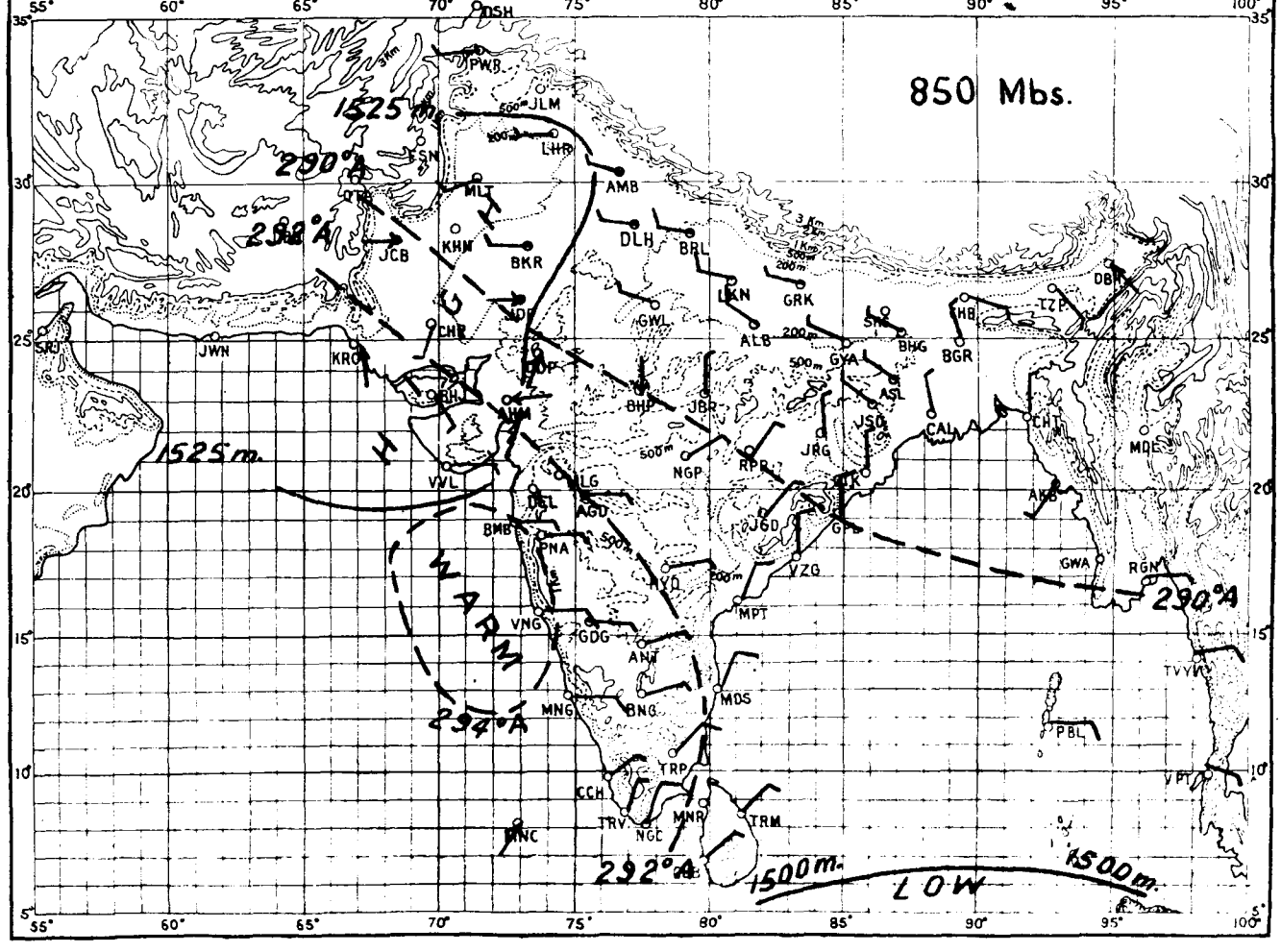
GIPN—S1—10 D.D.G.O.M. Poona—17-11-53—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

NOVEMBER 1951

Plate I





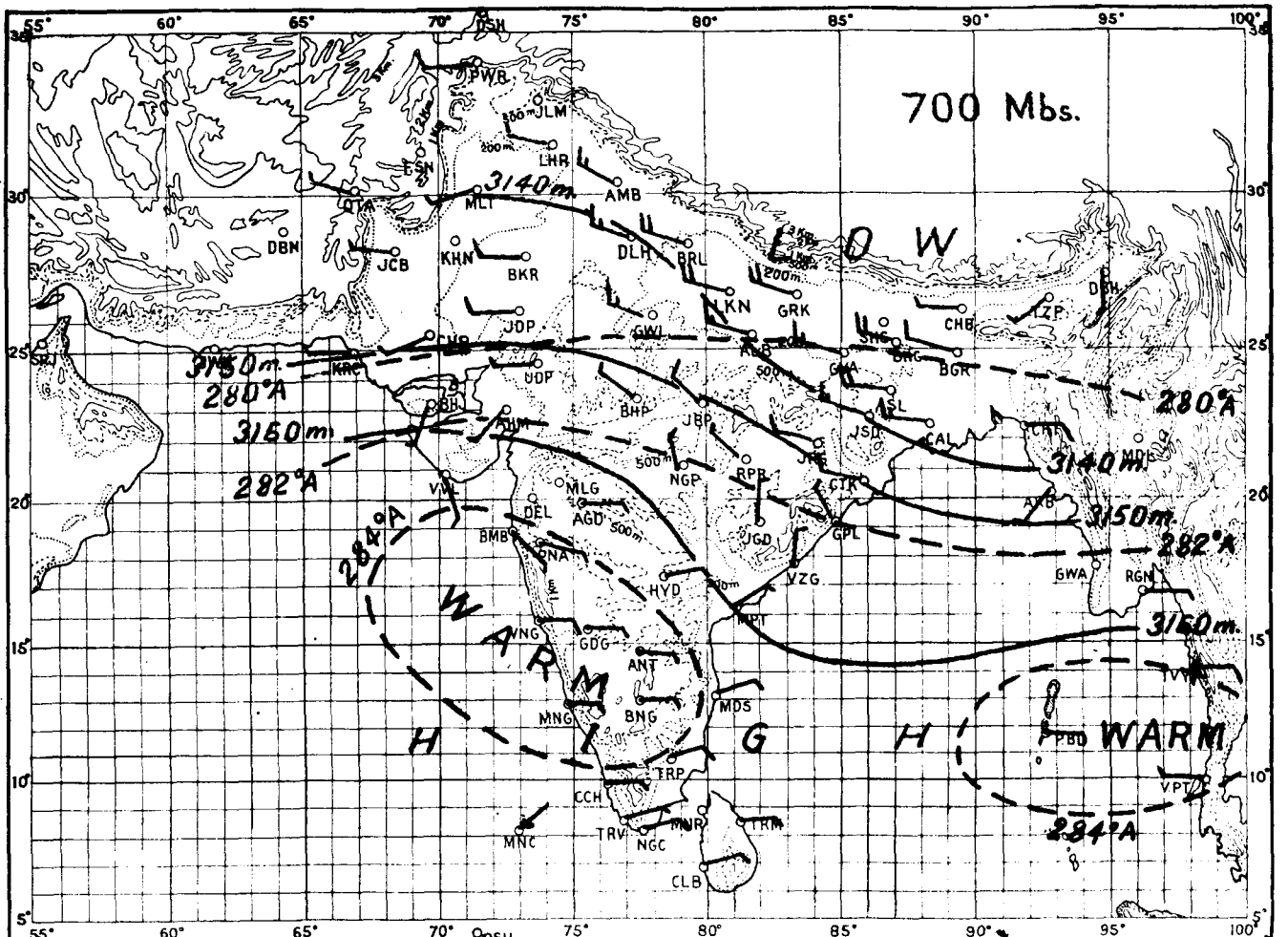
RESULTANT WIND ——— = 5 Knots, ——— = 10 Knots, ——— = 50 Knots. GPZ P POONA, 1951

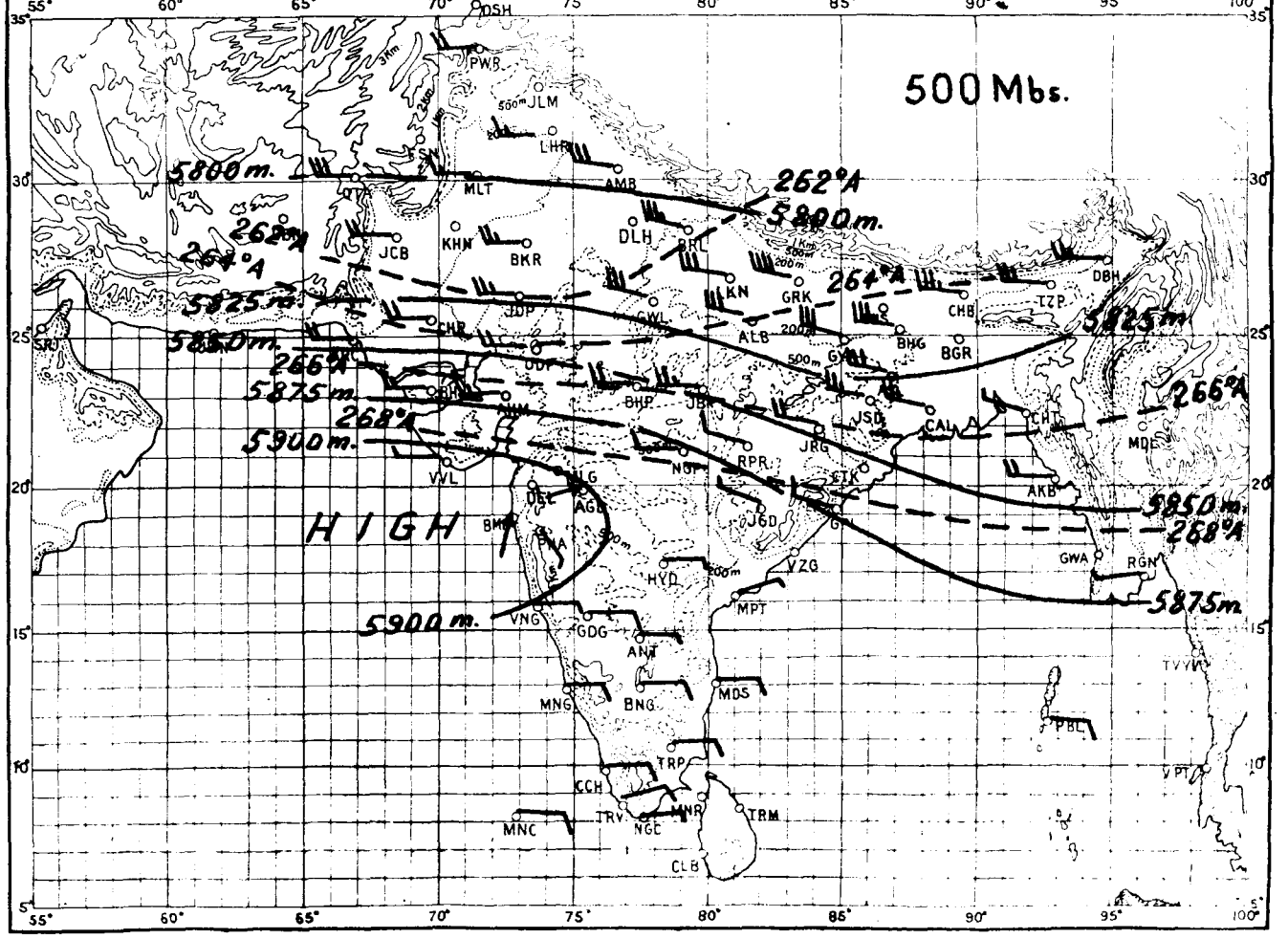
— — — *Isotherms in degrees Absolute* ——— *Contours in geopotential Metres.*

MONTHLY MEAN CONSTANT PRESSURE CHARTS

NOVEMBER 1951

Plate II





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

- - - - Isotherms in degrees Absolute —— Contours in geopotential Metres.

Registered No. B—3097

INDIA WEATHER REVIEW, 1951

Monthly Weather Report

December

Published by authority of the Government of India

Chief features.—(1) A severe cyclonic storm in the Bay of Bengal, (2) weak northeast monsoon in the south Peninsula and (3) inactive western disturbances.

In association with the westward passage of a low pressure wave across the extreme south of the Peninsula, there was a temporary revival of the northeast monsoon towards the end of November, and widespread or local thundershowers occurred in Tamilnad, Malabar and south Kanara and Travancore-Cochin on the first day of the month. Thereafter, weather remained mostly dry in the south Peninsula during December.

A depression formed in the southeast Bay of Bengal on the 5th evening with its centre near Lat. 9°N., Long. 90°E. Moving initially northwestwards, it intensified into a cyclonic storm next evening with centre near Lat. 10°N., Long. 89°E. By the 7th morning the storm became severe and was centred near Lat. 11°N., Long. 88°E. Curving thereafter to a northerly to northnortheasterly course, it was situated on the 10th evening near Lat. 18½°N., Long 88½°E. as a severe storm of small extent with a core of violent winds. S.S. Jalprakash (Lat. 17.7°N., Long. 87.1°E) reported a northwesterly wind of force 50 knots at 1730 hrs. on the 10th. On the next morning the cyclonic storm was centred about 250 miles southsoutheast of Calcutta. It weakened rapidly thereafter, and only a trough of low pressure lay off the Chittagong-Arakan coast on the 13th evening. Subsequently, it became unimportant with the passage of a low pressure wave eastwards across the Arakan coast and central Burma between 15th and 17th. In association with this disturbance, local showers occurred in Assam on the 16th and a few showers on the 14th and 17th. A few light showers were also reported from coastal Tamilnad on the 8th and from Hyderabad on the 14th. Despite considerable distance from the cyclonic storm, heavy swells affected the entire east coast of India between the 7th and 11th on account of which movement of ships had to be restricted at many of the ports. Inundation of certain low lying coastal areas and some damage to light vessels were also reported.

During the latter half of the month scattared light showers were reported from Assam, Sub-Himalayan West Bengal, south Hyderabad, Tamilnad and Travancore-Cochin.

Seven western disturbances moved across the extreme north of the country during the month. Of these the first four were feeble and did not cause any precipitation. The remaining three disturbances moved successively northeastwards during the last week from north Baluchistan across the Punjab (P), and caused a few falls of rain or snow in Kashmir between the 26th and 31st. The sixth disturbance induced a secondary over the Punjab (I) and north Rajasthan on the 29th. Moving eastnorth-eastwards the secondary crossed the Simla-Kumaon hills by the 31st, causing a few showers in and near the hills of the Punjab (I) on the last day of the month.

The partial failure of the northeast monsoon over Tamilnad, Rayalaseema and coastal Andhradesa led to famine conditions in about 12 districts of the Madras State. Even in the city of Madras, the supply of drinking water had to be somewhat curtailed. Famine conditions were also reported from parts of east Uttar Pradesh due to deficient rains there.

Total rainfall for the month was in large excess in the Bay Islands and Malabar and south Kanara and in moderate excess in Assam. It was in large defect in south Hyderabad, Tamilnad and Travancore-Cochin. Elsewhere no rain fell. Averaged over the plains of India, the rainfall was 84% in defect.

The mean maximum temperature was above normal in Assam, West Bengal, Bihar, east Uttar Pradesh and the Punjab (I) and normal elsewhere. The mean minimum temperature was above normal in the Bay Islands and west Rajasthan, below normal in Madhya Bharat, Vindhya Pradesh, west Madhya Pradesh and north Hyderabad and normal elsewhere.

JUN 15 1955

The mean relative humidity was above normal in the Bay Islands, west Uttar Pradesh, the Punjab (I), below normal in Chota Nagpur, Madhya Bharat, Madhya Pradesh, Gujarat, Deccan (Desh), north Hyderabad, Rayalaseema and Tamilnad and normal elsewhere.

The mean cloud amount was above normal in the Bay Islands, Malabar and South Kanara and Travancore-Cochin, normal in Assam, north Hyderabad, coastal Andhradesa, Rayalaseema and Tamilnad and below normal in the rest of the country.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amounts for the 13 chief political divisions and the 27 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 hrs. ending at 0830 hrs. I.S.T. of the date noted in the succeeding column; similarly the heaviest fall in 24 hrs. 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;
Dated the 18th March 1952

S. BASU,
for *Director General of Observatories.*

	Rainfall				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—									
1. Assam (including Manipur and Tripura).	0·41	0·32	+0·09	+28	+2·0	+1·2	+1·0	−3	−0·1
2. West Bengal	0	0·15	−0·15	−100	+2·1	+1·7	+0·3	−2	−0·3
3. Orissa	0	0·21	−0·21	−100	+1·0	+1·4	+0·2	−1	−0·4
4. Bihar	0	0·18	−0·18	−100	+2·1	−0·1	−0·1	−6	−0·8
5. Uttar Pradesh	0	0·40	−0·40	−100	+1·7	0	+0·4	+3	−1·1
6. Punjab (I) (including PEPSU and Delhi).	0	0·57	−0·57	−100	+2·7	+1·1	+0·7	+10	−1·2
7. Rajasthan	0	0·17	−0·17	−100	+1·4	+0·6	+0·2	0	−1·2
Sub-Division—									
1. Bay Islands	17·12	7·92	+9·20	+116	+0·2	+2·2	+1·9	+8	+1·3
2. Assam (including Manipur and Tripura).	0·41	0·32	+0·09	+28	+2·0	+1·2	+1·0	−3	−0·1
3. West Bengal	0	0·15	−0·15	−100	+2·1	+1·7	+0·3	−2	−0·3
4. Orissa	0	0·21	−0·21	−100	+1·0	+1·4	+0·2	−1	−0·4
5. Chota Nagpur	0	0·24	−0·24	−100	+1·2	+0·2	−0·3	−8	−1·0
6. Bihar	0	0·15	−0·15	−100	+2·7	−0·3	+0·1	−5	−0·7
7. Uttar Pradesh, East.	0	0·30	−0·30	−100	+2·3	−0·1	−0·2	−2	−1·0
8. Uttar Pradesh, West.	0	0·50	−0·50	−100	+1·1	0	+1·0	+7	−1·1
9. Punjab (I) (including PEPSU & Delhi).	0	0·57	−0·57	−100	+2·7	+1·1	+0·7	+10	−1·2
10. Jammu & Kashmir.	Data incomplete.								
11. Rajasthan, West	0	0·13	−0·13	−100	+1·9	+2·6	+1·1	−1	−1·3
12. Rajasthan, East (including Ajmer).	0	0·21	−0·21	−100	+0·9	−1·1	−0·5	+1	−1·1
13. Madhya Bharat	0	0·27	−0·27	−100	+1·6	−2·3	−2·0	−7	−1·0
14. Vindhya Pradesh	0	0·39	−0·39	−100	+1·8	−3·1	−0·2	+4	−1·5

	Rainfall				Departure from normal of				
							0830 hrs. I.S.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
Division—*contd.*									
8. Madhya Bharat & Vindhya Pradesh.	0	0·32	−0·32	−100	+1·7	−2·6	−1·2	−2	−1·2
9. Madhya Pradesh	0	0·37	−0·37	−100	+1·2	−1·5	−1·3	−6	−1·0
10. Bombay (including Saurashtra and Kutch).	0	0·18	−0·18	−100	+1·4	−0·7	−1·8	−5	−0·6
11. Hyderabad	0	0·21	−0·21	−100	+0·3	−1·6	−2·1	−7	−0·4
12. Madras (including Travancore-Cochin).	0·58	2·50	−1·92	−77	+1·3	−0·2	−1·6	−7	0
13. Mysore	0	0·50	−0·50	−100	+0·3	−1·1	−0·6	0	−0·7
Mean of India	0·09	0·56	−0·47	−84	+1·4	−0·3	−0·7	−3	−0·7
Sub-Division—*contd.*									
15. Madhya Pradesh, East.	0	0·20	−0·20	−100	+1·3	0	−0·7	−7	−1·0
16. Madhya Pradesh, West.	0	0·45	−0·45	−100	+1·1	−2·2	−1·5	−6	−1·0
17. Gujarat	0	0·05	−0·05	−100	+1·5	+0·3	−2·6	−11	−0·7
18. Saurashtra and Kutch.	0	0·07	−0·07	−100	+1·9	+0·3	−1·5	−1	−0·8
19. Konkan	0	0·23	−0·23	−100	+1·7	−0·2	−0·8	0	−0·4
20. Deccan (Desh)	0	0·27	−0·27	−100	+1·0	−1·7	−2·0	−6	−0·6
21. Hyderabad, North.	0	0·23	−0·23	−100	+0·4	−2·1	−2·4	−9	−0·3
22. Hyderabad, South.	0·01	0·20	−0·19	−95	+0·3	−1·3	−1·8	−5	−0·5
23. Coastal Andhradesa.	0	0·97	−0·97	−100	+1·5	0	−0·9	−4	−0·2
24. Rayalaseema	0	0·35	−0·35	−100	+0·7	−0·2	−1·8	−11	−0·2
25. Tamilnad	0·92	4·55	−3·63	−80	+1·6	+0·1	−2·1	−8	−0·2
26. Malabar & South Kanara.	1·87	0·76	+1·11	+146	+0·8	−1·3	−1·5	−2	+0·6
27. Mysore	0	0·50	−0·50	−100	+0·3	−1·1	−0·6	0	−0·7
28. Travancore-Cochin.	0·25	2·03	1·78	−88	+0·5	−0·4	−0·8	−5	+0·7

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bay Islands—																						
Port Blair	259	1003·7	—0·5	1001·3	83·8	+0·2	87	1	75·1	+2·2	70	12	81·1	78·1	76·1	74·5	28·5	+1·9	27·7	79	+8	84
Assam																						
Dibrugarh	348	1006·2	—0·2	1002·0	76·5	+2 5	82	5	52·1	+1·0	47	28	63·6	64·0	59·7	60·2	15·7	+0·5	15·9	80	—11	79
Mohanbari (R)	364																					
Sibsagar	317	1007·4	—0·1	1003·4	75·3	+3·1	81	16	52·3	+1·4	45	27	62 4	65·4	60·3	62·1	17·0	+1·5	17·3	88	—6	82
Tezpur	258	1009·5	—0 2	1005·1	78·3	+3·1	83	13	54·2	+0·1	51	5 days	59·1	67·3	57·4	62·7	15·6	+0·1	17·5	90	+2	76
Gauhati D. Type	162	1012·0	...	1008·0	76·9	...	81	4	52·8	...	48	4 days	63 4	65·7	61·0	62·6	17 1	...	18·1	87	...	83
Gauhati	182	1011·8	+0·1	1006·7	76·7	+1·1	82	17	53·3	+0·6	49	26,28	61·5	69·0	59·9	63·7	17·0	+1·0	17·5	91	+2	73
Dhubri	115	1014·0	+0·1	1010·2	74·9	+0·8	81	17	57·9	+2·2	53	18	63·4	69·2	59·9	63·4	16·0	+0·1	17·1	81	—2	70
Silchar	96	1013 7	—0·7	1010·0	80·7	+0 9	87	5,14	57·9	+3·2	51	25	66·1	72·5	62·3	65·6	17·3	+0·9	18·3	81	—2	68
Tura	1,215	975 2	...	972·2	78·2	...	87	12	57·7	...	52	18,24	63·6	66·5	59 2	63·2	15·1	...	18·0	73	...	83
West Bengal—																						
Dum Dum	33	1015·6	...	1012·1	80·1	...	86	7	58·5	...	53	20,21	66·6	73·3	60·6	63·6	15·4	...	15·9	69	...	56
Calcutta	21	1016·1	—0·9	1012·7	80·6	+1·2	85	7,8	59·6	+4·6	54	20,21	67·2	71·9	61·6	64·6	16·3	+1·5	17·2	71	—6	65
Saugor Island	10	1015·4	—1·7	1012·3	78·2	+1·3	83	8,12,13	63·2	+4·0	58	24,25,29	69·8	73·0	64·0	65·7	17·6	+0·2	18·1	72	—5	66
Sandheads	32	1014·7	—1·7	1012·2	...	...	...	...	...	...	...	...	74.8	76·0	66·9	67·5	18·8	+0·6	19·1	64	+6	62
Midnapore	149	1011·7	—0·8	1008·2	79·6	—0·2	86	13	56·3	+0·8	49	24	65·8	73·2	58·8	64·3	13·8	+0·7	16·4	64	+1	60
Contai	35	1014·9	...	1011·3	79·3	...	85	13	58·7	...	54	22	64·4	74·1	60·0	64·5	15·6	...	16·5	76	...	58
Burdwan	106	1013·0	—1·2	1009·5	81·8	+2·9	89	7	56·5	+0·6	51	23,24	64·9	75·1	58·6	64·0	13·8	+0 3	15·5	66	—2	61
Krishnagar	48	1015·3	—0·9	1011·9	81·8	+3·1	89	7	54·0	+0·9	48	20	63·9	71·5	60·2	64·0	16·3	+1·8	16·9	79	+5	65
Asansol	414	1002·6	—0·6	999·0	80·2	+1·6	86	12,13	55·1	+1·7	50	19,22	63·4	72·8	56·4	60·8	12·4	—0·6	12·8	63	—4	46
Berhampore	62	1014·9	—0·9	1011·3	81·5	+4·4	90	7	56·0	+0·9	50	17	63·0	72·6	58·4	64·1	14·7	0	16·6	75	—1	61
Malda	103	1013·8	—0·7	1010·1	78·3	+2·5	85	7	53·5	+1·0	47	17,18,19	64·4	71·6	58·4	62·9	14·0	—0·3	15 9	68	—5	59
Cooch Behar (R)	145																					
Jalpaiguri	271	1008·2	—0·1	1004·4	79·2	+2·5	86	13	52·7	—0·5	50	18,26,27	57·9	71·5	54·7	62·4	13·4	—1·2	15·2	81	—3	58
Bagdogra	416	1002 9	...	...	1·0	...	88	12	46 5	...	44	5 days	64·1	...	57·7	...	13·3	...	...	66	...	...
Orissa—																						
Balasore	65	1014·3	—1·3	1010·9	80·4	+0·4	86	13	58·7	+3·0	54	5 days	65·8	72 7	59·9	65·2	14·9	+0·7	17·9	70	0	66
Chandbali	20	1016·3	—0·3	1012·9	81·0	+0·7	85	13,14	59·4	+1·6	53	22,23,25	69 0	72·8	63·6	66·3	17·5	+1·5	19·1	70	—5	67
Puri	20	1015·8	—0·8	1012 6	81·7	+1·2	88	14	64·3	+1·8	60	25	69·9	76·0	63·4	67·2	17·0	—0·1	18·5	70	—2	62
Cuttack	87	1013·6	—1·2	1009·9	82·0	+0·8	86	13,14	60·4	+1·7	55	24,25	65 7	76·2	60·9	65·5	15·9	+0·1	16·9	74	—1	53
Gopalpur	56	1014·7	—0·7	1011·2	82·5	+2·1	90	12	62·1	+1·1	57	23,24	69·5	76·3	63·4	67·1	17·3	+0·1	18·7	70	—2	60
Koraput	2,996	914·5	...	911·7	73·8	...	79	7,14	50·6	...	44	25	61·7	67·7	55·8	59·0	12·7	...	13·7	70	...	61
Angul	455	1001·4	—0·1	997·6	80·6	+0·6	85	13,15	56·5	+1·5	51	24	62·9	75·8	58·3	63·4	14·6	+0·1	14·3	74	+2	47
Sambalpur	486	1000·1	—0·8	996·4	81·5	+1·3	86	13,14	52·8	—1·0	48	4 days	61·7	75·3	56·8	63·8	13·4	—0·8	15·0	72	—1	50
Jharsuguda	726	991·7	...	988·0	...	...	...	...	...	...	...	...	63·8	70 0	56·5	59·5	12·1	...	12·7	61	...	51
Titilagarh	691	992·8	...	988·9	82·7	...	87	14,31	53 9	...	49	23,24	63·6	77·1	58·1	64·4	14·1	...	15·2	70	..	46
Chota Nagpur—																						
Purulia	835	988 6	...	985·0	78 4	...	85	14	55·7	...	52	19,20,21	64·6	72·6	56·8	62·1	12·1	...	14·3	59	...	52
Jamshedpur	423	1002·5	—0·5	998·6	80·7	+0·9	83	13	53·9	+2·4	48	20,22	61·4	73·0	55·8	62·0	12·8	—0·1	14·0	69	—6	51
Chaibasa	742	991·2	—0·5	987·5	79·9	+1·7	85	14,31	53·1	+1·5	48	21	61·2	73 3	55·9	61·7	12·7	—0·6	13·7	70	—6	49
Ranchi	2,150	942·8	—0·2	934·3	74·5	+1·6	81	14,31	49·6	—1·0	45	18,21,22	63·0	66·5	53·5	58·2	10·2	—0·1	13·0	52	—6	60
Hazaribagh	2,006	948·0	0	945·2	73·8	+1·4	79	14,31	48 6	—1·4	43	18,19,21	61·6	65·3	53·4	54·4	10·8	+0·4	9·9	57	—4	47
Daltonganj	725	992·9	0	988·8	76·9	+0·5	81	13	46·2	—0·3	41	18	58·8	68·5	52·4	58·6	10·5	—1·1	12·3	62	—17	51
Dhanbad	839	987·6	...	984·3	78·9	...	85	14	54·5	...	49	19,21,23	65·9	71·4	56·4	59·1	11·3	...	11·4	51	...	43

(R) Register not received.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																		STATION.
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bay Islands
5·5	+1·3	5·6	17·12	+9·20	4·02	8	11	+3·8	10·3	+1·2	4	15	6	2	1	1	1	1	0	1	13	10	0	2	2	2	0	1	Port Blair
																													Assam
2·5	−0·1	1·4	2·32	+1·69	0·90	30	3	+1·6	0·6	+0·1	2	5	10	2	0	0	0	3	9	0	1	1	0	0	0	0	0	29	Dibrugarh
																													Mohanbari (R)
4·5	−1·4	1·6	0·41	−0·17	0·14	17	2	+0·5	1·7	+0·7	8	4	1	5	3	2	1	1	6	1	6	1	0	0	1	2	1	19	Sibsagar
1·1	−0·9	0·9	0	−0·25	0	...	0	−0·7	1·0	−0·4	3	7	16	2	0	1	0	0	2	0	4	5	0	0	0	0	0	22	Tezpur
2·4	...	1·2	0	...	0	...	0	...	1·6	...	0	19	0	1	1	0	0	0	10	0	5	0	0	0	1	0	0	25	Gauhati D. Type
3·1	+1·2	1·1	0	−0·16	0	...	0	−0·5	1·7	+0·6	7	9	4	2	2	1	0	1	5	0	1	1	6	0	0	0	0	23	Gauhati
1·3	0	1·0	0	−0·07	0	...	0	−0·1	4·2	+0·7	4	20	4	0	1	0	1	0	1	1	14	5	0	0	3	2	1	5	Dhubri
2·3	+0·3	1·5	0·09	−0·33	0·09	16	0	−0·7	0·3	−0·6	0	2	3	0	0	0	0	0	26	0	1	1	0	1	1	0	0	27	Silchar
1·3	...	1·5	0	...	0	...	0	...	3·2	...	0	8	14	2	1	0	0	0	6	0	10	12	8	0	0	0	0	1	Tura
																													West Bengal
1·2	...	1·2	0	...	0	...	0	...	3·1	...	16	3	2	0	1	1	1	7	0	9	1	2	0	1	1	0	14	3	Dum Dum
1·1	−0·3	1·0	0	−0·18	0	...	0	−0·3	2·4	+0·5	8	2	0	0	0	0	0	4	17	2	1	1	0	0	1	2	0	24	Calcutta
1·6	−0·3	1·4	0	−0·21	0	...	0	−0·4	8·5	+3·0	13	10	1	1	0	1	0	5	0	9	8	2	1	3	2	3	3	0	Saugor Island
2·2	+0·4	2·0	0	−0·15	0	...	0	−0·3	...	...	15	10	0	0	1	2	0	3	0	9	2	0	2	0	2	1	6	9	Sandheads
1·0	−0·3	0·7	0	−0·16	0	...	0	−0·3	3·1	+1·7	24	3	1	0	0	0	0	0	3	5	2	0	0	0	0	0	0	24	Midnapore
0·6	...	0·7	0	...	0	...	0	...	2·3	...	20	5	0	0	0	0	0	3	3	9	0	0	0	6	1	0	0	15	Contai
0·3	−1·1	0·3	0	−0·19	0	...	0	−0·3	2·5	+1·3	17	2	0	0	0	6	0	4	2	5	6	0	1	0	2	0	4	13	Burdwan
1·5	+0·2	1·3	0	−0·11	0	...	0	−0·2	1·4	+0·3	11	1	1	1	0	0	7	7	3	2	0	0	0	0	0	0	0	29	Krishnagar
0·7	−0·7	0·8	0	−0·18	0	...	0	−0·4	3·8	+0·5	2	0	0	0	0	0	7	22	0	4	0	0	0	0	0	1	10	16	Asansol
0·9	−0·5	0·7	0	−0·16	0	...	0	−0·4	0·5	−0·4	4	2	0	0	0	1	1	0	23	0	0	0	0	0	0	0	0	31	Berhampore
0·7	+0·1	0·7	0	−0·07	0	...	0	−0·2	3·1	+0·3	16	2	0	0	0	0	2	9	2	4	1	0	0	0	0	4	10	12	Malda
																													Cooch Behar (R)
0·5	−0·5	0·4	0	−0·17	0	...	0	−0·4	2·4	+1·6	17	7	0	0	0	0	0	3	4	0	1	1	1	1	0	2	0	25	Jalpaiguri
0·6	...	...	0	...	0	...	0	...	1·3	...	4	1	1	0	0	0	0	2	23	...	...	...	...	...	...	...	...	...	Bagdogra
																													Orissa
2·2	+0·7	2·3	0	−0·16	0	...	0	−0·3	3·2	+1·6	19	4	0	0	0	1	0	6	1	3	1	0	1	2	0	0	0	24	Balasore
0·0	−0·7	0·8	0	−0·03	0	...	0	−0·1	4·5	+1·2	6	2	2	0	0	0	4	17	0	2	10	10	6	0	0	0	0	3	Chandbali
0·3	−0·1	1·7	0	−0·24	0	...	0	−0·4	...	...	14	13	0	0	0	0	0	3	1	4	5	1	5	7	5	0	0	4	Puri
0·0	−0·8	1·4	0	−0·23	0	...	0	−0·4	2·2	+1·3	1	1	1	0	0	0	0	1	27	1	1	0	0	0	0	0	0	29	Cuttack
0·1	−0·3	2·0	0	−0·53	0	...	0	−0·7	6·3	+0·2	20	1	0	0	0	0	0	10	0	3	5	8	7	6	1	0	1	0	Gopalpur
0·5	...	2·3	0	...	0	...	0	...	...	...	5	3	3	1	12	6	0	1	0	27	1	0	0	2	0	0	1	0	Koraput
0·0	−0·6	1·4	0	−0·14	0	...	0	−0·4	3·8	+0·8	1	1	0	0	0	3	16	8	2	13	2	1	0	0	1	5	3	6	Angul
0·7	−0·7	0·8	0	−0·17	0	...	0	−0·3	2·0	+0·1	12	11	3	0	0	0	0	0	5	4	4	2	1	2	2	1	1	14	Sambalpur
0·6	...	0·8	0	...	0	...	0	...	...	...	18	10	0	0	0	0	0	1	2	1	1	0	0	0	0	0	1	28	Jharsuguda
0·1	...	1·3	0	...	0	...	0	...	1·1	...	1	1	0	4	5	0	1	0	19	0	2	1	0	0	0	0	0	28	Titilagarh
																													Chota Nagpur
0·7	...	0·9	0	...	0	...	0	...	2·2	...	2	0	0	0	0	0	12	16	1	0	0	0	0	0	0	1	10	20	Purulia
0·8	−0·8	1·0	0	−0·23	0	...	0	−0·4	2·5	+1·0	0	0	0	0	0	1	17	9	4	5	3	3	1	0	0	2	3	14	Jamshedpur
0·7	−0·8	1·3	0	−0·18	0	...	0	−0·4	1·0	−0·1	0	1	0	0	1	7	1	0	21	1	0	0	0	0	0	0	0	30	Chaibasa
0·0	−1·4	0·5	0	−0·27	0	...	0	−0·6	1·5	−1·4	4	0	1	0	0	0	1	0	25	0	0	0	0	0	0	1	1	29	Ranchi
0·3	−1·0	0·9	0	−0·27	0	...	0	−0·5	4·1	−0·4	4	3	0	0	0	0	1	5	18	14	3	1	0	0	0	0	13	0	Hazaribagh
0·1	−0·9	0·3	0	−0·25	0	...	0	−0·5	1·2	−0·3	1	0	7	4	1	0	4	3	11	3	9	2	2	0	0	0	3	12	Daltonganj
0·5	...	0·5	0	...	0	...	0	...	4·0	...	8	5	0	0	0	4	5	6	3	12	2	0	0	1	0	1	13	2	Dhanbad

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION.	Height of bar, cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperatre, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure millibars.			Relative humidity %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lower.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bihar																						
Purnea	124	1013·7	−0·1	1009·8	78·6	+2·3	85	12,13	47·6	−1·9	40	17	60·9	65·6	56·4	61·0	13·5	−0·2	16·4	74	−11	76
Darbhanga	161	1012·3	−0·2	1008·5	78·3	+1·9	83	6,7,12	50·3	−1·5	45	17	58·2	68·3	56·4	62·3	14·5	+0·3	16·5	89	+6	70
Motihari	218	1010·6	+0·2	1007·2	78·0	+2·8	84	7	47·3	−0 8	42	16	62·2	65·7	57·5	60·5	14·2	+0·7	15·9	75	−5	74
Patna	173	1012·0	−0·2	1008·4	78·8	+4·2	87	7	53·1	+0·8	49	6 days	63·0	71·4	55·9	60·3	12·2	−0·6	13·0	62	−8	49
Dehri	352	1005.4	...	1002·1	77·9	...	83	6,7	52·3	...	48	18	59·0	73·7	54·2	60·2	12.0	...	11·7	72	...	41
Gaya	365	1004·9	0	1001·2	77·4	+2·8	82	7	49·3	+0·7	45	18,19,22	59·5	70·8	53·3	59·2	11·4	+0·4	12·1	63	−4	46
Jamui	270	1008·3	...	1004·9	78·5	...	84	7	51·2	...	45	18,19	59·2	70 6	54·6	61·1	12·6	...	14·1	73	...	55
Dumka	489	999·9	−0·8	996·2	79·1	+2·7	85	7	...	...	...	...	63·5	71·8	56·7	61·0	12·5	−0·3	13·3	63	−3	51
Sabour	122	1013·5	−0·1	1009·7	77·8	+2·1	84	12	48·5	+0·6	41	17	61·2	68·2	56·9	62·6	13·7	+0·2	16·9	75	−7	72
Bhagalpur	181	1012·0	...	1008·2	80·7	...	87	7	54·0	...	49	18,19,22	61·5	69·7	56·5	61·5	13·4	...	15·2	72	...	61
U. P., East																						
Gonda	360	1005·4	...	1002·3	78·1	+2·3	84	5,6	46·9	−0·8	42	19	53·9	68·4	51·0	59·5	11·9	−0·1	13·2	81	−1	56
Gorakhpur	254	1008·6	−0·3	1005·7	78·4	+3·9	85	6	50·3	+0·5	46	20	58·9	71·6	53·7	61·7	12·0	−0·6	14·5	68	−10	53
Azamgarh	255	1008·7	...	1005·4	80·0	...	86	6,7	47·1	...	44	5 days	56·2	70·5	52·8	62·0	12·1	...	15·2	79	...	60
Banaras	250	1009·3	−0·1	1006·0	76·6	+1·4	81	7	47·8	0·4	44	18,23,26	55·9	71·2	51 7	59·1	11·1	−0·9	11·7	74	−2	44
Allahabad (Bamrauli).	322	1006·8	−0·2	1003·7	76·7	+1·0	80	4 days	47·3	+0·2	43	18,19	56·7	70·1	52·4	60·3	11·9	+0·9	13·2	71	−6	54
Fatehpur	375	1005·1	...	1001·9	76·7	+0.6	80	6	46·5	−1·0	42	17,18	54·5	70·5	51·0	59·6	11·2	−0·3	12·4	78	+9	49
Banda	398	1004·7	...	1001·3	78·4	...	83	30	46·6	...	42	17,18	54·8	72·2	50·2	61 4	10·4	...	13·4	70	...	51
Orai	463	100·19	...	998·9	76·6	..	81	30,31	48·0	..	43	17	55·3	70·5	49·4	57·8	9·2	..	11·1	67	...	42
Kanpur	414	1003·8	+0·3	1000·9	76·7	+2 7	81	30,31	47·6	+1·1	42	17	57·1	70·1	51·9	59·8	11·0	+0·2	12·9	69	−8	49
Lucknow	371	1005·3	+0·4	1002·1	78·4	+2·5	83	6	47·2	−0·1	42	18	53·1	68·3	51·2	(a) 60·2	11·9	+0·9	(a) 14·1	87	+10	(a) 62
Hardoi	467	1000·3	...	998·3	76·7	..	81	4,6,8	46·2	...	40	15	49·4	70·4	47·9	60·1	10·5	...	12·7	86	...	51
Kheri	483	1001·2	...	997·9	77·1	...	82	6	48·1	...	44	18,19	56·5	67·3	52·6	58·9	11·9	...	12·9	76	...	58
Bahraich	407	1003·8	+0·7	1000·7	78·8	+3·8	85	6	47·8	-0·4	43	17,19	56·7	71·7	52·5	59·5	11·6	0	12·0	73	−7	46
U. P., West.																						
Jhansi	823	989·6	+0·1	986·2	77·1	−1·0	81	26,30,31	46·6	−1·7	44	13,17,23	57·4	71·2	50·5	58·0	9·4	−0·7	10·6	60	0	41
Agra	553	999·8	0	996·2	75·0	−0·4	81	21,30	46.7	+0·4	42	15	50·8	70·9	48·1	57·5	10·3	+1·5	10·0	80	+18	40
Mainpuri	516	1000·1	+0·4	997·7	77·4	+2·0	81	30	45·3	−1·0	41	17,18,22	52·6	70·0	49·9	60·3	10 9	+1·1	13·5	82	+11	56
Aligarh	615	996·2	...	993·8	75·2	+1·2	78	30	45·5	−1·6	42	18	51·8	68·6	48·8	59·0	10·4	+1·2	12·8	77	+15	54
Bareilly	568	997·7	0	994·7	75·9	+2·8	80	6,7	48·4	+1·8	44	19,20	56·4	68·1	52·4	58·3	11·6	+0·8	12·2	75	−6	53
Meerut	728	992·0	−0·1	...	73·7	+0·8	77	30	45·5	+0·9	41	17,19	52·1	...	49.4	...	10·7	+1·8	...	81	+6	...
Roorkee	899	985·7	−0·3	983·6	73·1	+1·9	78	7	44·6	+1·2	40	15,16,17	48·2	65·9	46·8	58·3	10·2	+0·6	13·2	90	+8	61
Dehra Dun	2,239	939·7	+0·2	936·1	70·6	+1·9	75	6	45·4	+0·3	41	16	50·2	63.0	47·6	56·9	10·3	+1·6	13·5	82	+7	67
Punjab (I)																						
New Delhi	710	992·8	+0·1	990·4	74·9	+1·2	81	29	46·5	+1·5	43	31	51·8	67·8	47·2	57·1	9·2	+0·8	11 5	69	+5	47
Hissar	725	992·9	+0·5	990.4	76·0	+1·8	81	29	43·1	−0·1	39	18	47·1	73·6	44·1	58·6	8·5	+0·3	10·0	77	+8	36
Karnal	818	988·6	...	986·7	74·3	...	77	6	45·9	...	42	17,18,21	48·7	67·9	46·7	57·2	10·0	...	11·2	84	...	48
Ambala	892	984·5	−1·6	983·3	75·2	+2·9	79	28	46·2	+2·4	42	17,20	49·3	68·3	47·8	58·6	10·5	+0·6	12·5	89	+15	53
Patiala	822	988·3	...	986.3	74·6	...	78	28,29	44·8	...	41	17,30	49·5	67·4	47·4	56·7	10·3	...	11·0	84	...	48
Ludhiana	810	988·9	−0·3	987·1	75·5	+4·7	79	26	44·6	+0·4	40	22	47·7	70·3	46·0	58·7	9·8	+1·1	11·7	87	+12	46
Ferozepore	657	995·0	...	993·1	72·7	...	77	27	42·2	...	38	13,21	45·0	66·4	44·2	58·1	9·3	...	12·3	94	...	58
Amritsar	756	990·8	...	989·0	71·1	...	75	29	40·6	...	36	13,15,16	45·8	64·9	44·3	55·8	9·2	...	11·2	88	...	53
Jammu and Kashmir.																						
Srinagar	5,205	847·0	+0·2	844·2	51·5	+3·3	55	6 days	29.5	+1·9	25	13,15,16	32·1	46·8	30·7	41·5	5·2	−0·3	6·9	83	−7	66
Gulmarg	8,709							Closed	during	Winter		months.										

Cloud amount, (Oktas)			Rainfall, inches.				Number of rainy days, (0·10" or more.)		Wind velocity miles per hour.		Wind direction—Number of winds from:—																		STATION
											0830 hrs. I. S. T.									1730 hrs. I.S.T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bihar
0·5	—0·4	0·6	0	—0·12	0	...	0	—0·3	1·2	+0·1	2	4	0	0	0	4	6	1	14	0	0	0	0	0	0	0	0	31	Purnea
0	—0·9	0·1	0	—0·12	0	...	0	—0·3	0·1	—1·0	0	4	2	0	0	1	6	0	18	0	0	0	0	0	0	0	0	31	Darbhanga
0·3	—0·9	0·1	0	—0·15	0	...	0	—0·4	1·1	—0·2	1	1	5	0	0	0	5	2	17	0	0	1	0	0	0	1	0	29	Motihari
0	—1·0	0·2	0	—0·22	0	...	0	—0·5	2·3	+0·6	4	1	0	0	2	10	3	6	5	1	1	0	0	0	1	7	1	20	Patna
0	...	0	0	—0·18	0	...	0	—0·5	2·2	...	1	0	0	0	10	17	2	0	1	13	1	0	0	2	1	4	9	1	Dehri
0·2	—0·8	0·5	0	—0·18	0	...	0	—0·4	1·6	—1·5	0	0	0	6	11	2	2	0	10	3	0	0	0	0	0	2	7	19	Gaya
0·3	...	0·6	0	...	0	...	0	...	2·2	...	0	0	4	3	0	0	0	12	12	1	0	0	0	0	0	1	19	10	Jamui
0·6	—0·3	0·2	0	—0·13	0	...	0	—0·3	1·8	+0·7	1	1	0	0	1	13	0	9	6	2	6	0	2	0	5	0	11	5	Dumka
0·6	—0·7	0·7	0	—0·12	0	...	0	—0·1	2·2	—0·5	2	2	1	2	1	3	4	4	12	1	0	0	0	0	0	0	21	9	Sabour
0·6	...	0·5	0	...	0	...	0	...	2·4	...	2	1	1	0	1	1	6	1	18	3	2	1	0	0	1	8	11	5	Bhagalpur
																													U. P., East
0·2	—1·3	0·2	0	—0·32	0	...	0	—1·1	1·3	—0·8	1	0	1	0	0	0	4	3	22	0	0	0	0	0	0	0	0	31	Gonda
0	—0·9	0·1	0	—0·19	0	...	0	—0·4	0·6	—0·2	1	0	0	0	0	0	5	0	25	0	0	0	0	0	0	0	0	31	Gorakhpur
0	...	0	0	...	0	...	0	...	...	...	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31	Azamgarh
0·1	—1·0	0·3	0	—0·27	0	...	0	—0·5	...	...	0	0	0	0	5	13	7	2	4	2	0	0	0	0	0	4	1	24	Banaras
0·2	—1·3	0·1	0	—0·34	0	...	0	—0·5	1.4	—0·7	0	1	0	1	3	9	10	0	7	2	0	1	0	0	0	2	5	21	Allahabad (Bamrauli)
0·2	—1·2	0	0	—0·34	0	...	0	—1·1	1·1	—0·5	1	0	0	0	0	3	2	6	19	0	0	0	0	0	0	0	0	31	Fatehpur
0·1	...	0	0	...	0	...	0	...	1·0	...	0	0	0	1	0	0	10	0	20	1	0	0	0	0	0	3	1	26	Banda
0·3	...	0·1	0	...	0	...	0	...	2·4	...	1	0	0	0	2	4	10	14	0	5	4	1	0	0	0	0	20	1	Orai
0·1	—0·6	0·2	0	—0·28	0	...	0	—0·8	1·8	—0·3	7	2	1	1	0	0	3	4	13	2	1	0	0	0	1	6	6	15	Kanpur
0	—1·0	0·2	0	—0·32	0	...	0	—0·7	1·0	0	3	0	1	0	0	1	3	3	20	2	0	0	0	0	0	0	0	29	Lucknow
0	...	0·1	0	...	0	...	0	...	1·5	...	5	1	0	0	0	0	6	8	11	2	1	0	0	0	1	7	5	15	Hardoi
0·2	...	0·4	0	...	0	...	0	...	0·7	...	6	3	0	0	0	0	1	5	16	0	0	0	0	0	0	0	0	31	Kheri
0·1	—0·9	0	0	—0·34	0	...	0	—0·9	1·6	+0·4	1	0	1	0	0	1	5	7	16	0	0	0	1	0	3	1	5	21	Bahraich
																													U. P., West
0·1	—1·0	0·1	0	—0·29	0	...	0	—0·8	2·3	+0·6	0	0	1	1	0	0	8	4	17	0	0	0	0	0	0	0	0	31	Jhansi
0	—1·4	0·3	0	—0·39	0	...	0	—0·8	0·8	—1·5	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31	Agra
0·2	—1·2	0·5	0	—0·37	0	...	0	—0·8	...	...	0	0	0	0	0	3	6	6	16	0	0	0	0	0	0	10	10	11	Mainpuri
0·6	—0·8	0·5	0	—0·43	0	...	0	—1·2	...	..	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31	Aligarh
0·5	—0·9	0·5	0	—0·41	0	...	0	—1·0	0·2	—1·0	1	1	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	31	Bareilly
0·3	—1·1	...	0	—0·48	0	...	0	—1·2	1·6	...	0	0	1	1	0	0	0	6	23	...	...	...	...	...	...	...	...	...	Meerut
1·2	—0·6	1·0	0	—0·68	0	...	0	—1·3	1·6	+0·3	0	0	0	1	0	0	0	6	24	0	0	0	1	0	0	0	6	24	Roorkee
0·8	—1·7	1·2	0·01	—1·01	0·01	30	0	—1·7	1·1	—0·4	0	4	1	0	0	2	1	1	22	0	0	0	0	0	5	0	0	26	Dehra Dun
																													Punjab (I)
0·9	—0·9	0·7	0	—0·43	0	...	0	—0·9	2·7	...	0	0	1	1	1	5	20	3	0	3	3	2	2	0	0	0	19	7	New Delhi
0·6	—1·1	0·3	0	—0·39	0	...	0	—1·0	2·3	—0·7	1	1	1	2	2	6	5	5	8	5	1	1	1	0	2	2	10	9	Hissar
0·9	...	0·5	0	...	0	...	0	...	2·1	...	1	0	0	1	0	1	8	6	14	1	0	1	0	0	0	15	5	9	Karnal
0·4	—1·8	0·4	0	—0·76	0	...	0	—1·5	2·2	+0·1	0	1	0	3	0	1	0	10	16	0	0	0	0	0	1	1	1	28	Ambala
1·2	...	0·9	0	...	0	...	0	...	3·0	...	3	0	2	2	0	0	1	12	11	7	0	0	0	0	0	3	14	7	Patiala
1·1	—1·0	1·1	0	—0·72	0	...	0	—1·4	0	—1·1	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	1	1	29	Ludhiana
1·3	...	1·6	0	...	0	...	0	...	...	...	0	3	0	0	0	0	0	2	26	0	0	0	0	0	0	0	0	31	Ferozepore
1·6	...	1·5	0·40	...	0·40	30	1	...	3·5	...	2	3	3	0	0	7	4	3	9	3	0	1	0	0	0	7	16	4	Amritsar
																													Jammu and Kashmir
3·0	—1·9	3·0	1·32	0	0·64	30	4	+0·6	1·2	—0·8	1	1	0	2	0	0	0	2	25	3	4	0	0	0	0	2	3	19	Srinagar
																													Gulmarg

(a) Mean of 30 days

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in millibars			Maximum temperaure, °F.				Minimum temperatur, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars			Relative humidity, %		
		Mean 0830 hrs. I.S.T	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal	Highest	Date.	Mean	Departure from normal.	Lowest.	Date	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Jammu and Kashmir—contd.																						
Dras (R)	10,059																					
Leh	11,529	668·7	+1·9	666·7	39·0	+3·7	44	7,26	16·0	+3·3	12	15,21,31	21·5	31·0	16·0	23·4	1·3	−0·6	2·1	37	−21	33
Skardu (R)	7,505																					
Gilgit (R)	4,890																					
Misgar (R)	10,190																					
Rajasthan, West																						
Sri Ganganagar	580	997·2	...	995 5	75·8	+2·2	82	27,30	42·8	+2 8	39	16,17	49 4	69·5	46·6	60 1	9·7	+2·2	13 3	81	+16	55
Bikaner	734	991·6	+0·4	988·9	77·5	+1·0	85	27	44·2	+2 2	40	16,17	49·3	74·6	45·3	57·3	8·4	+2·1	8·3	40	−16	27
Jaisalmer	793	989·6	...	987 0	81·3	...	86	25	48·2	...	42	16	54·2	76·9	46·5	60·6	7·8	...	10 9	52	...	34
Jodhpur	736	991·9	+1·6	989·1	80 8	+1·8	86	26	53·9	+3 4	44	31	57·0	77·9	47 9	58·6	7·4	0	8·0	46	−4	25
Phalodi	783	988 8	...	983·9	77·6	...	83	23,27	47·5	...	44	10,17,31	52·3	76·8	44·4	58·1	6·1	...	8 0	48	...	26
Barmer	638	994·8	+0·4	992·2	82·8	+2·7	89	27	55·5	+2 0	48	30	58·4	78·6	50·2	62 9	8·7	+0·3	13 0	52	−1	38
Rajasthan, East																						
Sikar	1,419	968·2	...	966·0	77·6	...	83	28	46·8	...	40	17	48 5	71 8	46·3	61·5	9·7	...	13 0	80	...	52
Jaipur	1,431	968·2	−0·1	965·7	76·9	+0 5	81	26,27,28	47·5	−0·1	43	16	59 4	71·3	51·0	56·7	9·0	+0 7	9·2	52	−3	35
Ajmer	1,593	962·7	+0·1	959·8	77·2	+1·8	81	23,26	44·5	−2·1	42	9,12,17	49·1	72·1	43·5	54·2	7·2	−1·3	6·3	62	+5	27
Kotah	843	988·4	0	985·5	79·7	+0·6	85	26,29	52·3	+0·2	50	14,22,23	56·4	75 8	50·2	58 5	9·6	+0·2	8 9	62	+5	30
Jhalawar	1,053	981·0	+0·3	977·7	79·3	+1·1	85	.27	47·8	−0 9	45	5 days	52·0	76 5	46·1	56·5	7·9	−1·8	6·9	61	−2	21
Udaipur	1,910	951·8	+0·4	948 8	78·7	+0·5	83	29	46·2	−2 4	44	5 days	54·4	74 2	47 8	58·2	8·3	−0·3	9 3	60	+2	35
Madhya Bharat																						
Gwalior	688	993·8	...	991·2	76·2	...	82	30	41 8	...	39	12,19,23	52·3	70·9	47 9	56·9	9·4	...	9·5	71	...	36
Sheopur Kalan	771	990·4	...	987·4	78·4	...	83	15,26,30	45·2	...	43	6 days	52·1	74·8	44·2	57·7	6·4	...	8 2	69	...	31
Guna	1,571	962·8	−0·1	960·2	80·3	+2·4	84	28,29	42·2	−3·3	38	11	51·0	74·3	45·9	57·7	8·5	−0·7	9·6	67	+1	34
Neemuch	1,626	961·6	+0·4	958·9	80·0	+1·6	85	29	49·4	0·	46	9 12	58 0	76·3	47·3	55·1	6·8	−1·9	6·3	42	−11	20
Ratlam	1,596	961·9	...	958·9	81·7	...	85	29	51·5	...	45	13	57·4	78·3	49 2	60·8	8 6	...	11·1	52	...	33
Indore	1,861	952·6	−0·2	949·4	81·0	+1·3	85	29,30	45·5	−4·1	41	24	58·8	77·1	49·6	57·7	8 4	−2 5	8·5	50	−2	29
Bhopal (Bairagarh)	1,714	958·0	0	955·1	79·3	+1·1	85	30	48·0	−1·6	43	13	57 9	74 6	48·0	54·6	7·5	−2 8	6·5	46	−14	22
Vindhya Pradesh																						
Nowgong	750	991·7	−0·1	988·8	77·2	+2·7	82	29,30	43·2	−3·2	40	17 23	47·4	73·3	45·3	57·6	9·4	−1·0	9·1	85	+9	33
Sutna	1,041	981·1	−0·3	978·0	77·9	+2·2	82	29,31	44·7	−2·8	41	24,26	56·1	71·4	51·6	62·4	11·1	+1·0	13·2	71	+5	58
Umaria	1,506	964·4	...	961·5	77·4	+0·5	83	30	(f) 47 6	−3·2	39	14.22	55·2	70 3	50·2	58 6	9·8	−0·5	12 1	66	−1	51
Madhya Pradesh, East																						
Gondia	1,026	981·6	...	978·2	81·6	...	85	4 days	51 7	...	48	4 days	60·2	77·3	54·3	62 1	11·8	...	12·2	65	...	38
Pendra	2,040	946·6	−0·4	943·7	75·4	+1·7	81	31	50 3	+0·7	45	24	59·7	68 6	52 4	57·1	10·5	−0·4	11·3	60	−4	47
Ambikapur	1,989	948·7	...	945·7	74·5	...	80	14,31	43·2	...	38	18	53·4	69 4	50·2	58·4	11·1	...	12·2	80	...	51
Raigarh	723	991·5	...	988·0	82·8	...	87	14	55·1	...	51	6 days	63·1	77·7	56·1	62·0	12·3	...	11·9	61	...	37
Champa	805	989·1	...	985·5	82·2	...	87	13	55·4	...	52	5 days	60·8	78·9	54·6	62·0	11·8	...	11 4	65	...	34
Raipur	979	982·7	−0·5	979·4	80·5	+0·5	85	14,30,31	55·5	+1·0	51	23	63·0	76·9	55·7	61·9	11·9	−0·4	12·2	61	−3	39
Kanker	1,318	971·4	+0·1	967·8	81·0	+0·9	85	13,14,31	49·7	−1·0	44	23	61·9	76·3	55 6	62·4	12·3	−0·9	13·0	64	−11	42
Chanda	634	994·8	−0·2	990·7	83·7	+1·2	87	4 days	51·0	−1·8	46	4 days	61·9	76·7	55·4	63·1	12·1	−2·0	13·6	64	−8	43
Sironcha	605	1002·8	...	998 8	85·0	...	88	5 days	55·8	...	51	24,25,27	62·3	82·1	58·0	65·9	14·5	...	14·5	75	...	41
Jagdalpur	1,815	953·9	−0·2	950·3	80·9	+2·1	86	14	49·1	−0·6	43	23	58·5	75·3	54·9	60·8	13·3	−1·0	12·3	78	−8	41

(f) Mean of 25 days. (R) Register not received.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10 or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																		STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Jammu and Kashmir—*contd.*
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Dras (R)
2·7	—1·9	3·1	0	—0·19	0	...	0	—0·6	3·1	+1·7	0	3	0	0	0	0	0	0	28	0	3	1	1	1	6	0	0	19	Leh
																													Skardu (R)
																													Gilgit (R)
																													Misgar (R)
																													Rajasthan, West
)·2	—1·6	0 1	0	—0·12	0	...	0	—1·0	1·4	—2·2	0	0	6	0	1	1	0	0	23	0	0	1	0	0	0	1	3	26	Sri Ganganagar
)·3	—1·5	0·4	0	—0·20	0	...	0	—0·5	0·9	—1·5	0	0	0	2	2	0	0	0	27	1	13	1	2	0	0	0	2	12	Bikaner
)·4	...	1·2	0	...	0	...	0	...	3·8	...	1	12	1	1	0	0	0	0	16	0	21	4	0	2	3	1	0	0	Jaisalmer
)·6	—1·1	0·8	0	—0·11	0	...	0	—0·3	3·5	—2·6	2	24	3	0	0	0	0	0	2	0	7	10	1	0	1	3	2	7	Jodhpur
)·4	...	0·6	0	—0·10	0	...	0	...	3·3	...	2	4	4	6	7	1	2	5	0	14	6	3	0	0	1	3	4	0	Phalodi
) 6	—1·0	1·1	0	—0·10	0	...	0	—0·3	3·6	—0·5	5	1	1	0	0	0	0	12	12	6	8	1	0	0	0	0	3	13	Barmer
																													Rajasthan, East
)·9	...	0·7	0	...	0	...	0	...	2·4	...	0	0	2	10	3	0	0	0	16	9	5	1	1	0	0	4	6	5	Sikar
)·2	—1·3	0·6	0	—0·30	0	...	0	—0·7	2·2	—0·9	0	2	7	4	0	0	0	0	18	6	1	1	1	1	5	4	6	6	Jalpur
)·3	—1·1	0·5	0	—0·26	0	...	0	—0·4	1·4	+0·2	0	0	0	0	0	0	3	1	27	3	4	2	0	0	0	1	1	20	Ajmer
)·1	—1·3	0·4	0	—0·21	0	...	0	—0·5	0·8	—0·3	0	0	0	0	1	0	0	1	29	2	1	0	0	0	0	0	1	27	Kotah
)·1	—1·4	0·4	0	—0·19	0	...	0	—0 3	1·5	+0·1	1	1	0	0	0	0	0	1	28	12	13	3	0	0	0	1	1	1	Jhalawar
)·7	—0·3	0·8	0	—0·11	0	...	0	—0·3	1·1	...	0	0	0	0	0	1	0	3	27	1	3	7	5	1	1	0	0	13	Udaipur
																													Madhya Bharat
) 2	...	0·5	0	...	0	...	0	...	1·9	...	1	0	1	0	0	0	0	0	29	14	6	2	1	0	0	0	2	6	Gwalior
)·4	...	0·5	0	...	0	...	0	...	2·1	...	2	2	0	5	2	1	0	0	19	17	6	0	0	0	0	1	4	3	Sheopur Kalan
)·4	—1·0	0·5	0	—0·42	0	...	0	—1·2	1·3	—0·3	1	1	7	0	0	0	0	0	22	5	1	0	0	0	0	3	1	21	Guna
)·6	—0·8	1·4	0	—0·18	0	...	0	—0·5	3·1	—0·4	0	21	1	0	0	0	0	0	9	2	23	0	0	0	1	1	0	4	Neemuch
)·9	...	2·4	0	...	0	...	0	...	5·1	...	2	16	9	2	0	1	1	0	0	4	9	6	1	0	3	4	2	2	Ratlam
)·5	—0·9	0·5	0	—0·27	0	...	0	—0·6	2·7	—0·1	0	5	6	1	0	0	0	0	19	3	10	3	1	0	1	1	4	8	Indore
)·4	—1·3	0·5	0	—0·20	0	...	0	—0·5	5·3	+1·7	9	7	4	1	3	0	0	0	7	11	12	1	0	0	0	2	5	0	Bhopal (Bairagarh)
																													Vindhya Pradesh
)·1	—1·4	0·0	0	—0·40	0	...	0	—0·7	1·1	+0·2	0	0	0	0	0	2	0	0	29	9	10	0	0	0	0	1	1	10	Nowgong
)·1	—1 3	0·1	0	—0·43	0	...	0	—0·9	1·2	—0·5	0	0	0	0	4	1	6	0	20	13	1	0	0	0	0	0	3	14	Sutna
)·1	—1·7	0·3	0	—0·35	0	...	0	—0·9	1·0	—0·8	0	0	1	1	0	1	0	0	28	0	0	0	0	0	0	0	0	31	Umaria
																													Madhya Pradesh, East
)·2	...	0·4	0	...	0	...	0	...	1·2	...	6	1	1	2	0	0	0	4	17	6	2	1	0	0	1	3	2	16	Gondia
)·1	—1·5	0·5	0	—0·29	0	...	0	—0·5	2·4	+0·1	14	1	0	0	1	0	0	6	9	17	2	0	0	3	2	0	5	2	Pendra
)·0	...	0·1	0	...	0	...	0	...	3·8	...	3	9	0	1	1	2	1	0	14	22	4	0	0	0	0	1	3	1	Ambikapur
) 8	...	0·9	0	...	0	...	0	...	1·9	...	7	14	1	1	1	0	0	0	7	3	9	1	0	0	1	3	2	12	Raigarh
)·6	...	0·7	0	...	0	...	0	...	3·4	...	15	4	2	0	0	0	0	9	1	11	1	0	0	1	1	7	7	3	Champa
)·5	—0·7	0·8	0	—0·20	0	...	0	—0·3	2·1	—0·6	12	2	2	1	1	0	0	0	13	9	1	0	0	0	1	0	0	20	Raipur
)·9	—0 8	1·1	0	—0·14	0	...	0	—0·4	1·1	—0·6	0	0	0	0	0	0	0	0	31	4	4	0	0	0	0	0	0	23	Kanker
)·8	—0·7	1·0	0	—0·27	0	...	0	—0·7	1·0	—0·3	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31	Chanda
)·9	..	1·2	0	...	0	...	0	...	1·8	...	7	5	3	4	0	0	1	3	8	7	3	4	4	1	0	0	4	8	Sironcha
·3	—0·9	2·7	0	—0·16	0	...	0	—0·4	1·4	+0·2	0	4	1	0	0	2	0	11	13	1	8	5	3	1	1	0	6	6	Jagdalpur

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION	Height of bar, cistern above mean sea level in feet	Pressure at station level in millibars			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Madhya Pradesh, West																						
Buldhana	2,133	943·1	...	940·2	81·3	...	86	1,9,30	53·7	...	52	13,24	64·4	78·6	53·7	61·4	9·8	...	11·7	48	...	35
Akola	925	984·5	−0·2	980·6	85·5	+0·8	90	30	50·1	−3·2	43	15	56·9	82·3	49·1	60·6	8·5	−2·4	8·3	52	−5	24
Amravati	1,213	974·3	−0·4	971·1	83·8	+0·6	87	4 days	58·4	0	55	29	64·6	81·7	53·6	61·0	9·1	−1·9	9·0	43	−8	25
Yeotmal	1,481	965·2	...	961·9	82·6	...	87	30,31	57·6	...	53	14	67·1	77·7	56·1	60·6	10·9	...	11·2	47	...	34
Khandwa	1,044	980·5	0	976·8	86 0	+1·9	90	7 days	47·9	−3·6	42	24	57·8	80·5	49·5	61·3	8·4	−2·2	9·9	51	−9	28
Hoshangabad	992	982·3	−0·9	978·9	80·9	+0·9	87	2	50·0	−3·9	45	24	57·9	78·8	49·9	59·0	8·7	−2·1	8·2	52	−8	25
Sagar	1,808	954·0	−0·8	951·6	76·3	−0·6	82	30	53·1	+0·1	48	13	61·0	70·6	50·5	55·2	8·3	−0·5	8·7	45	−6	34
Jabalpur	1,289	972·7	+0·2	969·3	80·1	+3·0	86	30	44·8	−1·7	40	14	53·9	74·2	49·4	60·3	10·0	−1·0	11·6	71	−2	41
Mandla	1,452	967·2	...	963·4	79·5	...	83	4 days	41·5	...	37	22,23	49·8	72·9	48·1	58·5	10·7	...	10·3	87	...	39
Seoni	2,027	946·1	−1·1	944·3	78·5	+0·8	84	29,31	48·7	−1·9	44	23,25	58·9	72·8	50·4	56·4	9·1	−1·6	8·9	52	−8	33
Chhindwara	2,248	939·9	...	936·9	79·6	...	83	4 days	47·4	...	44	13,22,23	55·6	74·9	48·9	56·2	9·1	...	7·9	61	...	27
Betul	2,144	943·3	...	940·5	79·8	...	85	29,30	45·4	...	39	12,13,23	56·7	71·6	49·9	56·2	9·5	...	9·2	61	...	35
Nagpur	1,010	981·8	−0 3	978·2	83·2	+1·5	87	30,31	50·5	−3·3	46	23,24	62.1	77·7	53·8	61·1	10·4	−0·6	10·8	54	−2	34
Gujarat																						
Deesa	444	1001·4	+0·3	998·3	86·4	...	90	27	51·0 (a)	...	47	13,31	57·8	81·4	47·5	60·0	6·6	...	8·0	41	...	23
Surat	39	1014·4	+0·1	1010·9	94·1	+6·2	99	18	59·7	+0·3	55	12,25	63·3	85·5	54·3	65·9	10·3	−2·9	12·9	53	−5	32
Ahmedabad	182	1010·2	−0·2	1007·1	86·8	+2·1	91	21	54·2	+0·4	49	31	63·0	82·8	52·2	61·9	8·5	−1·9	9·5	43	−17	25
Dohad	1,093	978·9	...	975·6	85·7	+1·4	89	29	53·8	+0·7	49	13	60·1	82·3	49·2	60·3	7·1	−3·6	8·0	40	−25	21
Baroda	115	1012·2	...	1008·8	88·1	+0·9	92	22	51·0	−0·3	47	14,25	54·8	84·2	49·5	65·0	9·7	−1·9	12·5	67	+3	31
Broach	57	1013·8	...	1010·2	91·8	...	95	4 days	56·8	...	52	25	59·5	89·0	52·0	66·5	9·9	...	12·1	57	...	27
Saurashtra and Kutch																						
Bhuj	343	1004·9	0	1002·4	84·3	+2·5	89	22	54·5	+0·1	50	16	58·6	81·8	50·6	59·0	9·0	−1·8	6·8	54	+5	19
Dwarka	37	1015·0	−0·4	1012·3	82·0	+1·0	85	4 days	63·1	+1·2	59	10	66·5	78·2	61·2	64 0	16·1	+1·0	14·1	73	+9	44
Jamnagar	61																					
Rajkot	432	1001·0	0	997·9	87·0	+1·9	91	22	54·3	+0·8	49	16	59·9	84·8	49·8	61 0	7·7	−1·3	7·6	44	−5	19
Veraval	26	1014·2	−0·6	1011·4	88·4	...	94	4	59·3	...	54	27	66·3	80·5	54·4	69·7	9·1	−2·8	19·9	42	−7	57
Bhavnagar	55	1014·8	+0·4	1011·3	87·4	+2·3	91	27	54·7	−1·0	51	4 days	57·2	84·7	47 6	63·1	7·0	−2·7	10·0	43	−5	25
Konkan																						
Dahanu	15	1014·2	...	1011·5	86·2	...	91	5,22	62·6	...	59	24	68.4	79·4	61·5	71·6	15.5	...	23·0	66	...	67
Bombay	35	1013·4	−0·2	1010·5	89·4	+2·8	93	4,22	69·4	+0·6	64	30,31	73·9	81·5	66·3	71·0	18 6	−1·0	21·1	65	−5	58
Alibag	23	1014·0	+0·1	...	86·9	+1·7	92	5.6,23	64·5	−0·7	60	31	69·6	...	64·0	...	17·8	+0·8	...	73	+9	...
Harnai	66	1011·8	...	1009·0	85·7	...	91	4	72·2	...	68	31	76·3	81·8	65·8	72·5	16·9	...	23·1	54	...	63
Devgad	117	1009·7	...	1006·4	88·9	...	94	1	69.4	...	65	31	72·7	85·2	64·2	71·8	16·7	...	20·5	60	...	50
Vengurla	29	1012·8	...	1009·4	90·8	...	94	1,21	63·2	...	58	8,9	69·7	84·6	62·8	70·8	16·4	...	19·5	67	...	48
Marmagao	202	1006·9	0	1003·5	87·4	+0·7	90	5 days	70·3	−0·5	67	9,12,13	74·3	83·0	64·9	70·3	16·7	−2·1	19·6	58	−4	51
Honavar	85	1010·8	...	1007·0	90·6	...	93	5 days	68·0	...	63	7,8,11	73·9	85·4	64·3	71·2	16·2	...	19·7	58	...	48
Deccan (Desh)																						
Jalgaon	660	993·5	...	989·9	86·8	...	91	3	49·7	...	41	13	57·7	84·5	50·1	63·7	8·9	...	10·7	55	...	27
Malegaon	1,432	966·9	0	963·7	86·0	+1·0	92	30	50·3	−2·0	43	23	62·3	80·4	52·0	59·3	8·6	−1·9	7·8	44	−13	21
Ahmednagar	2,154	942·1	−0·3	938·4	84·9	+1·8	89	31	51·6	−1·3	45	13	62·3	80·7	52·2	60·5	9·4	−1·7	9·8	48	−7	28
Poona	1,834	952·8	−0·1	949·2	85·3	+0·4	90	31	51·6	−1·4	46	24,25	57·6	79·8	53·6	62·7	12·4	0	12·6	78	+7	36
Jeur	709	957·0	...	953·2	85 7	...	90	2	51·7	...	45	14	62·7	83·2	52·3	62·0	9·2	...	10·4	47	...	27
Sholapur	1,570	961·9	+0·1	957·9	86·2	+0·7	90	12	56·4	−2·1	50	12,13,24	67·4	83·3	56·7	62·9	11·4	−0·7	11·3	50	−3	29

(b) Mean of 29 days.

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days. (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																		STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.									
0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
4	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Madhya Pradesh, West
·8	..	1·2	0	...	0	...	0	...	3·5	...	0	0	4	7	12	6	0	2	0	3	19	2	1	1	0	0	5	0	Buldhana
·8	—0·8	1·4	0	—0·54	0	...	0	—0·9	2·1	—0·3	0	3	4	2	6	2	0	0	14	3	13	8	1	0	0	0	2	4	Akola
·9	—0·7	1·3	0	—0·44	0	...	0	—0·8	4·8	+1·5	0	19	10	0	0	0	0	0	2	6	8	7	2	0	0	4	2	2	Amravati
·1	...	2·6	0	...	0	...	0	...	5·2	...	0	22	0	6	0	3	0	0	0	0	24	0	3	0	2	0	2	0	Yeotmal
·7	—0·7	0·6	0	—0·32	0	...	0	—0·5	2·4	+0·2	2	6	1	0	1	0	0	0	21	8	15	2	1	0	0	0	3	2	Khandwa
·7	—0·7	1·1	0	—0·47	0	...	0	—0·7	2·4	+0·5	2	6	9	9	4	0	0	1	0	2	3	12	5	1	1	0	0	7	Hoshangabad
·2	—1·2	0·4	0	—0·51	0	...	0	—0·8	8·5	+1·2	2	10	10	7	1	0	0	1	0	2	21	2	0	0	0	2	4	0	Sagar
·2	—1·1	0·3	0	—0·37	0	...	0	—0·7	1·7	+0·6	0	0	0	19	4	0	0	0	8	2	17	1	0	0	1	1	2	7	Jabalpur
·8	...	1·3	0	...	0	...	0	...	0·1	...	0	0	0	0	0	0	0	0	31	1	1	0	0	1	0	0	1	27	Mandla
·1	—1·3	0·2	0	—0·52	0	...	0	—0·9	2·7	+0·7	7	4	0	0	0	0	0	0	20	3	12	7	4	1	0	0	0	4	Seoni
·4	...	0·5	0	...	0	...	0	...	2·0	...	2	5	0	0	0	0	0	0	24	2	12	0	0	2	1	2	3	9	Chhindwara
6	...	0·8	0	...	0	...	0	...	2·4	...	0	1	12	5	0	0	0	0	13	10	10	2	0	0	0	1	4	4	Betul
·5	—1·2	1·1	0	—0·47	0	...	0	—0·8	2·5	...	13	7	0	1	0	0	0	8	2	0	8	8	4	5	0	0	0	6	Nagpur
																													Gujarat
·4	...	0·5	0	...	0	...	0	...	...	...	21	8	0	0	0	0	0	2	0	10	3	0	1	2	2	3	5	5	Deesa
(a) ·6	—0·7	1·5	0	—0·08	0	...	0	—0·1	(b) 4·1	+1·4	1	10	13	0	0	0	0	0	6	2	4	1	0	0	0	6	18	0	Surat
·6	—0·4	0·7	0	—0·04	0	...	0	—0·1	3·5	+1·5	2	13	12	0	0	0	0	0	4	5	13	8	0	0	0	0	2	3	Ahmedabad
·3	—1·2	0·1	0	—0·08	0	...	0	—0·3	4·4	+1·9	0	11	11	3	1	2	0	0	3	8	11	4	1	2	1	1	2	1	Dohad
·4	—0·6	0·5	0	—0·02	0	...	0	—0·1	1·7	—0·4	2	9	1	0	0	0	0	0	19	4	7	2	0	0	0	0	2	16	Baroda
·5	...	0·4	0	...	0	...	0	...	3·5	...	5	13	9	3	0	0	0	0	1	7	8	7	2	2	0	0	4	1	Broach
																													Saurashtra and Kutch
·1	—1·0	0·4	0	—0·07	0	...	0	—0·1	2·2	—1·4	0	0	0	0	0	0	0	0	31	10	17	1	0	0	0	0	1	2	Bhuj
·7	—0·8	0·7	0	—0·09	0	...	0	—0·2	7·8	+0·3	5	19	6	0	0	0	0	1	0	10	10	1	0	0	0	0	10	0	Dwarka
																													Jamnagar
·7	—0·7	0·8	0	—0·06	0	...	0	—0·2	4·6	+1·0	2	6	9	5	2	0	0	0	7	12	11	3	1	0	0	1	3	0	Rajkot
·8	—0·4	1·1	0	—0·07	0	...	0	—0·2	6·0	...	4	22	2	0	0	0	0	0	3	1	0	0	1	8	4	8	7	2	Veraval
·5	—0·9	0·7	0	—0·06	0	...	0	—0·1	3·1	0	0	0	0	0	0	8	12	2	9	3	14	12	0	0	0	0	0	2	Bhavnagar
																													Konkan
·4	...	0·6	0	...	0	...	0	...	6·3	...	1	1	15	13	0	0	0	1	0	17	0	0	0	0	0	0	14	0	Dahanu
·3	—0·1	1·2	0	—0·08	0	...	0	—0·2	5·5	—1·0	3	16	10	0	0	0	0	0	2	3	0	0	0	0	0	1	27	0	Bombay
·9	—0·9	...	0	—0·15	0	...	0	—0·4	2·2	—2·3	0	3	8	2	0	0	0	0	18	...	...	...	...	...	...	...	...	...	Alibag
·2	...	0·7	0	...	0	...	0	...	7·5	...	1	12	11	1	1	0	1	2	2	0	0	0	0	0	0	11	20	0	Harnai
·6	...	0·7	0	...	0	...	0	...	7·4	...	0	3	26	2	0	0	0	0	0	0	0	0	0	0	0	17	14	0	Devgad
·0	...	0·1	0	...	0	...	0	...	...	...	8	1	0	0	0	0	0	0	22	0	0	0	0	0	2	3	0	26	Vengurla
·7	—0·1	1·7	0	—0·35	0	...	0	—0·6	5·8	+0·4	0	5	14	11	1	0	0	0	0	0	0	0	0	1	6	16	8	0	Marmagao
·5	...	2·3	0	—0·37	0	...	0	—0·4	3·1	...	0	7	19	1	0	0	0	0	4	1	2	2	0	0	0	14	9	3	Honavar
																													Deccan (Desh)
·6	...	0·8	0	—0·22	0	...	0	—0·4	3·5	...	0	7	8	14	0	0	0	0	2	1	5	3	8	0	1	2	1	10	Jalgaon
·4	—1·2	0·5	0	—0·21	0	...	0	—0·4	2·1	—0·8	0	3	0	0	0	1	3	2	22	0	20	0	0	0	0	0	1	10	Malegaon
1·2	—0·2	1·4	0	—0·26	0	...	0	—0·5	3·1	—0·3	0	0	0	1	0	1	0	9	20	0	18	1	3	0	2	0	2	5	Ahmednagar
1·0	—0·4	1·0	0	—0·15	0	...	0	—0·5	1·0	—2·5	0	0	0	0	0	0	0	0	31	1	0	6	0	0	0	0	1	23	Poona
1·9	...	1·7	0	...	0	...	0	...	3·5	...	1	5	5	1	1	0	0	0	18	2	7	8	6	2	0	0	0	6	Jeur
0·7	—0·9	1·5	0	—0·41	0	...	0	—0·7	4·3	—1·4	1	10	6	2	1	0	0	0	11	1	2	17	1	1	0	0	4	5	Sholapur

(a) Mean of 30 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.)

STATION	Height of bar, cistern above mean sea level in feet	Pressure at station level in millibars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Deccan (Desh)—*contd.*																						
Miraj	1,817	953·0	—0·3	949·4	86·2	+2·2	91	2,17	56·5	—0·5	49	12	64·4	83·0	54·2	61·9	10·2	—3·0	10·4	50	—10	27
Kolhapur	1,870	951·5	...	947·6	85·8	...	88	2,18	56·5	...	51	13,24	63·1	84·1	54·0	61·7	10·6	...	9·7	54	...	24
Bijapur	1,950	948·7	—0·1	944·9	84·6	+0·4	88	2,15	56·8	—1·8	51	12,24	66·3	82·2	55·1	62·2	10·3	—3·7	11·0	47	—14	30
Belgaum	2,562	927·7	—0·3	924·8	81·8	—0·2	85	17	54·9	—3·4	48	11	59·1	80·5	52·8	59·9	11·2	—2·2	9·3	66	+4	27
Gadag	2,131	942·4	0	938·9	85·3	+1·9	89	15,16	59·8	—1·5	55	7	69·9	80·8	58·4	62·1	12·0	—2·6	11·5	48	—14	32
Hyderabad, North																						
Aurangabad	1,905	951·1	—0·3	947·7	84·5	+1·0	88	1,2,31	52·5	—3·3	45	13	59·9	82·2	49·4	59·8	7·9	—3·1	8·5	45	—8	23
Parbhani	1,393	968·4	...	964·9	84·2	...	89	2,18	51·7	...	46	24	63·0	80·9	52·5	61·1	8·8	...	9·4	45	...	26
Ramagundam	527	999·1	...	994·7	85·6	...	92	15	56·5	...	51	27	67·1	81·8	62·7	74·4	17·5	...	25·7	77	...	69
Nizamabad	1,250	972·2	—0·4	968·2	84·1	+0·4	88	2,17,18	52·7	—2·3	47	24,27,28	65·7	79·0	57·8	62·0	13·1	—1·3	11·3	59	—8	34
Bidar	2,178	940·7	...	937·7	80·8	—0·3	89	15	59·9	—1·6	56	10,23,24	65·6	77·6	56·2	58·5	11·7	—2·2	9·1	53	—9	28
Hyderabad, South																						
Gulbarga	1,503	964·0	—0·3	960·2	85·0	—0·4	88	2,12	57·1	—1·6	51	7,13,30	66·8	82·6	56·3	61·0	11·3	—1·9	9·6	51	—8	25
Raichur	1,311	970·4	—0·1	966·5	84·5	—0·3	89	14	63·0	—0·7	57	6.10	68·6	81·9	60·1	62·5	13·9	—2·4	10·5	58	—7	28
Hyderabad (Begumpet)	1,778	954·9	0	951·6	84·2	+0·7	88	15	54·5	—1·9	49	24	62·9	78·5	57·6	61·8	14·1	—0·7	12·1	72	+1	36
Hanamkonda	881	985·5	—0·6	981·7	84·3	+1·1	90	14	59·5	—0·8	53	23	68·4	80·8	60·6	63·4	14·5	—2·2	12·1	62	—8	34
Khammameth	367	1003·5	...	999·3	86·5	...	92	14	60·4	...	55	23,24	67·7	83·1	62·7	67·2	17·2	...	15·6	74	...	40
Coastal Andhradesa																						
Nellore	65	1013·3	+0·1	1010·3	86·1	+2·4	92	13,14	66·5	—1·9	62	24	73·1	79·2	68·5	70·3	21·8	—2·0	21·3	78	—6	62
Ongole	38	1014·5	...	1010·8	85·7	...	93	13	66·2	...	62	24	74·6	80·3	66·5	68·9	18·6	...	18·9	65	...	54
Gannavaram	88	1013·1	...	1009·3	87·3	...	93	13	65·3	...	61	6,7,26	75·6	80·6	67·4	69·1	20·2	...	19·1	65	...	54
Masulipatam	10	1015·5	—0·5	1012·0	83·7	+1·1	90	12,13	66·5	0	62	29	73·2	79·3	67·7	70·5	20·7	—0·5	21·5	75	—3	64
Kakinada	26	1015·2	—0·3	1011·6	81·8	+1·3	88	12	67·2	+0·8	62	24,25,26	76·7	78·4	69·1	69·9	20·9	+1·2	21·1	66	—6	64
Visakhapatnam	11	1015·7	—0·4	1012·3	83·5	—0·9	91	12	65·3	+0·1	59	4 days	74·8	77·1	68·5	70·1	20·9	+0·1	22·0	72	+5	69
Calingapatam	19	1015·3	—0·9	1011·9	90·5	+0·2	89	13	63·7	+0·6	59	4 days	67·2	77·5	63·5	69·5	18·3	—0·7	21·0	81	+3	65
Rentachintala	348	1004·0	...	999·5	88·3	+2·5	94	14	62·3	+0·4	58	5,7,24	69·2	85·8	61·6	66·3	15·3	—2·6	13·3	62	—9	31
Rayalaseema																						
Cuddapah	428	1000·6	—0·2	996·3	87·7	+1·7	92	14,15	65·9	+0·2	62	10	78·4	84·1	68·5	..	19·3	—1·7	...	58	—18	...
Bellary	1,473	964·5	—0·2	960·4	85·2	—0·5	94	13	62·5	+0·6	59	7 days	68·6	82·6	60·4	63·8	14·3	—1·9	11·7	60	—7	31
Kurnool	923	983·8	0	979·5	87·4	+1·0	92	14	59·3	—1·5	51	7	69·1	84·2	61·3	65·5	15·0	—1·7	13·1	62	—9	33
Anantapur	1,147	975·3	...	971·1	85·7	...	90	15	60·6	...	54	30	70·2	83·4	61·6	65·1	14·8	...	12·9	60	...	33
Tamilnad																						
Palayamcottai	167	1008·2	...	1004·2	88·4	...	92	11,13,15	72·9	...	70	23,30,31	76·8	84·1	70·5	72·5	22·6	...	22·1	72	...	55
Pamban	37	1012·3	+0·2	1009·2	83·2	+0·6	86	10,14,17	75·5	+0·7	72	13,19	78·4	80·0	73·6	73·9	26·2	—1·7	25·9	79	—6	73
Mathurai	437	998·9	—0·1	995·1	87·6	+2·9	95	10	70·4	+0·2	67	5 days	76·8	83·3	69·2	72·0	20·9	—2·2	21·7	67	—10	55
Nagapattinam	31	1013·1	+0·3	1010·2	82·7	+0·7	89	13	72·1	—0·2	68	30,31	76·3	80·0	71·3	72·7	23·9	—1·4	24·2	78	—3	69
Tiruchi	295	1004·5	+0·1	1000·6	86·3	+1·2	90	10	69·7	+0·2	66	7,21,24	75·3	83·5	68·9	71·0	21·2	—2·6	20·3	71	—9	52
Coimbatore	1,341	968·5	+0·1	964·5	85·8	+1·5	88	7 days	66·5	+0·5	63	8,30,31	71·4	82·8	65·3	67·3	18·6	—2·5	15·6	71	—8	42
Salem	913	983·1	0	978·7	89·1	+3·0	92	21	67·3	+1·4	63	22	72·6	84·7	66·1	68·6	19·0	—1·9	16·7	69	—6	41
Kallakurichi	416	1000·0	...	996·2	85·7	...	90	4 days	69.2	...	66	30,31	73·4	82·9	67·2	68·6	20·0	...	17·4	65	...	46
Cuddalore	39	1013·1	—0·1	1009·8	83·6	+1·0	89	13	69·5	—0·7	63	30	76·2	79·6	70·2	72·1	22·5	—2·1	23·5	73	—10	69
Vellore	703	990·9	+0·4	986·8	85·5	+3·1	91	13	64·0	—0·8	59	30	70·4	81·9	65·5	67·2	19·2	—2·3	16·1	76	—9	43
Madras	51	1013·1	—0·1	1010·2	84·1	0	89	12,14	68·4	—0·5	65	5 days	75·5	79·1	70·0	70·5	22·6	—2·0	21·6	75	—9	64
Arogyavaram	2,299	937·1	...	933·5	80·7	...	85	13	58·6	...	53	31	67·4	77·5	61·1	62·7	15·8	...	13·4	70	...	42

Cloud amount (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																			STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	
																														(Deccan Desh) *contd.*
·8	—1·0	1·4	0	—0·28	0	...	0	—0·6	5·7	+0·8	0	2	6	1	0	0	3	3	16	3	9	10	2	1	0	0	0	6		Miraj
·7	...	0·8	0	...	0	...	0	...	5·4	...	0	1	9	2	0	0	0	0	19	0	11	11	2	0	0	1	1	5		Kolhapur
1·2	—0·6	1·9	0	—0·25	0	...	0	—0·6	2·5	+0·2	2	6	7	5	4	1	1	0	5	1	15	11	1	2	0	0	0	1		Bijapur
...	...	...	0	—0·34	0	...	0	—0·5	4·0	+0·9	5	1	9	2	2	1	1	1	9	4	3	4	4	4	7	0	1	4		Belgaum
1·9	+0·1	2·3	0	—0·41	0	...	0	—0·6	4·4	0·0	0	8	13	3	1	0	0	1	5	1	13	11	1	0	0	0	0	5		Gadag
																														Hyderabad, North
1·1	—0·6	1·3	0	—0·27	0	...	0	—0·5	(k) 3·9	—0·4	0	5	20	3	1	0	0	0	2	4	3	10	6	3	3	1	0	1		Aurangabad
1·0	...	1·3	0	—0·22	0	...	0	—0·4	...	...	0	19	4	0	1	0	0	3	4	0	8	11	0	0	0	0	0	12		Parbhani
1·5	...	2·1	0	...	0	...	0	...	2·2	...	9	8	1	4	2	0	0	1	6	9	9	1	3	2	1	1	4	1		Ramagundam
2·1	+0·5	2·2	0	—0·18	0	...	0	—0·4	2·2	+0·4	0	1	0	1	1	0	0	0	28	1	3	0	0	0	0	0	1	26		Nizamabad
1·3	—0·7	1·7	0	—0·24	0	...	0	—0·5	5·1	—0·4	1	6	11	4	6	1	1	0	1	4	21	6	0	0	0	0	0	0		Bidar
																														Hyderabad, South
1·2	—0·2	1·6	0·03	—0·12	0	16	0	—0·3	6·3	+1·4	3	14	11	3	0	0	0	0	0	4	9	14	2	2	0	0	0	0		Gulbarga
1·5	—0·2	2·2	0	—0·13	0	...	0	—0·3	5·7	+0·4	4	6	4	11	1	0	0	1	4	3	16	9	2	0	0	0	0	1		Raichur
1·9	—0·2	2·2	0	—0·30	0	...	0	—0·4	3·6	+0·5	4	2	2	3	0	0	0	1	19	3	8	14	2	0	0	0	1	3		Hyderabad (Begumpet).
0·6	—1·6	1·0	0	—0·23	0	...	0	—0·4	3·2	+0·6	10	0	0	3	8	0	0	2	8	10	15	1	1	2	0	0	0	2		Hanamkonda
1·5	...	1·7	0·14	...	0·14	14	1	...	2·7	...	20	1	4	0	1	0	0	0	5	6	4	15	0	0	0	0	1	5		Khammameth
																														Coastal Andhra-desa
2·8	—1·2	3·5	0	—2·86	0	...	0	—3·0	3·8	+0·8	4	0	1	1	0	0	2	16	7	0	10	16	3	0	0	0	0	2		Nellore
1·5	...	1·1	0	...	0	...	0	...	3·2	...	5	8	0	0	0	0	0	5	13	0	5	14	7	0	0	0	0	5		Ongole
2·0	...	2·4	0·05	...	0·05	15	0	...	5·2	...	11	10	8	1	0	0	0	0	1	4	4	15	6	1	0	0	1	0		Gannavaram
2·5	+0·5	2·3	0	—0·65	0	...	0	—0·9	6·1	+1·9	7	16	4	1	0	0	0	3	0	2	1	10	12	6	0	0	0	0		Masulipatam
1·5	—1·1	1·1	0	—0·70	0	...	0	—0·8	6·7	+0·3	0	25	0	0	0	1	0	5	0	0	9	2	19	0	1	0	0	0		Kakinada
2·6	—0·1	2·8	0	—0·57	0	...	0	—0·9	4·0	+0·6	5	4	1	1	0	1	4	8	7	1	2	10	15	0	3	0	0	0		Visakhapatnam
3·2	+1·3	3·2	0	—0·54	0	...	0	—0·4	7·0	+1·5	15	1	1	0	0	0	0	14	0	1	4	13	11	2	0	0	0	0		Calingapatam
2·6	—0·6	2·3	0	—0·12	0	...	0	—0·4	3·1	—0·1	0	1	3	1	0	1	5	0	20	14	1	4	0	1	0	1	0	10		Rentachintala
																														Rayalaseema
2·7	—0·2	2·7	0	—0·81	0	...	0	—1·5	1·3	—3·2	1	0	10	2	0	0	0	0	18	0	0	16	0	0	0	1	0	14		Cuddapah
2·5	—0·1	2·8	0	—0·13	0	...	0	—0·3	2·3	—0·1	0	1	2	5	0	0	0	4	19	1	2	11	3	0	0	0	0	14		Bellary
1·5	—0·3	2·0	0	—0·20	0	...	0	—0·3	2·9	+0·5	0	3	8	5	1	3	3	0	8	4	7	11	4	0	0	0	0	5		Kurnool
1·9	...	1·8	0	—0·25	0	...	0	—0·5	5·4	...	0	3	9	1	1	0	1	0	16	0	11	17	1	0	0	0	0	2		Anantapur
																														Tamilnad
4·0	...	3·8	0·20	—4·04	0·16	27	1	—4·4	4·8	...	17	2	0	0	0	0	3	9	0	5	8	9	4	1	1	1	2	0		Palayamcottai
4·4	+0·6	4·9	6·57	—1·02	2·89	26	5	—4·4	10·8	—0·6	8	1	1	4	0	0	0	17	0	8	17	1	2	1	1	0	0	1		Pamban
4·1	—0·1	4·6	0	—2·01	0	...	0	—3·6	3·8	—0·4	12	6	1	0	0	0	1	7	4	2	11	8	1	0	0	0	0	9		Mathurai
4·3	—0·7	4·3	1·98	—8·97	1·04	18	3	—6·1	9·5	+1·2	9	4	1	0	0	0	1	10	6	7	18	3	3	0	0	0	0	0		Nagapattinam
3·7	—0·1	4·5	0·03	—2·77	0·02	1	0	—4·5	6·2	+0·8	8	16	0	0	0	0	0	3	4	0	21	9	0	0	0	0	1	0		Tiruchi
3·0	—0·8	2·7	0·13	—1·23	0·13	1	1	—1·6	3·7	+1·2	7	11	6	1	0	0	3	3	0	2	8	11	5	1	1	1	1	1		Coimbatore
2·9	—0·2	3·2	0	—1·03	0	...	0	—2·2	5·7	+2·4	1	17	4	1	0	0	2	1	5	2	7	15	3	2	0	0	0	2		Salem
1·5	...	3·6	0	...	0	...	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		Kallakurichi
1·2	0	4·1	0·18	—7·31	0·18	17	1	—5·3	6·8	+2·0	14	12	0	0	1	0	1	3	0	0	24	3	0	0	0	0	0	4		Cuddalore
·9	—0·4	2·9	0	—2·62	0	...	0	—3·9	3·7	+1·4	2	1	0	0	0	0	1	4	23	0	10	15	3	0	1	0	0	2		Vellore
·8	—0·2	4·1	0·13	—5·32	0·13	...	1	—4·4	8·1	—0·4	14	5	0	0	0	0	5	7	0	7	20	3	1	0	0	0	0	0		Madras
·8	...	3·1	0	...	0	...	0	...	3·3	...	3	6	1	5	2	0	0	0	14	1	20	5	2	0	0	0	0	3		Arogyavaram.

(k) Mean of 20 days.

STATION	Height of bar, cistern above mean sea level in feet.	Pressure at station level in millibars.			Maximum temperature, °F				Minimum temperature, °F				Dry bulb temperature, °F		Wet bulb temperature, °F		Vapour pressure, millibars.			Relative humidity, %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Malabar & South Kanara																						
Mangalore	72	1010·7	−0·2	1007·3	88·8	−0·3	93	19	69·5	−1·7	66	7	73·8	83·4	66·6	72·3	19·1	−2·1	22·1	66	−1	55
Kozhikode	27	1012·1	0	1008·5	89·6	+1·9	92	24	70·5	−0·8	66	24	76·5	85·4	70·5	75·3	22·8	−0·8	20·8	74	−3	63
Palghat	319	1002·6	...	998·1	90·0	...	93	16	70·5	...	63	8	76·2	85·8	68·8	70·6	20·7	...	18·6	67	...	45
Mysore																						
Chitaldrug	2,405	932·8	−0·2	929·4	82·1	−0·3	86	11	60·5	−1·3	55	24	67·7	79·8	65·8	75·5	20·9	+4·4	28·2	89	+21	83
Shimoga	1,872	950·3	...	946·4	84·5	...	88	17,29	53·8	...	48	7	63·6	81·3	58·2	62·9	14·4	...	12·1	72	...	34
Hassan	3,149	908·8	...	905·5	81·3	+0·7	84	13	56·5	−1·1	52	7	64·2	77·2	57·6	60·9	13·5	−3·3	11·6	67	−8	39
Bangalore	3,021	912·9	0	909·8	79·2	+1·0	81	6 days	57·7	−0·5	51	31	64·6	74·7	59·1	60·9	14·9	−1·7	12·7	72	−6	43
Mysore	2,518	929·1	−0·1	925·6	81·6	−0·3	86	13	60·2	−0·9	55	30	66.8	79·7	61·3	62·9	16·3	−1·3	12·8	73	−1	38
Travancore-Cochin																						
Fort Cochin	10	1012·6	−0·1	1009·0	86·4	−0·1	90	19	73·5	−0·7	70	5 days	79·2	83·5	71·5	74·1	23·0	−0·6	24·5	67	−6	63
Alleppey	12	1012·2	...	1008·9	89·9	...	95	27	72·5	...	66	23	81·5	84·6	75·0	76·8	26·7	...	28·0	73	...	68
Trivandrum	211	1005·1	−0·2	1002·4	88·4	+1·1	93	19	72·3	−0·1	68	31	77·0	84·1	71·4	74·4	23 8	−0·1	24·7	75	−5	62
Nagercoil	195	1005·9	...	1002·8	88·7	...	92	12,16	73·6	...	69	9,15	79·2	83·1	70·3	72·9	21·3	...	23 0	63	...	60
Hill Stations excluding Kashmir																						
Aijal	3,599	893·3	...	891·1	...	...	...	...	56·1	...	49	20	61·5	61·0	56·0	57·4	13·1	...	14·7	70	...	79
Shillong	4,921	853·5	+0·5	851·1	62·9	+1·3	69	6,8,9	42·5	+2·5	36	30	56·0	53·6	48·7	49·8	8·6	−0 7	10·5	58	−11	76
Cherrapunji	4,309	873·6	+1·6	870·3	65·9	+3·6	74	12	50·1	+2·1	43	20	61·3	56·4	51·7	52·7	9·3	−0 9	12·3	52	−18	79
Darjiling	7,432	778·8	+0·6	776·3	57·0	+6·5	66	7	39·3	+2·7	34	30,31	48·9	44·2	41·9	40·8	6·6	−0·4	7·4	58	−8	77
Kalimpong	3,965	885·4	+1·6	881·4	64·0	+1·7	70	6,12	47·6	−0·6	45	21,25	52·2	56·2	47·1	49·4	9·1	−1·8	9·1	68	−5	61
Katmandu	4,388	872·3	...	869·1	67·7	+1·8	74	12	33·6	−4·1	31	4 days	41·4	54·9	39·9	48·4	7·8	0	9·0	88	+2	61
Mukteswar (Kumaon).	7,592	773·9	0	772·8	56·6	+3·4	64	28	40 0	+1·6	35	4 days	45·9	46·6	35·7	40·3	3·7	−0 2	6·3	36	+3	60
Mussooree	6,699	798·8	...	797·8	56·2	+2·6	70	27	41·9	+2·3	37	19,20	48·2	49·6	39·6	43·2	5·2	−0·2	7·3	48	+3	80
Simla	7,224	783·7	+0·5	783·1	55·0	+4·4	66	27	42·0	+2·7	36	31	48·2	47·9	36·0	40·9	3·0	−0·5	6·3	28	−6	57
Dharamshala	3,974	888 0	...	887·1	62·8	...	68	8	48·2	...	42	30	51·6	57·5	47·7	53·6	9·8	...	10·7	76	..	79
Abu	3,921	885·0	+0·2	883·5	72·6	+4·2	78	27	50·8	−1·7	47	15,16	56·8	63·9	45·3	49·8	5·7	−0·8	6·5	37	−7	32
Pachmarhi	3,528	898·0	−0·4	896·1	73·6	+2·3	78	1,29	43·1	−2·7	38	12,13,23	53·0	67·9	47·3	54·6	8·8	−1·3	9·3	66	+4	39
Mahaoaleshwar.	4,534	865·6	+0·2	863·5	76·4	+3·7	81	31	55·5	−1·0	51	13	60·9	67·5	51·1	56·5	8·9	−0·5	11·1	50	−5	49
Mercara	3,781	888·7	+1·2	886·4	74·8	−0·1	77	1,13	56·8	−0·9	53	23	60 7	71·9	56·8	61·1	14·2	−1·5	14·0	78	−5	53
Kodaikanal	7,688	772·5	+0·7	770·9	62·5	+0·8	69	23	47·1	−0·1	41	10	54·3	55·1	46·5	50·9	8·0	−1·2	11·2	60	−4	77
Ootacamund	7,378	780·7	+0·2	779·3	67·3	+2·3	73	4 days	40·5	−3·4	34	6,8	50·1	59·0	44 9	51·7	8·2	−0·8	10·5	70	+6	64
Coonoor		..	...	...	67·1	+1·5	72	29	43·8	−5·4	39	4	58·5	...	52·0	...	10·9	−1·1	...	63	−9	...
Tibet																						
Lhasa	12,090	657·2	...	...	47·2	...	55	29	16·6	...	9	22	23·9	...	22·6	...	3·5	...	...	87	...	...
Gyantse	13,110	625·8	...	...	48·3	+3·7	59	12	8·8	−0·6	2	22	25·5	...	21·5	...	2·7	−0·3	...	60	+2	...
Ceylon																						
Colombo	24	1011·6	−0·1	1008·6	86·2	−0·2	89	21	72·2	−0·3	66	11	76·7	81·3	72·7	74·8	25·6	−0·3	26·5	82	−4	72
Trincomalee	24	1012·0	+0·7	1009.3	81·9	−0·6	85	18	75·2	+0·8	71	13,14	78·7	80·2	74·4	74·7	27·1	−0·1	26·9	81	−4	76
Batticoloa	20	1012·2	...	1009·5	83·1	...	86	1	74·2	...	71	4 days	79·7	80·4	76·7	75·7	30·0	...	28·2	87	...	79
Hambantota	61	1009·8	0	1007·1	86·2	+1·6	89	2,3,11	73·8	+1·0	70	10	78·6	81·5	74·3	76·0	27·0	+1·2	28·2	81	−6	76
Mannar	12	1012·9	...	1010·0	83·8	...	87	14,18	75·6	...	70	13	78·6	80·9	74·1	74·4	26·7	...	26·1	80	...	72

Cloud amount, (Oktas).			Rainfall, inches.				Number of rainy days, (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																		STATION
											0830 hrs. I.S.T.									1730 hrs. I. S. T.									
Mean 0830 hrs. I.S.T.	Departure from normal	Mean 1730 hrs. I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Malabar & South Kanara
3·3	+0·9	2·8	0	−0·51	0	...	0	−0·7	6·0	+1·5	0	0	30	1	0	0	0	0	0	1	0	0	0	0	2	9	19	0	Mangalore
3 0	+0·3	2·4	3·73	+2·72	3·64	1	1	−0·6	5·7	+1·7	0	14	14	3	0	0	0	0	0	1	0	0	1	0	6	15	8	0	Kozhikode
2·1	...	2·0	0	...	0	...	0	...	6·4	...	0	0	31	0	0	0	0	0	0	0	1	20	1	0	1	4	4	0	Palghat
																													Mysore
2·8	+0·1	2·8	0	−0·52	0	...	0	−0·8	4·2	−0·4	0	2	17	5	1	1	1	0	4	0	9	20	1	0	0	0	0	1	Chitaldrug
1·9	...	2·3	0	...	0	...	0	...	2·6	...	0	1	3	1	1	0	0	0	25	0	11	7	1	2	2	2	0	6	Shimoga
2·6	−0·6	2·8	0	−0·66	0	..	0	−1·1	3·8	+0·8	0	1	20	6	0	0	1	1	2	1	4	19	3	0	0	1	1	2	Hassan
2·3	−1·2	2·2	0	−0·44	0	...	0	−1·2	5·8	+1·0	0	14	9	7	0	0	0	0	1	0	5	18	4	0	0	1	0	3	Bangalore
2·3	−1·1	2·5	0	−0·40	0	...	0	−0·9	6·8	+0·5	3	8	16	1	0	0	0	1	2	4	10	16	1	0	0	0	0	0	Mysore
																													Travancore-Cochin
4·7	+2·1	4·7	0·01	−1·59	0·01	1	0	−2·5	5·3	+1·7	0	18	12	1	0	0	0	0	0	1	0	0	0	0	3	18	9	0	Fort Cochin
4·2	...	3·2	0·57	...	0·55	1	1	...	4·7	...	0	6	14	8	0	0	0	0	3	1	0	0	0	0	1	14	15	0	Alleppey
2·9	−0·7	3·3	0·49	−1·98	0·46	1	1	−2·7	3·5	+0·9	3	14	9	1	0	0	0	0	4	0	0	0	0	4	16	6	4	1	Trivandrum
4·2	...	5·4	0·62	...	0·51	1	2	...	6·7	...	3	23	2	0	0	0	0	0	3	0	12	5	2	2	3	5	2	0	Nagercoil
																													Hill stations excluding Kashmir
3·4	...	2·6	1·41	...	1·13	16	2	...	4·3	...	0	0	17	8	1	0	1	1	3	2	0	5	2	0	1	10	6	5	Aijal
1·7	+0·3	3·9	0·22	−0·06	0·22	20	1	+0·1	2·5	+1·3	0	3	4	9	1	1	1	0	12	1	3	2	4	1	1	1	0	18	Shillong
2·1	+0·3	2·7	0·45	−0·04	0·32	21	2	+1·3	4·2	+1·7	0	11	10	1	2	4	0	1	2	0	3	5	1	1	3	5	7	6	Cherrapunji
1·2	−1·4	1·4	0·02	−0·25	0·02	20	0	−0·7	4·2	+2·3	0	2	23	3	0	2	1	0	0	0	0	9	6	0	2	8	1	4	Darjiling
0·5	−1·7	3·5	0	−0·32	0	...	0	−0·7	5·6	−1·2	0	0	0	0	0	0	0	30	1	0	0	0	31	0	0	0	0	0	Kalimpong
2·4	−3·7	1·0	0	−0·33	0	...	0	−0·8	1·0	0	0	0	0	0	1	0	0	0	30	2	1	1	2	1	1	0	2	21	Katmandu
0·6	−1·7	0·3	0	−1·05	0	...	0	−1·8	5·5	+0·3	1	4	6	1	0	3	8	0	8	0	1	1	1	1	5	11	1	10	Mukteswar (Kumaon)
1·5	−1 2	2·4	0	−1·38	0	...	0	−2·6	4·1	−0·4	2	3	0	6	6	1	0	0	13	0	1	0	8	12	5	0	1	4	Mussooree
1·3	−1·5	2·2	0	−1·24	0	...	0	−2·4	1·8	−1·2	3	1	1	5	5	2	0	0	14	1	4	0	3	6	3	0	1	13	Simla
1·7	...	1·8	0·37	...	0·26	30	2	...	2·0	...	27	0	4	0	0	0	0	0	0	19	0	2	0	1	0	8	0	1	Dharamshala
0·3	−1·1	0·4	0	−0·12	0	...	0	−0·3	1·6	−1·3	1	1	0	0	1	0	1	2	25	2	3	0	0	0	0	4	2	20	Abu
0·3	−1·4	0·5	0	−0·43	0	...	0	−0·8	2·0	+0·2	0	4	5	2	1	3	2	1	13	5	10	2	0	0	0	1	3	10	Pachmarhi
1·5	+0·1	1·0	0	−0·26	0	...	0	−0·6	6·6	−0.5	0	11	11	8	0	0	1	0	0	4	7	8	2	0	1	4	4	1	Mahabaleshwar
3·3	−0·9	2·6	0	−0·72	0	...	0	−1·2	6·9	+2·3	0	11	11	0	0	0	3	4	2	0	10	10	0	0	0	5	5	1	Mercara
3·4	−0·1	5·5	0·45	−4·71	0·43	1	1	−6·1	7·4	−0·8	1	3	6	11	1	0	0	4	5	2	2	2	4	0	0	0	14	7	Kodaikanal
2·3	−0·7	2·8	0·24	−1·48	0·23	2	1	−2·7	1·1	−1·8	0	3	2	1	0	0	0	0	25	0	1	3	0	0	0	0	0	27	Ootacamund
3·8	−0·4	...	0·31	−5·27	0·14	18	3	−3·6	3·2	0	3	2	3	20	0	3	0	0	0	...	...	...	...	...	...	...	...	...	Coonoor
																													Tibet
0·5	...	...	0	...	0	...	0	...	2·6	...	0	0	0	0	0	0	0	0	31	...	...	...	...	...	...	...	...	...	Lhasa
0·3	−1·0	...	0	−0·01	0	...	0	0	2·1	−1·4	0	0	2	2	0	0	0	0	27	...	...	...	...	...	...	...	...	...	Gyantse
																													Ceylon
4·6	+0·2	5·9	7·18	+1·60	3·72	29	7	−0·6	...	...	5	13	8	2	0	1	0	0	2	10	6	1	1	0	2	3	7	1	Colombo
5·7	+0·9	5·6	7·93	−5·73	1·54	19	15	+1·4	...	...	13	3	1	0	1	1	2	3	7	18	6	1	0	0	0	0	5	1	Trincomalee
5·6	...	5·7	13·96	...	7·56	6	15	...	...	...	2	6	3	0	0	1	9	8	2	8	14	4	0	0	0	1	4	0	Batticoloa
5·3	+1·6	6·6	3·90	−1·09	2·05	29	7	−1·3	...	...	10	20	0	0	0	0	0	1	0	4	15	5	3	2	1	1	0	0	Hambantota
4 7	...	5·3	3·01	...	1·15	27	7	...	...	...	9	12	4	3	1	1	0	0	1	11	19	1	0	0	0	0	0	0	Mannar

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T

STATION	Height of bar. cistern above mean sea level in feet.	Pressure at station level in Millibars.			Maximum temperature, °F.				Minimum temperature °F.				Dry bulb temperature, °F.		temperature, °F.		Vapour pressure, millibars			Relative humidity %		
		Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 1730 hrs. I.S.T.	Mean 0830 hrs. I.S.T.	Departure from normal.	Mean
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	2
HYDROMETEOROLOGICAL OBSERVATORIES																						
Damodar Catchment																						
Bokaro . .	784	989·9	...	986·2	78·0	...	84	14	46·8	...	41	18	55·9	70·5	51·2	58·5	10·8	...	11·4	71	...	44
Mahanadi Catchment																						
Baramul . .	210	1009·7	...	1006·0	82·4	...	87	13,15	52·3	...	45	23	65·7	66·8	61·0	62·6	16·2	...	17·8	75	...	78
Hirakud . .	522																					
Barkachhar .	1,136	...	...	...	81·1	...	86	14,31	46·6	...	43	11,23	61·4	71·8	55·7	60·2	12·6	...	12·7	67	...	48
Narbada Catchment																						
Punasa . .	877	...	...	...	85·9	...	90	1	48·9	...	42	14	62·4	80·1	51·6	61·2	8·2	...	9·9	42	...	25
Bagra Tawa .	1,087	...	...	...	84·5	...	86	29	45·2	...	40	23	58·0	72·4	50·6	54·6	9·3	...	6·7	53	...	37
Sabarmati Catchment																						
Dharoi .	...	...	...	...	86·1	...	88	3,2,21	52·6	...	48	8,24	61·3	...	52·8	...	...	...	...	...	...	...

Cloud amount, (Okcas).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																			STATION
											0830 hrs. I. S. T.									1730 hrs. I. S. T.										
Mean 0830 hrs. I. S. T.	Departure from normal.	Mean 1730 hrs. I. S. T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		53
																														HYDROMETEOROLOGICAL OBSERVATORIES
																														Damodar Catchment
0·5	...	0·8	0	...	0	...	0	...	2·5	...	0	0	0	0	0	3	4	12	12	12	4	0	0	0	0	0	4	11		Bokaro
																														Mahanadi Catchment
...	...	...	0	...	0	...	0	...	1·2	...	0	12	2	9	0	7	0	0	1	0	0	0	0	0	0	0	2	29		Baramul
																														Hirakud
0·3	...	0·4	0	...	0	...	0	...	1·6	...	1	2	1	1	3	13	8	0	2	4	5	1	0	0	0	2	0	19		Barkachhar
																														Narbada Catchment
0·4	...	0·5	0	...	0	...	0	...	...	...	0	8	16	0	0	0	0	0	7	1	4	11	0	0	3	1	0	11		Punasa
...	...	...	0	...	0	...	0	...	1·9	...	3	6	5	1	0	2	6	2	6	0	3	10	4	0	3	0	0	11		Bagra Tawa
																														Sabarmati Catchment
—	—	—	0	—	0	—	0	—	—	—																				Dharol

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 4TH CLASS STATIONS—DECEMBER 1951

STATION	Maximum temperature, °F.				Minimum temperature, °F.				Mean dry bulb temperature, °F. 0830 hrs. I. S. T.	Mean wet bulb temperature, °F. 0830 hrs. I.S.T.	Vapour pressure, millibars.		Relative humidity, %		Mean cloud amount 0830 hrs. I. S. T.	Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind	
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.			Mean 0830 hrs. I.S.T.	Departure from normal.	Mean 0830 hrs.I.S.T.	Departure from normal.		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Resultant direction 0830 hrs. I.S.T.	Velocity in miles per hour.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Assam																							
Lumding	76·8	+2·8	81	17	50·3	−0·4	47	5 days	65·1	62·1	18·3	+3·0	86	−5	...	0·05	−0·09	0·05	17	0	−0·4	...	...
Uttar Pradesh, West																							
Lokpal	Closed during winter months																						
Jammu and Kashmir																							
Jammu	69·3	+1·3	75	9	50·3	+1·2	46	16,19	53·3	48·5	9·4	+1·0	69	+7	2·5	0·55	−0·69	0·55	30	1	−1·6	N24E	...
Kargil (R)																							
Mysore																							
Balehonnur	79·3	+0·4	85	29	56·9	−1·7	52	7	62·5	58·6	15·2	−1·0	79	+3	...	0	−0·47	0	...	0	−0·8	...	...
Nandi Hills	72·0	...	75	4 days	54·7	...	52	8 days	62·8	52·7	9·5	...	50	...	3·7	0	...	0	...	0	...	...	...
Sikkim																							
Lachen	...	...	...	...	24·5	...	20	11,13	43·0	...	...	...	...	...	...	0	...	0	...	0	...	...	...
Tibet																							
Yatung (Chumbi)	52·0	+5·2	59	8	20·3	−0·8	18	17,30	39·6	37·5	7·0	+2·8	85	+2	0	0	−0·37	0	...	0	−0·8	...	...
HYDROMETEOROLOGICAL OBSERVATORIES.																							
Mahanadi Catchment.																							
Sonepur	80·9	...	85	4 days	55·4	...	51	22,23, 24	64·4	59·5	15·2	...	73	...	...	0	...	0	...	...	...	2·3	...
Ginabahar	82·1	...	87	13	...	...	...	...	65·5	57·7	12·8	...	60	...	...	0	...	0	...	...	...	2·5	...
Ganga Catchment.																							
Tapoban	61·4	...	69	28	38·8	...	33	20,21	45·5	..	...	...	...	...	...	0·05	...	0 05	13	0	...	...	...
Badrinath	Closed during winter months																						
Narbada Catchment																							
Thikri	86·5	...	92	30	54·2	...	49	24	61·0	53·3	11·2	...	58	...	...	0	...	0	...	0	...	...	...
Sabarmati Catchment.																							
Jhadol	79·4	...	83	3,30	41·5	...	37	14	55·9	49·5	9·3	...	60	...	...	0	...	0	...	0	...	...	...

(R) Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0830 HRS. I. S. T. (0300 HRS. G. M. T.) AT 5TH CLASS STATIONS—DECEMBER 1951.

Division.	Station.	Rainfall, inches.				Number of rainy days (0·10" or more).		Division.	Station.	Rainfall, inches.				Number of rainy days (0·10" or more)	
		Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.			Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
Assam	Mawsynram	0	...	0	...	0	...	Punjab (I)—*contd.*	Dharampore	0	−1·78	0	...	0	−2·5
West Bengal	Bankura	0	−0·11	0	...	0	−0·3		Kharsali	0	...	0	...	0	...
Bihar	Muzaffarpur	0	−0·12	0	...	0	−0·3		Rana	0	...	0	...	0	...
	Chapra	0	−0·14	0	...	0	−0·4		Jamuna Chetty	0	...	0	...	0	...
	Arrah	0	−0·17	0	...	0	−0·5	Jammu and Kashmir	Sonamarg	0·82	−4·80	0·36	27	3	−4·3
Punjab (I)	Dalhousie	0·60	−3·25	0·46	31	2	−2·5		Gurez	3·68	+0·91	1·00	28	5	−1·5
	Kyelang	0·44	−0·68	0·17	25	2	−0·9	Deccan (Desh)	Khandala	0	−0·12	0	...	0	0
	Gondla	0·66	...	0·34	29	3	...	Sikkim	Thangu	0	...	0	...	0	...
	Koksar	0·67	...	0·42	30	2	...		Chungthang	0·12	...	0·06	15,24	0	...
	Kothi	1·41	...	0·51	29	3	...								

RADIOSONDE DATA

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

(From Ascents at 15 hrs. G. M. T.)

DECEMBER 1951

ndard ssure rface nbs.	ALLAHABAD (Sur. Pr. 1005 mb.)						CALCUTTA (1014 mb.)						JODHPUR (991 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
rface	31	98	290·0	295	287	281·9	29	7	292·7	299	290	287·8	31	218	292·4	294	290	276·7
000	31	139	...	...	...	...	28	130	...	...	...	...	31	139	...	...	...	...
900	31	1043	287·8	295	283	275·0	28	1038	288·8	294	285	278·9	31	1046	290·2	292	286	272·3
850	31	1523	285·1	291	279	269·1	29	1521	285·3	290	279	274·2	31	1529	286·3	289	283	269·
800	31	2030	283·6	291	273	262·9	28	2026	283·3	288	275	265·0	31	2037	283·4	288	277	264·9
700	31	3133	278·8	286	272	257·9	28	3128	279·5	285	274	256·4	31	3137	278·1	283	272	255·6
600	31	4378	270·6	278	260	256·0	26	4373	272·0	277	267	271·1	31	4377	270·0	273	261	...
500	31	5795	260·6	270	253	...	25	5799	262·5	268	257	...	31	5793	258·2	264	250	...
400	31	7458	248·2	261	239	...	23	7466	250·7	274	242	...	30	7454	247·7	252	240	...
300	31	9484	233·2	251	223	...	19	9520	235·8	241	227	...	29	9474	232·2	238	227	...
250	31	10705	225·4	245	214	...	10	10733	227·0	231	217	...	28	10694	223·5	229	216	...
200	30	12153	216·6	236	206	...	6	12169	217·8	224	211	...	28	12125	214·3	225	206	...
175	23	12993	211·7	231	198	...							19	12952	208·9	215	203	...
150	16	13957	207·7	229	195	...							15	13906	205·1	212	201	...
125	7	15184	205·9	225	192	...							11	14950	201·0	207	191	...
100													9	16250	197·3	204	189	...
80																		

	MADRAS (1012 mb.)						NAGPUR (979 mb.)						NEW DELHI (992 mb.)					
face	31	15	297·5	299	296	292·0	29	301	292·8	297	291	281·0	31	217	288·2	290	285	282·1
00	31	117	...	...	...	...	29	125	...	...	...	...	31	147	...	...	...	...
00	31	1033	291·7	299	288	284·2	29	1037	292·9	296	290	279·0	31	1045	288·0	293	284	273·3
50	31	1523	289·3	292	286	278·9	28	1527	289·3	292	286	275·4	31	1528	284·9	288	281	268·6
00	30	2537	288·1	292	286	271·1	27	2042	287·2	290	283	270·0	31	2031	282·0	286	276	264 0
00	29	3158	283·8	286	279	267·2	27	3158	283·4	287	276	261·8	31	3125	275·8	283	267	260·0
00	30	4441	278·3	281	275	255·6	26	4422	275·6	279	272	257·5	31	4359	268·1	273	259	264·0
00	29	5894	269·1	273	266	...	24	5865	266·1	269	262	...	31	5752	256·8	265	235	...
00	28	7624	258·3	264	255	...	22	7578	255·7	262	253	...	31	7405	243·8	253	224	...
00	26	9736	244·0	249	241	...	17	9679	240·8	247	235	...	29	9407	230·0	239	220	...
50	23	11017	234·5	238	230	...	14	10934	232·0	237	225	...	27	10616	221·4	231	212	...
00	17	12508	223·7	229	220	...	12	12421	222·6	232	217	...	24	12063	215·3	230	202	...
75	16	13373	217·0	223	215	...	10	13275	216·2	219	213	...	19	12914	211·5	225	196	...
50	12	14355	210·2	215	206	...	8	14225	209·6	214	206	...	12	13816	207·8	220	192	...
25	5	15478	205·6	210	201	...												
00																		
80																		

RADIOSONDE DATA
MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
(From Ascents at 15 hrs. G. M. T.)
DECEMBER 1951

Standard Pressure Surface mbs.	POONA (Sur Pr. 951 mb.)						PORT BLAIR (1010 mb.)						TRIVANDRUM (1004 mb.)					
	No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A				No. of obsns.	Height (gpm.)	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	557	292·0	297	289	283·3	26	21	299·0	300	298	296·0	31	64	299·8	301	299	295·3
1000	31	122	...	...	...	...	26	100	...	...	...	...	30	101	...	...	...	...
900	31	1035	295·3	298	292	278·9	26	1027	293·0	295	290	289·0	30	1025	293·7	296	291	289·4
850	31	1527	292·7	295	289	275·7	26	1518	290·0	293	288	286·0	30	1518	291·0	293	289	286·3
800	31	2046	288·1	292	284	272·9	26	2035	288·0	290	285	281·0	30	2037	288·1	290	285	282·3
700	31	3166	283·9	289	277	260·7	25	3157	283·0	286	281	274·0	30	3160	283·5	286	281	272·9
600	30	4442	278·4	283	273	253·5	24	4426	276·0	281	275	266·0	27	4428	276·5	279	274	265·6
500	29	5907	269·0	273	265	...	23	5881	268·0	272	266	...	26	5886	268·8	273	265	...
400	28	7627	256·4	261	250	...	20	7594	257·0	260	254	...	26	7608	258·1	262	256	...
300	24	9730	242·5	247	239	...	15	9712	244·0	249	238	...	25	9725	243·6	249	239	...
250	25	11003	233·4	240	229	...	11	10992	235·0	239	231	...	20	11007	233·5	241	226	...
200	22	12499	223·5	230	218	...	7	12506	224·0	224	222	...	15	12513	223·2	227	219	...
175	19	13361	217·0	225	213	...							8	13381	216·5	218	215	...
150	19	14339	210·9	217	206	...							7	14322	209·9	212	207	...
125	14	15450	205·6	212	200	...							5	15480	202·4	205	199	...
100	8	16798	201·0	208	197	...												
80																		

Standard Pressure Surface mbs.	VERAVAL (1013 mb.)						VISAKHAPATNAM (1008 mb.)					
Surface	31	8	297·2	299	294	291·3	31	48	297·7	301	296	291·9
1000	31	123	...	...	...	...	31	121	...	...	...	...
900	31	1043	293·3	296	291	280·5	31	1034	291·0	295	288	284·4
850	31	1533	290·4	293	288	277·6	31	1523	285·1	292	285	280·0
800	31	2050	287·5	292	284	272·7	31	2030	284·9	291	281	273·9
700	31	3170	283·7	288	280	266·0	31	3152	282·0	288	277	264·1
600	31	4441	277·5	282	272	261·9	31	4417	273·5	281	271	258·1
500	31	5901	267·3	270	264	...	30	5875	266·5	273	265	...
400	31	7611	255·4	259	251	...	30	7591	253·6	269	252	...
300	24	9694	240·2	248	234	...	30	9688	242·4	248	237	...
250	22	10955	229·3	236	224	...	30	10928	232·6	239	227	...
200	18	12423	220·1	225	216	...	27	12447	222·5	228	215	...
175	15	13267	214·4	219	211	...	20	13309	216·9	222	211	...
150	11	14264	210·1	214	207	...	17	14297	209·0	214	204	...
125							7	15424	201·7	207	195	...
100												
80												

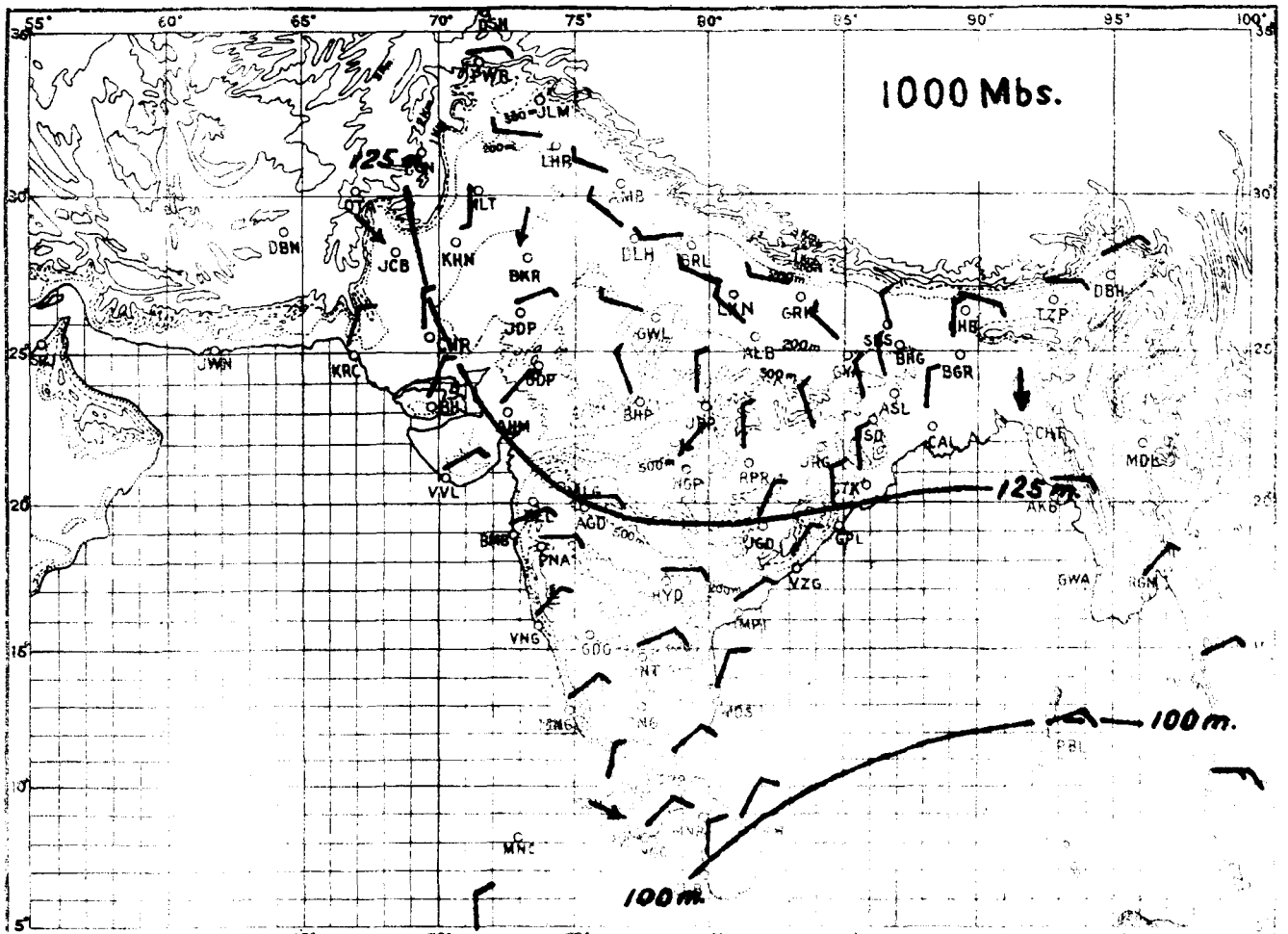
NOTE.—Number of observations refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperatures less than 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

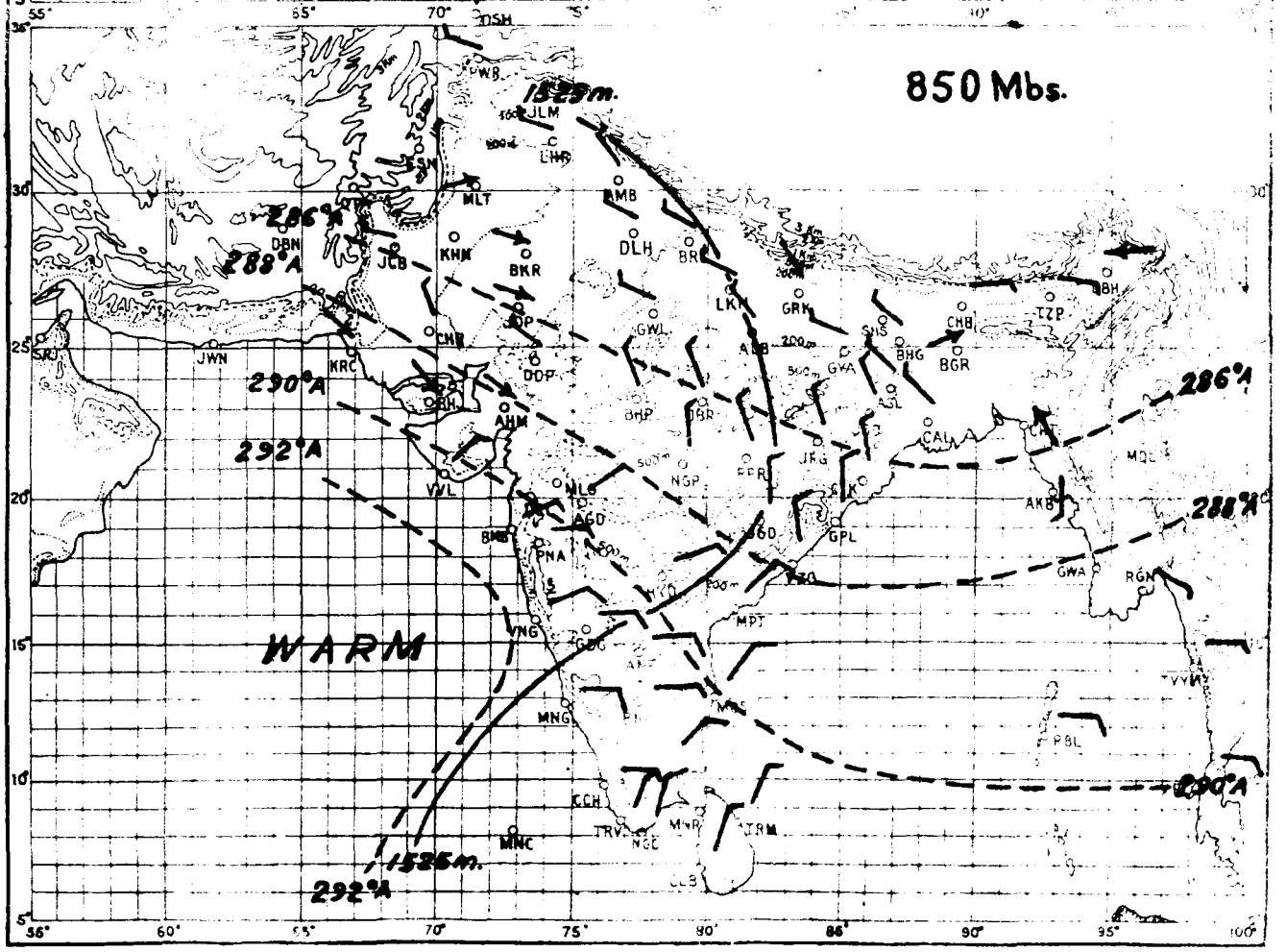
GIPN—SI—11 DDGOB Poona—19-2-54—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

DECEMBER 1951

Plate I





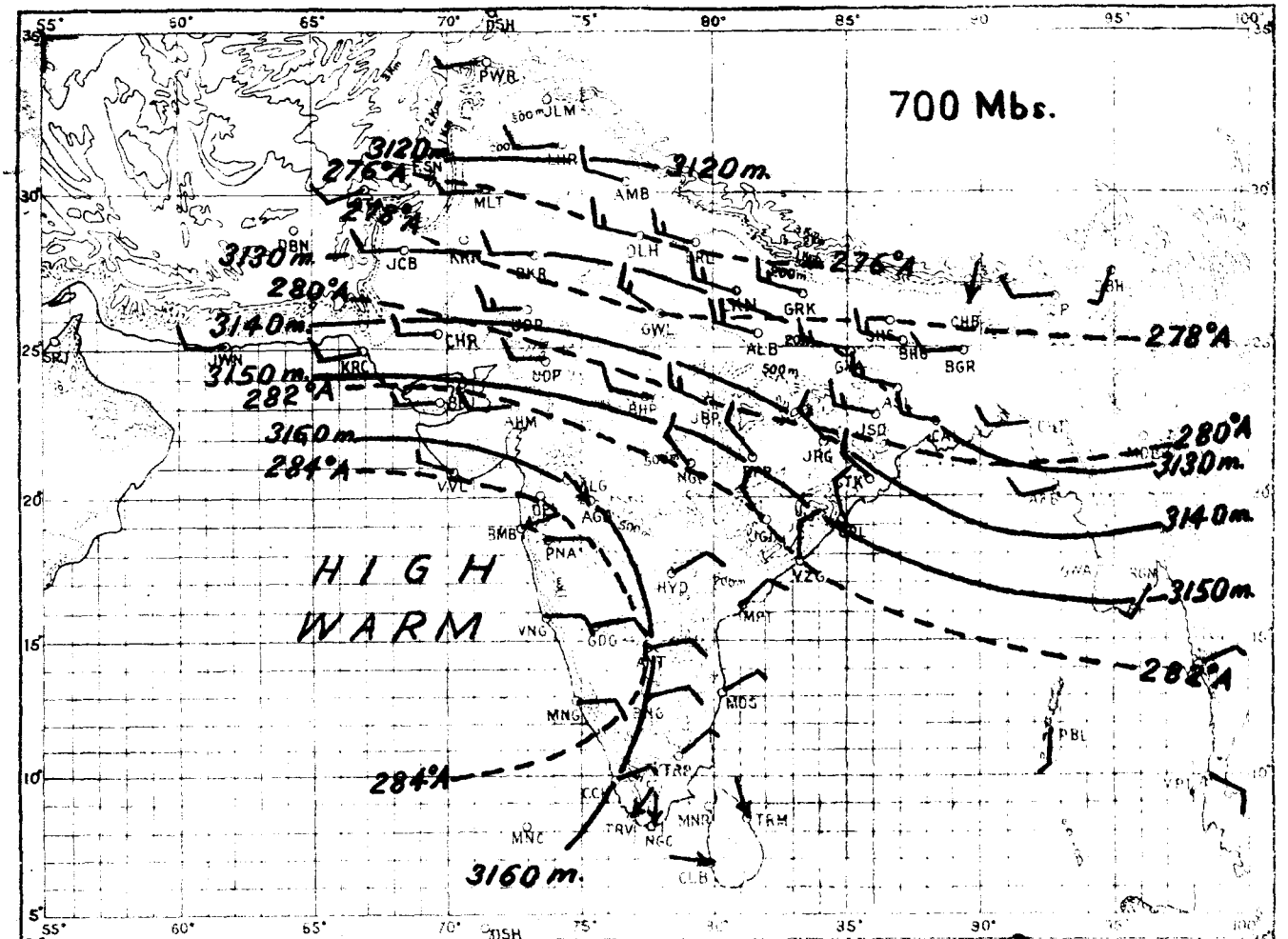
RESULTANT WIND ——— = 5 Knots, ——— = 10 Knots, ——— = 50 Knots

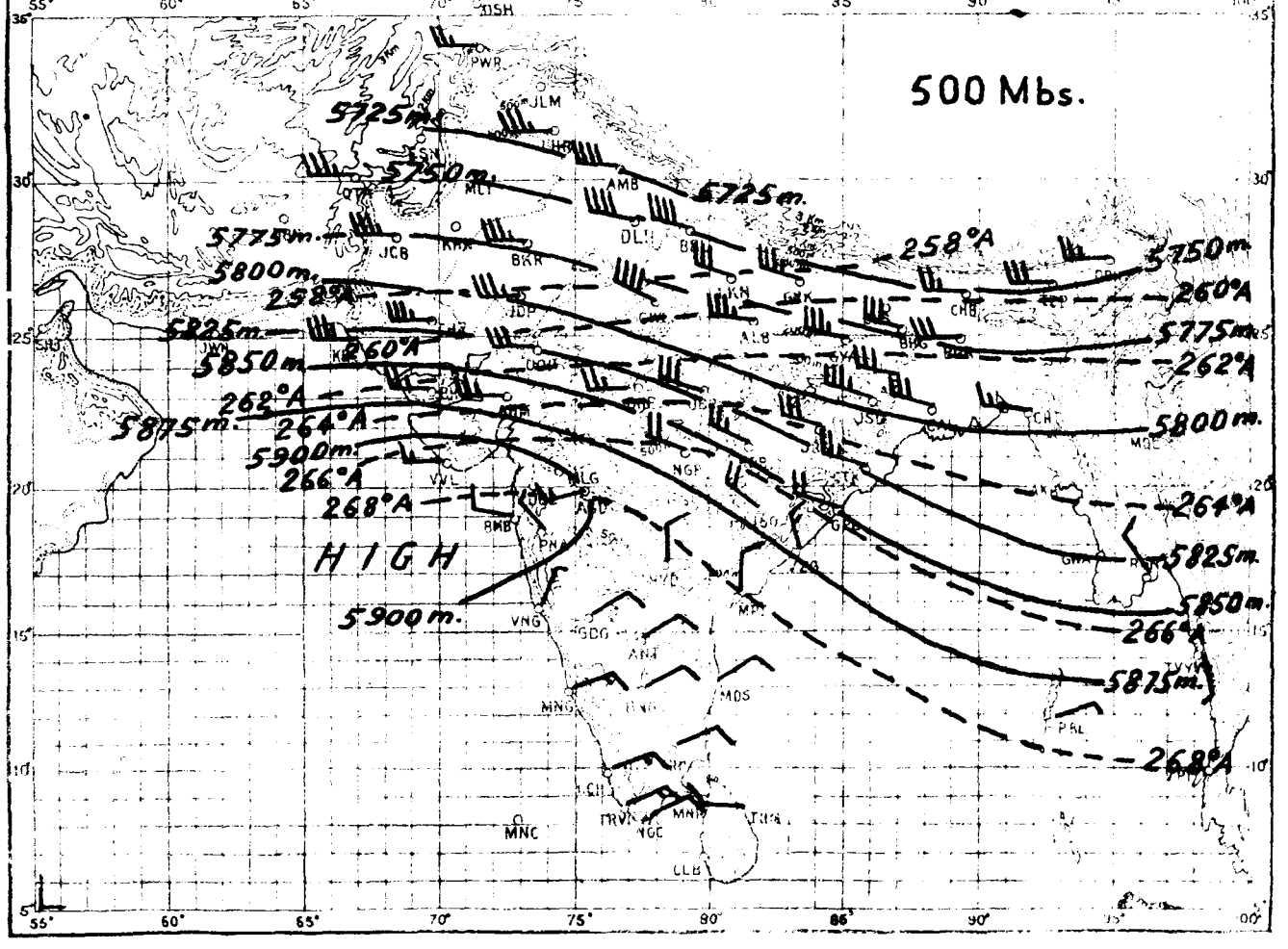
- - - - Isotherms in degrees Absolute ——— Contours in geopotential Metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

DECEMBER 1951

Plate II





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

- - - - *Isotherms in degrees Absolute* —— *Contours in geopotential Metres.*