DGO. 9.47.
240

GOVERNMENT OF INDIA

India METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1947

INTRODUCTION

CONTENTS.

Pages.

Introduction . . . . . i to vii

QC
990
I39
I52
1947

Published by Authority of the Government of India

UNDER THE DIRECTION OF

V. V. Sohoni, M.Sc.,
Director General of Observatories

PUBLISHED BY THE MANAGER OF PUBLICATIONS, DELHI
PRINTED BY THE GOVERNMENT OF INDIA PRESS, CALCUTTA, INDIA
1951

LIBRARY
FEB 2000
National Oceanic & Atmospheric Administration
U.S. Dept. of Commerce

Price Rs. 2 or 3 Sh.

84088

National Oceanic and Atmospheric Administration

Environmental Data Rescue Program

ERRATA NOTICE

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages
Faded or light ink
Binding intrudes into the text

This document has been imaged through the NOAA Environmental Data Rescue Program. To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or www.reference@nodc.noaa.gov.

Information Manufacturing Corporation
Imaging Subcontractor
Rocket Center, West Virginia
September 14, 1999

List of Agents in India from whom Government of India Publications are available.

AGRA—
English Book Depot, Taj Road.
National Book House, Jeomandi.
Wadhwa & Co., Raja Mandi.

AHMEDABAD—
Chandra Kant Chiman Lal Vora, Gandhi Road.
Indradhanu Book House Ltd., Mission Road, Bhadra.
New Order Book Co., Ellis Bridge.

AJMER—
Banthiya & Co., Ltd., Station Road.

AKOLA—
Bakshi, Mr. M. G.

ALLAHABAD—
Central Book Depot, 44, Johnston Ganj.
Kitabistan, 17-A, City Road.
Law Book Co., Post Box No. 4, Allert Road.
Ram Narain Lal, 1, Bank Road.
Supdt., Ptg. & Stationery, U. P.
University Book Agency (of Lahore), Post Box No. 63.
Wheeler & Co., Messrs. A. H.

ALWAR—
Jaina General Stores, Bazaza Bazar.

AMBALA CANTT.—
English Book Depot.

AMRITSAR—
People's Book Shop, Court Road.
Sikh Publishing House Ltd., Court Road.

BANARAS—
Banaras Book Corporation, University Road, P. O. Lanka.
Students Friends, University Gate.
*Hindi Pustak Agency.

BANGALORE—
Book Emporium, Messrs. S. S., 118, G. H. Extension, Basavangudi P. O.
Vichara Sahitya Ltd., Balepet.

BAREILLY—
Agarwal Bros., Bara Bazar.
Sahitya Niketan, Pulkazi.

BARODA—
Good Companions.

BIKANER—
Goyal & Co.

BOMBAY—
Clifton & Co., P. Box No. 6753, Sion, Bombay-22.
Co-Operators' Book Depot, 9, Bakehouse Lane, Fort.
Current Book House, Hornby Road.
Dutt & Co., P. O. Box No. 6014, Parel.
Lakhani Book Depot, Bombay-4.
National Information & Publications Ltd., National House.
New Book Co., Kitab Mahal 188-90, Hornby Road.
Popular Book Depot, Grant Road.
Supdt., Government Printing & Stationery, Queens Road.
Sydenham College, Co-Operative Stores, Ltd., 90, Hornby Road.
Taraporevala Sons & Co., Messrs. D. B.
Thacker & Co., Ltd.
Tripathi & Co., Messrs. N. M., Princess Street, Kalvadebi Road.
Wheeler & Co., Messrs. A. H.

CALCUTTA—
Chatterjee & Co., 3, Bacha Ram Chatterjee Lane.
*Hindi Pustak Agency, 203, Harrison Road.
Hindu Library, 69-A, Balaram De Street.
Lahiri & Co., Ltd., Messrs. S. K.
Newman Co., Ltd., Messrs. W.
R. Cambray & Co., Ltd., Kent House, P-33, Mission Row Extension.
Roy Choudhury & Co., Messrs. N. M., 72, Harrison Road.

CALCUTTA—*contd.*
Sarkar & Sons, Ltd., Messrs. S. C., 1/1/1C, College Square.
Standard Law Book Society, 41, Beltala Road, Bhawanipur P. O.
Thacker, Spink & Co. (1933), Ltd.

CHAMBA—
Chamba Stationery Mart.

CHANDAUSI—
Mr. Madan Mohan.

CUTTACK—
Press Officer Orissa Secretariat.

DEHRA DUN—
Jugal Kishore & Co.

DELHI—
Atma Ram & Sons, Publishers, etc., Kashmere Gate.
Bahri Brothers, 188, Lajpat Rai Market.
Federal Law Depot, Kashmere Gate.
*Hindi Pustak Agency.
Imperial Publishing Co., 3 Faiz Bazar, Darya Ganj.
Indian Army Book Depot, 3, Darya Ganj.
Jaina & Bros., Messrs. J. M., Mori Gate.
M. Gulab Singh & Sons.
Metropolitan Book Co., Delhi Gate.
N. C. Kansil & Co., Model Basti, Lane No. 3.
New Stationery House, Subzimandi.
Technical & Commercial Book Depot, Students Park, Kashmere Gate.
Youngman & Co. (Regd.), Egerton Road.

FEROZEPUR—
English Book Depot.

GORAKHPUR—
Halchal Sahitya Mandir.

GWALIOR—
Jain & Bros., Messrs. M. B., Sarafa Road.
Mr. P. T. Sathel, Law Books Dealer.

HYDERABAD (DECCAN)—
Hyderabad Book Depot.

INDORE—
Students and Studies, Sanyogitaganj.

JAIPUR CITY—
Garg Book Co., Tripola Bazar.
Vani Mandir, Sawai Mansingh Highway.

JAMMU (Tawi)—
Krishna General Stores, Raghunath Bazar.

JHANSI—
Bhatia Book Depot, Sadar Bazar.
English Book Depot.

JODHPUR—
Kitab Ghar, Sojati Gate.
Mr. Dwarkadas Rathi.

JULLUNDUR CITY—
Excelsior Book Depot, Baz Baharwala.

KANPUR—
Advani & Co., The Mall.
Sahitya Niketan.
Universal Book Stall, The Mall.

KOLHAPUR—
Maharashtra Grantha Bhandar.

LUCKNOW—
J. Ray & Sons (India), Ltd., Hazaratgunj.
Law Book Agency, 29-A, Kachery Road.
New Oxford Book Co., Jehangirabad Palace.
Universal Publisher, Ltd., Plaza Building, Hazarat Ganj.
Upper India Publishing House, Ltd., Literature Palace, Aminudaula Park.

*For Hindi Publications only.

[Continued on inner side of the back cover.]

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1947

Published by Authority of the Government of India

UNDER THE DIRECTION OF

V. V. Sohoni, M.Sc.,

Director General of Observatories

PUBLISHED BY THE MANAGER OF PUBLICATIONS, DELHI
PRINTED BY THE GOVERNMENT OF INDIA PRESS, CALCUTTA, INDIA
1951

INDIA WEATHER REVIEW, 1947

CONTENTS.

	Pages.
INTRODUCTION—	
Introduction	i to vii
MONTHLY WEATHER REPORTS—	
January to December	
ANNUAL SUMMARY—	
PART A.—SUMMARY OF WEATHER WITH TABLES—	
Weather and Rainfall of 1947	A 1 to A 4
Table I.—Divisional and sub-divisional means	A 5
Tables II-VI.—Abstracts of observations at individual stations	A 6 to A 23
Table VII.—Sunshine and nocturnal radiation	A 24 to A 27
Table VIII.—Hourly wind velocities	A 28 to A 30
Table IX.—Visibility of the Nilgiris from Kodaikanal	A 31
Tables X-XIV.—Divisional and sub-divisional means of rainfall and rainy days	A 32 to A 40
Table XV.—Days of rainfall of 10″ and above	A 41
PART B.—SNOWFALL—	
Cold weather period	B 1 to B 2
Hot weather period	B 2 to B 3
South-West Monsoon period	B 3 to B 4
Retreating Monsoon period	B 5 to B 6
PART C.—STORMS AND DEPRESSIONS—	
Depressions and Cyclonic Storms	C 1 to C 10
Western Disturbances	C 10
Local Storms	C 11 to C 12

NOTE.—All parts together with the twelve Monthly Weather Reports may be bound in the manner indicated above.

INDIA WEATHER REVIEW, 1947

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 Persia, northern and central India and Burma 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. The starting of a separate Burma Monthly Weather Review in 1938 led to the omission of the Burma data from this publication from January 1939. Similarly, 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 has the following five tables :—Table I containing the divisional and sub-divisional means, Table II the monthly means of observations at 8 hrs. L. M. T. and 17 hrs. I. S. T. at Indian stations. The observations from 1943 were however being recorded at 8 hrs. and 17 hrs. I. S. T. corresponding to 2 hrs. 30 mins. and 11 hrs. 30 mins. G. M. T. respectively. Table III the means of observations recorded at stations in south Baluchistan, Iran and Arabia at 4 and 14 hrs. G. M. T. up to June 1934, and at 4 and 12 hrs. G. M. T. afterwards (from January 1938 south Baluchistan stations were transferred to Table II owing to a change in the times of observations); Table IV the data of fourth class stations and Table V the rainfall data of fifth class stations.

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. It is now being issued monthly. Data of Pakistan stations have been omitted.

I. Introduction.—Title page; table of contents; introduction including an alphabetical list of observatories and a list of stations equipped with autographic instruments; sheets of 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, tables of observations at the third hour of observation and daily means at the first class stations and special tables of nocturnal radiation temperature, sunshine data, hourly wind velocities and rainfall. Three plates 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 received from the mountain regions in the north of India.

IV. Part C.—Storms and depressions. This describes all storms and depressions and contains articles 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 IX 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 (H_b) above M. S. L. and of the anemometer above the ground (h_a) are also given against each station.

The scheme of classification of observatories adopted in this department is the following :—

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 force 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 daily.

The three hours of observation adopted at Indian stations are 8 hrs. I. S. T., 12-30 hrs. I. S. T. and 17 hrs. I. S. T. At stations where only a single observation is recorded, *viz.*, class III, IV and V observatories, the observations are recorded at the morning hour only. At class II stations, observations are recorded at 8 hrs. I. S. T. and 17 hrs. I. S. T. whereas at class I stations observations are recorded at 12-30 hrs. I. S. T. also.

The north and south Baluchistan stations where observations were being recorded at 7 hrs. L. M. T. and 17 hrs. I. S. T. and 4 and 12 hrs. G. M. T. respectively up to the end of December 1937 have been brought into line with Indian stations from 1st January 1938 and now record observations at 8 hrs. I. S. T. and 17 hrs. I. S. T.

At the Iranian and Arabian stations the hours of observation adopted are 4 and 12 hrs. G. M. T.

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 a height of 4½ to 4½ ft. above ground; they are at a similar height in the sheds also. A standard height of 1 ft. above ground has been adopted for the rim of the funnel of the rain-gauge.

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

Station.	Class.	φ	λ	H_b	h_a	Station.	Class.	φ	λ	H_b
		° ′ N	° ′ E	ft.	ft.			° ′ N	° ′ E	ft.
Abu	II	24 36	72 43	3,945	63	Bhuj	II	23 15	69 48	343
Agra	II	27 10	78 02	553	39	Bidar	II	17 55	77 32	2,178
Ahmedabad	II	23 02	72 35	163	51	Bijapur	II	16 49	75 43	1,950
Ahmednagar	II	19 05	74 55	2,154	37	Bikaner	II	28 00	73 18	734
Aijal	II	23 44	92 43	3,599	26	Bogra	II	24 51	89 23	63
Ajmer	II	26 27	74 37	1,593	45	Bombay	I	18 54	72 49	35
Akola	II	20 42	77 02	925	43	Brahmanbaria	II	23 59	91 07	32
Alibag	III	18 38	72 52	23	74	Brijnagar	II	24 32	76 10	1,053
Aligarh	II	27 53	78 04	615	46	Burdwan	II	23 14	87 51	106
Allahabad (Bamrauli)	II	25 27	81 44	322	19	Bushire	II	28 59	50 49	14
Alleppey	II	09 33	76 25	12	37	Calcutta (Alipore)	I	22 32	88 20	21
Ambala	II	30 23	76 46	892	42	Calicut	II	11 15	75 47	27
Amini Divi	III	11 07	72 44	13	27	Calingapatam	II	18 20	84 08	19
Amraoti	II	20 56	77 47	1,213	26	Cawnpore	II	26 26	80 22	413
Anantapur	II	14 41	77 37	1,148	49	Chaibasa	II	22 33	85 49	742
Angul	II	20 50	85 06	455	25	Chaman	II	30 55	66 28	4,311
Arogyavaram	II	13 32	78 30	2,299	33	Champa	II	20 02	82 40	805
Arrah	V	25 34	84 40	—	—	Chanda	II	19 58	79 18	634
Asansol	II	23 41	86 59	414	33	Chandbali	II	20 47	86 44	20
Aurangabad	II	19 53	75 20	1,905	35	Chapra	V	25 47	84 44	—
Badin	II	24 38	68 54	31	22	Charbar	II	25 17	60 37	25
Bahawalpur	II	29 24	71 47	384	45	Cherat	II	33 50	71 54	4,272
Bahraich	II	27 34	81 36	407	37	Cherrapunji	II	25 15	91 44	4,309
Bahrain	II	26 14	50 35	12	33	Chitaldrug	II	14 14	76 27	2,405
Balasore	II	21 30	86 56	65	26	Chittagong	II	22 21	91 50	87
Balchonnur	IV	13 22	75 27	2,917	—	Cocanada	II	16 57	82 14	26
Bandar Abbas	II	27 11	56 17	29	32	Cochin	II	09 58	76 14	1
Bangalore	I	12 58	77 35	3,021	53	Coimbatore	II	11 00	76 58	1,341
Bankura	V	23 14	87 04	—	—	Colombo	I	06 54	79 52	24
Bannu	II	33 00	70 36	1,264	45	Comilla	II	23 28	91 11	29
Bareilly	II	28 22	79 24	568	41	Cooch Behar	V	26 20	89 27	—
Barisal	II	22 42	90 22	11	35	Coonoor	III	11 21	76 48	5,736
Barmer	II	25 45	71 23	438	22	Cox's Bazar	II	21 27	91 59	85
Baroda	I	22 18	73 15	115	42	Cuddalore	II	11 46	79 46	39
Belgaum	II	15 51	74 31	2,562	42	Cuddapah	II	14 29	78 50	428
Bellary	II	15 09	76 51	1,473	30	Cuttack	II	20 29	85 52	87
Benares	II	25 18	83 01	250	81	Dahanu	II	19 58	72 43	15
Berhampore	II	24 08	88 16	62	25	Dalbandin	II	28 54	64 25	2,78
Bhavnagar	II	21 45	72 12	55	27	Dalhousie	V	33 22	75 58	—
Bhopal	II	23 16	77 25	1,643	32	Daltonganj	II	24 03	84 04	725

Station.	Class.	φ	λ	H_b	h_a	Station.	Class.	φ	λ	H_b	h_a
		° ′ N	° ′ E	ft.	ft.			° ′ N	° ′ E	ft.	ft.
Darbhanga . .	II	26 10	85 54	161	28	Hissar . . .	II	29 10	75 44	725	42
Darjiling . . .	II	27 03	88 16	7,432	18	Honavar . . .	II	14 17	74 27	85	31
Deesa . . .	II	24 14	72 12	466	62	Hoshangabad . .	II	22 40	77 44	992	35
Dehra Dun . .	II	30 19	78 02	2,239	36	Hyderabad (Begumpet)	I	17 26	78 27	1,778	49
Dehri . . .	II	24 55	84 11	352	28	Hyderabad (Sind) .	II	25 23	68 25	96	26
Dera Ismail Khan .	II	31 49	70 55	570	30	Indore . . .	II	22 43	75 54	1,823	29
Devgad . . .	II	16 23	73 21	117	25	Ispahan . . .	II	32 40	51 44	5,817	42
Dhanbad . . .	III	23 47	86 26	839	48	Jacobabad . . .	II	28 17	68 29	183	27
Dharampore . .	V	30 54	77 01	—	—	Jagdalpur . . .	II	19 05	82 02	1,815	35
Dhubri . . .	II	26 01	89 59	115	32	Jaipur . . .	I	26 55	75 50	1,431	46
Dibrugarh . . .	II	27 28	94 55	348	25	Jalalabad . . .	II	34 26	70 27	1,950	23
Dinajpur . . .	II	25 38	88 28	123	37	Jalgaon . . .	II	21 03	75 34	660	10
Dohad . . .	II	22 50	74 16	1,093	38	Jalpaiguri . . .	II	26 32	88 43	271	32
Dras	II	34 26	75 46	10,059	14	Jammu . . .	IV	32 44	74 55	1,200	—
Drosh . . .	II	35 34	71 47	4,709	13	Jamnagar . . .	III	22 29	70 04	60	39
Dum Dum . . .	II	22 39	88 27	33	—	Jamshedpur . .	II	22 49	86 11	423	49
Dwarka . . .	II	22 22	69 05	37	19	Jask	II	25 45	57 45	13	40
Faridpur . . .	II	23 37	89 51	27	43	Jessore . . .	II	23 10	89 13	26	39
Fatehpur . . .	II	25 56	80 50	375	37	Jhansi . . .	II	25 27	78 35	824	37
Fort Abbas . .	II	29 11	72 50	475	21	Jiwani . . .	II	25 10	61 47	13	7
Fort Sandeman . .	II	31 21	69 27	4,614	25	Jodhpur . . .	I	26 18	73 01	736	20
Gadag . . .	II	15 25	75 38	2,131	32	Jubbulpore . .	II	23 10	79 57	1,289	36
Gauhati . . .	II	26 11	91 45	182	28	Kabul . . .	II	34 30	69 13	5,955	22
Gaya . . .	II	24 45	84 57	365	21	Kalat . . .	II	29 02	66 35	6,616	11
Gilgit . . .	II	35 55	74 23	4,890	25	Kalimpong . .	II	27 04	88 28	3,965	22
Gonda . . .	II	27 08	81 58	360	32	Kandahar . . .	II	31 36	65 40	3,462	25
Gondia . . .	II	21 28	80 12	1,026	31	Kanker . . .	II	20 16	81 29	1,318	39
Gopalpur . . .	II	19 16	84 53	56	29	Kargil . . .	IV	34 34	76 08	8,790	—
Gorakhpur . . .	II	26 45	83 22	254	31	Katmandu . . .	II	27 42	85 12	4,388	24
Gulbarga . . .	II	17 21	76 51	1,503	36	Khammameth . .	II	17 15	80 09	367	29
Gulmarg . . .	III	34 03	74 24	8,709	60	Khandala . . .	V	18 46	73 22	—	—
Guna . . .	II	24 39	77 19	1,571	23	Khandwa . . .	II	21 50	76 22	1,044	21
Gurez . . .	V	34 40	74 50	—	—	Khanpur . . .	II	28 39	70 41	297	33
Gwalior . . .	II	26 14	78 15	681	6	Khulna . . .	II	22 49	89 34	16	42
Hambantota . .	II	06 07	81 08	61	—	Khushab . . .	II	32 18	72 22	612	26
Hanamkonda . .	II	18 01	79 34	881	38	Kodaikanal . .	I	10 14	77 28	7,688	42
Harnai (Baluchistan) .	V	30 06	67 56	—	—	Kolhapur . . .	II	16 42	74 14	1,885	35
Harnai (Konkan) .	II	17 48	73 06	66	5	Kotah . . .	II	25 11	75 51	843	31
Hassan . . .	II	13 00	76 09	3,149	34	Krishnagar . .	II	23 24	88 31	48	45
Hazaribagh . .	II	23 59	85 22	2,006	63	Kurnool . . .	II	15 50	78 04	923	49

Station.	Class.	φ	λ	H_b	h_a
		° ′ N	° ′ E	ft.	ft.
Kyelang	V	32 35	77 04	—	—
Lachung	V	27 42	88 45	—	—
Lahore	I	31 35	74 20	702	26
Las Bela	II	26 14	66 19	292	23
Leh	III	34 09	77 34	11,529	25
Leiah	II	30 58	70 56	490	27
Lhasa	III	29 40	91 07	12,090	31
Loralai	II	30 24	68 36	4,699	23
Lucknow	II	26 52	80 56	371	31
Ludhiana	II	30 56	75 52	812	24
Lumding	IV	25 45	93 11	440	—
Lyallpur	II	31 26	73 06	605	44
Madhosagar	II	26 13	78 00	757	23
Madras	I	13 04	80 15	51	77
Madura	II	09 55	78 07	437	36
Mahabaleshwar	II	17 56	73 40	4,534	28
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
Mangalore	II	12 52	74 51	72	54
Mannar	—	08 [illegible]5	79 50	1[illegible]	—
Manora (Karachi)	II	24 48	67 59	13	36
Marmagao	II	15 25	73 47	202	25
Masulipatam	II	16 11	81 08	10	35
Mawsynram	V	25 18	91 35	—	—
Meerut	V	29 01	77 43	—	—
Mercara	II	12 25	75 44	3,781	18
Meshed	II	36 17	59 36	3,104	26
Midnapore	II	22 25	87 19	149	28
Minicoy	II	08 18	73 00	6	48
Miraj	II	16 49	74 41	1,817	31
Miranshah	II	33 57	70 07	3,026	33
Misgar	II	36 47	74 46	10,190	21
Montgomery	II	30 39	73 08	558	27
Motihari	II	26 40	84 55	218	29
Muktesar	II	29 28	79 39	7,592	14
Multan	II	30 12	71 31	413	50
Murree	II	33 55	73 23	7,113	88
Muscat	II	23 45	58 35	15	39
Mussooree	II	30 27	78 05	6,699	30

Station.	Class.	φ	λ	H_b	h_a
		° ′ N	° ′ E	ft.	ft.
Muzaffarpur	V	26 07	85 24	—	—
Mymensingh	II	24 46	90 24	62	25
Mysore	II	12 18	76 42	2,518	73
Nagercoil	II	08 10	77 27	195	22
Nagpur	II	21 09	79 07	1,022	46
Narayanganj	II	23 37	90 30	26	27
Naya Dumka	II	24 16	87 15	489	26
Neemuch	II	24 28	74 54	1,626	42
Negapatam	II	10 46	79 51	31	39
Nellore	II	14 27	79 59	66	45
New Delhi	I	28 35	77 12	714	53
Nizamabad	II	18 40	78 06	1,250	46
Noakhali	II	22 49	91 07	22	45
Nokkundi	II	28 49	62 45	2,22[illegible]	11
Nowgong	II	26 04	79 27	750	28
Ongole	II	15 34	80 03	38	31
Ootacamund	II	11 24	76 44	7,364	27
Ormara	II	25 15	64 39	15	7
Pabna	IV	24 01	89 16	40	—
Pachmarhi	II	22 28	78 26	3,528	37
Pad Idan	II	26 51	68 08	155	23
Palamcottah	V	08 44	77 45	—	—
Palghat	II	10 46	76 39	319	10
Pamban	II	09 16	79 18	37	26
Panjgur	II	26 58	64 06	3,177	13
Parachinar	II	33 52	70 04	5,673	27
Parbhani	II	19 08	76 50	1,350	—
Pasni	II	25 16	63 28	10	21
Patna	II	25 37	85 10	173	51
Peddapalli	III	18 37	79 23	755	27
Pendra	II	22 46	81 54	2,040	20
Peshawar	I	34 01	71 35	1,164	30
Phalodi	II	27 08	72 22	783	41
Poona	I	18 32	73 51	1,834	24
Port Blair	II	11 40	92 43	259	27
Puri	II	19 48	85 49	20	29
Purnea	II	25 46	87 28	124	25
Quetta	II	30 10	67 01	5,490	18
Raichur	II	16 12	77 21	1,311	42
Raipur	II	21 14	81 39	970	28

Station.	Class.	φ	λ	H_b	h_a
		° ′ N	° ′ E	ft.	ft.
Rajkot	II	22 18	70 50	432	30
Rajsamand	II	25 03	73 53	1,882	22
Rajshahi	V	24 22	88 36	—	—
Ranchi	II	23 23	85 20	2,150	44
Rangpur	V	25 45	89 15	—	—
Rawalpindi	II	33 36	73 07	1,674	33
Rentachintala	II	16 33	79 33	348	27
Roorkee	II	29 51	77 53	899	40
Sabour	II	25 14	87 04	122	24
Salem	II	11 39	78 10	913	54
Sambalpur	II	21 28	83 58	486	29
Sandheads	II	20 51	88 15	28	—
Satkhira	II	22 43	89 05	16	25
Saugor	II	23 51	78 45	1,808	7
Saugor Island	II	21 39	88 03	10	52
Seistan	II	31 02	61 30	—	25
Seoni	II	22 05	79 33	2,027	31
Seychelles	II	04 37	55 27	15	37
Sharjah	II	25 20	55 24	18	33
Shillong	II	25 34	91 53	4,921	28
Sholapur	II	17 40	75 54	1,570	30
Sialkot	II	32 30	74 32	830	28
Sibi	II	29 33	67 53	441	23
Sibsagar	II	26 59	94 38	317	33
Sikar	II	27 37	75 08	1,406	27
Silchar	II	24 49	92 48	96	23
Simla	II	31 06	77 10	7,224	36
Sirajganj	V	24 27	89 45	—	—
Skardu	II	35 18	75 37	7,505	17
Sonamarg	V	34 19	75 19	—	—
Sri Ganganagar	II	29 55	73 53	580	26
Srimangal	II	24 19	91 44	69	40
Srinagar	I	34 05	74 50	5,205	60
Sukkur	II	27 42	68 54	221	27
Surat	II	21 12	72 50	39	63
Satna	II	24 34	80 50	1,041	33
Sylhet	II	24 54	91 47	258	30
Tatilagarh	II	20 03	83 03	591	29
Tiruchinopoly	II	10 49	78 42	255	36
Trincomalee	II	08 35	81 15	24	—

Station.	Class.	φ	λ	H_b	h_a
		° ′ N	° ′ E	ft.	ft.
Trivandrum	I	08 29	76 57	211	41
Udaipur	V	24 35	73 42	—	—
Umaria	II	23 32	80 53	1,506	34
Umarkot	II	25 22	69 44	55	—
Vellore	II	12 55	79 09	703	21
Veraval	II	20 55	70 22	26	34
Vizagapatam	II	17 42	83 18	126	43
Wana	II	32 18	69 44	4,456	23
Yatung (Chumbi)	IV	27 29	88 55	9,800	—
Zahidan	IV	29 30	60 53	4,718	23

Territorial Divisions.—The system of territorial divisions according to which the observatories are grouped since August 1947 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.
Assam	Assam (11).
West Bengal	West Bengal (15).
Orissa	Orissa (7).
Bihar	Chota-Nagpur (6). Bihar (11).
United Provinces	United Provinces, East (8). United Provinces, West (10).
East Punjab	East Punjab (8). Kashmir (11).
Rajputana	Rajputana, West (5). Rajputana, East (8).
Bombay	Gujarat (11). Konkan (7). Bombay, Deccan (11).
Central India	Central India, West (6). Central India, East (3).
Central Provinces and Berar	Berar (2). Central Provinces, West (7). Central Provinces, East (8).
Hyderabad	Hyderabad, North (5). Hyderabad, South (5).
Mysore	Mysore (5).
Madras	Malabar (7). Madras, South-east (13). Madras, Deccan (5). Madras Coast, North (6).

Barometric pressure.—Till 1932 mercurial barometers of the Fortin type with tubes of 0·4″ bore throughout were being used 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 plain stations and all these stations are now equipped with such instruments. The Kew pattern Barometers were also introduced at two hill stations Kodaikanal and Mahabaleshwar during 1946 and 1947 respectively. Fortin Barometers continue to be used at other hill stations.

Aneroid barometers were in use at Ispahan, Tehran, Kashgar, Meshed, Gilgit, Jalalabad, Kandahar, Skardu and 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 being 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 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 now 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 and a perforated top and bottom. A sloping extra cover of wood protects the top from 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.

Although observations are recorded twice a day, at 8 hrs. I. S. T. and 17 hrs. I. S. T., at almost all the Indian observatories, the maximum and minimum thermometers are set only once in a day, at the time of the morning observation, and the maximum and minimum temperatures therefore refer to the 24 hours period ending at 8 hrs. I. S. T. The monthly means of these temperatures refer to the month ending at 8 hrs. on the last day of the month.

At the Iranian and Arabian stations which record observations at 4 hrs. and 12 hrs. G. M. T. maximum and minimum thermometers were set at both the hours of observation up to 31st December 1936 ; maximum temperature entered against any date was that for the 24 hours ending at the afternoon observation hour of that date and the minimum temperature for the 24 hours ending at the morning observation hour. From 1st January 1937, however, these observatories were brought into line with Indian Stations and the maximum and minimum thermometers are also set only once in a day, at the time of the morning observation. The maximum and minimum temperatures, therefore, refer to the 24 hours period ending at 4 hrs. G. M. T. The monthly means of these temperatures refer to the month ending at 4 hrs. G. M. T. 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 11 stations appear in Table VII, 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-Stokes pattern were in use at 11 stations.

Surface Winds.—Previous 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 values.

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. The resultant direction wherever given is calculated by the use of Lambert's formula in which equal weight is given to each wind observation irrespective of velocity.

The hourly velocities at 12 stations equipped with Beckley's or Dines' P. T. anemographs are given in Table VIII. Owing to a change in the method of tabulation of the anemograms from 1st January 1939 the velocity given against any hour is the average for the ten minutes immediately preceding that hour.

Humidity and Cloud.—The hygrometric data are calculated by means of the departmental Hygrometric tables. The proportion of cloud is estimated in tenths of the sky expanse, an overcast sky being denoted by 10 and a cloudless sky by 0.

Rainfall.—Symons' raingauges with funnels of 5" diameter are now used at all raingauge stations, with the exception of those in Mysore and Travancore where raingauges of local make having funnels of 4·7" diameter are in general use. At all the departmental raingauge stations new rain-measuring glasses made according to specification drawn up by this department and tested at Poona have been introduced. The time of measuring rainfall is 8 hrs. I. S. T., throughout India, and the amounts then registered give the rainfall of the previous 24 hours.

The rainfall data for each province are generally tabulated in the office of the provincial officers controlling registration of rainfall in the province, and published in the provincial gazettes. The data of Rajputana, Central India, Eastern States and States in the Bombay Area are, however, published by the Meteorological Office, Poona. These provincial tables are collected together and are issued annually in a separate volume entitled " Rainfall of India ". These data are utilised in preparing Tables X to XV in part A. In these provincial 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 is 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 autographic instruments maintained at each station. The symbols adopted to denote different instruments are shown below.

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

Station.	Autographic Instruments.					
1. Alibagh		B		T	R	
2. Aligarh		B	U	T		
3. Allahabad (Bamrauli).	W	B	U	T	R	⊙
4. Asansol		B				
5. Bangalore ‡	W	B		T	R	⊙
6. Barmer		B		T		
7. Baroda §	W	B	U	T	R	⊙
8. Bhopal §		B	U*	T		
9. Bombay (Colaba)	W		U	T	R	⊙
10. Bombay (Juhu)	W	B		T	R	
11. Calcutta (Alipore)	W	B	U	T	R	⊙
12. Calcutta (Dum Dum).	W	B	U	T	R	
13. Cherrapunji					R	
14. Cocanada		B				
15. Cochin	W	B				
16. Gaya	W	B		T	R	
17. Gopalpur	W	B				
18. Hyderabad (Begumpet).§	W	B			R	
19. Jaipur †	W	B		T	R	⊙
20. Jamshedpur	W	B		T	R	
21. Jodhpur	W	B	U	T	R	⊙
22. Kodaikanal	W	B	U	T	R	⊙
23. Lucknow		B				
24. Madras (Meenambakkam).		B	U	T	R	⊙
25. Madras (Nungambakkam).	W					
26. Madras (Port Trust)	W					
27. Mahabaleshwar					R	
28. Mangalore		B				
29. Masulipatam		B				
30. Nagpur		B	U		T	⊙
31. Negapatam		B				
32. New Delhi	W	B	U	T	R	⊙
33. Pamban		B				
34. Poona	W	B	U	T	R	
35. Puri		B				
36. Sandheads		B				
37. Saugor Island	W	B		T	R	
38. Seychelles		B			R	
39. Srinagar		B		T		
40. Tezpur	W			T		
41. Trivandrum §	W	B		T	R	⊙
42. Veraval		B				
43. Vizagapatam	W	B				

* Thermohygrograph.
† Anemograph and sunshine recorder belong to State.
‡ Instruments except the anemograph belong to State.
§ Instruments belong to State.

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

Table III 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 VI gives the monthly and annual means of observations recorded at 12-30 hrs. I. S. T. at 13 first class stations. This also contains the daily means of pressure, temperature, humidity and vapour tension which have appeared in Table D-1 up to 1932. The daily means of pressure, humidity and vapour tension data given in this table have been obtained from the means of 8 hrs., 12-30 hrs. and 17 hrs. I. S. T., and those of temperature from the means of maximum and minimum temperatures by the application of appropriate corrections, derived from the available hourly observations, to reduce them to true mean of the day. The daily means of Kodaikanal are those obtained from the hourly records of self-recording instruments corrected by eye readings. The daily means and 12-30 hrs. I. S. T. data of Bombay, with the exception of cloud, are taken from autographic charts.

Table VII gives the abstracts of the data of the number of hours of bright sunshine and of nocturnal radiation minimum temperature at 11 first class stations.

Table VIII gives the mean hourly wind velocity at 12 stations equipped with anemographs. The heights of anemometer cups or their heads above ground are given in brackets against each station.

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

Tables X to XIV give the divisional and sub-divisional means of rainfall, derived from the records at about 3,000 rainfall-recording stations and Table XV gives heavy falls of 10″ and above in 24 hours at these stations.

Normals.—The normals used for comparison in Tables I to V and X to XIV are generally based on data up to 1940.

In Table VI normal values derived from all available data up to 1899 as published in the Indian Meteorological Memoirs, Vol. XVII, have been used. The normals of Bombay are those published in the Climatology of Bombay and are based on hourly data up to 1920. Those of Kodaikanal are based on 11 years hourly data from 1901 to 1911.

In Table VII 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 Calcutta, New Delhi, Nagpur, Bombay and Madras are scrutinised and supplied by the respective centres.

MGIPC—M—107 DGO—4-9-51—240.

List of Agents in India from whom Government of India Publications are available—*contd.*

[*Continued from inner side of the front cover.*]

LUDHIANA—
Lyall Book Depot.
Mr. Dharam Prakash, B.Sc., Banjiman Road.

MADRAS—
Devine Trading Co., 22, Namasivaya Mudali Street, Triplicane.
Higginbothams.
K. Krishnamurthy, Mount Road.
Presidency Book Supplies, 8-C, Pycrofts Road, Opp. Victoria Hostel, Triplicane.
Supdt., Government Press, Mount Road.
Varadachary & Co., Messrs. P.

MANGALORE—
U. R. Shenoy & Sons, Car Street.

MEERUT CANTT.—
Mr. Dharam Prakash, B.Sc.

MEERUT CITY—
Prakash Educations Stores, Near Tehsil.
University Book Depot, Near Tehsil.

MYSORE—
J. Nanumal and Sons, Lansdowne Buildings.

NAGPUR—
Supdt., Government Printing, Central Provinces.

NEW DELHI—
Amrit Book Co., Connaught Circus.
Bhavnani & Sons, Connaught Place.
Bodh Raj Marwah, Shop No. 65, Pussa Road Market, Karol Bagh.
Clifton & Co., Original Road, Karol Bagh.
Empire Book Depot, 278, Aliganj, Lodi Road.
English Book Store, G-Block, Connaught Circus.
Faqir Chand Marwah & Sons, No. 1-A, Regal Building, Connaught Circus.
Harikishan Das Bedi, R. S., 22. Annexe Feroze Shah Road.
J. Ray & Sons (India), Ltd., 2, Regal Building.
Jain Book Agency, Connaught Place.
Jayna Book Depot, Chapparwala Kuan, Karol Bagh.
Oxford Book & Stationery Coy., Scindia House.
Ram Krishna & Sons (of Lahore), 13/13, Connaught Place.
Saraswati Book Depot, 15, Lady Hardinge Road.
Sikh Publishing House, Ltd., 7-C, Connaught Place.

PATIALA—
Jainco Booksellers, etc., Bazar Shaha Nashin.

PATNA—
Sohan Singh & Sons, Pirmohani, P. O. Kadm Kuan.
Supdt., Government Printing, Bihar, P. O. Gulzar Bagh.

PATNA CITY—
*Hindi Pustak Agency.
Lakshmi Trading Co., Padri-ki-Haveli.
Raghunath Parshad & Sons.

POONA—
Deccan Book Stall, Fergusson College Road.
Express Book Service, East Street.
International Book Service, Deccan Gymkhana.

PUDUKKOTTAI—
P. N. Swaminathan Sivam & Co., Perumal Vilas, Bazar Street.

RAJKOT—
Mohan Lal Dosabhai Shah.

RANCHI—
Ideal Book Store, Near Paristhan Theatre, Main Road.

ROORKEE—
Cambridge Book Depot.

SHILLONG—
Supdt., Assam Secretariat Press.

SIMLA—
J. Ray & Sons (India), Ltd.
Azad Kitab Mahal, Stall No. 13.
Minerva Book Shop, Regal Cinema Building.
Sunder Das & Sons, 141, Lower Bazar.

SIROHI—
National Trading Co.

SURAT—
Shree Gajan Pustakalaya, Tower Road.

TRICHINOPOLY FORT—
Krishna Swami & Co., Messrs. S., Teppakulam.

TRIVANDRUM—
International Book House, 33, Valia Chalai.

UDAIPUR—
Mewar Book Depot.

UJJAIN—
Manakchand Book Depot, Patni Bazar.

VELLORE—
Venkatasubban, Mr. S., Law Booksellers.

*For Hindi Publications only.

Registered No. B-3097

INDIAN WEATHER REVIEW, 1947

Monthly Weather Report

January

LIBRARY
DEC 0- 1348
WEATHER BUREAU

Published by authority of the Government of India

Chief Features.— (*i*) Three active western disturbances; (*ii*) a weak depression in the south-east Bay of Bengal in the middle of the month.

Thunderstorms caused fairly widespread rainfall in southeast Madras and Malabar and along the belt of country from the Konkan to Central India on the first day of the month. According to press reports, severe hailstorms occurred in certain districts in the north Bombay Deccan, resulting in the death of cattle and injury to persons. Damage to standing rabi crops in these parts was also reported. Due to a strengthening of the northeast monsoon fairly widespread thundershowers occurred in southeast Madras and south Malabar on the 5th and 6th with a few showers in the Madras Deccan on the 7th and 8th.

A depression formed in the southeast Bay of Bengal on the 18th, centred at 0800 hrs. I.S.T. near Lat. 11°N, Long. 88°E. It weakened rapidly by the evening of the 19th without any considerable movement. This was followed by local thundershowers in Chota Nagpur on the 19th and 20th and in the east Central Provinces on the 22nd, while widespread thundershowers occurred in Orissa on the 23rd and 24th.

Of the five western disturbances of the month, the first affected the northwest frontier on the 2nd, and this with its secondary low pressure area over east Rajputana caused fairly widespread showers in Baluchistan and the North-West Frontier Province on the 3rd, rainfall gradually extending eastwards up to Bihar by the 6th. The second western disturbance passed across the northwest frontier on the 7th causing a few showers in north Baluchistan and the North-West Frontier Province. Due to the third disturbance local showers occurred in Baluchistan, Kashmir and the east and north Punjab and over the Punjab-Kumaon hills between the 9th and 11th. During the four subsequent days its secondary caused an extension of local rain in Central India, the north Central Provinces, Berar, Orissa and Assam. The fourth western disturbance gave a few showers in the extreme north of the country during the period 19th to 22nd. While the fifth was passing across the extreme north of the country, a low pressure wave was also moving westwards across the south Bay of Bengal. In association with these widespread and locally heavy rain fell along the Coromandel coast on the 27th and 28th, followed by fairly widespread rain in the central parts of the country, the United Provinces and Chota Nagpur during the 26th to 28th of the month. During the last three days of the month, rainfall was confined to the south Peninsula, local showers being reported from southeast Madras on the 29th and 30th and from Malabar on the 30th.

The total rainfall of the month was in moderate to large excess in Orissa, Central India, Berar, the Central Provinces, the Bombay Deccan, north Hyderabad and the Madras Presidency and in slight excess in Chota Nagpur and the east United Provinces. It was normal in the west United Provinces, Baluchistan, east Rajputana and Mysore and in slight defect in Bihar and Kashmir. Elsewhere it was in moderate to large defect except in Sind where no rain fell. Averaged over the plains of India, the month's rainfall was 31 per cent in excess.

The maximum temperature was above normal in the Bay Islands and Baluchistan, and below normal in Chota Nagpur, the west United Provinces, Kashmir, east Rajputana, Central India, Berar and the west Central Provinces. The minimum temperature was above normal in the Bay Islands, Orissa, Baluchistan, Berar, the east Central Provinces, the Bombay Deccan, Hyderabad, Mysore, southeast Madras, the Madras Deccan and the north Madras coast and below normal in Kashmir.

[Price 8 annas]

Relative humidity was in excess in Orissa, Chota Nagpur, the United Provinces the east and north Punjab, east Rajputana, Gujarat, the Central parts of the country and in the Peninsula outside southeast Madras and the north Madras coast. Elsewhere it was normal.

The mean cloud amount was normal in the west United Provinces and northwest India outside west Rajputana, and in the Konkan. It was in defect in west Rajputana and in excess elsewhere.

N. B.—**The Indian Standard Time used in this publication is 5 hours and 30 minutes in advance of G. M. T.**

Poona No. 5:
The 25th April 1947.

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

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—JANUARY 1947

	RAINFALL.				DEPARTURE FROM NORMAL OF				
							8 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 ...	0·15	0·64	−0·49	− 77	+1·0	−0·4	−0·1	− 3	+1·0
Bengal ...	0·05	0·38	−0·33	− 87	0	+1·6	+0·2	0	+0·5
Orissa ...	1·19	0·33	+0·86	+261	−0·3	+2·9	+2·2	+ 7	+0·9
Bihar ...	0·57	0·64	−0·07	− 11	−0·8	+1·5	+1·1	+ 6	+1·4
United Provinces.	0·88	0·85	+0·03	+ 4	−1·6	−0·8	+0·1	+ 8	+0·5
Punjab ...	0·35	0·90	−0·55	− 61	+0·2	−0·7	0	+ 7	0
North-West Frontier Province.	0·31	0·80	−0·49	− 61	+0·6	−0·1	+0·1	− 5	−0·6
Sind ...	0	0·24	−0·24	−100	+1·7	−0·3	+0·3	+ 2	+0·1
Sub-division									
Bay Islands ...	0·98	1·79	− 0·81	− 45	+2·4	+3·4	+2·7	+ 4	+1·3
Assam ...	0·15	0·64	− 0·49	− 77	+1·0	−0·4	−0·1	− 3	+1·0
Bengal ...	0·05	0·38	− 0·33	− 87	0	+1·6	+0·2	0	+0·5
Orissa ...	1·19	0·33	+ 0·86	+261	−0·3	+2·9	+2·2	+ 7	+0·9
Chota Nagpur ..	0·83	0·75	+ 0·08	+ 11	−2·3	+1·4	+1·6	+ 9	+1·7
Bihar ...	0·44	0·58	− 0·14	− 24	+0·4	+1·6	+0·7	+ 4	+1·1
United Provinces, East.	0·76	0·67	+ 0·09	+ 13	−1·0	0	0	+ 6	+0·8
Do. do. West.	0·99	1·04	− 0·05	− 5	−2·2	−1·7	+0·2	+10	+0·1
Punjab, East and North.	0·67	1·41	− 0·74	− 52	−0·8	−0·8	+0·3	+ 9	+0·1
Do. Southwest.	0·02	0·39	− 0·37	− 95	+1·2	−0·5	−0·3	+ 4	−0·2
Kashmir ...	1·63	2·16	− 0·53	− 25	−5·6	−5·5	−0·7	+ 1	−0·2
North-West Frontier Province.	0·31	0·80	− 0·49	− 61	+0·6	−0·1	+0·1	− 5	−0·6
Baluchistan ...	0·96	1·01	− 0·05	− 5	+2·6	+2·4	+1·2	+ 5	−0·4
Sind ...	0	0·24	− 0·24	−100	+1·7	−0·3	+0·3	+ 2	+0·1
Rajputana, West.	0·04	0·24	− 0·20	− 83	+0·4	−0·7	−0·5	+ 1	−0·9
Rajputana, East.	0·31	0·31	0	0	−3·3	−1·4	+0·9	+11	0
Gujarat ...	0·01	0·07	− 0·06	− 86	−0·9	0	+0·7	+ 6	+0·2

	RAINFALL.				DEPARTURE FROM NORMAL OF				
							8 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.	%	
9. Rajputana ...	0·17	0·27	−0·10	− 37	−1·7	−1·1	+0·3	+ 8	−0·5
10. Bombay ...	0·20	0·10	+0·10	+100	−0·5	+0·9	+1·9	+10	+0·5
11. Central India ...	1·04	0·48	+0·56	+117	−3·2	−0·7	+1·3	+17	+1·0
12. Central Provinces and Berar.	1·40	0·45	+0·95	+211	−2·5	+2·5	+2·7	+13	+1·9
13. Hyderabad ...	0·29	0·27	+0·02	+ 7	+0·7	+3·6	+3·4	+11	+1·0
14. Mysore ...	0·18	0·17	+0·01	+ 6	−1·1	+3·1	+3·1	+13	+3·3
15. Madras ...	1·66	0·79	+0·87	+110	−0·5	+3·2	+2·6	+ 5	+1·7
Mean of India ...	0·64	0·49	+0·15	+ 31	−0·7	+1·0	+1·3	+ 8	+0·8
Sub-division—*contd.*									
18. Central India, West.	0·49	0·23	+ 0·26	+113	−3·6	−0·2	+1·7	+19	+1·1
19. Do. do. East.	1·77	0·81	+ 0·96	+119	−2·6	−1·3	+0·8	+13	+0·7
20. Berar ...	0·87	0·36	+ 0·51	+142	−2·9	+2·3	+3·9	+21	+1·5
21. Central Provinces, West.	2·12	0·50	+ 1·62	+324	−4·3	+1·3	+2·4	+15	+2·3
22. Do. do. East.	0·75	0·42	+ 0·33	+ 79	−0·2	+4·2	+2·7	+ 8	+1·7
23. Konkan ...	0·01	0·06	− 0·05	− 83	+0·6	+0·2	+2·4	+ 7	+0·3
24. Bombay Deccan...	0·48	0·16	+ 0·32	+200	−0·3	+2·0	+3·0	+16	+1·0
25. Hyderabad, North	0·55	0·27	+ 0·28	+104	0	+3·7	+3·3	+14	+0·7
26. Do. South	0·03	0·26	− 0·23	− 88	+1·1	+3·4	+3·4	+ 8	+1·3
27. Mysore ...	0·18	0·17	+ 0·01	+ 6	−1·1	+3·1	+3·1	+13	+3·3
28. Malabar ...	0·74	0·53	+ 0·21	+ 40	+0·2	+1·9	+3·1	+ 7	+2·3
29. Madras, Southeast	3·15	1·37	+ 1·78	+130	−0·7	+3·3	+2·1	+ 5	+1·6
30. Do. Deccan...	0·41	0·13	+ 0·28	+215	+0·1	+4·2	+3·6	+ 9	+1·1
31. Do. Coast, North	0·73	0·49	+ 0·24	+ 49	−0·9	+3·0	+2·4	+ 3	+1·5

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 hum	
		Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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	2
Bay Islands																					
Port Blair ...	261	1003·5	- 1·2	1001·0	86·6	+ 2·4	88	7, 19	75·0	+3·4	68	30	81·2	80·4	76·1	75·3	28·5	+2·7	27·7	78	+
Assam																					
Dibrugarh ...	348	1005·4	- 0·8	1001·3	73·5	+ 2·1	78	5	49·3	-0·8	42	16	57·1	64·6	54·9	59·1	13·8	-0·5	14·7	86	-
Sibsagar (*R*) ...	317																				
Tezpur ...	258	1008·6	- 0·8	1004·3	75·4	+ 1·6	78	7, 20	51·6	-0·9	46	17	57·9	66·7	55·4	60·7	13·9	-0·6	15·4	85	-
Gauhati ...	182	1010·8	- 0·7	1006·7	75·4	+ 0·8	80	7	50·5	-0·5	46	4 days	57·9	69·6	56·0	61·3	14·4	-0·3	14·8	89	-
Dhubri ...	115	1013·3	- 0·3	1009·6	72·4	- 1·0	78	7,12,30	53·1	-0·1	48	15, 16	57·0	70·4	55·7	61·2	14·5	0	14·4	92	+
Silchar ...	96	1013·4	- 1·0	1009·4	79·3	+ 1·3	85	5	53·2	+0·9	45	18	57·6	74·0	55·5	63·2	14·2	-1·0	14·8	88	+
Srimangal ...	69	1013·6	- 1·4	1010·3	78·6	- 0·9	83	4, 5, 6	47·6	+0·1	42	18	56·8	72·5	55·3	63·2	14·3	+0·4	15·5	91	+
Bengal																					
Cox's Bazar ...	38	1013·6	- 1·4	1010·9	79·0	- 0·6	83	4 days	58·0	+1·8	50	17	64·8	73·3	61·3	65·3	16·9	+0·2	17·7	81	+
Chittagong ...	87	1012·1	- 1·6	1009·2	79·4	+ 0·6	85	5, 6	56·3	+1·3	48	16, 17	63·5	72·2	59·0	63·7	15·0	-0·7	16·3	75	-
Noakhali ...	22	1015·1	- 0·9	1012·2	79·1	+ 1·0	84	21	58·2	+0·7	52	16	63·1	74·8	59·8	64·7	15·9	-0·4	16·3	82	+
Comilla ...	29	1015·1	- 0·7	1011·8	79·0	+ 0·5	82	4, 5	55·5	+2·6	48	16, 17	62·2	74·5	59·0	64·7	15·7	+0·1	16·3	82	+
Brahmanbaria ...	82	1015·0		1011·7	78·3	- 0·1	82	6, 8	55·2	+3·7	49	16, 17	62·3	72·6	59·3	63·6	15·9	+1·6	16·0	83	+1
Narayanganj (*R*) ...	26																				
Mymensingh ...	62	1014·6	- 0·6	1011·2	78·1	+ 2·0	81	4, 5, 21	53·6	0	47	15	58·8	73·1	56·5	64·3	14·5	0	16·5	86	+
Faridpur ...	27	1015·3	- 0·3	1012·0	74·1	- 1·8	78	5, 7, 21	53·6	+1·1	46	17	62·9	71·1	58·7	63·1	15·1	+0·2	16·1	76	-
Barisal (*R*) ...	11																				
Khulna ...	16	1016·2	- 0·6	1012·9	78·6	+ 0·1	85	13	57·9	+2·7	50	16	63·7	73·4	59·0	63·7	15·0	+0·3	15·9	74	+
Jessore ...	26	1015·1	- 1·4	1013·3	77·2	- 1·4	82	26	51·4	+2·2	43	17	60·3	69·9	57·8	61·5	15·2	+0·7	14·8	85	+
Satkhira ...	16	1016·1	- 0·5	1012·7	77·7	- 2·5	81	22, 29	54·6	+1·8	45	17	60·6	74·3	57·5	64·3	14·8	+0·2	16·1	82	+
Dum Dum (*R*) ...	33																				
Calcutta ...	21	1015·9	- 0·7	1012·5	78·8	- 0·8	83	29	57·2	+2·6	50	16, 17	60·0	73·1	57·3	63·9	14·8	+0·2	16·5	85	
Saugor Island ...	10	1015·8	- 0·9	1012·7	77·1	+ 0·1	80	6, 14, 29					66·9	72·3	61·5	64·0	16·2	-1·3	16·5	72	-1
Sandheads ...	28	1015·1	- 1·0	1012·7									72·4	75·3	68·9	68·6	22·5	+3·1	20·9	79	+1
Midnapore ...	149	1011·9	- 0·2	1007·8	78·8	- 2·0	84	6, 7	56·5	+0·9	49	16	64·0	75·7	57·9	62·8	13·7	+0·6	13·6	67	
Burdwan ...	106	1013·5	- 0·2	1009·4	78·4	- 0·5	82	5 days	56·0	+1·3	48	17	59·9	75·3	56·6	61·5	14·1	+1·0	12·3	70	-
Krishnagar ...	48	1014·8	- 0·8	1011·5	79·4	+ 1·3	84	5	53·2	+1·6	44	18	58·4	75·3	55·7	63·2	14·0	+0·4	14·3	84	+
Asansol (*R*) ...	414																				
Berhampore ...	62	1014·7	- 0·7	1011·1	78·1	+ 1·4	82	28	54·8	+1·6	47	15	61·0	73·1	56·6	61·6	13·6	-0·2	13·5	74	-
Bogra ...	63	1014·2	- 0·9	1010·8	77·2	+ 1·4	80	7	53·9	+1·8	48	15	61·2	72·5	57·2	62·5	14·2	+0·4	14·8	77	-
Malda ...	103	1013·6	- 0·2	1010·1	75·5	+ 1·0	79	1	52·9	+2·9	46	16	60·7	71·5	56·5	60·5	13·6	+0·5	13·0	75	
Dinajpur ...	123	1012·7	- 0·1	1009·0	78·2	+ 2·8	81	1, 7	51·1	+1·5	46	25, 26	59·0	72·6	55·5	61·7	13·6	+0·5	13·8	79	-
Jalpaiguri ...	271	1006·9	- 0·9	1003·4	75·5	+ 1·1	80	2, 4, 6	51·2	+0·2	48	5 days	53·7	72·0	52·1	60·3	12·6	-1·1	12·7	89	
Orissa																					
Balasore (*R*) ...	65																				
Chandbali ...	20	1015·5	- 1·2	1012·7	79·2	- 2·1	88	14	60·5	+2·5	54	18	64·9	73·5	61·9	65·6	17·6	+1·5	17·9	84	+
Puri ...	20	1015·3	- 0·9	1012·4	80·4	+ 0·4	84	30	65·1	+1·4	62	4 days	67·8	75·3	64·6	68·8	19·4	+0·7	21·1	83	+
Gopalpur ...	56	1014·0	- 0·9	1011·0	80·4	- 0·2	84	13,14,30	65·5	+3·2	60	3	70·0	76·2	67·5	71·5	21·8	+3·9	24·3	87	+1
Cuttack ...	87	1012·8	- 1·5	1009·5	83·2	+ 0·1	87	13, 14	63·0	+3·2	57	31	65·4	78·9	62·8	67·2	18·4	+1·8	17·5	86	+
Angul ...	455	1000·5	- 0·6	996·7	81·3	- 0·5	85	14	59·5	+3·4	52	31	65·5	77·3	61·9	65·8	17·3	+2·7	16·5	61	+
Sambalpur ...	486	998·7	- 1·5	995·4	82·4	+ 0·6	85	6 days	58·5	+3·5	49	16	61·9	79·5	59·7	67·4	16·6	+2·5	17·5	88	+1
Chota Nagpur																					
Jamshedpur ...	433	1002·0	- 0·7	998·3	78·7	- 1·7	84	7	55·7	+4·4	48	16,17,31	60·2	74·8	56·6	62·2	14·1	+1·6	13·5	79	+
Chaibasa ...	742	990·5	- 0·5	986·8	78·9	- 0·8	84	5, 7	54·9	+2·5	47	16, 17	59·6	74·7	57·5	66·9	15·3	+2·2	18·9	87	+
Ranchi ...	2,150	941·9	- 0·4	939·2	68·3	- 5·2	72	6 days	50·2	-0·9	43	15,16,17	55·3	67·8	51·8	57·3	11·5	+1·4	11·3	79	+1
Hazaribagh ...	2,006	947·0	- 0·4	944·5	70·6	- 2·2	77	5	49·4	-0·9	39	15	55·2	64·9	51·1	55·4	11·1	+1·2	10·7	75	+12
Daltonganj ...	725	991·5	- 0·8	988·2	73·3	- 2·1	84	5	49·5	+2·0	39	17	54·7	70·1	53·0	59·5	13·0	+1·6	12·8	88	+ 5
Dhanbad ...	839	986·6			73·2		78	6	53·4		46	15,16,17	60·4		54·7		12·1			67	
Bihar																					
Purnea ...	124	1012·5	- 0·8	1009·1	75·9	+ 1·2	83	2, 5	49·5	+1·8	43	16,23,24	54·3	69·1	52·9	60·6	13·0	+0·6	14·2	91	+ 3
Darbhanga ...	161	1011·4	- 0·5	1008·3	73·0	- 1·3	77	1, 5, 22	50·1	+0·3	45	16	53·7	70·2	52·7	62·5	13·1	+0·2	15·9	93	+ 8
Motihari (*R*) ...	218																				
Patna ...	173	1010·8	- 0·9	1007·9	74·0	+ 1·0	81	1	52·2	+1·1	45	15, 16	56·6	69·5	53·0	58·8	12·1	0	12·2	77	+ 3
Dehri ...	352	1004·4		1001·7	73·4		81	5	52·8		46	16	56·5	70·6	53·9	58·1	13·0		10·9	84	
Gaya ...	365	1004·3	- 0·4	1001·1	74·0	- 0·8	80	5	50·5	+1·3	42	17	56·0	69·7	52·6	58·4	11·9	+1·5	11·5	78	+12
Naya Dumka ...	489	1000·1	- 0·2	996·3	77·4	+ 1·4	82	29	52·5	+1·6	44	16, 17	60·1	73·3	54·7	59·3	12·1	+0·1	10·9	69	0
Sahour ...	122	1012·6	- 0·9	1009·3	74·3	+ 0·8	80	1	48·4	+3·4	41	16, 17	56·7	68·3	54·2	60·6	12·2	+1·5	14·7	84	- 1

(*R*)—Register not received.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
8 hrs. I. S. T.	Departure from normal.	Mean 17 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	+ 1·3	6·6	0·98	− 0·81	0·44	22	4	+ 1·7	8·0	− 0·5	4	14	6	1	0	3	0	1	2	2	15	8	0	4	0	0	2	0	Port Blair
																													Assam
·5	− 0·6	3·1	0·90	− 0·59	0·34	7	3	− 0·7	0·7	+ 0·1	0	0	2	0	1	0	0	1	27	2	8	14	0	0	0	0	1	6	Dibrugarh
																													Sibsagar (*R*)
·3	− 1·1	1·2	0·07	− 0·51	0·07	3	0	− 1·5	1·2	− 0·5	3	9	15	1	0	0	0	0	3	1	2	3	0	0	1	0	0	24	Tezpur
·7	+ 1·2	2·6	0	− 0·38	0		0	− 1·1	2·0	+ 0·8	9	6	3	4	7	1	0	0	1	1	6	5	1	0	3	0	0	15	Gauhati
·0	+ 4·9	3·7	0	− 0·31	0		0	− 0·8	2·8	− 0·3	4	7	4	3	2	2	0	0	9	1	3	6	1	0	5	3	0	12	Dhubri
·8	+ 0·6	2·4	0	− 0·77	0		0	− 1·5	1·0	− 0·1	0	4	11	6	0	1	0	0	9	0	1	0	0	1	8	2	0	19	Silchar
·7	+ 0·9	2·1	0	− 0·42	0		0	− 1·0	1·3	− 0·3	0	2	0	0	2	2	3	2	20	0	3	0	0	1	1	7	4	15	Srimangal
																													Bengal
·9	+ 0·1	1·7	0	− 0·14	0		0	− 0·3	2·0	+ 0·3	0	16	2	0	0	0	0	1	12	0	1	0	0	0	0	3	23	4	Cox's Bazar
·7	− 0·1	1·8	0	− 0·24	0		0	− 0·4	3·5	− 0·7	2	22	4	0	0	0	0	0	3	12	3	0	0	0	0	2	10	4	Chittagong
·7	− 0·3	1·8	0	− 0·25	0		0	− 0·5	3·5	+ 1·7	25	1	0	0	0	0	0	5	0	20	2	0	1	0	0	1	5	2	Noakhali
·7	+ 1·1	2·7	0	− 0·32	0		0	− 0·8	2·0	+ 0·8	9	3	0	2	1	0	0	1	15	10	0	1	0	0	0	3	6	11	Comilla
·1		1·6	0	− 0·23	0		0	− 0·7	1·5		4	0	1	0	0	1	0	2	23	0	0	0	0	0	1	0	2	28	Brahmanbaria
																													Narayanganj (*R*)
·7	− 0·7	2·5	0·08	− 0·24	0·08	3	0	− 0·9	1·2	+ 0·4	0	1	8	0	0	0	3	1	18	1	0	0	0	0	3	0	27	Mymensingh
·8	+ 0·2	2·7	0·03	− 0·40	0·03	3	0	− 0·9	2·1	+ 0·4	4	8	0	0	0	0	0	7	12	1	4	0	0	0	0	0	2	24	Faridpur
																													Barisal (*R*)
·9	+ 0·9	3·1	0·08	− 0·36	0·05	3	0	− 0·8	1·3	− 0·7	11	3	1	0	0	0	0	2	14	0	1	0	0	0	0	0	3	27	Khulna
·2	+ 0·3	2·3	0·04	− 0·33	0·04	3	0	− 0·9	1·7	+ 0·6	6	5	0	0	0	0	1	2	17	0	0	0	0	0	0	0	2	29	Jessore
·1	+ 0·3	2·5	0·05	− 0·33	0·03	22	0	− 0·9	1·3	+ 0·2	6	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	1	30	Satkhira
																													Dum Dum (*R*)
·0	− 0·3	3·5	0·24	− 0·13	0·09	22	0	− 0·8	1·4	− 0·6	7	4	4	0	0	0	0	2	14	9	0	1	0	0	2	2	5	12	Calcutta
·7	0	3·2	0·07	− 0·34	0·05	3	0	− 0·9	7·2	+ 1·7	15	13	1	0	0	0	0	2	0	12	6	0	1	4	5	1	2	0	Saugor Island
·2	− 0·1	1·9	0·71	+ 0·52	0·50	24	2	+ 1·5			11	17	1	0	0	0	0	1	1	8	12	2	0	0	1	0	1	7	Sandheads
·3	+ 1·1	3·1	0·36	− 0·11	0·20	21	2	+ 1·1	2·8	+ 1·2	10	15	2	0	0	0	0	0	4	7	15	1	0	0	0	2	0	6	Midnapore
·3	0	2·8	0	− 0·45	0		0	− 0·9	2·2	+ 1·0	13	3	0	0	0	0	2	7	6	11	3	0	0	0	3	2	9	3	Burdwan
·5	+ 0·9	3·0	0	− 0·45	0		0	− 0·9	1·2	+ 0·1	1	2	0	0	0	1	3	7	17	6	0	0	0	0	0	4	5	16	Krishnagar
																													Asansol (*R*)
·8	+ 0·6	3·7	0	− 0·38	0		0	− 1·0	1·1	0	5	0	0	0	2	1	7	2	16	5	0	0	0	2	0	0	3	21	Berhampore
·7	+ 0·5	3·2	0	− 0·43	0		0	− 1·0	1·9	+ 0·9	5	6	0	0	0	0	6	7	6	6	0	0	0	0	1	13	4	7	Bogra
·3	+ 1·0	2·5	0	− 0·54	0		0	− 0·9	2·8	+ 0·1	7	3	0	0	1	2	2	11	5	6	0	0	0	0	1	5	15	4	Malda
·9	+ 1·0	3·3	0·01	− 0·35	0·01	3	0	− 0·9	0·3	− 1·0	0	3	0	0	0	1	1	1	25	0	0	0	0	0	2	1	0	28	Dinajpur
·3	+ 1·6	3·1	0	− 0·31	0		0	− 0·7	2·0	+ 1·1	10	5	0	0	1	1	1	4	9	0	1	1	3	1	6	5	1	13	Jalpaiguri
																													Orissa
																													Balasore (*R*)
·7	+ 0·4	5·6	0·89	+ 0·69	0·54	24	2	+ 1·3	3·5	− 0·1	22	1	0	1	0	0	0	6	1	0	7	20	4	0	0	0	0	0	Chandbali
·9	+ 0·6	3·6	1·68	+ 1·27	1·09	22	3	+ 2·4	7·2	+ 1·0	19	12	0	0	0	0	0	0	0	1	1	5	23	1	0	0	0	0	Puri
·8	+ 2·1	4·0	0·58	+ 0·30	0·39	24	2	+ 1·5	5·8	− 0·3	25	0	0	0	0	0	0	5	1	0	0	9	21	1	0	0	0	0	Gopalpur
·9	+ 0·4	3·3	1·34	+ 1·02	0·86	24	2	+ 1·3	1·9	+ 0·8	1	0	2	0	0	0	0	0	28	2	1	5	0	0	0	1	0	22	Cuttack
·6	+ 0·7	4·1	1·46	+ 1·02	0·81	24	3	+ 2·1	3·5	+ 0·5	1	3	1	2	0	0	3	4	17	3	2	2	5	2	0	2	1	14	Angul
·7	+ 1·5	3·8							2·5	+ 0·4	5	10	3	1	0	1	0	1	10	7	4	0	0	3	1	1	3	12	Sambalpur
																													Chota Nagpur
·1	+ 0·7	4·0	0·24	− 0·12	0·15	21	1	+ 0·1	2·4	+ 0·9	1	0	3	2	0	3	16	3	9	4	5	6	4	0	0	2	3	2	Jamshedpur
·3	+ 1·8	5·1	1·67	+ 1·03	0·42	21	5	+ 3·6	0·9	− 0·4	1	1	0	0	0	9	1	1	18	6	5	1	0	0	1	0	6	12	Chaibasa
·5	+ 0·9	3·0	1·38	+ 0·46	1·08	21	2	+ 0·2	1·7	− 1·8	4	0	0	0	1	1	0	4	21	8	0	0	0	4	0	2	1	16	Ranchi
·5	+ 2·1	4·1	0·34	− 0·55	0·19	19	2	+ 0·1	3·9	− 1·3	2	0	2	1	1	2	0	6	17	9	2	0	1	0	0	0	16	3	Hazaribagh
·8	+ 2·8	4·3	0·53	− 0·39	0·33	28	2	+ 0·1	1·2	− 0·6	0	0	0	3	1	0	1	1	25	6	1	0	1	1	0	7	4	11	Daltonganj
			0·10		0·05	6	0		4·5		4	5	1	0	0	2	6	10	3										Dhanbad
																													Bihar
·6	+ 0·8	1·8	0	− 0·41	0		0	− 0·8	2·3	+ 0·9	0	1	1	0	1	13	5	0	10	0	0	0	0	0	11	7	1	12	Purnea
·6	+ 0·6	2·0	1·11	+ 0·67	1·11	6	1	0	1·3	− 0·1	0	1	1	0	0	8	11	2	8	0	0	0	0	0	6	15	2	8	Darbhanga
																													Motihari (*R*)
·7	+ 1·6	3·0	0·20	− 0·39	0 20	6	1	− 0·3	1·7	− 0·5	0	0	0	1	0	9	2	1	18	0	0	0	0	0	0	11	1	19	Patna
·8		3·2	0·24	− 0·44	0·07	5	0	− 1·5	2·0		1	0	0	2	1	12	1	3	11	2	3	0	2	1	1	1	13	8	Dehri
·5	+ 1·4	2·5	0·33	− 0·39	0·16	6	2	+ 0·7	3·4	+ 0·2	0	1	1	9	12	4	1	0	3	5	3	0	1	1	0	6	11	4	Gaya
·4	+ 0·7	2·6	0·01	− 0·66	0·01	19	0	− 1·3	2·1	+ 0·8	0	1	0	0	0	1	5	6	18	0	0	0	0	0	2	4	15	10	Naya Dumka
·7	+ 1·5	3·1	0·06	− 0·48	0·06	7	0	− 1·1	3·1	0	0	0	2	1	4	12	5	3	4	2	0	0	0	1	0	14	10	4	Sabour

(*R*)—Register not received.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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	
U. P., East																					
Gonda ...	360	1,004·1		1001·5	72·8	– 1·0	78	3	45·8	0	39	16	48·3	67·4	47·4	57·4	10·7	+ 0·3	11·6	93	+
Gorakhpur ...	254	1,007·3	– 0·9	1004·6	74·2	+ 1·2	79	1	49·9	+ 1·4	44	16	53·0	70·3	50·7	58·7	11·6	0	11·7	83	+
Banaras ...	250	1,008·1	– 0·6	1005·5	72·7	– 1·5	79	12	47·7	– 0·4	39	17	51·0	69·6	50·4	53·9	12·2	+ 0·5	12·3	95	+
Allahabad (Bamrauli)	322	1,005·8	– 0·5	1003·1	73·4	– 1·4	79	12	47·4	+ 0·3	42	8, 16	50·8	70·7	48·6	57·6	10·6	– 0·1	10·3	85	+
Fatehpur ...	375	1,004·0		1000·8	73·8	– 1·4	79	3, 12	45·2	– 1·2	38	16, 28	51·7	69·6	48·8	57·6	10·5	0	10·9	81	+
Kanpur ...	414	1,002·7	0	1000·2	70·6	– 1·3	76	3	45·5	+ 0·2	38	16	48·2	68·3	46·4	56·3	10·0	– 0·3	10·1	86	+
Lucknow ...	371	1,004·1	– 0·1	1001·5	71·2	– 2·7	76	3	46·5	– 0·6	40	16, 27	49·9	67·5	47·9	57·5	10·5	0	11·7	86	+
Bahraich ...	407	1,004·2	– 0·3	1000·1	72·5	– 0·1	77	13	47·3	+ 0·2	41	16	50·6	68·3	48·7	58·3	10·8	– 0·1	12·2	86	+
U. P., West																					
Jhansi ...	524	987·9	– 0·9	985·4	71·1	– 5·0	78	4					50·0	69·7	46·1	55·9	8·9	– 0·7	9·1	73	+
Agra ...	553	998·2	+ 0·2	995·7	70·3	– 2·3	78	4	43·9	– 0·4	38	16, 17	45·8	69·4	43·8	55·8	8·8	+ 0·7	9·1	85	+
Mainpuri ...	516	998·6	– 0·6	996·4	70·9	– 2·3	79	4	44·0	– 1·6	37	16	46·3	67·6	44·7	56·2	9·3	– 0·1	10·3	88	+
Aligarh ...	615	995·8		993·2	70·6	– 0·3	77	3	43·2	– 2·0	37	16	46·6	68·0	44·1	54·6	8·7	+ 0·8	8·6	81	+
Bareilly ...	568	996·5	– 0·4	994·1	70·4	– 0·4	75	2, 27	46·5	+ 0·2	42	16, 18	49·0	66·1	47·4	56·5	10·4	+ 0·1	11·3	88	+
Roorkee ...	899	984·8	– 0·4	982·7	65·0	– 3·4	70	2	42·1	– 1·6	38	26	45·0	64·8	43·8	55·0	9·1	– 0·2	10·8	90	+
Dehra Dun ...	2,239	938·4	+ 0·2	937·0	64·8	– 1·4	72	31	42·8	– 1·7	38	7	45·9	60·5	44·0	52·5	9·1	+ 0·7	10·3	87	+
Punjab, E. and N.																					
New Delhi ...	714	992·5	+ 0·4	988·5	71·0	+ 0·5	76	31	42·0	– 1·3	35	17	44·8	66·5	42·2	52·9	7·9	+ 0·3	7·6	79	+
Hissar ...	725	992·0	– 0·1	990·1	69·0	– 1·8	77	31	40·7	– 0·7	36	16, 17	43·8	66·4	41·8	54·9	9·1	+ 0·5	9·6	82	+
Ambala (R) ...	892																				
Ludhiana ...	812	986·3	– 0·2	986·6	66·0	– 0·9	78	31					43·5	63·6	42·7	54·1	8·9	+ 0·2	10·1	94	+
Lahore ...	702	992·4	– 0·1	991·1	66·5	– 1·5	75	31	39·3	– 0·8	34	15, 16	41·8	65·3	41·3	53·5	8·6	+ 0·2	8·6	96	+
Sialkot ...	830	987·5	– 0·6	985·8	64·4	– 1·2	72	31	42·2	0	38	15, 16, 17	44·7	62·5	43·8	55·1	9·3	+ 0·5	11·5	91	+
Rawalpindi ...	1,674	958·3	– 0·5	957·2	62·5	+ 0·2	70	25, 26	36·6	– 1·3	32	15, 16	38·9	58·5	37·7	48·5	7·2	0	7·6	89	+
Punjab, Southwest																					
Khushab ...	612	995·7	– 0·7	994·0	69·8	+ 2·1	80	31	37·6	– 3·1	28	15	41·2	67·7	37·8	53·0	5·7	– 1·1	7·4	66	–
Lyallpur ...	605	995·3	– 1·0	994·2	66·1	+ 1·0	77	31	39·2	– 0·7	35	17, 18	41·6	65·8	39·7	53·0	7·5	– 0·7	7·6	84	+
Montgomery ...	558	997·8	– 0·1	996·0	69·3	+ 1·2	79	31	40·2	– 1·5	37	7, 8	43·2	66·9	41·4	55·2	8·1	+ 0·4	9·3	83	+
Leiah ...	490	1,000·7		998·6	71·8		77	31					41·4	67·5	38·7	53·2	6·7		7·5	80	
Multan ...	413	1,003·7	– 0·3	1001·5	69·9	+ 1·9	79	31	41·5	– 0·5	38	1, 2	43·7	67·7	41·4	55·1	7·8	– 1·5	9·2	81	+
Fort Abbas ...	475	1,001·1		998·7	70·5		79	31	39·4		34	17	43·1	68·6	39·9	54·6	6·9		8·3	72	
Bahawalpur ...	384	1,004·3	– 0·4	1002·2	70·5	+ 0·6	80	31	41·5	+ 1·2	38	7, 8	43·4	69·0	40·6	54·9	7·4	+ 0·1	8·4	76	+
Khanpur ...	297	1,007·2	– 0·7	1004·8	72·5	+ 0·6	81	31	41·4	+ 1·5	36	1	44·1	71·9	40·7	57·9	7·1	+ 0·7	10·1	75	+
Kashmir																					
Srinagar ...	5,205	846·6	+ 1·2	845·6	32·0	– 9·0	43	7, 12	22·2	– 5·1	16	22	24·4	29·3	23·3	27·7	3·7	– 1·2	4·5	68	–
Gulmarg ...	8,709			(Closed during winter.)																	
Dras ...	10,059	705·1	– 1·9	703·6																	
Leh ...	11,529	665·9	+ 1·4	664·2	20·4	– 9·0	32	5	– 0·4	– 8·6	-10	15, 16, 17	2·8	18·6	1·9	16·3	1·2	– 0·4	2·3	77	+ 1
Skardu ...	7,505	775·3		773·9	30·2	– 3·3	34	7	12·3	– 4·1	-1	17	15·5	27·9	12·0	20·6	1·3	– 1·9	1·3	48	– 3
Gilgit ...	4,890	856·0		855·6	45·2	– 1·1	52	29	30·3	– 1·7	25	15	33·6	42·3	30·7	34·7	4·8	0	3·9	70	–
Misgar ...	10,190	698·1		696·5	26·0		35	29					12·4	22·2	11·2	20·1	1·9		2·9	79	
N.-W. F. Province																					
Peshawar ...	1,175	976·5	– 0·8	975·4	63·4	+ 0·4	72	31	38·6	– 1·8	34	13	41·7	61·7	38·1	50·0	6·3	+ 0·1	7·1	69	–
Bannu ...	1,264	972·3		971·0	64·8	– 0·7	72	31	41·4	+ 1·5	37	4 days	45·5	62·8	40·1	49·4	6·0	+ 0·2	6·4	53	–
Miranshah ...	3,026	912·4		911·4	59·5	+ 2·8	68	31	35·7	0	29	6	40·0	57·6	34·5	46·2	4·6	+ 0·2	6·1	55	–
Dera Ismail Khan ...	570	937·1	– 0·8	935·6	67·9	– 0·1	77	31	40·0	– 0·3	36	15, 17	44·1	65·7	40·0	51·9	6·5	– 0·2	7·0	67	–
Baluchistan																					
Fort Sandeman ...	4,614	861·5	+ 0·1	860·4	55·5	+ 0·8	66	31	32·4	+ 1·3	29	4 days	35·1	53·0	31·4	42·0	4·6	0	4·7	65	– 1
Loralai ...	4,699	857·2		855·9	55·0		62	30, 31	29·7		26	1, 15, 20	32·8	53·0	30·0	42·6	4·4		5·1	72	
Sibi ...	441	1,002·4	+ 0·5	999·9	71·8	+ 1·7	78	31	43·0	+ 1·0	38	5, 6	46·4	71·1	41·5	54·8	7·1	+ 1·8	7·2	66	+ 1
Quetta ...	5,490	832·8	– 1·8	831·8	50·0		64	31	28·4		21	22	31·6	48·2	28·0	38·7	4·0	– 0·5	4·7	64	– 1
Chaman ...	4,311	870·4	– 1·0	869·9	55·4	+ 3·0	67	31	37·6	+ 3·1	33	19, 20	41·0	53·8	38·0	46·4	6·6	+ 0·9	7·7	75	+
Kalat ...	6,616	800·2	0	799·1	49·8	+ 0·3	61	17	28·3	+ 2·4	22	23, 24	31·4	47·7	27·6	37·6	3·7	– 0·3	4·1	64	–
Dalbandin ...	2,785	929·4	– 1·0	918·9	65·0	+ 3·5	76	31	36·3	+ 1·0	28	1	40·8	63·8	38·3	51·8	6·8	+ 0·2	8·3	79	+
Nokkundi ...	2,229	938·4			71·3	+ 7·9	80	31	46·2	+ 7·9	37	1, 2	50·2	71·0	44·4	57·1	7·5	+ 2·2	10·2	62	+
Las Bela ...	292	1,006·9	– 0·5	1003·7	81·2	+ 3·1	85	23	47·3	+ 1·3	40	1, 2	50·5	79·6	49·0	70·4	11·2	+ 1·7	21·5	89	+ 2
Ormara	15				75·9	+ 2·1	81	18	56·8	+ 0·3	52	15, 16	59·3	73·9	58·0	66·8	15·7	+ 2·7	19·3	92	+ 1
Pasni ...	10	1,016·0	– 1·5	1014·0	75·8	+ 1·5	81	18	57·0	+ 2·3	50	16	59·7	74·6	58·2	68·1	15·9	+ 2·6	20·6	91	+ 1
Panjgur ...	3,177	907·3	– 0·4	905·5	66·8	+ 3·9	74	31	41·7	+ 3·1	37	6 days	44·2	63·4	41·7	64·5	8·0	+ 1·4	10·8	83	+
Jiwani (R) ...	185																				

(R)—Register not received. m—Mean of 18 days. n—Mean of 17 days. o—Mean of 16 days.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																	STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.									
Departure from normal.	Mean 17 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
																												U. P., East
+ 0·3	2·8	0·68	+ 0·17	0·38	6	2	+ 0·8	2·5	− 0·2	0	1	1	0	0	1	12	3	13	1	0	1	0	0	1	17	1	10	Gonda
+ 1·5	2·6	0·33	− 0·26	0·18	6	2	+ 0·7	2·2	+ 1·1	1	1	1	2	0	7	5	0	14	1	1	0	3	5	9	6	2	4	Gorakhpur
+ 0·9	2·9	0·84	+ 0·10	0·72	5	2	+ 0·5	3·9	+ 1·7	1	2	2	2	2	8	4	0	10	1	4	3	0	0	2	11	10	0	Banaras
+ 0·9	3·8	0·34	− 0·51	0·21	5	1	− 0·1	2·5	− 0·1	1	0	4	0	0	7	6	1	12	6	4	2	1	0	1	7	8	2	Allahabad (Bamrauli)
+ 0·4	3·3	0·19	− 0·35	0·11	5	1	− 0·4	1·7	− 0·1	0	2	1	0	1	0	2	2	23	3	2	2	0	0	1	4	8	11	Fatehpur
+ 1·0	2·8	1·09	+ 0·53	0·35	6	4	+ 2·6	4·4	+ 2·1	1	5	1	0	1	6	5	4	8	8	5	3	1	0	1	6	7	0	Kanpur
+ 0·2	2·5	1·94	+ 1·18	1·34	6	3	+ 1·5	1·3	0	0	0	0	0	0	0	10	0	21	0	0	1	0	0	0	10	0	20	Lucknow
+ 0·9	2·8	0·69	− 0·13	0·60	6	1	− 0·6	2·3	+ 0·7	2	0	1	0	0	1	3	3	21	1	0	0	1	0	5	3	1	20	Bahraich
																												U. P., West
+ 0·8	2·5	1·37	+ 0·83	0·81	28	4	+ 2·8	2·0	− 0·2	1	7	2	0	0	1	4	2	14	3	6	3	0	0	1	7	10	1	Jhansi
− 0·4	3·2	0·39	− 0·12	0·20	5	2	+ 0·8	1·6	− 1·1	1	0	1	0	0	0	8	2	24	7	4	1	0	0	1	4	6	8	Agra
+ 0·8	3·1	0·83	+ 0·26	0·60	5	3	+ 1·7	2·2	+ 0·8	1	1	1	2	1	5	10	5	5	1	1	2	3	0	2	7	11	4	Mainpuri
+ 0·8	2·9	0·58	+ 0·12	0·52	4	1	− 0·2	2·6	− 0·7	0	0	2	0	0	0	17	1	11	5	0	6	0	0	0	3	11	6	Aligarh
+ 0·7	4·1	1·32	+ 0·33	0·61	6	3	+ 1·1	1·9	+ 0·4	1	2	1	1	0	2	8	5	11	2	0	2	0	1	3	8	5	10	Bareilly
− 0·5	3·5	1·46	− 0·21	0·68	5	4	+ 1·2	1·7	− 0·1	0	0	0	0	0	3	0	8	20	0	1	0	1	2	2	2	14	9	Roorkee
− 1·0	4·7	1·74	− 0·58	1·05	5	4	+ 0·1	1·3	− 0·2	5	3	0	0	0	0	0	3	20	0	1	0	0	0	8	7	1	14	Dehra Dun
																												Punjab, E. and N.
+ 0·1	3·2	0·39	− 0·60	0·39	4	1	− 1·0	5·4		0	0	0	1	0	2	9	4	14	7	2	3	1	0	0	1	15	2	New Delhi
− 0·3	2·0	0·49	− 0·01	0·49	4	1	− 0·4	3·1	− 0·2	0	3	3	1	1	5	8	5	5	7	1	1	2	1	2	1	11	5	Hissar
																												Ambala (*R*)
− 0·2	3·3	0·92	− 0·59	0·44	5	2	− 0·7	1·0	− 0·3	1	2	1	2	0	1	9	6	9	2	3	0	2	1	2	2	17	2	Ludhiana
+ 0·4	3·7	0·53	− 0·51	0·36	4	2	0	2·0	+ 0·8	0	1	1	0	0	0	3	4	22	3	2	1	0	1	0	6	17	1	Lahore
+ 1·0	3·2	1·02	− 0·94	0·53	4	4	+ 1·1	1·2	− 0·2	1	2	1	2	0	1	0	8	16	0	13	1	1	0	0	0	11	5	Sialkot
− 0·3	4·9	0·65	− 1·84	0·53	4	2	− 1·8	2·4	+ 0·6	1	2	1	0	0	3	3	3	18	2	2	0	1	0	11	10	4	1	Rawalpindi
																												Punjab, Southwest
− 1·4	2·3	0·06	− 0·63	0·06	4	0	− 1·5	2·5	0	2	2	1	0	2	3	4	4	13	5	6	4	4	2	3	1	3	3	Khushab
− 0·1	4·3	0·07	− 0·33	0·04	3	0	− 1·0	1·6	+ 0·1	1	1	1	0	0	5	6	2	15	2	1	1	1	0	1	6	11	8	Lyallpur
+ 1·0	3·3	0·01	− 0·45	0·01	10	0	− 1·3	1·2	− 1·0	1	0	0	1	1	0	1	0	27	1	4	2	3	0	7	3	7	4	Montgomery
	3·1	0		0		0		1·9		6	4	2	0	1	1	7	10	0	7	1	3	7	2	3	3	4	1	Leiah
− 0·2	3·0	0	− 0·37	0		0	− 1·2	1·8	+ 0·7	9	1	0	0	2	1	0	2	16	8	1	0	3	6	1	2	2	8	Multan
	3·8	0		0		0		3·5		2	6	7	4	1	3	0	0	9	15	5	4	0	0	1	4	2	0	Fort Abbas
− 0·4	2·9	0	− 0·16	0		0	− 0·6	1·6	− 0·3	0	4	3	5	2	1	0	0	16	4	6	2	0	0	1	2	2	14	Bahawalpur
0	2·5	0	− 0·23	0		0	− 0·8	3·3	− 0·6	1	21	0	0	2	1	1	1	4	0	20	0	0	0	5	1	3	2	Khanpur
																												Kashmir
+ 1·8	8·3	0·53	− 2·37	0·14	20	3	− 3·1	1·9	− 0·3	1	0	0	4	4	1	3	4	14	1	0	1	3	0	4	7	1	11	Srinagar
																												Gulmarg
− 0·4	6·4	3·12	− 0·71	0·75	5	8	− 1·6	0	− 0·6	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31	Dras
− 0·5	5·7	0·95	+ 0·57	0·30	11	4	+ 3·0	1·9	+ 0·8	0	15	1	0	0	0	0	0	15	0	0	1	0	5	6	3	0	16	Leh
− 1·6	5·7	0·03	− 0·82	0·02	4, 8	0	− 2·8	0·9	− 0·2	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	2	0	29	Skardu
+ 0·2	6·5	0·09	− 0·15	0·06	18	0	− 0·8	0·7	− 0·1	0	1	0	1	1	1	0	1	26	0	0	0	0	0	1	1	0	29	Gilgit
	4·7	0·09		0·05	31	0		2·9		0	2	3	2	0	4	7	13	0	1	1	20	8	0	1	0	0	0	Misgar
																												N.-W. F. Province
− 1·6	5·1	0·67	− 0·77	0·37	4	3	+ 0·1	2·8	+ 1·3	0	0	0	2	13	13	1	0	2	2	3	1	5	5	3	0	1	11	Peshawar
+ 0·4	4·4	0·30	− 0·22	0·19	4	2	+ 0·8	2·9		2	1	0	1	0	1	0	17	9	9	3	0	22	5	0	0	0	1	Bannu
− 0·3	4·1	0·14	− 0·66	0·10	3	1	− 0·9	3·3	− 0·8	4	0	0	0	0	1	0	4	22	0	1	19	1	2	0	0	0	8	Miranshah
− 1·0	3·1	0·15	− 0·30	0·13	3	1	− 0·2	1·3	+ 0·2	2	1	0	0	0	0	7	2	19	3	7	3	3	1	0	1	0	13	Dera Ismail Khan
																												Baluchistan
+ 0·3	4·7	0·74	+ 0·02	0·32	3	3	+ 0·9	2·3	+ 0·5	1	1	2	6	6	2	2	1	10	4	3	2	1	0	2	10	7	2	Fort Sandeman
	4·3	0·51	− 0·25	0·22	3	2	+ 0·1	4·3		0	1	0	0	1	5	22	1	1	1	1	1	4	18	7	1	0	3	1	Loralai
+ 1·2	3·3	0·11	− 0·33	0·06	8	0	− 1·1	1·7	− 0·7	4	1	0	0	0	0	0	0	26	1	1	2	5	5	6	3	1	7	Sibi
− 0·3	4·1	2·40		1·10	9	6		4·4	+ 1·9	0	1	0	6	6	1	0	0	17	9	2	0	0	5	1	2	6	6	Quetta
− 1·7	5·5	3·70	+ 2·06	1·42	9	6	+ 1·6	4·1	− 0·2	0	8	5	14	1	3	0	0	0	3	1	0	3	2	9	2	11	0	Chaman
− 0·6	3·9	2·90	+ 1·59	0·88	9	4	+ 0·5	5·2	+ 0·9	0	1	0	4	20	2	0	0	4	7	0	0	0	6	5	3	10	0	Kalat
− 0·5	4·1	0·43	− 0·45	0·20	9	2	− 0·1	3·5	+ 0·3	3	6	1	0	0	1	3	1	16	0	8	9	1	3	4	3	0	3	Dalbandin
− 0·8	1·6	0	− 0·89	0		0	− 3·0			2	8	3	0	0	0	0	2	3	1	2	2	4	2	0	1	1	3	Nokkundi
− 1·0	1·6	0·10	− 0·16	0·06	4	0	− 1·0	2·0	0	4	0	1	0	0	0	0	3	23	0	0	0	4	8	9	1	6	3	Las Bela
− 1·3	2·9	0·32	− 1·33	0·32	4	1	− 0·8	4·3	− 0·3	2	2	2	7	2	1	0	2	13	0	0	2	9	8	6	5	1	0	Ormara
+ 1·2	4·5	0·21	− 1·74	0·21	4	1	− 1·3	3·2	− 0·5	0	0	4	2	0	0	8	15	2	1	0	3	7	6	8	6	0	0	Pasni
− 0·4	3·1	1·32	+ 0·49	0·64	9	2	+ 0·1	5·8	+ 0·7	2	13	9	1	0	1	3	0	2	4	3	1	0	2	10	5	6	0	Panjgur
																												Jiwani (*R*)

(*R*)—Register not received. *m*—Mean of 18 days. *o*—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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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
Sind																					
Jacobabad ...	183	1011·4	- 0·1	1008·9	74·0	+ 2·6	81	31	48·0	- 1·9	38	15	45·7	72·2	40·0	55·1	6·0	-1·9	7·3	55	-16
Sukkur ...	221	1010·4	+ 0·1	1007·3	72·1	- 0·2	78	31	46·5	+ 1·5	42	4, 5	50·5	71·8	45·8	56·8	8·6	+1·2	9·1	70	+ 8
Pad Idan ...	150	1012·3		1009·5	74·8		81	24, 31	41·3		38	4 days	44·1	73·6	41·0	55·7	7·4		7·1	75	
Umarkot ...	55	1014·0		1011·2	78·7		85	31	44·5		41	16, 17	46·6	77·9	42·9	66·2	7·9		16·9	71	
Hyderabad ...	96	1013·3	- 1·1	1011·0	76·6	+ 0·8	86	31	49·9	- 0·7	47	4 days	51·9	75·3	46·3	57·1	8·3	+0·1	8·0	62	+ 1
Karachi (Manora)...	13	1015·9	- 1·1	1013·5	77·0	+ 1·5	81	30	58·3	+ 0·9	56	2	59·9	73·7	54·9	64·9	12·5	+2·1	16·8	72	+ 9
Badin ...	31	1015·7	- 0·5	1013·0	80·2	+ 3·9	87	24	45·9	- 1·3	40	1	47·7	76·5	43·5	59·2	7·9	+0·2	9·2	69	+10
Rajputana, West																					
Sri Ganganagar ...	580	996·9		995·2	69·4	+ 1·6	78	31	37·5	- 0·6	34	6 days	39·9	66·9	38·3	53·0	7·2	+0·2	7·5	86	+ 8
Bikaner ...	734	991·1	- 0·4	988·8	71·8		79	31	37·1		33	5 days	40·9	70·7	36·5	53·9	5·5		6·7	61	
Phalodi ...	738	988·5		987·2	73·3		80	31	40·1		35	4 days	45·2	72·1	40·7	63·6	6·7		16·3	66	
Jodhpur ...	736	990·8	+ 1·0	988·4	74·9	- 1·4	80	3	47·6	- 1·0	40	16, 18, 19	50·3	73·9	43·1	55·1	6·1	-0·4	6·2	51	+11
Barmer ...	638	993·9	- 0·4	991·3	77·3	+ 0·9	82	24	49·6	- 0·4	45	5, 7, 8	51·8	75·5	43·7	56·2	6·1	-1·2	6·8	47	- 7
Rajputana, East																					
Sikar ...	1,406	967·4		965·4	69·7		77	3	41·1		35	14, 15, 16	43·3	67·0	40·2	51·6	7·1		6·4	75	
Jaipur ...	1,431	966·8	- 0·7	964·7	70·4	- 2·8	75	31	45·5	- 1·3	38	14, 15	48·5	67·9	43·9	53·0	7·7	-0·1	7·1	68	+ 9
Ajmer ...	1,593	961·9	+ 0·1	958·7	70·5	- 2·2	75	4, 31	43·2	- 2·5	35	15, 16	51·9	68·5	46·9	55·3	9·0	+1·0	9·6	68	+ 9
Kotah ...	843	986·9	- 1·0	984·3	73·9	- 3·2	80	4	49·2	- 1·9	45	7, 15	50·9	72·3	47·9	57·5	10·1	+1·2	9·6	78	+18
Brijnagar ...	1,053	979·2	- 0·9	976·0	72·9	- 5·0	80	11	47·9	0	42	14, 15, 18	50·6	71·1	47·9	57·8	10·1	+1·6	10·4	81	+20
Rajsamand ...	1,650	951·5		949·0	71·5		77	11	51·2		46	8, 15, 23	53·5	69·2	49·3	55·9	10·3		9·4	73	
Gujarat																					
Deesa (*R*) ...	466																				
Bhuj ...	343	1004·9	- 0·4	1001·2	79·0	- 0·4	84	24	49·4	- 2·9	45	1, 14	51·7	78·0	45·5	56·8	7·6	-2·1	6·3	58	+ 9
Dwarka ...	37	1014·0	- 1·2	1011·6	78·4	+ 0·5	83	31	58·5	- 1·0	56	4 days	60·4	74·7	54·7	61·3	12·0	-1·7	12·4	68	- 2
Jamnagar ...	60	1013·8	- 0·8		78·5	- 0·6	81	4, 22	52·9	+ 0·5	48	18	60·9		54·6		11·8	+1·0		64	0
Rajkot ...	432	999·5	- 1·4	996·9	82·0	- 1·3	87	4	50·5	- 0·5	44	16	52·9	81·1	45·9	59·4	10·9	+2·7	7·7	55	+ 2
Veraval ...	26	1012·6	- 2·3	1010·0	84·0		88	13, 15, 31	56·6		48	17	59·8	78·5	51·0	68·2	8·9		19·0	50	- 3
Surat ...	39	1012·8	- 1·3	1010·0	88·2	+ 1·4	93	30	58·9	+ 1·1	52	18, 19, 20	61·9	83·6	57·1	68·5	13·8	+1·6	17·0	73	+11
Bhavnagar ...	55	1012·5	- 1·7	1009·5	82·6	- 1·4	87	10	52·7	- 1·9	47	15, 16	55·0	81·7	48·5	62·2	8·7	+0·1	10·5	58	+ 9
Ahmedabad ...	163	1009·6	- 1·2	1006·3	82·0	- 2·8	86	31	58·9	+ 1·3	51	18	60·6	81·0	52·1	62·0	9·7	+1·2	10·4	53	+ 6
Dohad ...	1,093	977·5		974·5	80·9	- 3·2	87	10, 11	51·1	- 0·9	48	18	54·3	78·7	50·6	62·2	10·8	+1·5	11·6	77	+13
Baroda ...	115	1010·5		1007·3	85·8	- 0·5	90	31	53·3	+ 3·7	43	18, 19	55·3	83·0	51·9	65·4	11·4	+2·0	13·6	79	+18
Central Ind., West																					
Neemuch ...	1,626	959·7	- 0·7	957·2	74·7	- 2·4	81	11	48·0	- 0·6	41	15	50·2	73·2	46·3	56·5	9·2	+0·9	8·8	74	+16
Indore ...	1,823	951·9	- 1·3	949·3	76·1	- 3·4	83	10	49·4	- 0·4	43	18	52·1	74·6	49·4	60·0	10·9	+1·3	11·2	82	+20
Bhopal ...	1,648	958·8	- 1·1	956·1	74·7	- 4·6	84	5	49·7	- 0·1	43	7, 8	53·6	72·5	50·5	60·4	11·2	+2·3	13·0	80	+23
Guna ...	1,571	961·7	- 0·7	959·5	78·0	- 4·1	80	12	45·9	+ 0·2	37	15	50·0	71·2	48·0	57·1	10·6	+2·3	10·2	82	+17
Gwalior ...	681	993·0		990·7	71·5		78	3	42·0		35	15, 16	47·7	69·8	44·6	55·5	8·6		8·6	77	
Madhosagar ...	757	990·5		987·8	72·4		78	3	49·4		44	16	51·8	69·7	47·9	54·6	9·6		7·8	71	
Central India, East																					
Nowgong ...	750	990·7	- 0·3	987·9	71·9	- 3·0	79	4, 11	44·1	- 2·5	37	16, 17	47·6	69·9	46·2	56·8	10·0	-0·1	9·9	89	+10
Sutna ...	1,041	979·7	- 0·9	977·0	74·8	- 0·7	81	4, 5	45·9	- 2·2	38	16	50·6	70·5	49·0	57·8	11·1	+0·8	10·7	88	+17
Umaria ...	1,506	963·5		960·8	72·9	- 4·1	91	5, 12	47·4	+ 0·9	40	5 days	53·6	69·8	51·1	59·1	11·8	+1·7	12·8	84	+13
Berar																					
Akola ...	925	982·1	- 1·7	978·7	83·7	- 2·4	88	4 days	58·7	+ 3·8	53	2, 3	61·6	81·9	57·7	66·3	14·6	+4·5	15·0	78	+21
Amraoti ...	1,213	972·7	- 1·2	969·5	81·5	- 3·3	86	13, 18	59·9	+ 0·8	55	2	62·3	80·3	57·1	64·7	13·6	+3·2	13·8	72	+20
C. P., West																					
Khandwa ...	1,044	978·5	- 1·5	974·9	80·1	- 4·7	86	13, 14	54·5	+ 1·9	48	25	59·4	78·8	55·2	64·2	13·0	+3·5	13·9	75	+16
Hoshangabad ...	992	981·1	- 1·3	977·8	74·8	- 6·1	81	12, 13	55·5	+ 1·3	48	23	58·6	73·5	54·8	62·7	13·0	+2·9	14·5	77	+18
Saugor ...	1,808	953·1	- 0·8	950·6	71·1	- 5·6	79	5	50·9	- 1·6	43	7	55·2	67·4	49·3	55·8	9·6	+1·2	10·6	65	+10
Jubbulpore ...	1,289	971·2	- 0·4	968·2	74·4	- 3·0	82	4	49·9	+ 2·0	42	23, 24	53·6	71·5	51·8	61·9	12·5	+1·6	14·6	88	+14
Seoni ...	2,027	945·9	- 0·5	943·3	74·4	- 4·4	82	13	53·9	+ 2·0	47	7, 15	57·0	71·0	53·4	60·9	12·5	+1·9	14·2	77	+13
Nagpur ...	1,022	979·6	- 1·3	976·4	81·5	- 2·2	87	10, 11, 12	59·8	+ 2·1	55	15	62·5	78·6	58·2	65·5	14·6	+3·4	15·6	75	+16
C. P., East																					
Gondia ...	1,026	979·9		977·1	79·0		84	19	57·8		52	15	60·9	76·4	58·2	65·3	15·3		16·7	84	
Pendra ...	2,040	945·3	- 1·1	942·8	72·6	- 2·0	77	4 days	50·8	+ 0·2	44	24, 25	56·8	67·8	53·4	60·4	12·6	+1·7	15·0	79	+10
Champa ...	805	987·8		984·8	79·9		85	11	57·5		51	15	60·3	77·3	58·0	71·6	15·4		22·5	85	
Raipur ...	970	982·1	- 0·6	979·0	80·8	- 0·8	86	11	58·6	+ 2·8	52	15	64·1	77·1	59·1	64·6	14·9	+2·8	15·2	74	+ 9
Titilagarh ...	697	991·2		987·4	83·0		86	11, 13, 20	61·0		53	17	63·7	80·4	61·2	68·0	17·3		17·7	86	
Kanker ...	1,918	969·7	- 1·2	966·6	81·6	- 1·0	86	11	58·3	+ 6·0	51	1, 2	62·9	78·1	60·3	67·3	16·7	+3·8	18·0	85	+11
Chanda ...	634	992·9	- 1·3	989·1	85·1	- 0·1	90	19	61·1	+ 5·7	56	2, 3, 16	65·3	82·5	61·9	69·5	17·4	+3·4	18·8	81	+10
Jagdalpur ...	1,815	952·3	- 1·6	949·5	84·8	+ 3·0	89	6, 21	56·5	+ 6·1	50	16	63·2	78·9	59·8	64·8	16·1	+1·7	15·2	82	- 1

(*R*)—Register not received.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													Sind
7	+1·1	3·1	0	− 0·23	0		0	− 0·7	3·4	+ 0·4	3	2	7	1	2	0	1	3	12	5	3	3	3	1	1	1	10	4	Jacobabad
6	+0·6	2·1	0	− 0·18	0		0	− 0·4	2·2	− 0·6	2	8	2	11	2	0	0	0	6	6	8	0	2	1	6	0	2	6	Sukkur
4		1·7	0		0		0		3·3		6	2	1	0	0	1	1	3	17	7	10	1	0	1	2	1	6	3	Pad Idan
2		1·3	0		0		0		4·5		11	15	0	0	1	1	0	0	3	13	4	2	0	0	0	2	8	2	Umarkot
8	+0·5	1·6	0	− 0·17	0		0	− 0·5	3·6	− 0·5	12	9	0	0	0	1	1	1	7	13	12	1	1	2	2	0	0	0	Hyderabad
3	−0·6	2·4	0	− 0·46	0		0	− 1·6	5·4	− 0·8	5	23	2	0	0	0	0	1	0	0	2	2	0	3	20	4	0	0	Karachi (Manora)
3	−0·9	0·5	0	− 0·15	0		0	− 0·4	4·0		19	2	1	0	0	0	0	4	5	14	6	5	0	0	0	1	2	3	Badin
																													Rajputana, West
5	−0·5	2·2	0·15	− 0·30	0·12	4	1	− 0·3	1·5	− 2·0	1	0	2	1	1	2	1	1	22	5	3	1	0	0	0	1	10	11	Sri Ganganagar
9	−0·9	2·0	0·03	− 0·24	0·03	3	0	− 0·8	1·8	− 1·2	0	4	1	0	0	1	0	0	25	5	21	0	0	0	0	0	1	4	Bikaner
2		2·5	0	− 0·14	0		0	− 0·5	5·2		8	2	1	7	7	0	1	0	5	18	5	1	1	1	0	1	4	0	Phalodi
0	−1·0	2·2	0	− 0·15	0		0	− 0·3	2·9	− 4·0	0	31	0	0	0	0	0	0	0	4	18	4	1	0	0	1	1	2	Jodhpur
5	−1·1	1·4	0	− 0·18	0		0	− 0·4	4·1	− 0·6	1	0	0	0	0	0	0	25	5	5	16	1	0	0	0	0	4	5	Barmer
																													Rajputana, East
)		3·0	0·33		0·33	4	1		2·2		0	0	6	8	0	0	0	1	16	8	5	3	1	0	0	1	12	1	Sikar
)	+0·3	2·9	0·61	+ 0·17	0·52	4	1	0	3·7	+ 0·2	2	4	9	0	0	0	0	0	16	7	2	5	2	1	1	2	6	5	Jaipur
)	−0·3	3·0	0·15	− 0·22	0·07	4	0	− 1·0	1·3	− 0·3	0	1	0	0	1	0	0	0	29	2	7	0	2	0	3	2	3	12	Ajmer
)	+0·1	2·2	0·02	− 0·22	0·02	5	0	− 0·6	1·5	+ 0·2	2	1	0	1	0	0	4	1	22	6	9	5	2	0	0	1	2	6	Kotah
)	+0·4	2·2	0·53	+ 0·25	0·32	28	2	+ 1·3	2·7	+ 0·7	8	5	2	0	0	0	0	2	14	10	14	2	1	1	1	0	1	1	Brijnagar
)		2·7	0		0		0	0	5·0		16	1	2	1	0	1	2	7	1	6	0	8	12	0	1	0	3	1	Rajsamand
																													Gujarat
																													Deesa (*R*)
	−0·6	0·8	0	− 0·08	0		0	− 0·2	2·9	− 1·2	0	0	0	0	0	0	0	0	31	27	2	0	0	0	0	0	0	2	Bhuj
	−0·2	1·5	0	− 0·10	0		0	− 0·3	9·5	+ 1·3	7	20	4	0	0	0	0	0	0	6	6	2	0	0	0	4	13	0	Dwarka
	+0·2		0	− 0·05	0		0	− 0·1	1·3	− 4·7	3	4	1	0	0	0	0	0	23										Jamnagar
	+0·4	1·4	0	− 0·04	0		0	− 0·1	5·0	− 0·9	2	9	7	0	0	0	0	2	11	10	13	5	0	0	0	0	2	1	Rajkot
	+0·5	1·8	0	− 0·04	0		0	− 0·1	10·0		11	17	1	0	0	0	0	1	1	1	2	0	0	2	5	16	4	1	Veraval
	+0·6	2·3	0	− 0·11	0		0	− 0·2	3·6	+ 0·8	4	8	4	0	0	0	0	2	13	4	2	0	0	0	3	7	13	2	Surat
	−0·3	1·1	0	− 0·09	0		0	− 0·1	3·8	+ 0·2	3	1	0	0	2	5	13	3	4	9	12	5	1	1	0	0	3	0	Bhavnagar
	+0·1	1·2	0	− 0·02	0		0	− 0·1	4·0	+ 0·3	1	15	11	0	0	0	0	0	4	4	4	3	0	1	0	2	4	13	Ahmedabad
	+0·7	1·9	0·14	+ 0·05	0·10	27	1	+ 0·8	5·4	+ 1·9	2	7	15	2	3	0	0	0	2	4	4	6	1	1	2	6	3	4	Dohad
	+0·6	1·1	0·01	− 0·05	0·01	27	0	− 0·1	1·5	− 1·2	1	9	3	0	0	0	0	0	18	3	4	3	0	0	1	1	3	16	Baroda
																													Central Ind., West
	+1·5	3·1	0·04	− 0·16	0·02	27,28	0	− 0·4	3·9	− 0·1	3	23	2	0	0	0	0	0	3	1	18	2	0	0	4	1	2	3	Neemuch
	+1·1	3·0	0	− 0·24	0		0	− 0·5	3·2	+ 1·2	0	12	5	4	1	0	0	0	9	8	9	3	3	1	4	1	1	1	Indore
	+1·7	2·9	1·28	+ 1·04	0·47	27	3	+ 2·2	2·1	0	2	6	1	1	0	0	0	0	21	0	10	3	1	0	1	3	2	11	Bhopal
	+0·2	2·0	0·65	+ 0·39	0·55	1	2	+ 0·8	2·5	+ 0·4	0	0	0	1	0	0	0	0	30	5	0	1	1	0	0	5	1	18	Guna
		2·5	0·35		0·25	28	2		1·3		0	1	1	0	0	0	1	3	25	3	3	2	2	1	0	0	8	12	Gwalior
		3·3	0·31		0·22	28	1		3·4		2	5	1	0	4	10	0	0	9	9	12	1	0	1	2	2	4	0	Madhosagar
																													Central India, East
	+0·4	3·1	0·77	+ 0·18	0·56	5	2	+ 0·5	1·8	+ 0·7	4	3	0	1	6	2	0	1	14	7	11	0	0	0	0	3	6	4	Nowgong
	+0·9	4·2	1·44	+ 0·61	0·82	28	3	+ 1·2	2·2	+ 0·1	1	0	1	2	0	0	2	0	25	2	6	5	2	0	1	4	3	8	Sutna
	+0·9	3·4	3·10	+ 2·09	2·08	28	4	+ 1·9	2·1	0	0	1	5	4	6	6	0	1	14	7	6	2	1	0	1	5	3	6	Umaria
																													Berar
	+0·7	3·3	0·75	+ 0·40	0·75	1	1	+ 0·3	3·8	+ 1·1	1	6	7	0	0	0	0	0	17	1	10	1	0	0	1	3	3	12	Akola
	+2·3	3·7	0·93	+ 0·61	0·47	1	3	+ 2·2	5·9	+ 2·3	1	21	7	0	1	1	0	0	0	0	10	1	5	1	8	0	6	0	Amraoti
																													C. P., West
	+2·1	4·0	0·42	+ 0·11	0·24	8	1	+ 0·4	3·7	+ 1·0	7	9	5	3	0	0	1	2	4	10	8	4	2	2	0	1	4	0	Khandwa
	+2·0	3·7	2·33	+ 1·93	1·58	27	5	+ 4·1	3·1	+ 1·0	0	7	16	6	0	0	1	0	1	1	7	13	4	0	0	3	0	3	Hoshangabad
	+2·0	4·5	2·59	+ 1·82	0·86	10	5	+ 3·7	9·0	+ 0·7	2	14	11	3	1	0	0	0	0	2	10	8	2	0	3	4	2	0	Saugor
	+1·5	4·0	1·50	+ 0·63	1·07	28	3	+ 1·3	2·1	+ 0·7	8	1	0	4	5	1	0	1	11	10	12	1	2	0	1	0	1	4	Jubbulpore
	+4·0	4·2	3·66	+ 3·11	1·37	11	7	+ 5·8	4·0	+ 1·7	7	9	1	4	2	0	1	0	7	7	4	5	4	6	1	0	2	2	Seoni
	+2·1	4·4	2·43	+ 2·06	0·87	26	4	+ 3·2	2·8	− 0·6	18	5	1	0	0	0	1	1	5	2	5	5	3	2	3	2	2	8	Nagpur
																													C. P., East
		3·8	2·04		0·70	27	6		2·8		11	3	4	3	1	1	0	6	2	8	2	3	3	1	6	0	4	4	Gondia
	+1·4	4·0	0·89	+ 0·04	0·20	2	5	+ 3·3	3·1	+ 0·3	15	1	1	1	5	1	1	3	3	15	1	1	1	7	1	0	1	4	Pendra
		4·7	1·00		0·42	27	3		4·4		12	4	1	3	0	0	0	7	4	8	2	1	2	1	0	5	8	4	Champa
	+2·1	3·3	0·35	− 0·02	0·16	28	2	+ 1·2	2·9	+ 1·1	5	14	1	0	0	0	0	0	11	5	9	0	0	0	1	1	3	12	Raipur
		3·2	0·47		0·14	23	3		1·4		3	2	1	1	1	0	0	2	21	9	12	1	1	2	1	0	0	5	Titilagarh
	+2·6	5·7	1·16	+ 0·96	0·48	27	4	+ 3·5	1·4	− 0·4	1	1	1	0	1	1	1	0	25	9	0	0	0	0	0	2	10	10	Kanker
	+1·9	4·6	0·27	− 0·04	0·80	12	3	+ 2·5	2·8	+ 1·2	0	3	1	1	0	1	1	5	19	2	6	9	3	0	0	1	2	8	Chanda
	+0·3	3·6	1·10	+ 0·71	0·76	24	3	+ 2·3	2·0	+ 0·7	0	6	0	1	0	2	0	3	19	0	7	0	0	0	9	0	3	12	Jagdalpur

(*R*) Register not received.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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
Konkan																					
Dahanu ...	15	1012·5		1010·3	82·2		90	31	61·3		54	19	63·3	78·1	60·6	72·8	17·2		24·8	85	
Bombay ...	35	1011·5	- 2.0	1009·2	84·8	+ 1·6	90	4,5,15	67·1	+ 0·4	62	19	70·2	80·3	65·9	70·8	19·8	+ 1·6	21·4	78	+ 5
Alibag ...	23	1012·6	- 1·2		83·3	+ 0·7	89	5, 6	63·9	+ 0·4	56	19, 20	66·9		62·9		17·9	+ 2·0		79	+11
Harnai ...	66	1009·6		1009·2	82·8		89	1	66·4		63	20	74·4	80·3	66·0	71·2	18·0		21·8	62	
Devgad ...	117	1008·5		1005·9	85·7		90	9	70·2		67	19, 24	73·0	83·0	67·7	72·9	20·5		23·2	75	
Marmagao ...	202	1006·0	- 0·9	1002·7	85·3	- 0·6	89	4 days	70·2	- 0·1	65	4	76·2	82·9	70·5	73·5	22·8	+ 3·5	23·8	74	+ 5
Honavar ...	85	1010·3		1007·0	89·8		95	5	70·4		66	16	74·9	84·9	68·8	75·5	21·4		25·7	71	
Bombay Deccan																					
Jalgaon ...	660	991·1		987·8	85·0		99	10, 13	56·8		45	19	60·3	84·1	56·2	68·4	13·7		16·6	76	
Malegaon ...	1,432	964·6	- 1·6	961·1	84·8	- 1·4	90	9, 16	54·8	+ 2·4	47	19	57·8	64·9	53·4	64·9	11·9	+ 2·8	12·7	73	+18
Ahmednagar ...	2,154	940·0	- 1·8	936·9	83·7	- 0·8	88	21, 31	55·5	+ 2·3	44	1	60·2	81·2	55·5	63·4	13·1	+ 3·3	12·7	71	+21
Poona ...	1,834	950·8	- 1·5	947·5	86·2	- 0·5	91	10	55·8	+ 2·8	47	19	57·8	82·8	56·6	65·2	15·1	+ 4·4	14·2	93	+24
Sholapur ...	1,570	960·2	- 1·1	956·6	87·3	- 0·1	91	16	62·0	+ 2·7	56	2	65·4	85·4	59·4	65·6	14·9	+ 4·0	13·6	68	+17
Miraj ...	1,817	951·1	- 2·0	947·4	86·7	+ 0·5	91	7, 16	58·1	+ 0·5	52	18,19,20	60·6	84·7	57·3	65·5	14·7	+ 2·2	13·5	82	+20
Bijapur ...	1,950	946·5	- 1·9	943·3	86·1	- 0·1	89	4 days	62·6	+ 2·4	56	3	66·2	84·9	60·2	66·1	15·4	+ 2·1	14·3	70	+ 7
Belgaum ...	2,562	926·9	- 1·0	924·0	82·5	- 1·4	87	18	59·0	+ 1·3	53	24, 25	63·6	79·3	59·3	63·3	15·5	+ 2·9	13·4	77	+12
Gadag ...	2,131	941·0	- 1·3	937·9	86·3	+ 1·0	90	4 days	63·4	+ 1·9	59	2	68·4	83·4	62·3	65·8	16·5	+ 2·6	14·3	72	+ 7
Hyderabad, North																					
Aurangabad ...	1,905	949·1	- 1·4	945·9	84·1	- 0·6	87	6 days	59·1	+ 2·4	52	19	62·7	82·3	57·1	64·8	13·7	+ 4·0	13·7	70	+20
Parbhani ...	1,350	966·2		962·8	85·7		90	16, 18	59·7		52	2	63·9	82·9	59·3	66·2	15·2		14·4	75	
Bidar ...	2,178	939·9		936·4	84·0	+ 0·3	88	21	63·6	+ 2·7	57	2	69·0	81·2	62·7	63·8	16·7	+ 2·4	12·9	71	+ 8
Nizamabad ...	1,250	970·4	- 1·9	967·1	86·6	+ 0·4	90	9,21,22	63·7	+ 6·1	55	2	66·5	84·6	62·5	67·0	17·5	+ 3·5	14·7	79	+13
Peddapalli (*R*) ...																					
Hyderabad, South																					
Gulbarga ...	1,503	962·4	- 1·3	958·4	87·5	+ 0·2	91	17,23,24					69·7	84·9	63·0	66·4	16·7	+ 4·2	13·9	69	+10
Raichur ...	1,311	968·5	- 1·6	965·1	87·5	+ 0·7	91	21,23,25	65·2	+ 0·5	59	2	70·4	85·5	64·6	67·2	18·3	+ 2·4	14·6	71	+ 4
Hyderabad(Begumpet)	1,778	953·3	- 1·2	950·1	86·4	+ 1·7	90	21, 24	63·1	+ 4·4	55	2	66·1	83·0	63·6	67·9	19·0	+ 3·4	17·3	87	+ 9
Hanamkonda ...	881	983·9	- 1·8	980·3	87·0	+ 2·0	91	23	67·3	+ 5·4	60	2	69·0	84·6	66·6	68·7	21·1	+ 3·6	16·5	86	+10
Khammameth ...	367	1001·9		998·0	88·6		91	24,30,31	66·0		62	2	71·4	86·0	68·2	70·2	22·3		18·1	84	
Mysore																					
Chitaldrug ...	2,405	931·6	- 1·3	928·2	83·3	- 1·0	87	6 days	63·7	+ 1·1	60	9, 14	67·4	82·3	63·7	66·2	18·7	+ 3·5	15·4	82	+17
Hassan * ...	3,149	908·0		904·9	81·6	- 1·2	85	31	61·5	+ 4·5	55	15	64·6	78·6	62·5	67·9	18·4	+ 2·7	18·5	90	+15
Bangalore ...	3,021	911·7	- 1·3	908·9	79·2	- 1·1	83	4 days	61·9	+ 4·6	57	12, 15	64·4	76·5	61·9	63·6	17·9	+ 1·9	14·9	87	+ 6
Mysore ...	2,518	928·2	- 1·1	924·9	81·5	- 2·7	86	22	63·6	+ 2·8	56	15	66·0	80·7	63·5	65·3	19·0	+ 2·5	15·1	87	+13
Malabar																					
Mangalore ...	72	1009·9	- 1·3	1006·7	89·2	+ 0·1	93	3, 6, 8	72·8	+ 2·2	69	15, 24	75·8	84·5	70·9	75·5	23·6	+ 3·2	26·1	77	+ 6
Calicut ...	27	1010·9	- 1·5	1007·7	88·1	+ 0·2	91	10, 31	72·9	+ 2·0	69	15	74·7	87·8	71·3	77·1	24·0	+ 1·8	26·9	84	+ 8
Palghat ...	319	1001·4		997·4	91·6		95	22	73·2		69	24	75·7	89·2	70·2	72·2	22·7		19·3	75	
Cochin ...	10	1011·7	- 1·1	1008·1	87·1	+ 0·2	91	4	74·9	+ 1·4	69	17	77·0	84·7	72·7	75·9	25·5	+ 3·6	26·6	80	+ 7
Alleppey ...	12	1011·2		1007·9	89·1		93	29	71·3		68	15	78·7	85·4	75·6	77·8	28·9		29·1	86	
Trivandrum ...	200	1004·3	- 1·4	1001·2	88·9		91	19	72·5		71	15, 16	75·5	83·8	73·4	76·0	27·2	+ 3·7	27·1	90	+10
Madras, Southeast																					
Nagercoil ...	195	1005·1		1002·0	88·1		91	28	75·3		71	16	78·2	84·1	71·5	73·9	23·3		23·9	71	
Pamban ...	37	1011·5	- 1·1	1008·3	84·0	+ 1·4	85	7 days	75·2	+ 0·7	74	9 days	79·0	78·9	75·8	76·0	29·0	+ 2·1	29·3	86	0
Madura ...	437	997·7	- 1·7	994·3	86·5	+ 0·7	91	23	72·0	+ 3·6	67	15	74·8	83·5	71·3	73·6	24·6	+ 2·3	23·8	83	+ 1
Negapatam ...	31	1011·9	- 1·4	1009·2	81·9	- 0·3	84	24	74·2	+ 2·4	71	5 days	76·2	80·1	73·0	74·8	26·3	+ 1·6	27·1	85	+ 2
Trichinopoly † ...	295	1003·6	- 1·2	1000·2	85·1	- 2·2	91	23	70·7	+ 2·5	67	14,15,17	74·1	83·0	71·2	72·9	24·8	+ 1·5	23·1	86	+ 7
Coimbatore ...	1,541	967·5	- 1·2	963·7	85·8	- 0·3	89	5 days	68·3	+ 3·4	63	18	70·4	84·1	67·7	69·9	21·8	+ 1·3	18·6	83	+ 3
Salem ...	913	981·9	- 1·6	978·1	88·1	0	93	25	68·2	+ 3·2	63	14, 17	69·8	84·4	67·3	71·1	21·7	+ 1·6	20·0	87	+ 8
Cuddalore ...	39	1012·1	- 1·5	1009·4	82·1	- 0·6	85	23, 24	72·1	+ 3·2	69	15	73·4	79·8	72·1	74·0	26·3	+ 2·5	26·1	94	+ 7
Vellore ...	703	990·1	- 0·8	986·8	83·5	- 0·4	92	23	68·4	+ 4·2	61	15	71·6	81·1	69·6	72·3	23·8	+ 3·1	23·1	90	+ 1
Madras	51	1012·1	- 1·4	1009·3	83·0	- 2·3	87	24	71·9	+ 4·2	68	15, 21	74·2	79·7	72·6	73·5	26·7	+ 3·0	25·4	93	+ 6
Arogyavaram ...	2299	936·1		933·1	79·8		85	23, 24	62·8		57	14	66·5	77·1	64·1	66·2	19·3		17·1	87	
Madras, Deccan																					
Cuddapah ...	428	999·5	- 1·2	995·7	86·1	- 2·0	92	24	70·0	+ 4·3	65	13, 15	74·8	82·7	69·9	72·4	22·8	+ 2·7	22·5	79	+ 2
Bellary ...	1,473	962·9	- 1·5	959·8	86·8	- 1·0	90	4 days	65·9	+ 3·6	61	13	69·7	84·3	64·8	69·0	19·2	+ 4·0	17·3	80	+13
Kurnool ...	923	982·2	- 1·3	978·2	88·5	+ 0·1	92	22	65·6	+ 4·0	56	13	69·3	86·7	64·7	68·5	18·8	+ 2·6	15·6	77	+ 5
Rentichintala ...	248	1002·3		998·5	88·4	+ 1·2	92	24	66·6	+ 4·9	62	13	71·2	86·2	67·6	69·8	21·4	+ 4·2	17·5	82	+10
Anantpur ...	1,148	978·9		970·1	86·6		91	23	66·1		58	13	70·6	84·4	66·4	69·2	20·2		17·5	79	

* Observations for 30 days, except wind velocity and rainfall for which the observations were taken on 29 and 31 days.

† Pressure and cloud refer to aerodrome site, other remarks refer to cantonment site.

(*R*)—Register not received.

a—Mean of 59 days.

Cloud amount (tenths of sky)			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
1·4		1·5	0		0		0		7·4		3	3	16	9	0	0	0	0	0	15	0	0	0	0	0	5	11	0	**Konkan**
1·5	− 0·1	2·0	0	− 0·14	0		0	− 0·2	4·7	− 1·9	1	11	9	8	1	1	0	0	0	21	0	1	0	0	0	1	8	0	Dahanu
1·4	− 0·5		0·03	− 0·02	0·03	1	0	− 0·2	2·8	− 1·8	2	10	12	5	0	0	0	0	2										Bombay
1·8		0·6	0		0		0		7·1		1	13	9	4	0	0	1	1	0	0	0	0	1	1	3	15	11	0	Alibag
2·5		3·2	0·90		0·48	2	2		7·7		0	7	24	0	0	0	0	0	0	0	0	2	0	0	1	4	24	0	Harnai
3·4	+ 1·5	3·6	0	0	0		0	0	6·1	+ 0·5	1	8	20	2	0	0	0	0	0	1	1	0	0	0	3	16	10	0	Devgad
4·2		3·2	0	− 0·05	0		0	− 0·1	2·8		0	3	20	4	0	0	2	0	2	1	1	0	0	0	0	15	13	1	Marmagao
																													Honavar
1·1		2·9	0·07	− 0·27	0·07	1	0	− 0·6	4·8		0	3	7	14	1	2	1	0	3	0	12	5	2	3	1	2	6	0	**Bombay Deccan**
3·7	+ 0·9	3·4	0·14	− 0·03	0·14	1	1	+ 0·7	3·2	− 0·4	0	2	0	0	0	3	8	2	16	1	5	2	0	3	4	7	3	6	Jalgaon
2·8	+ 0·2	2·4	0·14	− 0·07	0·12	2	1	+ 0·6	3·5	− 0·2	0	1	2	0	0	1	3	15	9	1	2	0	1	3	9	4	3	8	Malegaon
2·9	+ 1·2	3·1	0·32	+ 0·26	0·32	1	1	+ 0·8	1·8	− 1·9	0	0	1	0	0	1	1	0	28	0	0	2	0	1	3	12	2	13	Ahmednagar
3·5	+ 1·9	4·4	1·02	+ 0·87	0·67	1	2	+ 1·7	4·2	+ 1·5	3	5	4	2	0	1	0	0	16	2	1	3	7	2	8	2	2	4	Poona
3·4	+ 0·3	3·8	1·16	+ 1·15	0·86	1	2	+ 1·9	4·6	+ 0·2	1	4	5	0	0	1	1	5	14	2	5	4	2	1	4	7	2	4	Sholapur
3·7	+ 1·8	4·7	0·96	+ 0·78	0·80	31	2	+ 1·8	3·5	+ 0·7	1	4	2	2	13	3	3	3	0	4	5	1	6	7	4	3	1	0	Miraj
2·4	− 0·5	2·7	0·24	+ 0·12	0·14	29	2	+ 1·8	3·0	+ 0·2	0	6	18	5	2	0	0	0	0	0	2	14	6	2	6	1	0	0	Bijapur
3·2	+ 2·5	5·4	0·27	+ 0·10	0·26	2	1	+ 0·8	4·4	− 0·2	0	5	12	5	1	1	1	0	6	2	10	12	1	1	2	2	1	0	Belgaum
																													Gadag
2·5	+ 0·5	2·1	0·31	+ 0·02	0·15	1	2	+ 1·5	5·0	+ 0·4	1	11	11	2	0	0	1	0	5	0	0	3	2	12	2	11	0	1	**Hyderabad, North**
4·6		4·7	1·46	+ 1·10	1·05	1	3	+ 2·5			5	12	3	3	0	2	3	2	0	3	8	2	1	0	5	3	7	2	Aurangabad
3·1	+ 0·5	5·2	0·06	− 0·16	0·06	2	0	− 0·5	6·4	0	2	2	3	3	7	6	2	1	0	1	6	7	2	4	6	3	2	0	Parbhani
2·9	+ 1·1	4·3	0·35	+ 0·15	0·23	29	2	+ 1·6	3·1	+ 1·0	0	2	1	5	0	0	0	0	23	5	8	2	3	2	1	1	2	7	Bidar
																													Nizamabad
3·7	+ 1·1	4·0	0	− 0·21	0		0	− 0·3	5·7	+ 1·0	1	11	7	3	5	1	1	1	1	2	2	2	8	11	4	1	1	0	Peddapalli (*R*) **Hyderabad, South**
3·0	+ 2·1	5·6	0·05	− 0·08	0·05	2	0	− 0·2	5·7	+ 0·3	0	3	7	17	1	1	0	2	0	1	3	6	19	1	1	0	0	0	Gulbarga
2·8	+ 1·0	4·3	0	− 0·31	0		0	− 0·5	5·2	+ 2·0	0	2	5	11	0	0	1	0	12	0	1	11	15	1	2	0	0	1	Raichur
3·1	+ 0·8	3·2	0·07	− 0·33	0·06	24	0	− 0·7	5·5	+ 1·9	0	0	0	10	16	2	1	1	1	1	4	2	13	7	1	1	1	1	Hyderabad(Begumpet)
3·0		3·7	0		0		0		4·2		1	0	8	11	1	0	0	0	10	1	1	5	16	4	0	2	1	1	Hanamkonda
																													Khammameth
4·4	+ 3·7	5·9	0·06	− 0·19	0·06	30	0	− 0·3	5·0[a]	+ 0·4	0	0	15	3	1	0	1	1	10	2	1	21	0	0	1	1	2	3	**Mysore**
3·1	+ 1·0	4·6	0·12	− 0·05	0·10	31	1	+ 0·7	3·6	+ 0·5	0	3	7	13	0	4	0	2	3	0	9	10	8	0	2	0	1	0	Chitaldrug
3·0	+ 3·3	5·7	0·13	− 0·11	0·11	5	1	+ 0·5	6·6	+ 1·5	0	2	18	8	1	0	1	0	1	0	2	19	6	2	1	0	1	0	Hassan
2·8	+ 5·4	7·9	0·22	+ 0·08	0·15	4	1	+ 0·7	6·9	+ 1·0	1	13	7	0	1	0	0	0	9	1	10	15	1	0	0	1	0	3	Bangalore
3·1	+ 1·6	3·7	0	− 0·11	0		0	− 0·2	4·8	0	0	2	28	0	0	0	0	0	1	2	0	0	0	0	4	8	17	0	Mysore
3·7	+ 2·0	4·5	0·83	+ 0·48	0·83	1	1	+ 0·4	6·1	+ 0·9	0	12	13	1	0	0	0	0	0	0	0	0	0	0	3	18	10	0	**Malabar** Mangalore
3·3		4·0	0·06		0·06	5	0		6·8		0	2	23	5	0	0	0	0	1	1	4	20	4	0	1	1	0	0	Calicut
3·3	+ 3·4	4·4	0·14	− 0·75	0·07	31	0	− 1·1	5·3	+ 1·2	1	10	16	2	0	0	0	0	2	0	1	0	0	2	2	20	6	0	Palghat
3·0		4·6	1·26		0·57	30	2		4·6		0	9	11	5	1	0	0	0	5	1	0	0	0	0	2	11	17	0	Cochin
3·5	+ 2·2	5·3	1·98	+ 1·19	0·78	6	4	+ 2·3	2·9	− 0·9	2	9	9	4	0	0	0	0	7	0	0	0	0	4	16	7	2	2	Alleppey
		7·3	0·39		0·20	29	1		5·4		0	20	4	0	1	0	0	0	6	2	15	4	1	3	3	2	0	1	Trivandrum
3·4	+ 1·5	5·1	2·55	− 0·02	1·65	27	3	− 1·0	8·0	− 1·8	12	11	2	1	0	0	0	4	1	14	10	1	0	0	0	0	6	0	Nagarcoil **Madras,Southeast**
3·3	+ 1·3	6·4	0·35	+ 0·07	0·29	30	3	+ 1·5	3·8	− 0·7	7	6	2	0	0	0	0	2	14	3	13	11	1	0	0	0	0	3	Pamban
3·3	+ 1·3	6·8	6·94	+ 4·21	2·25	6	9	+ 6·0	10·1	+ 2·2	2	10	3	0	0	0	7	8	1	3	23	4	0	0	0	0	1	0	Madura
3·6	+ 1·6	4·9	2·39	+ 1·40	0·86	5	7	+ 5·3	4·0	+ 0·6	10	16	0	0	0	0	0	0	5	1	22	7	0	0	0	0	0	1	Negapatam
3·7	+ 1·7	4·5	0·36	− 0·27	0·23	5	2	+ 0·9	0	− 2·6	0	0	0	0	0	1	0	0	30	0	0	0	0	0	0	0	0	31	Trichinopoly
3·6	+ 1·6	5·5	0·70	+ 0·41	0·51	30	2	+ 1·3	5·5	+ 1·6	2	14	5	0	0	0	0	1	9	0	6	16	5	0	0	0	0	4	Coimbatore
3·6	+ 1·6	5·9	8·05	+ 5·70	1·97	1	8	+ 5·6	5·8	+ 1·3	7	1	0	1	0	0	3	18	1	2	19	4	5	0	0	0	0	1	Salem
3·3	+ 2·3	5·0	1·61	+ 0·16	0·47	28	4	+ 1·9	3·3	+ 1·4	2	2	1	0	0	0	0	1	25	1	3	19	3	2	1	1	0	1	Cuddalore
3·7	+ 1·7	5·9	5·34	+ 3·93	3·61	28	6	+ 4·3	10·7	− 0·3	4	8	4	2	0	0	3	10	0	3	14	11	3	0	0	0	0	0	Vellore
		5·3	1·42		0·72	5	4		3·7		0	1	2	8	7	2	0	0	11	1	9	15	5	0	0	0	0	1	Madras
3·4	+ 0·4	4·2	1·77	+ 1·38	1·00	28	3	+ 2·4	6·0	− 0·6	0	0	9	7	0	0	0	0	15	0	0	17	13	0	0	0	0	1	Arroggawaram **Madras, Deccan**
3·0	+ 3·0	5·4	1·20	+ 1·10	0·85	2	2	+ 1·7	2·2	− 0·5	0	1	1	3	0	0	0	0	26	2	0	14	5	1	0	0	0	9	Cuddapah
3·2	+ 1·2	4·5	0	− 0·15	0		0	− 0·3	3·4	+ 0·5	0	2	7	2	0	0	1	0	19	0	1	15	10	1	0	0	0	4	Bellary
3·1	− 1·0	4·0	0·09	+ 0·08	0·07	25	0		3·7	+ 0·4	0	1	8	3	0	1	0	0	13	1	2	12	12	3	2	0	0	0	Kurnool
		4·7	0·33	+ 0·09	0·20	2	1	+ 0·7	5·4		0	1	12	3	0	2	2	1	10	1	7	15	7	0	0	0	0	1	Rentichintala
																													Anantpur

(*a*)—Mean of 30 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.			Relative humidity %	
		Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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
Madras Coast, North																					
Nellore ...	66	1011·4	2·2	1008·7	86·1	+ 0·9	90	28, 24	70·7	+ 3·2	68	15	73·1	81·1	71·7	74·0	25·9	+2·8	25·5	93	+
Ongole ...	38	1013·1		1000·0	84·3		88	23	68·9		65	14, 15	71·5	80·7	69·1	71·6	23·2		22·3	88	
Masulipatam ...	10	1014·4	1·5	1011·3	81·6	− 1·5	83	4 days	69·9	+ 3·9	68	4 days	73·4	79·1	70·7	72·1	24·4	+2·3	23·7	87	+
Cocanada ...	26	1014·6	0·8	1011·2	79·0	− 2·1	81	1,23,31	69·5	+ 3·1	65	1	76·2	78·2	70·8	72·4	23·3	+3·1	24·6	76	−
Vizagapatam ...	126	1010·7	1·3	1007·9	80·8	+ 0·2	83	30	69·5	+ 2·1	66	4, 12	73·1	77·2	69·1	71·6	22·5	+2·8	25·9	81	+
Calingapatam ...	19	1015·0	1·0	1011·7	80·0	− 1·8	85	15	66·3	+ 2·8	63	5	68·6	76·9	65·8	70·9	20·4	+1·2	23·1	86	+
Hill Stations, excluding Kashmir and Baluchistan																					
Shillong ...	4,921	851·8	0·7	849·5	60·6	+ 0·5	67	2, 3	37·7	− 1·1	30	15	50·4	53·0	44·1	49·5	7·3	−1·3	10·7	60	−
Cherrapunji ...	4,309	871·1	0·3	869·1	61·5	+ 1·2	70	1	45·6	− 0·5	40	15	55·2	54·2	47·4	49·9	7·5	−2·2	10·5	53	−
Aijal ...	3,599	894·5		8,4·5					54·0		46	16	59·2	61·6	55·7	58·0	13·8		15·1	80	
Darjiling ...	7,432	776·0	0·8	774·2	48·9	+ 1·9	62	1	31·8	− 0·6	30	23, 24	40·5	40·6	37·2	38·7	6·3	- 0·7	7·2	76	−
Kalimpong ...	3,965	881·5	1·4	878·4	61·0	+ 1·6	66	1, 6	47·6	+ 1·4	43	8	49·4	53·1	47·3	50·8	10·3	+0·3	11·7	86	+
Katmandu ...	4,398	870·2		867·5	63·7	− 0·9	70	1	35·8	− 0·4	32	25,26,27	39·0	57·6	37·8	49·5	7·3	+0·5	8·9	90	+
Mukteswar ...	7,592	770·9	2·0	770·0	46·1	− 1·9	56	31	33·6	− 1·9	29	6, 7	37·6	42·9	32·1	38·3	4·2	0	6·2	58	+
Mussoorie ...	6,699	796·6		794·8	48·3	− 1·2	62	30	35·5	− 1·4	30	6	40·0	42·8	34·3	39·3	4·1	- 0·8	7·0	59	
Simla ...	7,224	780·8	0·8	780·4	46·3	− 1·2	59	31	34·6	− 0·8	29	6, 7	38·1	41·7	31·6	36·9	3·7	−0·3	5·7	51	+
Murree ...	7,113	783·4	− 0·7	783·3	42·9	− 2·3	53	31	29·7	− 1·0	21	6	32·8	39·7	29·0	33·9	4·0	−0·4	4·5	66	+
Wana ...	4,456	863·1		861·4	53·6	+ 0·2	65	31	27·0	+ 0·2	19	15	30·5	50·9	29·4	40·7	5·1	+0·6	4·6	89	+
Cherat ...	4,272	870·9	1·1	871·1	49·6	+ 0·4	58	31	38·5	− 0·4	33	6, 18, 19	41·4	47·9	35·0	39·4	4·5		4·9	51	−
Parachinar ...	5,673	828·6		827·7	50·4		59	16, 31	29·1		24	5, 6	31·4	47·1	28·7	36·8	4·4		3·7	74	
Drosh ...	4,806	857·9		855·6	45·1	− 0·6	55	29	32·5	+ 1·1	27	6, 7	34·5	43·5	31·2	35·4	4·3	−0·6	3·7	69	−
Abbottabad ...	3,940	882·8	0·2	881·1	66·6	+ 0·7	70	4 days	47·6	− 3·1	42	6, 14	51·2	62·4	45·1	49·9	7·8	+2·0	7·3	50	+
Pachmarhi ...	3,528	896·5	1·1	894·5	68·6	− 3·4	77	10	49·0	+ 1·3	41	7	53·4	65·6	51·2	58·4	11·9	+2·1	13·8	86	+
Mahabaleshwar ...	4,721	874·7	0·6	872·8	72·4	− 2·0	78	16, 31	56·8	− 0·3	52	23	58·4	67·2	53·6	58·8	11·5	+2·2	13·3	66	+
Mercara ...	3,781	896·1	1·6	894·7	74·5	− 2·6	79	31	59·6	+ 2·4	57	11,12,22	61·8	73·5	60·1	65·3	17·1	+2·0	18·0	90	+
Octacamund ...	7,204	781·2	+0·2	779·6	66·3	+ 0·4	71	15	44·4	+ 1·4	37	24	48·6	61·0	46·1	55·5	9·7	+2·2	13·1	84	+
Coonoor ...	6,730	828·4							51·3	+ 4·3	44	15	56·8		53·5		12·3	+2·0		81	+
Kodaikanal ...	7,695	772·1	+0·2	770·5	60·9	− 1·3	67	19	48·6	+ 2·0	43	16	51·8	55·8	48·2	53·0	10·2	+2·5	12·8	79	+
Ceylon																					
Colombo ...	21	1010·8	1·0	1007·7	85·3	− 1·6	89	4	72·8	+ 0·9	69	16, 17	74·7	82·1	73·9	76·4	28·2	+3·2	28·5	96	+
Trincomalee ...	24	1010·9	1·6	1008·1	81·8	− 0·9	85	27	75·5	+ 0·9	72	13	77·6	79·9	74·3	75·5	27·5	+1·1	28·2	85	−
Hambantota ...	61	1009·6	1·4	1006·1	84·4	− 0·3	87	25,26,30	73·7	+ 1·4	70	17	75·3	81·6	73·3	76·7	27·1	+2·3	29·1	90	+
Mannar ...		1012·0		1008·9	83·4		86	31	75·5		72	21, 22	77·7	80·8	74·4	75·5	27·6		27·8	85	
Afghanistan																					
Jacobabad ...	1,250	950·6		948·8	60·3		68	30	36·3		31	6	39·7	58·9	37·0	50·5	6·4		9·2	77	
Kabul ...	5,956	822·2		820·8	54·2	− 3·0	63	28, 29	13·8	− 5·4	1	6	19·7	30·8	17·8	27·7	2·5	−0·3	4·0	76	+
Kandahar ...	3,464	907·3		905·6	78·2		89	30, 31	30·5		24	11, 13	36·5	56·1	34·7	46·3	6·0		6·8	83	

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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	45	44	45	46	47	48	49	50	51	52	53
																													Madras Coast, North
5·5	+1·3	5·2	1·71	+ 0·40	1·17	28	3	+ 1·6	3·5	+ 0·7	6	1	1	1	0	0	0	7	15	0	9	16	6	0	0	0	0	0	Nellore
4·5		4·2	0		0		0		4·2		10	2	0	1	0	0	3	6	9	1	4	11	14	1	0	0	0	0	Ongole
3·8	+1·8	2·5	0	− 0·20	0		0		6·2	+ 2·3	12	6	4	5	0	0	1	1	2	1	0	7	18	5	0	0	0	0	Masulipatam
3·9	+0·5	2·5	0·76	+ 0·48	0·76	25	1	+ 0·5	9·0	+ 3·5	1	28	0	2	0	0	0	0	0	0	3	4	24	0	0	0	0	0	Cocanada
3·6	+0·4	3·7	0·66	+ 0·23	0·62	25	1	+ 0·5	3·7	+ 0·8	4	8	1	1	0	0	1	1	15	0	1	22	6	2	0	0	0	0	Vizagapatam
5·9	+3·5	5·4	0·51	+ 0·49	0·48	24	1	+ 0·4	8·6	+ 3·8	15	15	1	0	0	0	0	0	0	0	3	15	13	0	0	0	0	0	Calingapatam
																													Hill Stations, excluding Kashmir and Baluchistan
2·5	+0·6	7·3	0·14	− 0·38	0·14	3	1	− 0·1	2·4	+ 0·9	1	0	4	3	1	6	3	0	13	11	2	0	0	0	0	2	0	16	Shillong
1·1	−1·4	3·2	0·02	− 0·73	0·02	3	0	− 1·5	3·7	+ 0·2	0	9	7	3	2	4	4	2	0	4	2	1	0	2	11	3	1	7	Cherrapunji
1·9		1·8	0		0		0		4·3		1	1	13	5	2	5	3	1	0	0	0	0	0	1	2	11	17	0	Aijal
5·2	+0·9	6·8	0·35	− 0·18	0·14	6	2	+ 0·8	3·1	+ 0·5	1	1	14	4	2	1	5	2	1	0	1	2	1	1	1	20	2	2	Darjiling
4·0	+0·8	5·1	0·09	− 0·32	0·09	6	0	− 0·9	6·1	− 0·6	3	0	1	9	2	1	5	9	1	1	0	1	19	5	0	0	5	0	Kalimpong
7·3	+1·1	4·1	0·27	− 0·11	0·20	6	1	+ 0·2	1·0	− 0·2	0	0	0	0	0	0	0	0	31	4	0	1	0	0	0	2	1	23	Katmandu
2·7	−1·2	4·0	1·68	− 0·48	0·85	6	3	− 0·6	5·8	+ 0·2	0	10	8	1	1	3	4	1	3	0	2	2	3	1	11	11	1	0	Muktesar
3·7	−0·8	5·7	2·67	− 0·04	1·02	5	5	0	3·1	− 1·3	6	7	1	3	6	2	0	2	4	1	3	1	6	8	4	0	0	8	Mussooree
3·7	−1·0	5·4	1·33	− 1·28	0·47	5	4	− 0·8	1·3	− 2·4	4	4	0	5	6	1	0	0	11	4	3	1	6	7	4	0	0	6	Simla
5·1	+0·3	5·9	2·77	− 1·02	1·07	5	6	− 0·1	7·7	+ 2·0	2	8	11	2	0	0	0	2	4	0	1	7	11	1	0	5	0	6	Murree
1·9	−1·0	2·2	0·73	− 0·66	0·41	3	2	− 1·0	1·8		1	0	0	0	0	0	1	0	29	0	0	3	9	7	2	2	1	7	Wana
2·0	−2·1	2·2	0·15	− 2·18	0·07	10	0	− 3·5	13·4	+ 3·1	20	0	0	0	1	0	0	5	5	19	1	0	0	4	0	0	2	5	Cherat
3·0		5·3	1·04		0·50	3	4		2·8		8	6	1	4	0	0	0	0	12	1	0	3	19	0	2	0	0	6	Parachinar
4·3	−0·5	6·3	1·06	− 0·31	0·33	4	4	+ 0·6	5·3	+ 2·4	0	4	9	6	0	1	0	0	11	1	7	8	7	1	2	0	0	5	Drosh
2·1	0	1·6	0·03	− 0·23	0·03	28	0	− 0·6	2·1	− 1·4	4	4	0	0	0	0	0	0	23	8	5	0	1	5	4	0	6	2	Abu
5·2	+2·8	5·0	3·54	+ 2·90	1·19	11	7	+ 5·7	1·6	− 0·8	0	3	1	4	5	5	0	2	11	6	6	2	4	1	0	2	5	5	Pachmarhi
1·3	+0·1	2·1	0·14	0	0·10	1	1	+ 0·8	1·9	− 4·0	0	1	10	10	0	7	0	0	3	0	0	2	2	0	13	1	7	6	Mahabaleshwar
5·2	+0·9	4·5	0·12	− 0·04	0·12	31	1	+ 0·7	6·2	+ 2·1	1	6	12	6	0	0	1	2	3	0	5	12	7	0	1	1	1	4	Mercara
1·8	+2·1	6·0	1·60	+ 0·31	0·92	31	2	+ 0·2	1·2	− 1·9	2	0	1	1	0	0	0	0	27	4	1	0	5	4	0	0	0	17	Ootacamund
7·1	+3·0		8·79	+ 6·33	2·96	28	8	+ 5·3	3·8	+ 0·5	3	0	0	5	5	2	0	0	16										Coonoor
4·3	+2·8	8·0	4·02	+ 0·83	1·34	28	8	+ 4·0	6·5	− 2·1	3	4	10	7	1	1	0	0	5	0	7	4	4	3	0	1	3	9	Kodaikanal
																													Ceylon
2·3	+1·2	6·9	3·70	− 0·09	0·97	5	8	+ 2·7			4	13	9	2	0	0	0	0	3	6	6	0	0	0	1	7	10	1	Colombo
2·5	+1·1	6·6	17·50	+10·68	6·78	13	9	+ 0·9			9	9	4	1	1	3	2	1	1	17	10	3	0	0	0	0	0	1	Trincomalee
2·8	+2·5	7·9	2 50	− 1·45	1·03	13	7	+ 1·0			25	2	0	0	0	0	0	4	0	4	7	10	6	2	2	0	0	0	Hambantota
3·0		6·5	10·31		3·43	13	11				2	21	3	1	1	2	1	0	0	7	22	1	0	0	0	0	0	1	Mannar
																													Afghanistan
1·9		6·1	0·49		0·30	3	2		3·0		1	0	0	0	0	8	11	5	6	1	0	1	5	3	12	2	1	6	Jalalabad
3·1	+0·5	5·7	1·19	− 0·10	0·44	3	5	+ 1·9	5·7	+ 2·2	3	1	0	0	9	8	3	4	3	2	2	1	3	4	5	4	4	6	Kabul
2·5		4·6	1·71		1·17	9	2		2·7		0	3	0	2	0	0	0	0	26	0	10	0	2	0	5	0	0	14	Kandahar

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED

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 4 hrs. G. M. T.	Departure from normal.	Mean 12 hrs. G. M. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 4 hrs. G. M. T.	Mean 12 hrs. G. M. T.	Mean 4 hrs. G. M. T.	Mean 12 hrs. G. M. T.	Mean 4 hrs. G. M. T.	Departure from normal.	Mean 12 hrs. G. M. T.	Mean 4 hrs. G. M. 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
Iran																					
Charbar (*R*) ...	25																				
Jask ...	13	1015·8		1014·2	75·7	+ 1·2	77	7 days	62·4	+ 1·9	57	19	65·5	74·4	62·1	65·9	17·4	+2·8	17·9	89	+ 9
Bandar Abbas ...	29	1015·6		1013·7	75·0		78	5	57·2		53	9, 23	63·3	73·7	60·4	67·0	16·5		19·9	84	
Bushire ...	14	1013·8		1011·2	68·0		76	2	52·9		44	27	60·3	65·8	56·7	60·1	14·2		15·4	79	
Ispahan (*R*) ...																					
Meshed (*R*) ...	5,817																				
Seistan ...	3,104	962·1		959·2	63·6	+ 6·9	81	30	38·7	+ 5·1	32	5, 18	43·2	62·9	40·0	50·7	7·3	+1·3	7·9	75	+ 2
Arabia																					
Bahrain ...	12	1015·7		1014·3	71·6	+ 4·0	85	1	59·8	+ 3·1	52	28, 29	62·3	69·0	58·9	61·6	15·4	+0·9	15·3	80	- 3
Muscat (*R*) ...	8																				
Sharjah ..	18	1016·4		1014·4	76·8	+ 2·8	85	7, 8	54·9	+ 1·2	49	23	58·9	73·8	55·7	66·1	13·9	+1·6	18·7	81	+ 3

(*R*)—Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 HRS. G. M. T.) AT 4TH CLASS STATIONS—JANUARY 1

STATION.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature 8 hrs. I. S. T. °F.	Mean wet bulb temperature 8 hrs. I. S. T. °F.	Vapour pressure, millibars.		Relative Humidity %		Mean cloud amount 8 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 8 hrs. I. S. T.	Departure from normal.	Mean 8 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 8 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 ...	76·6	+ 3·1	80	8	46·0	- 1·2	40	26, 27	61·4	57·5	14·3	+1·0	78	- 15		0·10	- 0·46	0·10	3	1	- 0·4	
Bengal																						
Pabna ...	77·1	- 2·0	81	21					59·2	57·3	15·1	+1·0	88	+ 9		0	- 0·40	0		0	- 0·9	
Kashmir																						
Jammu ...	64·6	- 0·5	71	27	45·4	- 2·4	41	15	48·9	45·4	8·8	+0·2	75	+ 4	4·8	2·03	- 0·26	0·90	5	4	+ 0·6	N 3 E
Kargil ...	16·6	-10·3	28	6	-0·8	-10·8	-14	17	3·1	3·1	1·5	-0·7	100	+22	3·7	1·47	+ 0·15	0·38	6	4	+ 0·2	S 54 E
Mysore																						
Balehonnur ...	81·2	+ 0·2	84	4 days	61·0	+ 2·6	57	13	66·6	61·5	12·9	+4 8	59	+13		0·26	+ 0·21	0·33	2	1	+ 0·8	
Tibet																						
Yatung (Chumbi) ...	44·8	- 0·4	56	1	14·9	- 4·7	10	24, 25	22·1	21·4	3·7	-0·2	92	+ 8	4·2	0·88	+ 0·32	0·40	3	3	+ 1·3	
Iran																						
Zahidan ...	60·5	+ 6·9	72	31	37·6	+ 8·6	27	19	48·9	41·3	6·5	+0·7	52	-21	4·1	0·59	- 0·17	0·34	3	2	- 0·4	S 49 W

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											4 hrs. G. M. T.									12 hrs. G. M. T.								
Mean 4 hrs. G. M. T	Departure from normal.	Mean 12 hrs. G. M. 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
																													Iran
																													Charbar (*R*)
3·0	− 0·2	3·5	0·43	− 0·74	0·43	9	1	− 1·1	8·0	− 0·1	3	17	6	0	0	0	2	3	0	0	0	1	11	0	12	7	0	0	Jask
3·1		3·4	2·75		1·75	8	2		2·2		0	6	0	0	0	0	0	4	21	0	7	0	2	2	1	0	3	16	Bandar Abbas
3·8	+ 0·1	4·7	1·25		0·50	8	3		8·8		5	6	5	6	0	1	1	5	2	1	0	0	4	6	2	4	14	0	Bushire
																													Ispahan (*R*)
																													Meshed (*R*)
1·3	+ 0·9	3·9	0·38	− 0·11	0·23	3	2	+ 0·3	2·0	− 2·0	0	0	0	0	0	0	0	4	27	0	0	0	0	0	0	0	2	29	Seistan
																													Arabia
3·7	− 0·8	3·9	1·10	+ 0·71	1·05	8	1	− 0·4	6·0	− 2·9	3	1	0	4	5	3	2	7	6	6	1	2	5	3	2	1	11	0	Bahrain
																													Muscat (*R*)
3·0	− 1·1	3·1	1·07	− 0·04	1·05	9	1	− 1·0	6·6	− 0·4	0	0	6	13	9	0	0	2	1	8	2	0	0	0	3	8	10	0	Sharjah

(*R*)—Register not received.

ABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 HRS. G. M. T.) AT 5TH CLASS STATIONS—JANUARY 1947

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 (*R*) ...							Baluchistan ...	Harnai ...	1·18	+0·29	0·59	9	3	+ 1·0
Bengal ...	Bankura ...	0·09	−0·49	0·05	20	0	- 1·2	Rajputana, East...	Udaipur ...	0·23	+0·03	0·23	28	1	+ 0·6
	Rajshahi ...	0	−0·45	0		0	−1·0								
	Sirajganj ...	0	- 0·38	0		0	−0·8	Bombay Deccan ...	Khandala (*R*) ...						
	Rangpur ...	0·04	−0·30	0·04	3	0	−0·8	Madras Southeast.	Palamcottah ...	2·13	+0·42	0·65	30	4	+ 1·3
	Cooch Behar ...	0	−0·26	0		0	- 0·5								
Bihar ...	Muzaffarpur ...	2·20	+1·68	2·10	6	2	+0·9	Sikkim ...	Lachung ...	2·44	+1·64	0·41	2, 7	10	+ 7·1
	Chapra ...	0	- 0·57	0		0	−1·3								
	Arrah ...	0·28	−0·39	0·16	5	2	+0·7								
United Provinces, West.	Meerut ...	0·23	−1·02	0·13	5	2	−0·5								
Punjab, East and North.	Dharampore ...	2·12	−0·65	0·90	5	4	0								
	Kyelang (*R*) ...														
	Dalhousie ...	7·25	+0·13	2·73	5	6	−1·4								
Kashmir ...	Sonamarg (*R*) ...														
	Gurez ...	4·75	−0·69	0·80	1, 2	12	+2·3								

(*R*)—Register not received.

Monthly Means of Upper Winds

During the month observations of velocity and direction of upper winds were made at 62 stations in India and neighbourhood, by means of pilot balloons. Particulars of the stations, their coordinates, and the approximate times of the regular pilot balloon ascents at each station are given in the table below. Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging. Night and morning ascents were restricted to 9 kms. while the afternoon ascents were unrestricted. Data upto 9 kms. are given under table A and data above 9 kms under table B.

For ascents during the afternoon only, heights were determined by the tail method as described in pages 146-151 of Vol. XXIV, Part 5 of the Memoirs of the India Meteorological Department. For other ascents heights were calculated from the formula

$$A = K \frac{L^{\frac{1}{3}}}{(L+W)^{\frac{1}{3}}} \text{ where}$$

A = Rate of ascent of balloon in meters per minute,

L = Effective free lift of the balloon in grams,

W = Weight of balloon and attachments in grams,

K = a constant which has been taken to be 84, for ascents during night. For ascents in the morning the value of K used was different for different regions in India and different seasons.

In tables A and B,

n represents the number of observations,

V represents the mean speed in m/sec. irrespective of direction,

v represents the resultant mean velocity of wind in m/sec.

and D represents the direction of resultant mean wind in degrees east of north.

Monthly means of previous years have appeared in the following publications:—

(1) Upto the end of 1919, in Vol. XXIII (Part III) of the *memoirs* of this Department.

(2) 1920, in the *Monthly Weather Reviews* of that year.

(3) 1921-27, in the *India Weather Reviews* of those years.

(4) 1928-35, in the *Upper Air Data* (Part 13) of the respective years.

(5) 1936-41, in the *Upper Air Data* (Part A) of those years.

(6) 1942-46, *under* publication in *Upper Air Data* (Part A) of those years.

Particulars of Pilot Balloon Stations in India and the Persian Gulf

Station.	Lat. N.	Long. E.	Height of anemometer head above M. S. L. in metres.	Date of opening.	Approximate times of flight in I.S.T.			Remarks.
Agra ...	27° 08′	78° 01′	182	12th February 1914 ...		0700	1600	Closed on 15th June 1941. Works every year in the periods 2nd half of September to 1st half of October and 2nd half December to 1st half of January.
Ahmedabad ...	23° 02′	72° 35′	55	19th May 1925 ...	0100	0700	1600	
Allahabad (Bamrauli) ...	25° 26′	81° 44′	103	28th February 1940 ...	0100	0700	1600	
Ambala ...	30° 23′	76° 46′	283	1st April 1941 ...	0100	0700	1600	
Anantapur ...	14° 41′	77° 37′	364	12th February 1946 ...		0700	1600	
Asansol ...	23° 41′	86° 59′	135	29th May 1942 ...	0100	0700	1600	
Bahrain ...	26° 14′	50° 35′	14	2nd November 1927 ...	0100	0700	1600	

Station.	Lat. N.	Long. E.	Height of anemometer head above M. S. L. in meters.	Date of opening.	Approximate times of flight in I. S. T.			Remarks.
Balasore ...	21° 26′	87° 01′	18	2nd May 1945 ...		0700		
Bangalore ...	12° 58′	77° 35′	936	19th May 1915 ...		0700	1600	
Bareilly ...	28° 22′	79° 24′	184	12th January 1943 ...		0700	1600	
Bhopal ...	23° 16′	77° 25′	530	26th February 1943 ...	0100	0700	1600	
Bhuj ...	23° 15′	69° 48′	111	14th September 1937...	0100	0700	1600	
Bogra ...	24° 51′	89° 23′	27	22nd April 1943 ...		0700	1600	
Bikaner ...	28° 00′	73° 18′	229	18th October 1946 ...		0700	1600	
Bombay ...	19° 07′	72° 50′	5	14th May 1933 ...	0100	0700	1600	Also worked from 27th June 1917 to 31st March 1920 and from 25th April 1923 to 2nd January 1925.
Calcutta ...	22° 32′	88° 20′	21	14th May 1921 ...	0100	0700	1600	Also worked from 30th March 1919 to 31st August 1920.
Chhor ...	25° 31′	69° 50′	8	5th October 1945 ...		0700	1600	
Chittagong ...	22° 21′	91° 50′	21	31st October 1928 ...	0100	0700	1600	Closed from 2nd April 1942 to 26th November 1946.
Cochin ...	9° 58′	76° 14′	3	16th March 1942 ...	0100	0700	1600	
Cooch-Behar ...	26° 20′	89° 27′	53	6th June 1942 ...		0700	1600	
Cuttack ...	20° 55′	85° 52′	31	5th December 1942 ...	0100	0700	1600	
Dalbandin ...	28° 54′	64° 16′	855	1st April 1940 ...	0100	0700	1600	
Drosh ...	35° 34′	71° 41′	1480	1st January 1944 ...		0700	1600	
Fort Sandeman ...	31° 21′	69° 27′	1421	28th January 1928 ...		0700	1600	
Gadag ...	15° 25′	75° 38′	650	3rd May 1943 ...		0700	1600	
Gaya ...	24° 49′	85° 01′	117	19th March 1937 ...	0100	0700	1600	
Gopalpur ...	19° 16′	84° 53′	79	15th February 1946 ...		0700	1600	
Gorakhpur ...	26° 45′	83° 24′	79	5th January 1943 ...		0700	1600	
Hyderabad (Begumpet) ...	17° 26′	78° 27′	555	1st September 1929 ...	0100	0700	1600	
Jacobabad ...	28° 17′	68° 29′	57	1st December 1935 ...	0100	0700	1600	
Jamshedpur ...	22° 49′	86° 11′	144	23rd July 1942 ...		0700	1600	
Jharsuguda ...	21° 15′	84° 05′	232	1st May 1944 ...	0100	0700	1600	
Jhelum ...	32° 56′	73° 44′	240	5th April 1942 ...	0100	0700	1600	
Jiwani ...	25° 10′	61° 47′	5	26th October 1938 ...	0100	0700	1600	
Jodhpur ...	26° 18′	73° 01′	233	15th October 1934 ...	0100	0700	1600	
Jubbulpore ...	23° 10′	79° 57′	402	30th July 1928 ...		0700	1600	
Karachi ...	24° 49′	69° 02′	5	31st August 1925 ...	0100	0700	1600	
Khanpur ...	28° 40′	70° 48′	94	19th January 1947 ...		0700	1600	
Lahore ...	31° 35′	74° 20′	220	20th March 1918 ...	0100	0700	1600	
Madhosagar (Gwalior) ...	26° 13′	78° 00′	232	7th May 1938 ...	0100	0700	1600	
Madras ...	13° 04′	80° 15′	13	8th April 1926 ...	0100	0700	1600	
Malegaon ...	20° 33′	74° 32′	443	8th May 1933 ...	0100	0700	1600	
Mangalore ...	12° 52′	74° 51′	40	4th June 1928 ...	0100	0700	1600	
Masulipatam ...	16° 11′	81° 08′	10	8th April 1942 ...	0100	0700	1600	
Minicoy ...	8° 18′	73° 00′	16	14th April 1941 ...		0700	1600	
Multan ...	30° 12′	71° 31′	124	1st April 1940 ...	0100	0700	1600	
Nagercoil ...	8° 10′	77° 27′	69	18th October 1943 ...	0100	0700	1600	
Nagpur ...	21° 09′	79° 07′	309	23rd April 1943 ...	0100	0700	1600	Also from 20th August 1915 to 15th November 1915.

Station.	Lat. N.	Long. E.	Height of anemometer head above M. S. L. in meters.	Date of opening.	Approximate times of flight in I. S. T.			Remarks.
New Delhi ...	28° 35′	77° 07′	227	20th October 1936 ...	0100	0700	1600	Also from 16th November 1929 to 2nd January 1932.
Peshawar ...	34° 01′	71° 35′	363	4th December 1923 ...	0100	0700	1600	Also from 16th September 1921 to 23rd April 1922.
Poona ...	18° 32′	73° 51′	560	5th January 1925 ...	0100	0700	1600	
Port Blair ...	11° 40′	92° 43′	87	29th October 1945 ...		0700	1600	Closed from 12th March 1942 to 28th October 1945.
Quetta ...	30° 15′	66° 53′	1620	7th March 1944 ...	0100	0700	1600	Also worked from 19th June 1921 to 21st May 1935.
Raipur ...	21° 15′	81° 41′	305	15th July 1944 ...	0100	0700	1600	
Rajsamand ...	25° 03′	73° 53′	579	20th May 1938 ...	0100	0700	1600	
Saharsa ...	25° 52′	86° 37′	52	1st April 1943 ...	0100	0700	1600	
Sharjah ...	25° 20′	55° 24′	13	22nd September 1945...	0100	0700	1600	
Tezpur ...	26° 37′	92° 47′	80	12th August 1932 ...	0100	0700	1600	
Trichinopoly ...	10° 49′	78° 42′	88	22nd June 1936 ...	0100	0700	1600	
Trivandrum ...	8° 29′	76° 57′	73	8th December 1928 ...		0700		
Vengurla ...	15° 52′	73° 38′	91	22nd November 1941 ...	0100	0700	1600	
Veraval ...	20° 55′	70° 22′	17	13th October 1941 ...	0100	0700	1600	
Vizagapatam ...	17° 42′	83° 18′	57	24th September 1928...	0100	0700	1600	

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level.

JANUARY 1947

Station.	AGRA								AHMEDABAD															
Time I. S. T.	No of Obs	(M.P.S.) Mean 0700 Wind Speed	Resultant Mean Wind Speed (M.P.S.)	Resultant Mean Wind Direction	1600				0100				0700				1600							
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	15	0·2	Calm		15	1·0	0·7	353	31	1·2	1·1	45	31	1·4	1·3	63	31	2·4	1·3	39				
0·15 a. g.	15	5·3	2·5	353	15	3·4	1·8	336	31	8·8	7·3	41	31	11·6	11·0	61	31	3·8	1·7	13				
0·6 a. s. l.	15	4·7	1·9	333	15	3·2	1·9	325	31	6·7	5·0	55	31	9·1	6·8	79	31	3·2	1·8	31				
1·0 „ .	15	4·4	2·1	313	14	3·8	2·1	307	31	4·9	2·7	69	30	6·3	3·2	72	31	3·2	1·2	19				
1·5 „ .	14	5·4	4·1	285	13	4·7	3·6	294	29	4·1	1·5	215	29	5·1	0·4	297	31	4·0	1·2	276				
2·0 „ .	14	6·7	5·8	280	13	6·9	5·5	283	29	4·9	3·5	242	29	5·1	2·3	255	30	5·4	2·8	259				
2·5 „ .	13	8·1	6·7	275	13	8·7	7·2	280	29	5·7	4·7	251	28	6·3	4·2	261	30	6·8	5·4	252				
3·0 „ .	13	9·0	8·3	277	11	10·4	8·7	267	26	6·4	5·2	266	28	7·1	6·0	263	30	8·7	7·3	258				
4·0 „ .	13	10·7	9·5	272	10	12·9	11·9	273	3	12·0	9·9	281	26	11·0	10·0	273	30	11·9	11·2	274				
5·0 „ .	12	13·5	12·4	268	10	15·3	14·4	272					16	14·3	13·3	275	29	16·3	15·8	276				
6·0 „ .	9	17·2	16·2	266	9	18·7	17·4	280					7	19·0	18·0	269	23	20·3	19·6	275				
7·5 „ .	7	19·4	19·1	268	5	25·9	25·4	282					2	26·7	26·3	280	4	24·5	21·6	272				
9·0 „ .	2	25·7	24·6	251	2	21·0	21·0	263					1	23·5	23·5	290	1	23·0	23·0	315				

Station.	ALLAHABAD												AMBALA											
Time I. S. T.	0100				0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	0·9	0·3	334	31	1·1	0·2	263	31	1·5	1·0	311	31	2·8	1·8	333	31	1·0	0·6	320	31	2·7	1·5	309
0·15 a. g.	29	5·1	2·8	351	30	4·8	0·5	25	27	3·6	2·0	300	30	7·1	6·3	333	30	5·9	3·7	334	29	4·7	3·5	302
0·6 a. s. l.	29	4·4	2·5	322	30	4·7	1·3	3	28	3·6	1·7	296	30	6·5	5·2	331	30	6·4	4·0	338	29	4·9	3·6	301
1·0 „ .	29	4·7	3·4	288	29	4·6	2·5	301	27	4·4	3·1	296	30	5·4	2·4	326	29	5·8	2·5	328	29	4·9	3·3	313
1·5 „ .	27	4·6	3·8	276	28	5·6	4·7	286	29	5·8	5·0	283	30	4·3	0·9	299	29	5·6	0·7	3	29	4·7	1·7	332
2·0 „ .	26	6·8	6·2	274	28	6·7	6·2	280	29	7·6	7·0	282	29	4·5	0·6	259	28	5·2	0·4	327	29	4·8	0·7	343
2·5 „ .	20	7·4	6·9	275	28	7·5	6·9	278	29	9·0	8·5	279	24	4·6	1·4	251	26	4·6	0·2	24	28	4·6	0·6	300
3·0 „ .	20	8·7	8·1	279	26	9·1	8·7	281	28	10·8	10·3	278	22	4·9	2·3	269	25	4·7	0·3	296	26	4·9	1·8	288
4·0 „ .					19	11·0	10·7	282	24	14·6	14·2	277	5	7·0	5·3	286	18	6·6	4·8	291	24	7·4	4·6	283
5·0 „ .					5	10·3	9·5	263	20	19·1	18·7	275	2	12·0	11·5	246	13	11·3	9·2	260	22	11·6	9·4	278
6·0 „ .					1	7·0	7·0	270	12	24·3	23·8	280	1	15·0	15·0	220	7	13·4	12·1	259	21	17·4	15·6	281
7·5 „ .					1	11·5	11·5	265									3	23·2	22·2	289	16	26·0	23·5	275
9·0 „ .																					10	34·5	32·3	279

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

JANUARY 1947

STATION.	ANANTAPUR.								ASANSOL.											
Time I. S. T.	0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	1·1	110	31	2·9	2·6	84	31	0·9	0·8	326	31	1·0	0·9	319	31	1·0	0·9	320
0·15 a. g.	31	4·9	3·6	117	31	5·1	4·8	84	30	5·7	4·3	360	30	4·9	3·7	346	31	3·2	2·5	322
0·6 a. s. l.	31	6·3	5·1	122	31	4·8	4·5	88	30	5·1	3·8	340	30	5·7	3·8	341	31	3·1	2·6	326
1·0 „	31	9·2	7·7	125	31	5·1	4·5	95	29	4·6	3·5	289	30	5·3	3·5	301	31	4·1	3·6	318
1·5 „	31	8·6	7·5	112	31	4·8	4·2	94	20	7·2	6·3	281	28	6·5	5·6	292	31	5·6	5·5	300
2·0 „	31	6·3	4·1	103	29	3·9	2·1	104	16	11·2	10·6	289	21	7·9	7·4	291	28	8·5	8·5	290
2·5 „	31	4·7	1·1	117	29	4·1	1·4	203	3	8·5	8·5	298	18	9·2	8·3	290	26	9·5	9·0	285
3·0 „	29	5·6	1·9	223	26	5·6	2·7	237	2	7·0	6·9	280	15	9·4	8·3	277	22	11·6	10·9	277
4·0 „	20	8·3	4·4	244	24	7·7	5·8	277					8	15·6	13·8	273	15	15·8	15·2	275
5·0 „	14	9·0	7·2	265	22	7·6	4·9	275					1	9·0	9·0	275	8	17·4	16·9	282
6·0 „	13	12·5	9·3	265	20	11·1	7·0	284					1	8·0	8·0	290	4	16·3	15·5	274
7·5 „	10	16·1	12·4	247	13	15·2	12·3	281									2	30·5	30·4	271
9·0 „	7	20·1	12·9	239	10	21·1	19·5	266									1	30·0	30·0	260

STATION.	BAHRAIN.												BALASORE.				BANGALORE.							
Time I. S. T.	0100				0700*				1600				0700				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·6	0·6	350	31	2·8	1·1	290	31	3·9	1·8	308	31	3·5	3·2	353	31	3·4	2·9	104	31	4·3	3·8	107
0·15 a. g.	31	7·2	1·5	356	30	6·4	1·7	271	31	6·8	2·8	325	31	6·1	6·0	8	31	7·1	6·2	109	29	5·6	4·7	100
0·6 a. s. l.	31	7·5	2·3	299	29	7·7	2·2	291	31	7·9	3·2	308	31	4·7	3·6	33								
1·0 „	31	7·6	3·1	299	28	7·1	2·5	288	31	8·6	4·2	292	29	3·7	2·1	355	31	5·4	4·7	107	29	5·2	4·1	98
1·5 „	23	6·6	3·6	287	26	6·7	4·6	283	29	8·4	4·9	285	27	4·9	3·7	310	23	8·5	6·9	101	29	5·3	4·5	99
2·0 „	17	8·1	5·1	264	25	6·6	4·9	286	27	7·7	5·5	269	23	6·5	5·6	300	19	6·7	4·1	86	28	4·5	3·5	100
2·5 „	5	7·2	5·7	297	15	9·0	7·7	273	26	8·8	7·0	262	19	8·4	7·7	290	18	6·1	3·1	72	20	3·7	1·2	92
3·0 „					12	9·7	8·7	269	23	10·2	8·8	260	15	7·9	7·6	279	12	5·5	0·9	19	15	4·6	0·3	297
4·0 „					3	10·5	4·9	337	19	13·7	12·4	279	10	12·1	10·9	276	9	6·4	3·4	275	7	5·0	2·5	321
5·0 „					1	8·5	8·5	230	7	16·6	15·3	278	5	15·0	14·6	283	7	6·7	3·5	271	4	7·5	3·4	348
6·0 „					1	16·5	16·5	250	3	16·5	16·1	289	2	17·0	16·9	293	6	8·7	3·5	358	2	8·3	7·7	41
7·5 „																	3	15·3	0·8	6	2	11·5	11·4	43
9·0 „																	1	10·5	10·5	40				

* Local time.

Table A.—Monthly mean directions and velocities of upper winds

Winds up to 9·0 kms. above sea level

JANUARY, 1947

Station.	BAREILLY.								BHOPAL.											
Time I. S. T.	0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·8	0·2	300	31	1·7	1·1	297	31	2·3	1·9	52	31	2·9	2·0	65	31	2·3	0·4	67
0·15 a. g.	30	5·0	3·7	314	31	3·7	2·3	294	31	6·8	4·9	71	29	7·8	6·2	89	31	4·0	1·0	72
0·6 a. s. l.	30	4·9	3·6	311	30	3·7	2·3	290	21	6·8	5·3	69	29	6·6	5·0	84	31	3·8	0·9	68
1·0 ,,	30	4·5	2·3	310	30	3·9	2·3	298	31	5·8	3·3	79	27	7·0	4·1	95	31	3·7	0·5	40
1·5 ,,	29	4·3	1·6	314	30	4·2	2·6	317	30	5·3	1·8	207	27	6·5	0·7	269	30	4·0	1·9	267
2·0 ,,	29	4·8	3·0	296	30	4·4	2·9	301	20	6·3	5·2	250	24	8·7	7·4	263	27	5·8	4·6	261
2·5 ,,	29	5·3	3·8	290	30	5·2	3·7	291	8	6·8	6·5	257	21	9·9	9·0	267	18	7·7	7·0	266
3·0 ,,	29	6·5	4·8	291	30	6·9	5·5	290	4	6·6	6·5	247	18	11·4	11·0	260	18	8·9	8·1	271
4·0 ,,	18	9·4	8·7	279	26	11·4	10·1	284					10	10·5	10·2	282	18	12·7	11·7	274
5·0 ,,	18	14·5	14·1	277	23	15·7	14·7	282					3	11·3	11·2	280	13	16·0	15·5	275
6·0 ,,	7	20·5	20·1	279	14	20·0	19·2	275					2	17·3	17·3	267	8	21·5	21·3	275
7·5 ,,					4	24·7	23·4	276					1	13·0	13·0	260	2	21·7	21·5	274
9·0 ,,					1	26·5	26·5	250									1	16·0	16·0	290

Station.	BHUJ												BOGRA.							
Time I. S. T.	0100				0700				1600				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·5	0·3	356	31	0·1	0·1	45	31	2·2	2·0	21	31	2·0	1·6	334	31	1·7	1·3	306
0·15 a. g.	31	5·4	4·5	12	31	5·1	4·3	30	31	4·8	4·3	17	31	6·9	5·8	346	31	3·6	3·1	303
0·6 a. s. l.	31	8·0	7·4	30	31	7·6	6·5	41	31	5·1	4·6	18	30	5·8	4·7	347	31	3·5	3·1	309
1·0 ,,	31	6·5	5·7	36	31	6·5	5·1	36	31	4·4	3·7	11	30	5·0	3·9	336	31	4·0	3·7	305
1·5 ,,	31	5·2	3·6	38	31	5·4	3·4	12	31	4·5	2·3	347	30	6·2	4·7	295	31	5·4	4·7	297
2·0 ,,	31	4·7	1·3	338	31	5·2	2·6	316	31	5·5	2·8	297	29	8·1	6·7	289	31	8·7	8·2	288
2·5 ,,	24	4·9	2·0	291	31	5·2	3·0	305	31	6·1	4·5	288	25	10·3	9·1	290	31	11·3	11·0	281
3·0 ,,	14	5·8	5·1	269	31	6·5	5·5	282	31	7·6	6·8	283	24	13·7	12·4	282	30	13·4	13·0	277
4·0 ,,	6	10·3	10·0	280	29	10·9	9·8	279	31	12·0	11·2	279	16	17·4	17·0	275	25	19·1	18·6	275
5·0 ,,					23	14·0	13·2	276	25	17·3	16·6	280	4	21·8	21·3	256	17	22·6	21·8	276
6·0 ,,					18	18·2	17·5	280	20	21·3	20·7	276	2	25·3	24·6	277	9	25·4	24·3	261
7·5 ,,					6	24·2	21·7	282	4	21·9	19·1	269					6	34·6	33·3	253
9·0 ,,					5	35·8	30·1	257												

Table A—Monthly mean directions and velocities of upper wind

Winds up to 9·0 km. above sea level

JANUARY 1947

Station.	BOMBAY												BIKANER											
Time I. S. T.	0100				0700				1600				0700				1600							
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·4	0·4	57	31	0·9	0·7	80	31	5·0	4·2	304	31	0·2	0·2	60	31	1·3	1·1	6				
0·10 a. g.	31	3·5	2·7	14	31	4·1	2·5	30	31	3·6	2·7	299	31	5·3	4·2	91	31	3·5	2·6	10				
0·6 a. s. l.	31	3·7	2·5	3	31	4·0	2·4	42	31	3·0	0·7	323	30	5·5	3·7	61	31	3·2	2·3	12				
1·0 „	31	3·1	0·6	247	31	3·4	0·8	5	31	3·2	0·9	199	30	4·7	2·7	21	31	3·4	2·5	11				
1·5 „	30	4·4	3·2	203	31	4·4	3·3	204	31	4·4	3·3	196	30	4·3	3·1	350	31	3·4	1·8	350				
2·0 „	29	5·1	4·3	191	31	6·3	5·7	197	31	5·4	4·3	200	30	5·3	3·3	326	31	4·6	2·3	299				
2·5 „	20	7·4	5·2	186	31	7·1	6·1	212	31	6·1	4·9	232	28	5·8	4·1	305	31	5·9	3·8	287				
3·0 „	16	6·9	4·4	216	31	7·6	5·8	245	31	6·5	5·2	256	28	7·3	5·7	286	31	7·6	5·8	282				
4·0 „	1	8·0	8·0	265	25	10·1	9·5	270	30	7·9	8·5	273	27	11·2	9·8	284	28	11·0	9·9	274				
5·0 „					23	12·7	12·1	277	30	12·1	11·7	273	18	14·1	13·4	272	24	14·7	13·8	274				
6·0 „					14	13·9	12·6	280	26	16·8	16·4	276	4	15·9	15·3	274	13	16·1	14·9	269				
7·5 „					1	20·0	20·0	275	7	25·5	23·4	290					5	18·5	17·8	266				
9·0 „									2	30·7	29·9	246												

Station.	CALCUTTA												CHITTAGONG											
Time I. S. T.	0100				0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·4	1·2	1	31	1·8	1·5	4	31	2·2	2·0	341	31	1·9	1·8	2	31	1·5	1·4	14	31	1·5	1·0	330
0·15 a. g.	31	5·0	3·7	6	31	5·8	5·2	13	31	3·8	3·3	335	31	5·5	5·2	1	31	5·2	4·7	28	31	3·9	3·1	328
0·6 a. s. l.	31	5·8	4·3	2	31	5·3	4·6	1	31	4·2	3·8	332	31	4·9	4·5	359	31	5·5	4·8	11	31	3·7	3·2	5
1·0 „	31	5·8	4·2	324	31	5·1	4·2	336	31	4·6	4·0	325	31	4·4	3·3	341	31	4·3	3·3	348	31	3·9	3·0	3
1·5 „	30	6·5	5·3	299	31	6·2	5·1	304	31	5·8	5·0	308	31	4·9	3·1	290	31	5·3	3·5	300	31	4·4	3·1	327
2·0 „	30	7·9	6·9	289	30	7·5	6·3	298	30	7·9	7·1	295	31	6·8	4·9	282	31	6·2	5·0	291	31	6·9	5·7	292
2·5 „	22	9·4	8·6	287	27	8·5	7·7	277	28	9·8	9·2	285	31	8·5	7·1	276	31	8·4	7·4	278	31	9·2	8·1	279
3·0 „	17	9·9	8·7	275	27	10·8	9·9	271	27	12·4	11·5	277	28	10·5	9·1	269	30	10·7	9·7	266	31	11·2	10·4	271
4·0 „					15	13·4	12·8	268	21	15·6	14·8	269	11	15·3	14·8	263	29	15·3	14·4	267	28	14·5	14·0	265
5·0 „					8	19·0	18·5	267	17	18·5	18·0	267					21	18·8	18·2	263	26	19·7	18·9	265
6·0 „					3	28·3	26·8	249	15	20·9	20·2	264					21	22·7	21·6	263	23	25·2	24·7	266
7·5 „									5	26·9	26·6	272					1	45·0	45·0	295	12	30·9	30·1	269
9·0 „									2	25·0	25·0	260									1	34·5	34·5	265

Table A—Monthly mean directions and velocities of upper winds

Winds up to 3·0 km. above sea level

JANUARY 1947

Station	CHHOR								COCHIN.											
Time I. S. T.	0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·4	1·3	38	31	2·5	2·3	8	31	1·5	1·1	58	31	1·9	1·8	52	31	4·5	4·1	267
0·15 a. g.	30	7·5	6·7	64	31	4·2	3·6	11	31	2·8	1·2	43	31	3·3	2·9	62	31	4·5	4·3	271
0·6 a. s. l.	30	5·5	4·5	55	31	3·9	3·3	14	31	3·3	1·3	42	31	3·4	2·0	69	31	2·6	1·8	337
1·0 ,,	30	4·8	3·8	23	31	4·0	3·2	19	31	3·4	2·5	86	31	3·0	2·1	88	31	3·4	3·1	49
1·5 ,,	31	5·0	3·8	4	31	4·2	2·8	16	31	4·0	3·2	79	31	4·1	3·2	100	30	4·7	4·4	76
2·0 ,,	31	5·2	3·1	352	31	4·1	2·0	345	29	4·7	3·6	81	31	4·9	3·5	94	30	5·7	4·3	82
2·5 ,,	31	5·4	2·6	314	30	5·4	4·1	289	29	5·2	2·9	97	31	5·2	3·0	107	29	5·6	2·6	96
3·0 ,,	31	6·9	4·4	300	30	8·2	7·3	283	27	5·2	2·9	110	30	5·2	1·6	105	29	4·6	1·9	100
4·0 ,,	17	10·1	8·8	272	26	12·1	11·4	280	14	5·0	1·3	49	30	4·8	0·9	83	28	5·0	1·0	46
5·0 ,,	11	14·5	13·4	276	19	17·2	16·6	279	3	4·8	3·8	160	30	5·0	1·5	100	27	5·3	0·4	101
6·0 ,,	1	10·0	10·0	265	14	20·1	19·4	284	2	7·3	6·1	151	28	6·0	0·5	75	25	5·7	1·2	39
7·5 ,,					6	24·5	24 0	284					16	7·4	3·0	264	19	9·0	2·3	18
9·0 ,,					2	31·3	32·9	281					13	9·2	4·5	281	16	8·6	1·2	295

Station.	COOCH BEHAR.								CUTTACK.											
Time I. S. T.	0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·8	1·4	63	31	0·8	0·3	200	31	0·3	0·2	25	31	0·5	0·4	33	31	0·9	0·5	60
0·15 a. g.	31	4·7	3·9	75	29	2·1	0·9	214	31	3·3	1·2	89	30	4·3	3·4	55	28	2·6	1·4	69
0·6 a. s. l.	30	4·2	3·0	64	29	2·3	0·7	245	30	4·4	1·6	98	30	3·8	2·2	83	29	2·9	1·0	4
1·0 ,,	30	4·0	2·1	62	29	2·7	0·6	245	29	4·0	0·5	20	29	3·7	1·2	44	29	3·6	2·0	340
1·5 ,,	30	4·0	1·5	72	30	3·1	0·9	268	28	4·7	2·4	319	28	5·6	3·6	310	29	5·6	4·5	311
2·0 ,,	30	4·2	0·5	21	29	4·7	2·6	307	28	6·1	4·2	303	27	6·7	5·3	303	28	7·6	6·8	305
2·5 ,,	30	5·4	1·8	279	29	6·5	5·3	295	19	7·6	6·0	282	26	7·1	6·2	293	26	8·4	7·6	297
3·0 ,,	28	8·1	6·2	278	29	8·6	7·9	280	13	9·1	6·9	270	26	8·0	6·7	276	26	10·0	9·3	280
4·0 ,,	20	13·4	13·2	275	25	15·1	13·9	272	2	9·0	5·9	57	23	11·6	11·0	269	23	12·6	12·1	270
5·0 ,,	7	17·4	17·3	278	17	20·7	20·4	272					18	15·6	14·5	267	22	16·7	16·0	269
6·0 ,,	2	20·0	19·6	276	13	24·6	24·0	273					8	17·9	17·4	268	20	20·1	19·0	266
7·5 ,,					2	32·5	32·5	291									15	25·2	23·8	267
9·0 ,,					1	32·5	32·5	270									6	27·8	27·2	265

Table A—Monthly mean directions and velocites of upper winds

Winds up to 9·0 km. above sea level.

JANUARY 1947

STATION.	DALBANDIN.																DROSH.							
Time I. S. T.	0100				0700				1600								0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·5	1·7	57	31	1·9	1·6	74	31	2·0	0·8	85					31	1·6	1·4	68	31	2·1	1·7	64
0·15 a. g. .	31	5·3	3·1	79	30	4·7	3·2	89	31	4·2	0·8	113					29	3·3	3·0	54	29	3·5	3·0	49
0·6 a. s. l.																								
1·0 „ .	31	5·3	3·1	79	30	4·7	3·2	89	31	4·2	0·8	113												
1·5 „ .	31	5·2	1·9	124	30	5·4	1·1	167	31	4·0	1·3	214												
2·0 „ .	31	4·8	2·5	222	29	5·7	2·5	239	31	4·9	2·2	245					29	4·8	4·4	95	29	4·0	3·3	35
2·5 „ .	29	6·4	5·2	265	29	6·8	5·0	268	31	5·9	4·0	261					27	7·5	7·0	19	29	4·9	3·7	20
3·0 „ .	24	8·0	6·9	287	28	8·0	6·0	266	30	7·3	5·7	271					25	8·2	5·2	7	27	4·7	2·7	9
4·0 „ .	12	8·5	8·1	299	22	10·6	8·9	291	20	12·5	10·3	278					19	6·1	3·3	22	27	4·2	2·2	162
5·0 „ .	2	7·0	7·0	271	14	15·8	13·7	293	16	18·4	15·4	286					15	7·3	4·1	276	20	7·1	4·7	267
6·0 „ .					7	22·5	22·4	284	13	23·2	22·3	277					10	9·5	7·6	279	17	11·0	9·9	281
7·5 „ .									7	30·6	30·4	284					6	13·1	12·8	282	15	16·0	15·1	289
9·0 „ .																	4	14·0	13·9	268	8	23·2	21·4	299

STATION.	FORTSANDAMAN.								GADAG.															
Time I. S. T.	0700				1600				0700				1600											
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·0	0·8	233	31	1·9	1·4	284	31	3·7	2·9	133	31	4·2	2·5	124								
0·15 a. g. .	27	2·3	1·3	235	31	3·1	2·8	283	31	6·2	4·3	126	31	6·1	3·4	122								
0·6 a. s. l.																								
1·0 „ .									31	7·3	5·1	120	31	5·7	3·4	119								
1·5 „ .	27	1·9	1·2	234	31	2·9	2·5	234	30	5·8	4·4	116	30	4·5	2·3	133								
2·0 „ .	27	2·9	1·7	252	31	3·2	2·3	254	29	4·4	3·2	121	30	3·5	2·0	143								
2·5 „ .	27	5·1	3·7	272	30	4·8	3·2	255	28	4·1	1·9	196	27	3·3	1·9	179								
3·0 „ .	27	7·5	5·9	290	27	6·2	4·9	277	27	5·0	2·9	233	24	3·9	1·4	253								
4·0 „ .	24	9·9	9·3	287	25	10·0	9·2	283	19	6·2	3·9	265	18	6·1	3·9	272								
5·0 „ .	12	12·3	11·7	282	24	14·2	13·1	283	17	7·6	4·5	280	11	8·3	5·7	262								
6·0 „ .	7	14·8	14·1	271	14	16·4	15·6	276	14	8·8	5·8	295	8	10·0	7·9	271								
7·5 „ .					3	23·2	23·1	282	6	10·7	8·6	274	6	9·3	5·3	302								
9·0 „ .									3	11·7	9·4	292	1	27·5	27·5	260								

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level.

JANUARY 1947

Station.	GAYA.												GOPALPUR											
Time I. S. T.	0100				0700				1600				0700				1600							
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·3	225	31	1·3	0·6	202	31	2·1	1·6	321	31	1·8	1·7	334	31	3·4	3·2	109				
0·15 a. g.	30	3·9	1·9	329	31	3·6	1·5	243	30	3·8	3·0	311	30	4·2	3·1	4	31	5·5	5·0	105				
0·6 a. s. l.	30	4·6	2·9	307	30	4·2	2·1	307	30	3·9	2·7	303	30	3·4	2·0	65	31	3·4	1·6	72				
1·0 „	31	5·0	4·3	281	30	4·5	3·0	230	30	4·2	3·4	287	29	3·9	2·0	55	31	4·1	1·9	359				
1·5 „	30	6·4	5·5	271	30	5·9	5·2	283	30	6·5	6·2	283	29	4·4	2·1	356	30	5·1	3·7	318				
2·0 „	28	7·8	7·5	277	31	7·5	7·0	279	30	8·7	8·4	281	27	5·8	3·7	322	29	6·7	5·4	309				
2·5 „	20	8·0	7·7	276	27	8·5	8·0	282	31	10·1	10·0	280	24	7·2	5·0	294	28	8·0	6·7	299				
3·0 „	19	10·1	9·5	278	27	11·1	10·4	283	30	12·0	11·6	280	24	8·0	6·5	275	25	8·9	8·3	284				
4·0 „					21	14·6	14·2	276	27	15·9	15·6	275	21	10·8	10·4	267	23	12·1	11·6	272				
5·0 „					14	18·2	17·4	267	21	19·2	18·6	277	10	13·2	12·5	263	22	15·0	14·2	272				
6·0 „					7	22·8	21·9	262	13	23·8	23·2	273	7	16·7	15·7	275	20	18·4	17·7	271				
7·5 „					1	15·0	15·0	265	7	31·0	30·3	277					5	24·1	23·7	258				
9·0 „									1	32·0	32·0	270					2	36·7	32·9	237				

Station.	GORAKHPUR								HYDERABAD (Deccan)															
Time I. S. T.	0700				1600				0100				0700				1600							
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·5	267	31	1·7	1·3	257	31	2·6	2·3	129	31	2·4	2·2	125	31	3·5	2·8	133				
0·15 a. g.	29	4·6	2·8	304	31	3·7	2·4	261	31	6·8	6·3	139	31	5·5	4·9	131	31	4·2	2·9	128				
0·6 a. s. l.	29	4·1	2·8	280	31	3·9	2·4	267	31	4·6	4·1	129	31	3·8	3·4	121	31	4·2	3·2	127				
1·0 „	30	4·6	2·5	274	31	4·3	3·0	272	31	7·7	7·0	136	31	7·9	6·8	142	31	4·1	2·7	120				
1·5 „	30	4·7	3·5	273	31	4·4	3·1	285	31	5·6	3·4	129	30	5·5	3·9	141	31	3·5	1·9	129				
2·0 „	26	5·5	4·3	272	31	5·1	4·3	288	31	4·5	1·7	279	29	4·3	1·2	238	31	3·3	0·9	203				
2·5 „	25	5·9	5·3	277	25	6·9	6·5	288	31	5·1	3·7	273	29	5·2	2·6	263	31	4·7	2·5	241				
3·0 „	22	7·3	6·5	278	19	9·0	8·4	281	28	6·0	4·9	265	26	6·2	4·4	275	29	6·1	4·7	262				
4·0 „	12	8·1	7·5	278	9	12·6	12·2	282	12	7·8	7·2	261	22	8·5	7·6	272	22	7·9	7·2	270				
5·0 „	4	14·1	13·5	268	6	14·1	13·8	280	1	2·5	2·5	255	21	10·7	9·7	271	12	11·5	11·2	269				
6·0 „					3	23·7	22·3	278					19	12·6	10·8	278	10	15·0	14·1	261				
7·5 „													9	16·3	15·3	276	10	20·9	20·5	272				
9·0 „													1	11·0	11·0	280	8	24·2	23·9	267				

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level.

JANUARY 1947.

Station	JACOBABAD												JAMSHEDPUR											
Time I. S. T.	0100				0700				1600				0700				1600							
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	0·3	18	31	1·7	1·3	71	31	0·9	0·5	348	31	0·9	0·3	277	31	1·7	1·1	338				
0·15 a.g.	31	4·2	2·4	50	31	5·6	4·0	76	31	2·2	0·4	358	30	1·8	0·4	4	31	2·4	1·3	342				
0·6 a. s. l	31	3·0	1·1	102	31	3·7	2·1	93	31	2·1	0·1	270	31	3·3	1·0	44	30	2·3	1·2	333				
1·0 „	31	2·6	0·8	167	31	3·2	0·5	99	31	2·0	0·1	216	31	3·7	0·8	260	30	2·9	1·9	312				
1·5 „	31	3·4	0·7	247	31	3·1	0·8	288	31	3·3	0·6	263	29	5·0	3·7	275	31	4·9	4·0	293				
2·0 „	31	4·6	2·9	270	31	4·0	2·1	279	31	5·0	2·9	264	28	6·7	5·8	291	31	7·4	6·9	288				
2·5 „	13	4·5	3·0	292	31	5·5	3·7	279	31	6·3	4·5	279	27	8·1	7·5	290	30	9·3	9·0	293				
3·0 „	10	6·3	5·4	290	30	6·9	5·0	286	31	8·2	6·7	286	23	9·0	8·3	279	29	11·1	10·6	281				
4·0 „					26	9·6	7·6	276	27	11·3	10·4	282	20	11·6	10·8	275	21	13·5	13·0	266				
5·0 „					10	12·4	11·5	275	23	15·5	14·7	280	16	16·0	15·0	271	13	17·7	17·1	269				
6·0 „					3	16·3	16·3	280	13	16·0	14·8	280	8	20·4	20·1	274	7	22·2	21·8	269				
7·5 „									1	18·0	18·0	285					1	24·0	24·0	285				
9·0 „																								

Station	JHARSUGUDA												JHELUM											
Time I. S. T.	0100				0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·9	1·5	30	31	2·5	2·1	16	31	1·2	0·7	315	31	0·4	0·4	306	31	0·9	0·8	310	31	0·9	0·7	312
0·15 a. g.	30	4·9	3·7	65	30	6·1	5·3	45	30	2·2	1·1	304	29	4·8	4·4	319	30	5·2	4·7	317	30	2·7	2·2	302
0·6 a. s. l	30	4·2	1·4	87	29	4·9	2·4	83	30	2·1	0·9	297	29	4·8	4·2	325	30	5·1	4·1	327	30	2·7	2·0	308
1·0 „	29	3·4	0·3	220	28	3·7	0·7	234	30	2·9	1·7	277	29	3·7	2·6	330	30	4·2	2·5	333	30	3·1	1·1	331
1·5 „	28	4·3	2·6	288	27	5·0	2·9	280	30	5·2	4·4	287	29	3·0	0·6	306	30	3·5	1·2	349	29	3·4	0·6	34
2·0 „	26	6·4	5·4	292	26	7·0	6·0	293	30	7·7	7·1	295	29	3·5	0·4	205	29	4·5	0·5	72	28	3·7	0·6	82
2·5 „	22	8·9	7·9	277	26	9·2	8·3	287	30	3·4	8·8	289	29	1·4	0·1	262	29	4·4	0·9	135	28	3·7	0·3	153
3·0 „	16	9·2	7·9	273	25	10·0	9·2	286	29	10·2	9·7	278	27	4·7	0·9	326	29	4·8	1·3	169	28	3·8	1·1	231
4·0 „	4	15·3	14·9	273	23	11·2	10·3	278	24	12·9	12·2	270					29	6·0	2·1	251	28	5·4	3·6	256
5·0 „					19	16·9	15·9	281	21	18·3	17·4	271					28	9·5	6·7	265	25	9·4	7·8	272
6·0 „					16	21·3	20·2	273	18	23·4	22·2	269					23	12·7	10·6	275	22	13·1	12·0	283
7·5 „					10	27·9	26·2	266	7	29·4	28·3	263					13	20·0	18·3	271	12	21·9	20·3	273
9·0 „					3	32·2	31·9	261	2	36·3	36·2	277					6	20·7	20·3	259				

Table A.—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

JANUARY 1947

STATION.	JIWANI.												JODHPUR.											
Time I. S. T.					0 700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface					21	2·0	1·3	25	21	3·3	2·0	177	31	4·5	4·0	46	31	3·5	3·3	43	31	3·0	2·1	33
0·15 a. g.													31	8·2	7·7	61	31	7·5	6·4	80	31	4·0	2·7	29
0·6 a. s. l.					30	4·1	0·6	256	30	3·3	1·4	203	31	7·0	6·4	61	30	6·3	4·6	83	31	3·8	2·6	22
1·0 „					29	4·3	0·9	299	29	3·4	0·9	251	31	5·2	3·4	64	30	5·3	2·9	66	31	3·7	2·1	24
1·5 „					25	4·0	1·6	303	28	5·4	3·3	288	31	4·8	1·1	36	30	4·8	1·5	32	31	3·4	1·2	352
2·0 „					23	5·5	3·7	289	22	6·8	5·2	296	31	5·5	2·9	290	30	5·9	2·1	340	30	4·0	1·9	282
2·5 „					21	6·9	5·6	299	19	8·6	6·4	293	19	7·1	4·8	274	29	5·9	3·7	318	30	5·7	4·4	280
3·0 „					17	9·9	9·0	285	18	10·5	7·1	282	15	8·0	7·4	288	28	6·7	4·8	293	30	7·9	6·5	273
4·0 „																	22	11·7	8·0	281	27	12·9	11·7	277
5·0 „																	11	18·7	17·2	279	22	18·3	17·2	274
6·0 „					2	25·5	25·5	291	6	24·3	20·2	257					3	23·2	20·8	253	16	22·9	22·0	263
7·5 „																					5	34·5	27·0	256
9·0 „																								

STATION.	JUBBULPORE.								KARACHI.											
Time I. S. T.	0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·4	27	31	1·4	0·8	360	30	1·7	1·1	14	31	2·0	1·9	19	31	2·7	0·4	228
0·15 a. g.	27	4·1	2·9	70	31	3·2	1·7	15	30	5·2	2·7	7	31	5·7	4·8	35	30	4·1	0·4	132
0·6 a. s. l.	27	4·9	3·6	71	31	3·3	1·6	13	30	4·8	1·3	45	31	6·2	3·7	39	31	3·2	1·4	14
1·0 „	27	5·4	2·2	74	30	3·4	1·2	305	30	3·9	1·1	50	31	4·9	2·3	36	31	3·5	2·1	358
1·5 „	26	6·4	3·1	273	29	5·7	3·8	276	29	4·5	1·3	26	30	4·6	2·4	343	31	4·2	2·7	347
2·0 „	25	8·9	6·6	262	28	8·3	7·3	271	28	5·0	2·3	338	28	5·4	2·5	339	31	4·9	3·1	327
2·5 „	24	10·6	9·9	265	26	10·6	9·1	268	27	6·6	3·7	312	28	6·5	3·1	325	31	6·3	4·8	298
3·0 „	22	12·2	11·8	270	24	11·5	10·9	266	25	7·7	4·4	304	25	7·9	5·7	280	31	9·3	7·3	291
4·0 „	14	13·0	12·6	269	23	13·7	13·1	270					18	12·2	11·8	272	31	14·3	13·5	277
5·0 „	6	16·9	16·3	271	14	17·2	16·7	277					9	18·0	17·4	281	29	18·5	16·7	278
6·0 „	5	20·3	19·7	274	9	22·3	22·2	272									26	22·6	20·9	280
7·5 „	2	20·0	19·4	272	5	26·0	25·6	272									3	36·9	35·8	290
9·0 „	2	29·0	27·9	274	3	30·3	30·0	270												

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

JANUARY 1947

Station.	KHANPUR								LAHORE											
Time I. S. T.	0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	12	3·0	1·1	113	13	2·3	0·6	181	31	0·6	0·5	331	31	0·6	0·3	325	31	1·5	1·0	311
0·15 a. g.	12	5·7	3·9	126	13	2·7	0·3	82	31	5·9	4·5	336	30	4·9	3·5	320	30	3·7	2·8	320
0·6 a. s. l.	12	4·2	1·9	150	13	2·6	0·5	208	31	5·6	4·5	332	27	5·8	5·3	321	30	4·0	2·6	324
1·0 „	12	3·6	0·6	256	13	3·1	0·3	224	30	5·4	3·2	316	27	5·8	5·1	319	30	4·4	3·3	328
1·5 „	12	3·5	2·0	317	13	3·5	1·2	292	29	4·6	2·8	319	27	5·6	4·5	318	30	4·4	3·3	325
2·0 „	12	3·8	2·9	337	13	4·1	2·4	285	28	4·8	3·1	299	27	5·6	3·6	306	28	4·6	2·7	310
2·5 „	12	4·5	3·3	322	13	5·6	4·6	292	21	4·3	2·4	260	27	5·5	3·0	304	28	5·2	2·9	296
3·0 „	12	6·1	4·4	317	13	6·1	5·1	297	13	4·5	2·5	252	25	6·6	3·5	298	27	5·4	2·6	273
4·0 „	10	8·7	6·6	297	13	11·0	8·8	280	1	6·5	6·5	255	16	6·6	4·6	280	25	7·6	5·4	284
5·0 „	7	13·7	10·3	280	12	13·2	12·1	288					8	8·7	6·4	295	20	12·0	10·8	281
6·0 „	4	15·6	14 8	280	11	18·5	17·5	285					1	12·0	12·0	270	17	16·6	15·2	285
7·5 „					6	25·1	24·4	283									6	22·1	16·7	267
9·0 „																				

Station.	MADHOSAGAR												MADRAS											
Time I. S. T.	0100				0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	21	0·9	0·2	235	31	1·1	0·3	237	31	2·1	0·7	3	31	1·9	1·3	33	31	1·9	1·3	341	31	4·1	3·7	59
0·15 a. g.	31	4·9	2·4	46	31	4·7	1·9	25	30	3·1	1·1	21	28	5·9	5·2	57	31	4·2	3·1	30	31	5·2	4·5	60
0·6 a. s. l.	31	5·3	2·3	41	31	5·5	3·0	32	30	3·3	1·4	20	28	6·6	6·1	64	31	5·8	5·0	69	31	5·1	4·4	58
1·0 „	30	4·5	1·7	348	31	4·5	1·9	355	30	3·2	1·2	4	28	6·7	6·2	67	30	6·7	5·9	73	28	5·7	5·3	63
1·5 „	28	4·3	2·9	289	30	4·9	3·1	299	30	4·3	2·5	301	24	6·8	5·9	65	27	7·2	6·6	70	26	6·0	5·2	57
2·0 „	28	6·4	5·4	273	30	6·9	5·6	282	30	5·6	4·1	282	22	5·9	4·4	43	25	6·5	5·2	59	22	5·7	3·7	31
2·5 „	27	7·2	6·6	272	30	7·3	6·2	273	30	7·3	6·3	274	17	5·2	1·4	8	19	5·5	3·6	28	21	5·0	1·4	17
3·0 „	24	8·5	7·9	278	29	8·4	7·8	274	30	9·5	8·5	277	10	6·0	2·4	243	16	4·7	2·1	337	20	5·7	1·3	288
4·0 „	4	7·8	7·7	267	26	11·8	11·3	275	26	12·9	12·1	277	4	6·9	6·3	260	8	7·0	5·6	275	12	5·9	4·2	257
5·0 „					21	16·1	15·7	279	22	16·7	15·9	280					6	7·3	5·4	272	9	7·6	4·9	258
6·0 „					14	21·5	20·8	279	17	22·1	21·4	280					4	8·7	6·7	271	8	9·6	6·7	287
7·5 „					4	18·0	17·1	273	6	25·9	25·2	281					2	10·5	9·7	279	5	15·0	13·6	273
9·0 „					2	24·3	24·3	274	2	22·0	22·0	261					2	16·5	15·5	276	5	16·3	15·6	282

Table A.—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

JANUARY 1947

Station.	MALEGAON CAMP												MANGALORE											
Time I. S. T.	0100				0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	0·9	294	31	0·9	0·5	294	31	1·6	0·8	264	31	2·9	2·5	57	31	4·2	4·1	86	31	5·2	4·4	281
0·15 a. g.	31	4·6	2·0	33	31	3·6	1·7	63	31	3·6	1·3	240	31	3·7	3·0	12	31	5·9	5·5	83	31	5·5	4·8	284
0·6 a. s. l.	31	4·6	2·0	33	31	3·6	1·7	63	31	3·6	1·3	240	31	3·8	2·3	5	31	5·4	3·7	78	31	3·4	1·4	288
1·0 „	31	5·0	2·2	69	31	4·8	3·9	101	31	3·2	1·4	231	31	4·1	1·7	74	31	4·8	2·9	88	31	3·7	2·2	90
1·5 „	30	3·7	1·0	174	30	4·7	2·1	178	31	3·5	1·9	227	31	5·2	3·7	95	30	5·2	3·6	118	29	5·3	4·2	93
2·0 „	29	5·5	5·0	210	30	6·5	5·4	217	31	4·8	3·9	235	29	6·4	5·2	112	30	5·2	3·4	117	28	5·1	4·2	100
2·5 „	26	6·9	6·0	220	27	8·7	7·7	226	30	7·1	6·4	246	25	4·8	3·7	118	28	5·2	3·0	122	29	4·3	4·3	116
3·0 „	21	7·8	5·9	243	25	9·8	8·1	243	29	8·7	7·9	253	21	4·0	3·0	158	25	5·0	2·0	127	29	4·0	0·5	132
4·0 „	11	9·5	9·1	281	22	10·7	9·4	263	23	10·9	10·4	268	4	4·0	3·6	237	20	6·9	1·8	180	27	5·0	2·3	266
5·0 „					15	15·2	14·6	278	17	14·6	14·1	278					11	7·5	2·9	193	26	6·4	2·1	259
6·0 „					12	18·2	17·1	283	12	21·3	20·9	281					7	5·6	2·4	274	24	7·8	3·2	270
7·5 „					3	21·3	21·1	286	6	25·0	24·4	283					3	6·6	4·2	298	16	9·5	5·7	286
9·0 „									3	23·2	23·0	296					2	7·3	2·4	309	6	11·3	4·6	309

Station.	MASULIPATAM												MINICOY											
Time I. S. T.	0100				0700				1600				0700				1600							
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·1	1·0	86	31	0·5	0·5	52	31	2·6	2·5	111	31	1·2	0·9	58	31	2·1	1·4	58				
0·15 a. g.	31	5·7	5·2	100	31	5·7	5·2	74	31	4·9	4·6	112	31	3·5	2·8	51	31	3·9	2·9	50				
0·6 a. s. l.	31	6·3	5·9	102	31	6·2	5·9	103	31	5·1	4·1	89	31	4·1	3·4	72	31	4·1	3·2	55				
1·0 „	29	5·3	4·8	89	30	5·9	5·5	100	31	4·7	3·6	79	29	5·1	4·4	83	30	4·2	3·4	77				
1·5 „	26	4·8	3·8	68	29	5·4	3·9	83	31	4·2	2·9	62	29	5·5	5·1	84	30	4·8	4·0	81				
2·0 „	28	4·8	3·0	40	28	5·1	2·6	45	31	4·3	2·7	23	29	5·8	4·8	86	26	4·9	3·1	89				
2·5 „	19	4·9	2·7	316	26	4·8	1·8	326	31	4·7	2·8	321	25	5·8	3·6	96	23	5·5	1·8	90				
3·0 „	16	5·0	3·8	278	26	5·4	3·3	281	30	5·8	4·2	275	23	5·2	2·5	76	21	4·4	1·6	119				
4·0 „	6	6·7	4·7	263	20	8·0	6·8	263	29	7·7	6·7	269	20	4·8	2·3	100	15	4·3	0·7	104				
5·0 „					14	9·4	7·9	260	29	9·9	8·4	266	14	5·0	3·1	119	12	4·4	2·3	121				
6·0 „					9	12·3	10·3	274	28	12·5	10·7	270	10	6·6	4·4	83	6	6·0	1·6	184				
7·5 „					6	17·2	15·7	280	23	15·8	14·4	275	3	10·3	10·3	83	5	3·4	0·9	317				
9·0 „					1	14·0	14·0	255	19	20·2	18·3	258	1	4·0	4·0	50	3	9·3	2·9	339				

Table A—Monthly mean directions and velocities of upper wind.

Winds up to 9·0 km. above sea level

JANUARY 1947

Station.	MULTAN.												NAGERCOIL											
Time I. S. T.	0100				0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface. .	31	0·5	0·3	9	31	0·3	0·2	353	31	1·0	0·1	164	31	3·5	3·3	45	31	2·3	2·2	47	31	4·6	2·9	50
0·15 a g.	31	5·0	1·0	79	31	4·3	0·8	82	31	2·5	0·5	128	31	6·3	5·9	48	31	5·5	5·2	50	31	8·1	5·4	60
0·6 a. s. l.	31	4·2	0·4	111	31	3·9	0·7	11	31	2·4	0·5	66	31	7·8	7·4	41	31	7·3	7·1	43	31	6·7	5·2	48
1·0 „ .	31	3·7	0·8	253	31	3·3	0·7	326	31	2·5	0·5	338	31	9·1	8·7	42	31	8·1	7·3	47	30	6·8	6·3	43
1·5 „ .	31	4·7	1·7	292	31	3·1	1·0	321	31	3·0	1·3	273	31	8·2	7·8	53	31	7·7	7·3	58	30	7·2	6·7	38
2·0 „ .	31	5·3	3·0	294	31	3·8	1·9	295	31	3·9	2·8	273	31	6·2	4·7	70	31	6·2	4·9	71	30	7·5	5·3	48
2·5 „ .	30	6·2	4·3	291	31	4·7	2·9	293	31	5·4	4·4	283	29	5·2	2·2	99	31	5·7	2·8	88	28	6·7	3·2	71
3·0 „ .	29	7·4	5·2	292	31	6·8	5·7	287	30	6·8	5·9	286	26	5·5	2·5	100	31	6·1	2·1	94	28	5·9	2·5	85
4·0 „ .	15	9·3	8·2	292	27	9·2	8·3	282	28	10·1	9·2	282	15	5·3	2·2	40	29	5·0	2·3	94	25	5·0	2·1	65
5·0 „ .	1	11·0	11·0	285	25	14·3	13·1	282	27	14·2	13·3	282	3	7·2	6·7	72	24	5·3	1·6	86	25	4·8	2·2	76
6·0 „ .					18	16·8	16·2	280	23	17·4	16·0	276					19	6·3	2·4	101	24	7·2	3·0	96
7·5 „ .					8	21·2	20·3	281	11	23·9	22·3	275					17	6·0	1·3	38	16	6·7	4·2	61
9·0 „ .																	15	6·8	1·3	55	14	7·6	1·9	140

Station.	NAGPUR.												NEW DELHI.											
Time I. S. T.	0100				0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface. .	31	1·0	0·8	28	31	1·1	1·1	36	31	1·9	1·3	55	31	1·6	1·2	329	31	1·6	1·5	280	31	3·6	2·6	318
0·15 a. g.	28	7·4	5·8	64	31	5·7	4·7	50	29	3·2	1·5	57	31	6·0	3·6	341	31	5·5	3·5	307	31	4·5	3·3	325
0·6 a. s. l.	29	7·7	5·9	77	30	6·8	4·4	82	29	3·0	1·6	84	31	5·9	3·5	330	31	6·1	4·2	321	31	4·4	3·3	321
1·0 „ .	28	5·9	3·9	99	30	5·3	3·3	127	29	2·6	0·9	149	31	5·7	3·4	327	30	5·8	4·0	312	31	4·6	3·2	319
1·5 „ .	25	4·2	1·5	187	28	4·6	2·5	200	30	3·7	2·3	243	31	5·5	3·7	297	30	5·1	4·4	312	30	5·5	4·2	309
2·0 „ .	22	6·5	4·7	257	26	6·7	4·9	253	28	5·9	4·7	264	22	6·2	4·2	293	29	6·2	5·0	306	30	5·6	4·4	293
2·5 „ .	13	8·7	6·2	251	24	8·0	6·6	262	23	8·0	7·3	266	9	6·0	4·5	264	27	6·5	5·2	291	29	7·1	6·0	293
3·0 „ .	5	9·8	9·6	259	19	10·4	7·9	267	19	9·8	9·3	268	4	4·5	1·9	208	24	6·9	5·7	282	28	8·6	7·5	278
4·0 „ .					11	11·8	10·9	280	16	12·3	11·7	274					18	11·0	9·2	279	24	11·9	10·5	286
5·0 „ .					7	18·1	16·5	282	5	14·6	14·3	284					6	13·7	12·9	265	24	15·9	14·8	283
6·0 „ .					4	21·1	19·7	277	4	16·1	15·9	279					4	17·1	16·8	261	19	19·8	19·9	285
7·5 „ .					2	20·5	20·5	276	4	24·7	22·1	277									9	28·2	27·1	271
9·0 „ .					2	23·0	23·0	277	3	29·0	28·8	265									5	33·8	31·4	278

Table A.—Monthly Mean Directions and Velocities of Upper wind

Winds up to 9·0 km. above sea level

JANUARY 1947

Station	PESHAWAR												POONA											
Time I. S.T.	0100				0700				1600				0100				0700				1600			
Ht. in. km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·4	1·2	194	31	1·4	1·2	204	31	1·1	0·5	40	31	0·3	0·1	225	31	0·1	0·1	90	31	1·4	0·9	254
0·15 a. g.	31	1·8	0·2	330	30	2·3	1·0	183	29	1·8	0·9	51	31	3·1	1·4	271	31	2·4	0·8	149	30	3·5	2·1	235
0·6 a. s. l.	31	1·9	0·3	351	30	2·2	0·5	203	29	2·0	1·3	38	31	1·8	0·9	254	31	1·0	0·3	141	31	2·5	1·3	234
1·0 „	31	2·3	1·2	320	29	2·1	0·8	286	29	3·1	2·5	340	31	4·2	1·3	286	31	4·8	2·2	109	30	4·1	3·0	230
1·5 „	31	3·5	2·3	325	29	4·1	3·7	320	29	3·6	3·1	329	31	5·1	2·8	181	30	5·7	3·8	166	31	3·7	2·7	218
2·0 „	31	3·5	1·9	354	30	4·8	4·2	336	29	3·7	2·5	305	31	5·3	4·1	169	30	6·2	5·3	187	31	4·0	3·1	222
2·5 „	30	3·9	1·5	360	30	4·5	2·7	351	29	3·8	2·6	299	28	5·9	4·1	191	30	5·8	4·6	205	30	4·7	3·9	234
3·0 „	28	4·3	0·7	315	30	4·5	1·5	351	29	4·1	2·5	302	26	6·2	4·7	231	29	6·9	5·3	238	29	5·4	4·7	260
4·0 „	15	6·8	1·2	291	28	5·4	3·5	309	28	6·9	5·3	278	13	8·8	7·8	265	28	9·9	9·2	270	26	8·4	7·9	276
5·0 „	1	9·0	9·0	355	23	7·9	6·4	304	27	10·3	9·1	280					24	11·8	10·8	279	23	11·1	10·4	277
6·0 „					6	12·7	11·8	291	22	14·0	12·4	283					16	14·2	12·9	285	19	14·6	13·3	281
7·5 „					3	16·7	15·3	297	16	20·0	17·1	280					2	17·3	16·7	269	13	19·3	17·5	290
9·0 „									4	24·4	22·8	260									8	21·2	19·8	267

Station.	PORT BLAIR								QUETTA											
Time I. S. T.	0700				1600				0100				0700				1600			
Ht. in. km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·4	2·4	54	31	4·3	3·8	54	18	1·5	1·2	214	31	1·7	0·8	167	31	2·7	1·2	280
0·15 a. g.	31	6·2	4·9	51	31	6·8	5·4	54	16	2·1	1·0	281	29	2·6	1·0	200	28	4·3	2·0	287
0·6 a. s. l.	30	8·3	6·3	65	30	6·2	4·7	62												
1·0 „	28	8·0	6·1	87	27	5·8	4·2	77												
1·5 „	24	8·2	7·0	96	20	6·3	3·9	106												
2·0 „	19	7·2	5·6	100	16	6·5	3·6	96	15	3·0	1·7	292	29	3·3	1·8	200	28	3·9	1·9	281
2·5 „	15	7·3	4·4	107	11	6·6	4·2	68	15	6·1	4·7	283	28	4·9	3·3	255	28	4·9	3·2	276
3·0 „	14	6·6	3·5	124	4	4·5	1·9	70	15	10·0	8·9	290	25	7·9	6·4	284	25	7·4	5·7	278
4·0 „	8	4·2	1·3	129	2	5·3	2·7	97					23	11·1	9·7	286	18	11·9	10·2	279
5·0 „	7	6·1	1·5	115	2	3·5	1·3	10					13	13·5	12·0	232	13	16·7	15·0	289
6·0 „	6	4·8	3·6	274	2	3·0	0·9	331					1	16·5	16·5	270	5	19·4	18·5	273
7·5 „	1	9·0	9·0	170																
9·0 „	1	9·5	9·5	150																

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea leval

JANUARY 1947

STATION	RAIPUR												RAJSAMAND											
Time I. S. T.	0100				0700				1600				0100				0700				1600			
Ht. in. km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	1·0	0·6	47	31	1·4	1·1	42	31	1·1	0·8	347	31	2·2	2·0	12	31	2·1	1·7	349	31	1·5	0·6	73
0·15 a. g. .	30	6·1	4·7	65	31	4·6	4·0	68	31	3·0	1·6	330	30	5·3	4·3	66	30	3·4	1·8	21	30	3·0	1·7	65
0·6 a. s. l.	30	6·2	4·6	72	31	6·5	4·4	82	31	2·6	1·3	322												
1·0 „ .	30	3·9	1·1	109	31	5·0	2·1	116	31	3·0	1·3	354	30	5·3	4·3	84	30	4·9	3·1	99	30	3·1	1·5	72
1·5 „ .	25	4·2	2·4	276	28	4·6	2·2	268	30	4·4	3·2	287	31	3·8	1·4	127	29	4·2	0·9	114	30	3·5	0·8	355
2·0 „ .	23	7·5	6·5	278	27	7·7	6·0	284	28	7·0	6·0	289	30	4·1	2·3	244	29	4·4	1·7	262	31	4·6	2·5	278
2·5 „ .	19	9·6	8·8	267	24	9·7	9·1	285	26	8·7	8·1	286	30	6·3	5·3	263	29	6·1	4·5 5·4	271	31	5·8	4·6	271
3·0 „ .	13	9·0	7·6	264	20	9·4	8·6	278	21	9·4	8·5	278	27	8·4	7·7	265	28	6·8	5·7	270	30	8·0	6·8	269
4·0 „ .	1	10·5	10·5	290	14	10·7	9·8	279	16	11·8	10·4	272	5	9·0	8·6	269	25	11·2	10·1	274	27	11·8	10·9	273
5·0 „ .					6	13·9	13·6	278	12	12·3	11·6	276					18	15·1	14·4	279	25	14·5	13·9	276
6·0 „ .					4	15·1	14·7	274	9	16·1	15·3	279					4	20·9	20·7	285	24	19·6	18·8	280
7·5 „ .					1	20·0	20·0	260	4	19·8	19·5	264									10	28·0	27·1	283
9·0 „ .					1	28·0	28·0	240	1	24·0	24·0	275									2	26·3	24·9	282

STATION	SAHARSA								SHARJAH											
Time I. S. T.	0700				1600				0100				0700				1600			
Ht. in. km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	0·4	0·4	267	31	0·9	0·8	276	31	3·2	1·5	113	31	3·3	1·9	155	31	4·7	3·4	287
0·15 a. g. .	31	5·3	3·7	296	30	4·1	3·6	269	28	4·1	0·4	324	31	4·5	2·3	170	30	5·0	3·9	286
0·6 a. s. l.	30	4·7	3·5	296	30	4·4	4·0	273	29	4·2	1·9	275	31	4·1	1·7	261	29	4·4	2·7	250
1·0 „ .	30	4·6	2·8	280	30	5·4	4·5	286	31	4·5	3·0	255	31	4·9	2·9	273	30	4·6	2·5	238
1·5 „ .	30	5·7	4·0	283	29	6·2	5·4	293	31	5·5	3·8	256	31	6·0	4·6	262	30	5·7	3·8	259
2·0 „ .	27	7·4	6·5	283	28	7·5	7·0	287	30	7·0	5·5	261	30	7·4	6·0	272	30	6·7	5·3	271
2·5 „ .	25	8·0	7·6	290	23	10·3	9·9	288	24	7·4	6·5	281	30	8·1	7·4	276	30	7·8	6·7	281
3·0 „ .	24	10·6	10·3	287	29	12·1	11·7	288	21	8·7	8·0	284	29	9·9	8·8	281	29	9·7	8·6	280
4·0 „ .	15	15·2	13·6	278	26	15·2	14·8	280					21	13·3	12·0	279	25	12·6	11·4	278
5·0 „ .	6	17·1	16·1	270	17	19·3	18·9	280					10	14·5	14·1	278	18	14·6	13·8	281
0 „ .	2	25·7	25·5	280	12	22·4	22·0	273					5	22·4	22·1	271	12	19·7	18·9	274
5 „ .					3	29·2	29·2	270												
0 „ .					1	45·0	45·0	270												

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

January 1947

Station.	TEZPUR												TRICHINOPOLY											
Time I. S. T.	0100				0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·4	0·3	65	31	0·9	0·8	63	31	0·8	0·6	72	31	2·3	2·1	39	31	1·7	1·7	16	31	3·5	3·1	54
0·15 s. l.	30	5·1	4·2	67	31	4·6	3·6	68	31	3·2	2·4	69	31	7·3	6·9	53	31	6·0	5·8	27	31	5·1	4·8	56
0·6 s. l.	30	4·4	2·5	94	31	4·9	3·8	85	31	3·2	2·1	75	31	9·0	8·4	69	31	7·6	7·3	53	31	6·0	5·8	56
1·0 ,,	30	4·4	1·7	85	31	4·9	3·8	85	31	3·4	1·9	103	31	7·3	7·0	62	31	7·3	6·9	63	30	6·5	6·2	58
1·5 ,,	28	4·4	1·0	60	31	4·9	2·5	89	31	3·9	1·8	176	31	7·1	6·5	65	29	6·9	6·5	67	30	6·1	5·6	58
2·0 ,,	24	3·5	0·1	129	31	4·5	1·5	97	31	4·3	2·2	203	27	6·1	3·9	63	27	6·5	5·0	69	30	6·0	4·4	60
2·5 ,,	12	3·5	1·3	241	29	4·9	0·4	145	31	5·7	3·4	238	25	5·9	2·9	69	26	5·8	4·2	72	27	5·9	2·1	67
3·0 ,,	9	4·9	3·8	241	26	7·6	5·4	259	30	6·8	5·1	253	24	5·5	2·7	94	22	6·4	1·7	86	26	5·6	2·1	72
4·0 ,,					18	10·1	7·9	269	29	13·6	12·9	267	7	5·1	1·6	202	20	4·7	3·5	250	19	4·8	2·0	305
5·0 ,,					10	18·7	17·4	277	22	21·0	20·4	270	3	5·8	2·0	319	17	4·4	1·8	158	16	4·1	1·1	295
6·0 ,,					4	20·5	19·1	264	11	19·0	18·2	276					15	5·5	1·7	126	14	6·6	1·1	313
7·5 ,,									2	30·7	30·7	285					11	5·9	2·8	281	13	7·5	3·0	299
9·0 ,,																	10	7·3	5·1	283	9	8·9	1·9	4

Station.	TRIVANDRUM				VENGURLA																			
Time I. S. T.	0700				0100				0700				1600											
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	0·9	50	31	1·1	1·1	8	31	0·6	0·6	4	31	2·6	2·0	268								
0·15 s. l.	31	2·3	0·7	76	31	5·1	4·7	12	31	4·5	3·7	42	31	4·7	3·7	280								
0·6 s. l.	31	2·3	0·8	160	31	4·2	2·7	355	31	5·3	2·0	66	31	3·0	0·8	314								
1·0 ,,	31	2·9	1·9	86	31	4·2	0·7	161	31	5·3	1·1	140	31	3·6	0·7	100								
1·5 ,,	31	3·3	2·5	78	31	5·3	3·6	146	31	5·3	3·3	151	31	4·9	2·0	139								
2·0 ,,	31	3·5	1·6	86	26	5·5	4·3	144	31	5·1	3·9	155	30	5·3	3·0	151								
2·5 ,,	28	4·6	1·3	110	18	4·7	3·0	188	28	4·3	3·3	192	31	5·0	2·6	182								
3·0 ,,	27	5·5	1·9	110	14	5·2	3·9	241	27	4·5	2·6	237	31	5·1	2·6	255								
4·0 ,,	20	4·9	1·0	84	1	8·5	8·5	260	25	6·7	4·2	268	30	6·7	5·2	263								
5·0 ,,	14	5·0	1·2	82					18	7·9	5·0	276	29	8·3	6·2	263								
6·0 ,,	12	6·7	1·7	126					10	8·9	7·3	294	17	11·1	9·7	264								
7·5 ,,	7	6·8	3·1	45					3	9·5	8·8	284	12	14·3	11·7	286								
9·0 ,,	3	6·7	5·3	306					1	9·5	9·5	5	8	19·3	18·0	269								

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

JANUARY 1947

Station.	VERAVAL												VIZAGAPATAM											
Time I. S. T.	0100				0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	4·5	4·0	9	31	3·8	3·3	20	31	4·0	3·6	256	31	0·8	0·7	40	31	0·7	0·6	24	31	2·7	2·4	100
0·15 a. g. .	31	8·5	7·7	23	31	10·0	9·1	37	31	4·5	2·9	257	30	3·6	3·3	64	31	4·2	3·5	38	31	5·6	4·9	98
0·6 s. l. .	31	6·1	5·5	34	31	5·4	4·4	38	31	3·0	2·0	360	29	4·0	3·7	76	31	4·5	4·1	71	31	4·4	3·8	87
1·0 „ .	31	3·8	2·7	54	31	3·8	2·0	24	31	3·7	2·7	6	27	3·8	3·2	69	31	4·2	3·8	74	31	3·4	2·4	46
1·5 „ .	31	3·3	0·2	71	31	3·5	1·1	292	31	4·4	1·9	346	25	3·4	2·2	46	29	4·1	2·6	49	30	4·2	2·6	356
2·0 „ .	31	4·5	2·2	262	31	4·6	2·5	261	31	4·8	3·0	286	24	3·5	1·5	352	26	4·8	2·5	7	30	5·7	4·0	323
2·5 „ .	27	5·6	4·6	263	31	5·6	4·5	276	31	5·6	5·0	272	20	4·7	2·6	282	25	6·2	3·1	320	29	6·4	5·5	296
3·0 „ .	21	6·5	5·4	269	31	6·4	5·6	271	31	7·3	6·8	273	10	6·3	5·1	259	25	5·7	4·1	272	28	7·5	6·6	283
4·0 „ .	7	8·3	7·4	269	30	9·4	8·7	278	31	11·0	10·4	276	2	10·0	7·9	267	21	9·1	8·1	268	27	10·3	9·8	266
5·0 „ .					26	13·9	13·0	274	31	15·5	14·8	270					17	12·1	10·9	269	23	13·3	12·3	269
6·0 „ .					22	17·3	16·3	279	30	20·2	19·1	272					12	13·4	11·9	272	22	18·7	15·4	274
7·5 „ .					12	20·3	18·8	282	22	26·5	24·5	271					3	20·8	18·0	275	9	18·9	17·9	275
9·0 „ .					3	22·5	22·5	265	13	34·0	31·3	263									2	27·5	27·5	279

Table B—Monthly mean directions and velocities of upper winds

Winds above 9·0 km. above sea level

JANUARY 1947

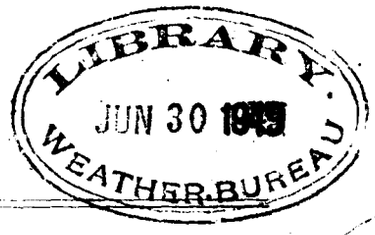
Time.	1600					1600					1600					1600			
Ht. in km.	n	V	v	D	Ht. in km.	n	V	v	D	Ht. in km.	n	V	v	D	Ht. in km.	n	V	v	D
	AGRA					COCHIN (*contd.*)					MADRAS (*contd.*)					NAGERCOIL (*contd.*)			
10·0	1	22·0	22·0	265	16·0	2	8·7	8·7	259	13·0	2	15·3	15·1	307	12·0	9	9·7	5·1	190
11·0	1	28·5	28·5	265	17·0	2	10·5	10·5	259	14·0	1	23·5	23·5	291	13·0	7	13·6	7·0	196
	AMBALA				18·0	1	14·0	14·0	250		MALEGAON (CAMP)				14·0	5	11·5	6·2	173
10·0	4	32·3	31·5	285		CUTTACK				10·0	1	24·5	24·5	290		POONA			
11·0	1	41·0	41·0	280	10·0	2	35·5	35·5	255		MANGALORE				10·0	1	38·0	38·0	270
	ANANTAPUR				11·0	1	44·0	44·0	255	10·0	2	14·5	14·5	264		RAJSAMAND			
10·0	7	19·9	18·7	260		DROSH				11·0	1	6·5	6·5	245	10·0	2	29·3	28·5	288
11·0	5	28·0	26·0	250	10·0	5	22·2	21·0	286		MASULIPATAM					TRICHINOPOLY			
12·0	2	11·5	10·7	224	11·0	2	21·7	21·6	282	10·0	11	22·4	21·2	258	10·0	5	11·3	8·6	302
13·0	2	17·7	15·9	221	12·0	1	15·0	15·0	250	11·0	7	21·7	20·7	252	11·0	2	3·0	2·0	290
14·0	1	13·0	13·0	200		GADAG				12·0	5	18·0	17·4	250	12·0	1	1·5	1·5	78
15·0	1	12·0	12·0	205	10·0	1	34·5	34·5	265	13·0	1	19·0	19·0	245	13·0	1	12·5	12·5	25
	CHHOR					GOPALPUR					MINICOY					VENGURLA			
10·0	1	52·0	52·0	290	10·0	1	24·0	24·0	270	10·0	3	12·0	2·0	203	10·0	7	22·9	20·9	272
	COCHIN					HYDERABAD (DN.) (Begumpet.)				11·0	2	12·7	11·3	333	11·0	1	34·0	34·0	265
10·0	14	9·1	2·5	244	10·0	1	31·0	31·0	250	12·0	2	10·0	8·3	319		VERAVAL			
11·0	9	10·3	3·1	238	11·0	1	20·0	20·0	220	13·0	2	11·7	10·9	275	10·0	5	38·1	36·9	260
12·0	6	13·5	7·9	258		MADRAS				14·0	1	17·5	17·5	255	11·0	2	23·3	23·0	264
13·0	5	15·7	11·1	280	10·0	3	15·8	15·3	292		NAGERCOIL				12·0	2	23·5	23·5	261
14·0	4	17·0	14·9	271	11·0	3	26·5	23·2	292	10·0	11	7·0	1·6	138	13·0	1	24·0	24·0	255
15·0	2	13·5	13·5	259	12·0	2	17·6	16·7	307	11·0	11	9·3	4·2	168	14·0	1	31·0	31·0	265
															15·0	1	22·0	22·0	230

Registered No. B-3097

INDIAN WEATHER REVIEW, 1947

Monthly Weather Report

February



[redacted]d by authority of the Government of India

Chief Features :— [redacted]stern disturbances; (2) A depression in the Bay of Bengal.

The first western d[redacted] of February entered the Punjab on the 3rd and after persisting there for two days move[redacted]rtheastwards across the east Punjab hills. It was responsible for local to widespread p[redacted]n in northeast Baluchistan, the North-West Frontier Province and the Punjab from the [redacted]rd to 6th and in Kashmir on the 5th. Immediately in its wake another disturbance began affecting Baluchistan on the 6th and while moving across the Punjab and the United Provinces as a low pressure area gave widespread thundershowers in the east and north Punjab and the west United Provinces on the 8th and local showers in the United Provinces, Bihar and Chota Nagpur on the 9th. The third and fourth western disturbances were feeble and did not give any precipitation. The next disturbance was active and moved across the northwest frontier and the Punjab between the 21st and 23rd. It induced a low pressure area over the Punjab on the 23rd which moved away eastwards across the United Provinces and Bihar. In association with these, widespread or local rain fell in Kashmir, the east and north Punjab, the United Provinces, east Central India and the west Central Provinces between the 23rd and 24th. The last western disturbance of the month gave local showers in Baluchistan on the 27th and in Kashmir on the 28th. Outside northwest India, weather was generally dry during the first two weeks of the month except for scattered thundershowers in the south Peninsula and Assam on some days.

In association with the eastward passage of two low pressure areas, one forming off Kathiawar on the 13th and the other over north Hyderabad on the 15th, local to widespread thunder-rain fell in east Central India, the east United Provinces and the north Central Provinces during the first half of the third week and later extended into northeast India. Thunderstorms accompanied by hail occurred on the 18th in Balaghat and Betul districts of the Central Provinces and caused some damage to crops. Local thundershowers also occurred in southeast Madras and Malabar towards the end of the third week.

Weather became disturbed in the south Bay of Bengal on the 23rd and a depression formed with its centre near Lat. 7°N., Long. 88°E. on the 24th morning. The depression, after an initial northwesterly movement curved northeastwards. It weakened rapidly and moved to the northeast Bay as a low pressure wave by the 27th, without causing much precipitation in the coastal districts in its neighbourhood. During the last week of the month scattered thundershowers occurred in south Malabar and the south Deccan on two or three days while the rest of the Peninsula and northeast India were dry.

The total rainfall of the month was in large excess in the Bay Islands, the west Central Provinces, north Hyderabad and Malabar and in slight to moderate excess in east Central India, south Hyderabad, Mysore and southeast Madras. It was normal in Orissa, the west United Provinces, the North-West Frontier Province and Baluchistan and in slight to moderate defect in Chota Nagpur, the Punjab, Kashmir, east Rajputana, Berar, the east Central Provinces, the Madras Deccan and the north Madras coast. It was in large defect elsewhere except in Gujarat where no rain fell. Averaged over the plains of India, the month's rainfall was 26 per cent in defect.

The mean maximum temperature was above normal in Assam, Bihar, the east United Provinces, the Punjab, Sind and west Rajputana, and below normal in southeast Madras and the north Madras coast. The mean minimum temperature was above normal in Berar and north Hyderabad and below normal in east Central India. Elsewhere it was normal. The mean relative humidity was in excess in Central India, Berar, the west Central Provinces, the Deccan and Mysore and in defect in Bengal, Kashmir, the North-West Frontier Province and west Rajputana.

The mean cloud amount was in excess in the Bay Islands, west Central India, Berar, the Central Provinces, the Bombay Deccan, south Hyderabad, Mysore, Malabar and southeast Madras and in defect in Assam, Bengal, Bihar, the southwest Punjab, the North-West Frontier Province, Rajputana, east Central India and the Konkan.

N. B.—**The Indian Standard Time used in this publication is 5 hours and 30 minutes in advance of G. M. T.**

POONA No. 5:
The 28th April 1947.

S. BASU,
for Director-General of Observatories.

	RAINFALL.				DEPARTURE FROM NORMAL OF				
							8 hrs. I. S. T.s		
	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 ...	0·26	1·45	−1·19	− 82	+3·1	−0·1	−0·3	− 5	−1·3
Bengal ...	0·15	0·97	−0·82	− 85	+1·9	+0·1	−1·0	− 6	−0·9
Orissa ...	0·97	1·01	−0·04	− 4	+0·1	−0·7	−0·3	+ 3	0
Bihar ...	0·57	1·01	−0·44	− 44	+1·5	−0·5	−0·4	0	−0·3
United Provinces.	0·33	0·88	−0·25	− 28	+2·0	0	0	+ 2	−0·1
Punjab ...	0·52	0·83	−0·31	− 37	+2·8	−0·3	−0·5	+ 3	−0·7
North-West Frontier Province.	1·31	1·23	+0·08	+ 7	+1·7	−0·2	−0·8	−15	−1·0
Sind ...	0·04	0·33	−0·29	− 88	+3·2	−1·3	−0·5	+ 1	0
Sub-division									
Bay Islands ...	4·37	1·11	+ 3·26	+294	+0·9	+1·5	+1·4	+ 3	+1·3
Assam ...	0·26	1·45	− 1·19	− 82	+3·1	−0·1	−0·3	− 5	−1·3
Bengal ...	0·15	0·97	− 0·82	− 85	+1·9	+0·1	−1·0	− 6	−0·9
Orissa ...	0·97	1·01	− 0·04	− 4	+0·1	−0·7	−0·3	+ 3	0
Chota Nagpur ...	1·04	1·55	− 0·51	− 33	+0·1	−0·7	+0·2	+ 3	+0·3
Bihar ...	0·34	0·74	− 0·40	− 54	+2·6	−0·3	−1·0	− 1	−0·7
United Provinces, East.	0·32	0·73	− 0·41	− 56	+2·3	0	−0·1	+ 1	−0·4
Do. do. West.	0·94	1·03	− 0·09	− 9	+1·6	0	+0·2	+ 4	+0·2
Punjab, East and North.	0·67	1·23	− 0·56	− 46	+3·0	−0·3	−0·1	+ 5	−0·6
Do. Southwest.	0·39	0·49	− 0·10	− 20	+2·7	−0·2	−0·9	+ 1	−0·8
Kashmir ...	1·95	3·53	− 1·58	− 45	−0·3	−0·2	−0·6	− 9	−0·9
North-West Frontier Province.	1·31	1·23	+ 0·08	+ 7	+1·7	−0·2	−0·3	−15	−1·0
Baluchistan ...	1·16	1·19	− 0·03	− 3	+1·7	−1·3	−0·6	− 2	−0·5
Sind ...	0·04	0·33	− 0·29	− 88	+3·2	−1·3	−0·5	+ 1	0
Rajputana, West.	0·14	0·42	− 0·28	− 67	+2·9	−1·0	−1·0	− 7	−1·5
Rajputana, East.	0·11	0·20	− 0·09	− 45	+1·0	−0·5	+0·5	+ 5	−0·5
Gujarat ...	0	0·11	− 0·11	−100	+1·8	+0·3	−1·0	− 1	+0·1

	RAINFALL.				DEPARTURE FROM NORMAL OF				
							8 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.	%	
9. Rajputana ...	0·13	0·31	−0·18	− 58	+1·8	−0·7	−0·1	0	−1·0
10. Bombay ...	0·01	0·09	−0·08	− 89	+1·0	+0·9	+0·6	+ 4	+0·3
11. Central India ...	0·46	0·43	+0·03	+ 7	+0·4	−0·6	+0·7	+12	0
12. Central Provinces and Berar.	0·76	0·70	+0·06	+ 9	−0·4	+1·4	+1·7	+ 8	+0·8
13. Hyderabad ...	0·71	0·37	+0·34	+ 92	−0·3	+2·3	+2·3	+ 9	+0·5
14. Mysore ...	0·25	0·18	+0·07	+ 39	−1·9	+1·0	+1·3	+ 9	+1·9
15. Madras ...	0·66	0·50	+0·16	+ 32	−1·7	+0·7	+0·4	+ 2	+0·9
Mean of India ...	0·46	0·62	−0·16	−26	+1·0	+0·2	+0·3	+ 3	0
Sub-division—*contd.*									
18. Central India, West.	0·06	0·16	− 0·10	− 63	+0·5	+0·4	+0·7	+ 8	+0·4
19. Do. do. East.	1·00	0·78	+ 0·22	+ 28	+0·2	−2·0	+0·9	+16	−0·6
20. Berar ...	0·30	0·37	− 0·07	− 19	−0·7	+2·5	+2·7	+13	+0·7
21. Central Provinces, West.	0·88	0·54	+ 0·34	+ 63	−0·8	+1·1	+1·9	+10	+1·0
22. Do. do. East.	0·79	1·02	− 0·23	− 23	+0·2	+1·3	+0·9	+ 5	+0·6
23. Konkan ...	0·01	0·04	− 0·03	− 75	+1·4	+0·2	+1·2	+ 3	−0·3
24. Bombay Deccan...	0·02	0·09	− 0·07	− 78	0	+1·9	+2·2	+10	+0·7
25. Hyderabad, North	0·93	0·37	+ 0·56	+151	−0·4	+2·7	+2·2	+ 9	+0·1
26. Do. South	0·49	0·37	+ 0·12	+ 32	−0·2	+1·9	+2·4	+ 8	+0·8
27. Mysore ...	0·25	0·18	+ 0·07	+ 39	−1·9	+1·0	+1·3	+ 9	+1·9
28. Malabar ...	1·34	0·45	+ 0·89	+198	−0·2	+0·4	+1·4	+ 3	+1·9
29. Madras, Southeast	0·68	0·59	+ 0·09	+ 15	−2·0	+1·8	+0·2	+ 1	+1·0
30. Do. Deccan...	0·22	0·32	− 0·10	− 31	−1·5	+0·9	+1·4	+ 6	+0·4
31. Do. Coast, North	0·43	0·53	− 0·10	− 19	−2·1	−0·4	−0·5	+ 1	+0·3

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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
Bay Islands																					
Port Blair ...	261	1003·6	− 0·8	1000·7	86·4	+ 0·9	90	21	72·0	+1·5	66	15	80·5	80·3	75·0	74·5	27·2	+1·4	26·4	77	+
Assam																					
Dibrugarh ...	348	1003·4	− 0·6	998·9	77·6	+ 4·6	83	28	54·7	0	48	1, 4	61·8	70·1	58·2	62·7	15·0	−0·6	16·1	80	−
Sibsagar (*R*) ...	317																				
Tezpur ...	258	1006·6	− 0·7	1001·6	80·0	+ 3·6	86	28	55·9	−0·1	51	11	63·2	74·3	58·9	64·2	15·0	−0·4	15·9	76	−
Gauhati ...	182	1008·7	− 0·8	1004·1	81·3	+ 3·3	87	25	58·7	−0·1	48	11	63·1	77·0	58·8	63·8	14·9	−0·3	14·3	77	−
Dhubri ...	115	1011·2	− 0·2	1007·3	79·2	+ 2·2	86	26	56·7	+0·5	52	20	62·6	77·1	58·7	62·6	15·1	+0·1	12·8	78	+
Silchar ...	96	1011·8	− 0·7	1007·3	83·5	+ 2·9	89	27, 28	56·7	+1·0	52	13, 14	62·4	79·1	59·2	64·8	15·9	−0·5	14·3	82	+
Srimangal ...	69	1012·1	− 0·6	1008·4	83·8	+ 1·1	90	27	50·8	−1·1	45	14	61·2	79·3	58·2	64·9	15·2	−0·3	14·4	83	+
Bengal																					
Cox's Bazar ...	38	1012·8	− 0·5	1009·8	83·9	+ 1·8	90	19	59·9	+0·4	53	1	68·5	77·8	63·6	68·5	18·1	−0·1	19·5	76	+
Chittagong ...	87	1011·2	− 1·1	1007·8	84·5	+ 2·2	89	27, 28	59·7	+1·0	53	1	67·4	77·7	61·5	66·4	15·9	−1·2	16·9	70	−
Noakhali ...	22	1013·8	− 0·5	1010·5	84·0	+ 2·9	89	28	61·5	−0·4	55	4 days	67·2	80·6	62·8	67·1	17·5	−1·0	16·5	78	
Comilla ...	29	1013·5	− 0·7	1009·9	84·7	+ 2·5	89	27	57·9	+0·4	51	2	66·8	81·8	61·9	65·9	16·7	−0·8	14·5	75	−
Brahmanbaria ...	32	1013·5		1009·6	83·8	+ 1·1	89	26, 27	57·5	+2·9	53	1, 2	66·9	78·2	61·5	65·1	16·2	+0·4	15·2	72	+
Narayanganj (*R*) ...	26																				
Mymensingh ...	62	1012·9	− 0·2	1009·0	83·8	+ 4·2	89	26, 27, 28	56·4	−0·3	51	14	63·5	80·5	59·4	66·1	15·5	+0·1	15·3	77	−
Faridpur ...	27	1013·4	− 0·4	1009·8	79·4	− 0·7	86	26, 27	55·6	−0·6	48	2	69·0	78·6	62·2	66·1	15·9	−0·7	16·2	68	−1
Barisal (*R*) ...	11																				
Khulna ...	16	1014·3	− 0·2	1010·9	86·0	+ 3·0	91	27, 28	59·1	−0·7	51	2	69·6	79·7	62·0	65·9	15·6	−1·2	15·4	64	−
Jessore ...	26	1013·6	− 0·7	1010·5	82·8	+ 1·0	38	26, 27	58·9	−1·6	45	1	65·2	77·7	60·4	64·7	15·7	−0·9	15·0	75	−
Satkhira ...	16	1014·0	− 0·3	1010·5	84·2	− 0·3	89	5 days	56·3	−2·0	48	1, 2	66·2	81·5	60·9	66·7	15·8	−1·5	15·5	72	−
Dum Dum ...	38	1013·4		1010·1	84·4		90	28	59·1		50	1	65·7	81·4	59·6	65·2	14·7		14·0	69	
Calcutta ...	21	1014·1	− 0·2	1010·3	85·2	+ 1·5	90	4 days	60·8	+1·4	52	1	64·4	80·1	60·0	65·7	15·7	−1·3	15·0	77	−
Saugor Island ...	10	1014·0	− 0·5	1010·8	81·3	+ 0·7	87	27	66·0	+1·4	56	1	72·3	76·6	66·5	67·9	19·5	−1·3	19·5	72	−
Sandheads ...	28	1013·8	− 0·3	1010·9									75·4	78·2	71·0	70·6	23·9	+1·4	22·1	79	+
Midnapore ...	149	1009·8	0	1005·5	84·9	− 0·5	91	10	61·0	−0·2	52	1	68·7	83·3	59·5	64·3	13·3	−2·0	11·9	56	−1
Burdwan ...	106	1011·3	− 0·1	1007·2	84·7	+ 1·4	92	28	58·9	+0·4	51	1	66·5	81·7	58·8	63·7	13·5	−1·3	12·0	61	−
Krishnagar ...	48	1012·8	− 0·7	1009·4	85·5	+ 2·8	92	25	55·3	−0·4	46	1	62·6	81·3	57·9	64·5	14·3	−0·9	13·0	74	−
Asansol (*R*) ...	414																				
Berhampore ...	62	1012·6	− 0·4	1008·7	84·7	+ 3·2	93	25	56·2	−0·8	50	1, 2	66·1	80·1	59·0	63·4	13·9	−0·8	12·4	63	−1
Bogra ...	63	1012·3	− 0·4	1008·4	83·7	+ 3·4	91	25, 27	55·1	+0·2	49	2, 14	64·6	79·3	58·7	63·2	11·9	−2·7	12·5	69	−
Malda ...	103	1011·3	− 0·4	1007·4	81·5	+ 2·2	89	25	54·2	+0·1	49	1, 2	65·2	78·0	57·8	62·7	13·0	−1·1	12·4	62	−1
Dinajpur ...	123	1010·3	− 0·2	1006·5	84·4	+ 5·1	91	25	52·6	−0·7	47	13	64·3	80·2	57·4	62·6	13·0	−0·9	11·5	65	−1
Jalpaiguri ...	271	1004·8	− 0·7	1000·9	79·7	+ 2·8	85	24, 26, 28	54·5	+0·7	50	11	57·6	77·9	55·5	62·8	14·1	−0·4	12·7	87	+
Orissa																					
Balasore (*R*) ...	65																				
Chandbali ...	20	1014·0	− 0·1	1010·8	85·8	+ 0·7	93	9	62·3	−1·4	55	4 days	67·9	79·4	64·8	67·6	19·6	−0·5	17·6	84	+
Puri ...	20	1013·9	− 0·1	1010·8	83·5	+ 0·6	87	27	68·3	−0·8	60	3	72·5	79·6	67·3	70·9	20·6	−1·7	22·0	75	−
Gopalpur ...	56	1012·7	0	1009·5	88·8	+ 0·3	89	28	65·3	−1·9	59	2, 3, 4	71·9	79·1	67·7	73·9	21·3	+0·6	26·3	79	+
Cuttack ...	87	1011·3	− 0·7	1007·8	88·3	+ 0·1	92	8, 12, 13	65·0	+0·2	56	2	68·3	84·5	64·8	67·5	19·4	−0·1	15·3	81	+
Angul ...	455	999·0	+ 0·3	995·5	86·3	− 0·5	91	9, 14	61·1	−0·2	52	1, 2, 3	67·0	83·4	61·7	66·2	16·3	0	14·3	72	+
Sambalpur ...	486	997·6	− 0·3	994·1	85·9	− 0·4	93	15	59·3	−0·1	48	2	63·7	83·5	59·4	64·8	15·3	+0·1	12·6	76	+
Chota Nagpur																					
Jamshedpur ...	423	1000·3	+ 0·2	996·2	84·2	+ 0·9	90	8, 14, 15	57·8	+0·1	48	1	63·2	82·2	57·7	63·4	13·8	−1·0	11·3	71	−
Chaibasa ...	742	989·1	+ 0·2	985·0	84·1	+ 0·3	90	15, 25	57·9	+0·5	49	1	62·5	81·6	59·4	69·3	15·9	+1·2	18·7	82	+
Ranchi ...	2,150	940·4	− 0·2	937·9	76·0	− 0·9	82	8	52·8	−2·2	45	1	58·9	75·1	52·8	58·8	11·0	+0·4	9·5	66	+
Hazaribagh ...	2,006	945·6	+ 0·3	943·0	76·8	− 0·3	84	25	52·5	−1·7	45	1	60·2	72·4	52·8	56·7	10·3	−0·1	8·7	61	−
Daltonganj ...	725	989·8	− 0·1	986·2	80·3	+ 0·4	86	8, 24	51·8	−0·1	43	1	58·6	77·7	55·0	61·2	13·2	+0·6	11·0	78	+
Dhanbad ...	839	984·9			77·5		83	24	57·2		49	1	64·7		55·2		10·7			52	
Bihar																					
Purnea ...	124	1010·2	− 0·5	1006·6	81·6	+ 2·7	90	25	51·2	−0·4	47	1	59·2	76·9	55·2	62·8	13·1	−0·5	13·2	77	−
Darbhanga ...	161	1009·8	− 0·2	1005·6	80·1	+ 2·2	88	25	52·6	−0·3	48	1	57·8	78·0	54·5	63·2	12·9	−1·0	12·9	80	+
Motihari (*R*) ...	218																				
Patna ...	173	1009·4	− 0·7	1005·2	80·8	+ 3·0	87	4 days	54·8	0	50	1, 12	61·4	77·1	54·8	61·8	11·7	−1·1	11·9	63	−
Dehri ...		1009·6		998·9	80·7		88	5	57·0		50	1	61·4	78·2	56·6	60·8	13·4		10·3	73	
Gaya ...	365	1002·2	0	998·8	81·4	+2·0	87	14, 24, 25	53·4	+0·5	46	1	60·3	77·8	54·6	60·4	11·1	−0·3	10·1	68	+
Naya Dumka ...	489	997·8	− 0·1	994·1	83·6	+ 3·1	91	25	55·4	−0·3	49	1	62·9	80·2	55·3	62·1	11·5	−1·7	10·9	59	−
Sabour ...	122	1010·2	− 0·2	1006·8	81·0	+ 2·8	92	25	50·0	−1·5	44	1, 2	60·8	76·2	55·8	64·5	12·0	−1·3	15·5	72	−1

(*R*)—Register not received.

Cloud amount (tenths of sky).		Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																	STATION.
										8 hrs. I. S. T.										17 hrs. I. S. T.									
Departure from normal.	Mean 17 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
																												U. P., East
− 0·8	2·2	0·15	− 0·76	0·07	9	0	− 2·3	2·7	− 0·4	1	0	4	1	0	0	17	0	5	0	0	3	0	0	0	20	9	2	Gonda
+ 0·1	2·4	0·37	− 0·26	0·30	9	1	− 0·8	2·2	+ 0·5	0	1	0	0	1	5	6	0	15	2	0	1	2	0	5	12	3	3	Gorakhpur
− 1·2	1·8	0·69	− 0·02	0·46	15	2	+ 0·1	4·4	+ 1·6	1	1	1	1	2	13	4	0	5	0	1	2	0	3	2	18	3	2	Banaras
− 0·3	2·7	0·42	− 0·21	0·12	15	2	+ 0·3	2·7	− 0·5	0	0	0	1	3	7	5	0	12	3	0	3	0	1	1	16	4	0	Allahabad (Bamrauli)
− 0·6	2·4	0·32	− 0·39	0·23	16	1	− 1·4	2·0	− 0·6	0	0	1	1	1	1	4	3	17	0	1	0	0	0	0	6	13	8	Fatehpur
+ 0·3	2·5	0·26	− 0·40	0·16	16	2	+ 0·4	5·9	+ 1·8	1	1	3	0	2	9	5	2	5	5	2	1	0	0	0	9	10	1	Kanpur
− 0·6	2·0	0·08	− 0·64	0·05	16	0	− 1·6	1·6	− 0·1	0	0	1	0	0	1	11	1	14	2	0	2	0	0	0	13	3	8	Lucknow
− 0·3	2·2	0·30	− 0·61	0·25	9	1	− 1·0	2·2	+ 0·6	1	0	2	1	0	2	3	5	14	0	0	1	1	0	5	6	2	13	Bahraich
																												U. P., West
− 0·4	1·9	0·40	− 0·05	0·31	8	1	− 0·1	1·9	− 0·8	2	1	0	1	2	3	5	0	14	0	0	1	0	0	2	10	13	2	Jhansi
− 0·4	2·5	0·20	− 0·29	0·15	15	1	− 0·1	2·0	− 1·2	2	1	1	0	1	0	4	1	18	3	1	2	1	0	1	4	8	8	Agra
J	2·8	0·27	− 0·27	0·11	8, 15	2	+ 0·8	2·9	+ 1·2	0	1	1	1	2	6	11	5	1	1	1	1	1	1	1	13	8	1	Mainpuri
+ 0·2	2·5	0·25	− 0·51	0·25	8	1	− 1·1	3·7	+ 0·2	2	0	2	1	0	0	13	1	9	1	0	1	2	1	1	3	16	3	Aligarh
+ 0·9	4·2	0·75	− 0·22	0·70	9	1	− 0·9	2·8	+ 0·8	2	2	3	0	0	3	7	5	6	1	1	0	0	0	3	9	7	7	Bareilly
− 0·5	3·2	1·86	+ 0·34	0·72	9	5	+ 2·2	2·4	+ 0·2	3	1	1	2	0	1	3	8	9	1	1	1	3	0	2	3	13	4	Roorkee
+ 1·6	2·9	2·76	+ 0·29	0·88	24	4	+ 0·2	1·9	+ 0·2	4	5	0	0	0	0	3	1	15	1	0	1	0	2	7	11	1	5	Dehra Dun
																												Punjab, E. and N.
+ 0·3	3·9	0·35	− 4·8	0·18	8	2	+ 0·3	5·6		3	0	1	1	0	4	10	3	6	3	0	3	2	0	0	3	16	1	New Delhi
− 0·7	2·7	0·41	− 0·13	0·33	8	1	− 0·2	4·3	+ 0·4	2	1	1	4	1	9	6	2	2	3	2	1	0	1	0	2	16	2	Hissar
− 1·6	2·5	0·96	− 0·91	0·75	8	2	− 1·1			0	1	0	6	0	0	0	17	4	0	0	0	7	0	0	0	19	3	Ambala
− 1·2	3·1	1·05	− 0·30	0·35	23	3	+ 0·3	1·5	− 0·2	1	2	1	0	3	1	7	4	9	1	6	1	2	1	2	3	13	0	Ludhiana
− 0·7	4·1	0·44	− 0·53	0·24	8	1	− 1·1	2·9	− 1·2	3	2	1	1	0	0	3	4	14	1	0	0	0	0	2	7	17	1	Lahore
+ 0·1	3·1	0·77	− 0·90	0·40	6	3	0	1·9	+ 0·5	1	3	4	3	0	1	0	16	6	0	16	2	0	0	3	1	5	1	Sialkot
− 0·5	5·8	1·09	− 1·39	0·60	5	4	− 0·4	3·8	+ 1·2	3	2	1	0	0	2	3	2	15	0	3	1	0	1	6	12	4	1	Rawalpindi
																												Punjab, Southwest
− 1·8	3·5	0·68	− 0·24	0·42	4	2	− 0·1	3·2	+ 0·1	4	2	1	0	3	2	6	3	7	3	5	1	2	0	3	6	3	3	Khushab
− 2·5	4·5	0·46	− 0·11	0·25	8	2	+ 0·4	1·5	− 0·4	2	1	1	0	0	1	3	2	18	1	1	1	1	1	2	12	5	4	Lyallpur
− 0·6	4·0	0·46	− 0·04	0·13	5	1	− 0·5	1·4	− 1·4	2	0	0	1	1	1	1	2	20	1	5	0	3	1	4	3	5	6	Montgomery
	3·5	0		0		0		3·7		3	3	1	1	1	0	5	7	7	4	0	2	2	1	5	6	8	0	Leiah
+ 0·3	3·4	0·25	− 0·13	0·15	8	2	+ 0·7	2·4	+ 0·9	14	0	0	0	3	1	1	1	8	5	1	4	2	7	1	2	2	4	Multan
	3·1	0·37		0·37	8	1		4·4		3	2	10	4	1	0	3	1	4	9	5	2	0	2	4	2	4	0	Fort Abbas
− 0·5	2·8	0·27	+ 0·01	0·22	8	1	+ 0·2	2·6	+ 0·1	6	3	7	4	3	0	0	1	4	1	6	3	2	0	4	3	4	5	Bahawalpur
+ 0·1	2·6	0·24	− 0·05	0·14	8	2	+ 1·1	4·0	− 0·3	0	18	0	0	2	5	0	2	1	0	17	0	0	1	6	0	4	0	Khanpur
																												Kashmir
+ 1·1	6·0	1·82	− 1·02	1·02	6	4	− 2·2	2·1	− 0·3	2	1	1	2	1	0	1	4	16	1	1	0	1	2	1	5	11	6	Srinagar
																												Gulmarg
− 0·6	4·8	1·66	− 1·17	0·40	5	5	+ 2·6	0	− 0·7	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	28	Dras
− 2·5	6·3	0·23	− 0·08	0·22	23	1	+ 0·1	2·8	+ 1·4	1	14	4	0	0	0	0	0	9	0	1	2	0	5	6	12	0	2	Leh
− 1·6	4·9	0·09	− 0·60	0·03	5	0	− 2·2	2·5	+ 1·0	0	0	0	1	0	1	4	1	21	0	1	1	1	0	6	5	0	14	Skardu
− 1·7	6·0	0·03	− 0·23	0·03	5	0	− 0·9	1·4	0	1	0	0	0	0	0	4	0	23	0	0	1	0	3	0	0	0	24	Gilgit
	5·1	0·02		0·02	3	0		4·5		2	0	1	0	1	3	4	17	0	0	0	12	9	2	2	2	1	0	Misgar
																												N.-W. F. Province
− 2·0	5·9	2·14	+ 0·61	1·10	4	3	− 0·3	3·2	+ 1·4	0	1	0	5	8	10	0	1	3	6	3	0	0	5	3	2	7	2	Peshawar
+ 0·5	5·4	1·31	+ 0·13	0·53	4	3	− 0·1	3·8		1	0	0	1	0	0	1	21	4	0	4	0	15	2	2	1	3	1	Bannu
− 1·1	3·9	1·45	− 0·11	0·63	5	2	− 2·1	3·9	− 0·1	0	1	0	0	0	1	1	3	22	0	0	16	1	2	1	1	0	7	Miranshah
− 1·3	4·2	0·32	− 0·35	0·31	5	1	− 0·7	1·6	+ 0·2	2	2	0	0	0	0	4	4	16	1	3	6	3	2	1	0	1	11	Dera Ismail Khan
																												Baluchistan
− 0·6	5·1	1·63	+ 0·55	0·54	4	4	+ 0·7	4·3	+ 1·8	1	2	2	5	4	1	1	0	12	6	3	2	2	3	4	3	1	4	Fort Sandeman
	5·2	1·38	+ 0·31	0·81	5	4	+ 1·4	4·8		0	0	1	0	0	2	21	3	1	0	1	1	12	7	3	2	2	0	Loralai
+ 0·2	3·9	0·84	− 0·03	0·58	8	2	+ 0·3	2·4	− 0·3	4	0	0	1	0	0	0	5	18	1	1	2	6	5	2	3	0	8	Sibi
− 0·2	4·1	1·74		0·49	5	7		5·1	+ 2·1	1	3	0	6	6	0	1	2	9	10	0	1	1	2	4	0	9	1	Quetta
+ 0·8	4·5	2·80	+ 1·08	0·93	5	6	+ 1·6	4·2	− 0·9	0	4	4	11	1	1	0	1	6	0	6	0	1	1	8	0	12	0	Chaman
− 0·6	3·3	1·59	+ 0·20	0·87	3	3	− 0·4	5·8	+ 0·8	0	0	0	1	22	1	0	1	3	6	1	0	0	8	3	2	8	0	Kalat
− 1·2	3·4	1·96	+ 1·00	1·35	27	4	+ 1·8	4·4	+ 0·4	4	6	2	0	0	0	2	0	14	2	4	9	2	1	5	2	2	1	Dalbandin
− 1·1	2·9	0·17	− 0·23	0·15	27	1	− 0·1	1·9	− 4·6	10	8	2	0	0	0	0	5	3	3	4	3	6	5	2	2	3	0	Nokkundi
− 1·5	1·3	0·89	+ 0·01	0·82	4	1	− 1·0	2·8	+ 0·7	7	1	1	0	0	0	1	4	14	3	1	1	3	12	5	1	2	0	Las Bela
− 1·3	2·7	0·41	− 1·78	0·26	7	2	− 1·3	5·6	− 0·7	0	0	2	8	1	3	2	0	12	0	0	2	4	6	5	9	2	0	Ormara
+ 0·9	4·8	0·66	− 0·75	0·66	7	1	− 1·0	5·7	− 0·2	2	0	3	0	0	0	11	9	3	0	0	1	4	9	6	8	0	0	Pasni
− 1·1	2·9	0·27	+ 0·69	0·18	3	1	− 0·9	6·1	+ 0·7	3	16	7	0	0	0	0	0	2	5	1	0	1	3	6	5	7	0	Panjgur
																												Jiwani (*R*)

(*R*)—Register not received.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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
Sind																					
Jacobabad ...	186	1008·9	0	1006·4	79·3	+ 2·2	87	26	49·1	− 1·4	41	8, 9	52·3	77·9	45·7	59·0	7·6	−1·3	8·5	57	−
Sukkur ...	221	1007·7	+ 1·0	1004·9					51·7	− 0·3	42	8	55·7	78·2	53·8	60·6	10·4	+0·9	10·2	66	+
Pad Idan ...	153	1010·0		1007·0	80·8		88	22	45·0		37	8	48·8	79·4	44·8	58·4	8·3		7·3	72	
Umarkot ...	55	1012·0		1009·1	85·8		95	22	49·6		41	9, 10	52·9	84·5	48·8	71·1	10·1		19·8	73	
Hyderabad ...	96	1011·1	− 0·8	1008·7	88·5	+ 2·3	94	28	53·6	− 0·9	47	8, 9, 10	55·9	82·2	49·6	60·7	9·2	−0·8	8·4	62	
Karachi (Manora)...	13	1013·9	− 1·0	1011·8	79·9	+ 3·0	89	21	61·5	+ 0·5	55	8	63·5	76·7	59·2	67·3	15·0	+0·6	13·5	76	+
Badin ...	31	1013·5	+ 0·2	1010·8	87·7	+ 5·3	97	27, 28	50·2	− 4·3	41	9	53·3	85·0	49·2	62·0	10·2	−2·1	8·6	72	+
Rajputana, West																					
Sri Ganganagar ...	580	994·8		992·7	76·5	+ 2·9	86	28	43·5	− 2·2	36	18	47·3	73·4	44·9	59·0	9·2	−0·9	10·6	82	−
Bikaner ...	734	988·9	− 0·1	986·0	80·8		92	28	44·9		37	9	49·8	78·5	43·3	57·9	6·6		7·2	55	
Phalodi ...	733	986·5		985·2	81·2		92	28	48·6		41	9, 10	52·5	80·3	46·7	66·2	8·2		15·6	62	
Jodhpur ...	736	989·1	+ 0·3	986·1	83·1	+ 2·1	94	28	53·0	+ 0·4	45	9	56·1	81·9	46·3	58·6	6·3	+1·1	6·1	42	−
Barmer ...	688	992·0	+ 0·4	989·2	84·9	+ 3·6	95	28	54·5	− 1·1	45	8, 9	57·6	83·9	48·7	61·4	7·7	−3·2	8·4	49	−
Rajputana, East																					
Sikar ...	1,406	965·9		964·7	78·9		90	28	46·9		41	1, 10, 11	50·3	76·6	44·5	55·6	7·4		5·7	62	
Jaipur ...	1,431	965·2	− 0·8	962·9	78·6	+ 1·6	89	28	51·1	+ 0·5	44	1	56·4	76·8	43·3	56·7	8·0	+0·1	6·5	54	+
Ajmer ...	1,593	960·3	+ 0·4	957·3	78·4	+ 1·4	89	28	49·3	− 0·6	41	11	60·5	77·6	51·3	58·5	9·2	+0·8	9·2	53	−
Kotah ...	843	985·4	− 0·5	982·4	82·8	+ 0·8	93	28	53·9	− 1·5	47	1	56·4	81·0	50·5	60·4	9·9	+1·1	8·7	64	+1
Brijnagar ...	1,053	977·5	− 0·3	974·4	82·4	+ 0·1	92	28, 28	52·5	− 0·3	43	1	56·5	81·6	50·2	59·7	9·5	+0·2	7·7	61	+
Rajsamand ...	1,650	950·2		947·8	78·2		88	28, 28	54·0		49	1	59·1	76·3	53·0	58·3	11·3		9·4	67	
Gujarat																					
Deesa* ...	466																				
Bhuj ...	348	1002·5	− 0·3	997·7	85·3	+ 1·6	93	27, 28	54·1	− 2·4	46	10	57·1	84·5	50·7	59·9	9·6	−2·7	6·7	61	+
Dwarka ...	37	1012·7	− 1·2	1010·3	80·8	+ 2·3	93	21	61·7	− 1·5	58	2, 8, 11	64·6	76·6	60·0	64·8	15·7	−1·0	15·3	75	+
Jamnagar ...	60	1012·6	− 0·5		84·1	+ 1·5	91	28	56·4	+ 0·6	51	10, 11	64·0		58·4		14·8	+0·5		68	−
Rajkot ...	482	998·7	− 0·7	995·4	87·9	+ 1·4	96	27	53·8	− 0·5	45	9	56·4	87·5	49·3	61·7	8·9	−1·9	7·2	58	−
Veraval ...	26	1011·9	− 1·8	1009·4	85·9		95	28	58·1		52	2	61·6	78·9	53·8	69·7	10·6		20·6	57	−
Surat ...	39	1011·8	− 1·1	1008·9	92·1	+ 2·7	100	27	62·5	+ 2·5	53	9	64·9	87·8	58·7	70·3	14·0	+0·5	16·6	67	+
Bhavnagar ...	55	1011·5	− 1·3	1008·3	89·3	+ 2·0	98	28	56·7	− 0·9	47	10, 11	59·7	88·2	49·8	63·1	7·7	−2·2	8·5	45	−
Ahmedabad ...	163	1008·2	− 0·9	1004·9	88·7	+ 0·8	98	28	63·1	+ 3·1	56	9	65·0	87·8	53·4	64·4	8·9	−1·0	10·1	42	−
Dohad ...	1,093	976·8		973·4	87·7	+ 1·0	95	23, 28	58·1	+ 1·6	51	9, 10	60·9	85·9	52·1	62·6	9·5	−0·9	9·0	52	−
Baroda ...	115	1009·3		1005·9	92·0	+ 2·6	101	28	55·0	+ 0·2	45	9	58·3	90·0	52·8	66·4	11·0	−0·5	11·6	67	+
Central Ind., West																					
Neemuch ...	1,626	958·5	− 0·3	956·0	82·2	+ 1·4	92	23, 28	52·9	+ 1·0	45	10	56·5	80·6	48·2	58·5	8·2	−0·3	7·9	53	+
Indore ...	1,823	951·0	− 0·3	948·1	83·1	0	91	28	53·5	+ 1·2	46	2, 9	57·7	82·3	51·6	60·9	10·5	+1·3	9·6	65	+14
Bhopal ...	1,643	957·6	− 0·2	954·6	83·2	+ 0·4	92	28	53·8	− 0·8	47	1, 2, 3	59·2	81·2	52·7	62·6	11·0	+1·6	11·9	64	+12
Guna ...	1,571	960·2	0	958·4	81·4	+ 0·2	90	28	50·3	+ 0·1	41	1	55·3	80·5	49·1	59·6	9·3	0	9·0	64	+
Gwalior ...	681	991·1		988·2	81·0		90	28	46·9		39	10	57·1	79·0	50·1	58·3	9·2		7·4	58	
Madhosagar ...	757	988·4		985·4	81·3		91	28	54·6		50	9, 11	58·2	79·3	51·8	58·5	10·2		7·5	61	
Central India, East																					
Nowgong ...	750	988·8	0	985·7	80·4	+ 0·4	90	24	47·6	− 3·1	41	11	52·2	79·4	49·6	59·8	10·9	+0·2	8·7	83	+14
Sutna ...	1,041	978·3	− 0·2	975·3	80·5	+ 1·2	88	28	50·0	− 2·2	42	2	54·3	76·9	51·7	58·6	11·9	+1·3	8·6	83	+21
Umaria ...	1,506	962·5		959·5	80·2	− 0·9	86	6	51·0	− 0·7	42	1	57·1	77·6	53·4	61·6	12·5	+1·1	12·3	78	+13
Berar																					
Akola ...	925	980·8	− 1·2	977·1	90·2	− 0·4	95	14, 24	61·3	+ 3·5	55	25	63·7	88·2	57·2	66·4	13·1	+3·5	12·3	65	+18
Amraoti ...	1,213	971·7	− 0·5	968·3	88·3	− 1·0	98	8	63·5	+ 1·4	57	3	67·2	87·2	57·9	65·1	12·2	+2·0	11·2	54	+
C. P., West																					
Khandwa ...	1,044	977·2	− 1·0	973·4	89·1	+ 0·4	97	28	57·6	+ 1·7	49	2	63·3	87·6	55·3	64·6	11·3	+2·5	10·4	56	+
Hoshangabad ...	992	979·8	− 0·6	976·2	83·5	− 1·4	90	24, 28	59·5	+ 2·0	50	2	62·4	83·1	55·3	63·7	11·7	+1·1	11·4	61	+
Saugor ...	1,808	951·7	− 0·5	949·1	73·1	− 1·5	88	24	56·5	+ 0·9	49	9	61·0	76·9	51·9	57·8	9·5	+1·1	8·6	53	+
Jubbulpore ...	1,289	969·9	+ 0·2	966·7	82·2	+ 0·8	91	24	52·2	+ 1·2	44	2	58·3	79·8	54·6	63·2	12·9	+1·8	12·4	77	+14
Seoni ...	2,027	945·0	− 0·4	942·1	81·8	− 1·2	87	24	55·7	+ 0·8	46	1, 2, 3	62·1	79·6	55·6	62·5	12·5	+1·8	12·4	67	+11
Nagpur ...	1,022	976·6	− 0·4	975·0	86·3	− 1·9	92	24	62·1	+ 0·2	54	2, 3	66·3	84·8	59·6	69·9	14·5	+3·1	13·2	66	+15
C. P., East																					
Gondia ...	1,026	979·6		976·0	84·7		89	15, 16	58·1		48	3	65·0	82·8	60·4	65·7	15·9		13·9	76	
Pendra ...	2,040	944·0	− 0·4	942·1	79·0	+ 0·9	83	4 days	54·4	− 0·1	47	1, 2	60·7	76·4	54·1	60·3	11·6	0	11·4	65	+
Champa ...	805	987·0		983·5	95·0		92	13, 15	60·1		51	1	61·9	83·6	57·7	64·7	14·4		12·3	76	
Raipur ...	970	981·4	+ 0·6	977·5	85·4	− 0·6	91	13, 15, 16	61·3	+ 1·2	53	2, 3	68·3	83·3	60·2	65·2	13·7	+0·7	13·1	62	+
Titilagarh ...	691	990·1		986·3	88·1		95	16	61·9		50	3	65·8	86·5	60·5	67·0	15·7		13·8	73	
Kanker ...	1,318	968·9	+ 0·3	965·5	85·8	+ 0·1	90	4 days	59·4	+ 1·0	49	3	64·0	83·4	59·3	65·0	15·1	0	12·8	76	+
Chanda ...	634	991·9	− 0·3	989·6	89·3	− 1·1	95	16	62·8	+ 3·3	55	2	67·9	87·6	62·9	68·6	17·3	+3·0	15·3	75	+15
Jagdalpur ...	1,815	951·8	− 0·3	948·2	88·2	+ 1·6	91	6 days	57·3	+ 1·3	48	3	65·2	85·4	59·4	63·2	14·9	+0·9	10·8	71	−

* Data rejected.

Cloud amount (tenths of sky).		Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																	STATION.
										8 hrs. I. S. T.										17 hrs. I. S. T.								
Departure from normal.	Mean 17 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
																												U. P., East
− 0·8	2·2	0·15	− 0·76	0·07	9	0	− 2·3	2·7	− 0·4	1	0	4	1	0	0	17	0	5	0	0	3	0	0	0	20	3	2	Gonda
+ 0·1	2·4	0·37	− 0·26	0·30	9	1	− 0·8	2·2	+ 0·5	0	1	0	0	1	5	6	0	15	2	0	1	2	0	5	12	3	3	Gorakhpur
− 1·2	1·8	0·69	− 0·02	0·46	15	2	+ 0·1	4·4	+ 1·6	1	1	1	1	2	13	4	0	5	0	1	2	0	0	2	18	3	2	Banaras
− 0·3	2·7	0·42	− 0·21	0·12	15	2	+ 0·3	2·7	− 0·5	0	0	0	1	3	7	5	0	12	3	0	3	0	1	1	16	4	0	Allahabad (Bamrauli)
− 0·6	2·4	0·32	− 0·39	0·23	16	1	− 1·4	2·0	− 0·6	0	0	1	1	1	1	4	3	17	0	1	0	0	0	0	6	13	8	Fatehpur
+ 0·3	2·5	0·26	− 0·40	0·16	16	2	+ 0·4	5·9	+ 1·8	1	1	3	0	2	9	5	2	5	5	2	1	0	0	0	9	10	1	Kanpur
− 0·6	2·0	0·08	− 0·64	0·05	16	0	− 1·6	1·6	− 0·1	0	0	1	0	0	1	11	1	14	2	0	2	0	0	0	13	3	8	Lucknow
− 0·3	2·2	0·30	− 0·61	0·25	9	1	− 1·0	2·2	+ 0·6	1	0	2	1	0	2	3	5	14	0	0	1	1	0	5	6	2	13	Bahraich
																												U. P., West
− 0·4	1·9	0·40	− 0·05	0·31	8	1	− 0·1	1·9	− 0·8	2	1	0	1	2	3	5	0	14	0	0	1	0	0	2	10	13	2	Jhansi
− 0·4	2·5	0·20	− 0·39	0·15	15	1	− 0·1	2·0	− 1·2	2	1	1	0	1	0	4	1	15	3	1	2	1	0	1	4	8	8	Agra
	2·8	0·27	− 0·27	0·11	8, 15	2	+ 0·8	2·9	+ 1·2	0	1	1	1	2	6	11	5	1	1	1	1	1	1	1	13	8	1	Mainpuri
+ 0·2	2·5	0·25	− 0·51	0·25	8	1	− 1·1	3·7	+ 0·2	2	0	2	1	0	0	13	1	9	1	0	1	2	1	1	3	16	3	Aligarh
+ 0·9	4·2	0·75	− 0·22	0·70	9	1	− 0·9	2·8	+ 0·8	2	2	3	0	0	3	7	5	6	1	1	0	0	0	3	9	7	7	Bareilly
− 0·5	3·2	1·86	+ 0·34	0·72	9	5	+ 2·2	2·4	+ 0·2	3	1	1	2	0	1	3	8	9	1	1	1	3	0	2	3	13	4	Roorkee
+ 1·6	3·9	2·76	+ 0·29	0·88	24	4	+ 0·2	1·9	+ 0·2	4	5	0	0	0	0	3	1	15	1	0	1	0	2	7	11	1	5	Dehra Dun
																												Punjab, E. and N.
+ 0·3	3·9	0·35	− 4·8	0·18	8	2	+ 0·3	5·6		3	0	1	1	0	4	10	3	6	3	0	3	2	0	0	3	16	1	New Delhi
− 0·7	2·7	0·41	− 0·13	0·33	8	1	− 0·2	4·3	+ 0·4	2	1	1	4	1	9	6	2	2	3	2	1	0	1	0	2	16	2	Hissar
− 1·6	2·5	0·96	− 0·91	0·75	3	2	− 1·1			0	1	0	6	0	0	0	17	4	0	0	0	7	0	0	0	19	2	Ambala
− 1·2	3·1	1·05	− 0·30	0·35	23	3	+ 0·3	1·5	− 0·2	1	2	1	0	3	1	7	4	9	1	6	1	2	1	2	3	13	0	Ludhiana
− 0·7	4·1	0·44	− 0·53	0·24	8	1	− 1·1	2·9	− 1·2	3	2	1	1	0	0	3	4	14	1	0	0	0	0	2	7	17	1	Lahore
+ 0·1	3·1	0·77	− 0·90	0·40	6	3	0	1·9	+ 0·5	1	3	4	3	0	1	0	16	6	0	16	2	0	0	3	1	5	1	Sialkot
− 0·5	5·8	1·09	− 1·39	0·60	5	4	− 0·4	3·8	+ 1·2	3	2	1	0	0	2	3	2	15	0	3	1	0	1	6	12	4	1	Rawalpindi
																												Punjab, Southwest
− 1·8	3·5	0·68	− 0·24	0·42	4	2	− 0·1	3·2	+ 0·1	4	2	1	0	3	2	6	3	7	3	5	1	2	0	3	6	3	3	Khushab
− 2·5	4·5	0·46	− 0·11	0·25	8	2	+ 0·4	1·5	− 0·4	2	1	1	0	0	1	3	2	18	1	1	1	1	1	2	12	5	4	Lyallpur
− 0·6	4·0	0·46	− 0·04	0·13	5	1	− 0·5	1·4	− 1·4	2	0	0	1	1	1	1	2	20	1	5	0	3	1	4	3	5	6	Montgomery
	3·5	0		0		0		3·7		3	3	1	1	1	0	5	7	7	4	0	2	2	1	5	6	8	0	Leiah
+ 0·3	3·4	0·25	− 0·13	0·15	8	2	+ 0·7	2·4	+ 0·9	14	0	0	0	3	1	1	1	8	5	1	4	2	7	1	2	2	4	Multan
	3·1	0·37		0·37	8	1		4·4		3	2	10	4	1	0	3	1	4	9	5	2	0	2	4	2	4	0	Fort Abbas
− 0·5	2·8	0·27	+ 0·01	0·22	8	1	+ 0·2	2·6	+ 0·1	6	3	7	4	3	0	0	1	4	1	6	3	2	0	4	3	4	5	Bahawalpur
+ 0·1	2·6	0·24	− 0·05	0·14	8	2	+ 1·1	4·0	− 0·3	0	18	0	0	2	5	0	2	1	0	17	0	0	1	6	0	4	0	Khanpur
																												Kashmir
+ 1·1	6·0	1·82	− 1·02	1·02	6	4	− 2·2	2·1	− 0·3	2	1	1	2	1	0	1	4	16	1	1	0	1	2	1	5	11	6	Srinagar
																												Gulmarg
− 0·6	4·8	1·66	− 1·17	0·40	5	5	+ 2·6	0	− 0·7	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	28	Dras
− 2·5	6·3	0·23	− 0·08	0·22	23	1	+ 0·1	2·8	+ 1·4	1	14	4	0	0	0	0	0	9	0	1	2	0	5	6	12	0	2	Leh
− 1·6	4·9	0·09	− 0·60	0·03	5	0	− 2·2	2·5	+ 1·0	0	0	0	1	0	1	4	1	21	0	1	1	1	0	6	5	0	14	Skardu
− 1·7	6·0	0·03	− 0·23	0·03	5	0	− 0·9	1·4	0	1	0	0	0	0	0	4	0	23	0	0	1	0	3	0	0	0	24	Gilgit
	5·1	0·02		0·02	3	0		4·5		2	0	1	0	1	3	4	17	0	0	0	12	9	2	2	2	1	0	Misgar
																												N.-W. F. Province
− 2·0	5·9	2·14	+ 0·61	1·10	4	3	− 0·3	3·2	+ 1·4	0	1	0	5	8	10	0	1	3	6	3	0	0	5	3	2	7	2	Peshawar
+ 0·5	5·4	1·31	+ 0·13	0·53	4	3	− 0·1	3·8		1	0	0	1	0	0	1	21	4	0	4	0	15	2	2	1	3	1	Bannu
− 1·1	3·9	1·45	− 0·11	0·68	5	2	− 2·1	3·9	− 0·1	0	1	0	0	0	1	1	3	22	0	0	16	1	2	1	1	0	7	Miranshah
− 1·3	4·2	0·32	− 0·35	0·31	5	1	− 0·7	1·6	+ 0·2	2	2	0	0	0	0	4	4	16	1	3	6	3	2	1	0	1	11	Dera Ismail Khan
																												Baluchistan
− 0·6	5·1	1·63	+ 0·55	0·54	4	4	+ 0·7	4·3	+ 1·8	1	2	2	5	4	1	1	0	12	6	3	2	2	3	4	3	1	4	Fort Sandeman
	5·2	1·38	+ 0·31	0·81	5	4	+ 1·4	4·8		0	0	1	0	0	2	21	3	1	0	1	1	12	7	3	2	2	0	Loralai
+ 0·2	3·9	0·84	− 0·03	0·58	8	2	+ 0·3	2·4	− 0·3	4	0	0	1	0	0	0	5	18	1	1	2	6	5	2	3	0	8	Sibi
− 0·2	4·1	1·74		0·49	5	7		5·1	+ 2·1	1	3	0	6	6	0	1	2	9	10	0	1	1	2	4	0	9	1	Quetta
+ 0·8	4·5	2·80	+ 1·08	0·93	5	6	+ 1·6	4·2	− 0·9	0	4	4	11	1	1	0	1	6	0	6	0	1	1	8	0	12	0	Chaman
− 0·6	3·3	1·59	+ 0·20	0·87	3	3	− 0·4	5·8	+ 0·8	0	0	0	1	22	1	0	1	3	6	1	0	0	8	3	2	8	0	Kalat
− 1·2	3·4	1·96	+ 1·00	1·35	27	4	+ 1·8	4·4	+ 0·4	4	6	2	0	0	0	2	0	14	2	4	9	2	1	5	2	2	1	Dalbandin
− 1·1	2·9	0·17	− 0·23	0·15	27	1	− 0·1	1·9	− 4·6	10	8	2	0	0	0	0	5	3	3	4	3	6	5	2	2	5	0	Nokkundi
− 1·5	1·3	0·89	+ 0·01	0·82	4	1	− 1·0	2·8	+ 0·7	7	1	1	0	0	0	1	4	14	3	1	1	3	12	5	1	2	0	Las Bela
− 1·3	2·7	0·41	− 1·78	0·26	7	2	− 1·3	5·6	− 0·7	0	0	2	8	1	3	2	0	12	0	0	2	4	6	5	9	2	0	Ormara
+ 0·9	4·8	0·66	− 0·75	0·66	7	1	− 1·0	5·7	− 0·2	2	0	3	0	0	0	11	9	3	0	0	1	4	9	6	8	0	0	Pasni
− 1·1	2·9	0·27	+ 0·69	0·18	3	1	− 0·9	6·1	+ 0·7	3	16	7	0	0	0	0	0	2	5	1	0	1	3	6	5	7	0	Panjgur
																												Jiwani (E)

R 2—c

(E)—Register not received.

TABLE 11—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 HRS. G.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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
Sind																					
Jacobabad ...	186	1008·9	0	1006·4	79·3	+ 2·3	87	26	49·1	− 1·4	41	8, 9	52·3	77·9	45·7	59·0	7·6	−1·3	8·5	57	− 5
Sukkur ...	221	1007·7	+ 1·0	1004·9					51·7	− 0·3	42	8	55·7	78·2	50·8	60·6	10·4	+0·9	10·2	66	+ 5
Pad Idan ...	158	1010·0		1007·0	80·8		88	22	45·0		37	8	48·8	79·4	44·8	58·4	8·3		7·8	72	
Umarkot ...	55	1012·0		1009·1	85·8		95	22	49·6		41	9, 10	52·9	84·5	48·8	71·1	10·1		19·8	73	
Hyderabad ...	96	1011·1	− 0·8	1008·7	83·5	+ 2·3	94	28	53·6	− 0·9	47	8, 9, 10	55·9	82·2	49·6	60·7	9·2	−0·8	8·4	62	0
Karachi (Manora)...	18	1013·9	− 1·0	1011·8	79·9	+ 3·0	89	21	61·5	+ 0·5	55	8	63·5	76·7	59·2	67·3	15·0	+0·6	18·5	76	+ 4
Badin ...	31	1013·5	+ 0·2	1010·8	87·7	+ 5·3	97	27, 28	50·2	− 4·3	41	9	58·3	85·0	49·2	62·0	10·2	−2·1	8·6	72	+ 2
Rajputana, West																					
Sri Gangenagar ...	580	994·8		992·7	76·5	+ 2·9	86	28	43·5	− 2·2	36	18	47·3	73·4	44·9	59·0	9·2	−0·9	10·6	82	− 1
Bikaner ...	734	988·9	−0·1	986·0	80·8		92	28	44·9		37	9	49·8	78·5	43·3	57·9	6·6		7·2	55	
Phalodi ...	788	986·5		985·2	81·2		92	28	48·6		41	9, 10	52·5	80·3	46·7	66·2	8·2		15·6	62	
Jodhpur ...	736	989·1	+ 0·3	986·1	83·1	+ 2·1	94	28	53·0	+ 0·4	45	9	56·1	81·9	46·3	58·6	6·3	+1·1	6·1	42	− 8
Barmer ...	688	992·0	+ 0·4	989·2	84·9	+ 3·6	95	28	54·5	− 1·1	45	8, 9	57·6	83·9	48·7	61·4	7·7	−3·2	8·4	49	−12
Rajputana, East																					
Sikar ...	1,406	965·9		964·7	78·9		90	28	46·9		41	1, 10, 11	50·3	76·6	44·5	55·6	7·4		6·7	62	
Jaipur ...	1,481	965·2	− 0·3	962·9	78·6	+ 1·6	89	28	51·1	+ 0·5	44	1	56·4	76·8	43·3	56·7	8·0	+0·1	6·5	54	+ 3
Ajmer ...	1,593	960·3	+ 0·4	957·3	78·4	+ 1·4	89	28	49·3	− 0·6	41	11	60·5	77·6	51·3	58·5	9·2	+0·8	9·2	53	− 2
Kotah ...	843	985·4	− 0·5	982·4	82·8	+ 0·8	98	28	53·9	− 1·5	47	1	56·4	81·0	50·5	60·4	9·9	+1·1	8·7	64	+13
Brijnagar ...	1,058	977·5	− 0·3	974·4	82·4	+ 0·1	92	28, 28	52·5	− 0·3	43	1	56·5	81·6	50·2	59·7	9·5	+0·2	7·7	61	+ 6
Rajsamand ...	1,850	950·2		947·8	78·2		88	28, 28	54·0		49	1	59·1	76·3	53·0	58·3	11·3		9·4	67	
Gujarat																					
Deesa* ...	466																				
Bhuj ...	343	1002·5	− 0·3	997·7	85·3	+ 1·6	98	27, 28	54·1	− 2·4	46	10	57·1	84·5	50·7	59·9	9·6	−2·7	6·7	61	+ 1
Dwarka ...	37	1012·7	− 1·2	1010·3	80·8	+ 2·3	93	21	61·7	− 1·5	58	2, 8, 11	64·6	76·6	60·0	64·8	15·7	−1·0	15·3	75	+ 1
Jamnagar ...	60	1014·6	− 0·5		84·1	+ 1·5	91	28	56·4	+ 0·6	51	10, 11	64·0		58·4		14·3	+0·5		68	− 3
Rajkot ...	482	998·7	− 0·7	995·4	87·9	+ 1·4	96	27	53·8	− 0·5	45	9	56·4	87·5	49·3	61·7	8·9	−1·9	7·2	58	− 2
Veraval ...	26	1011·9	− 1·8	1009·4	85·9		95	28	58·1		52	2	61·6	78·9	53·8	69·7	10·6		20·6	57	− 2
Surat ...	39	1011·8	− 1·1	1008·9	92·1	+ 2·7	100	27	62·5	+ 2·5	53	9	64·9	87·8	58·7	70·3	14·0	+0·5	16·6	67	+ 4
Bhavnagar ...	55	1011·5	− 1·3	1008·3	89·3	+ 2·0	98	28	56·7	− 0·9	47	10, 11	59·7	88·2	49·8	63·1	7·7	−2·2	8·5	45	− 4
Ahmedabad ...	163	1008·2	− 0·9	1004·9	88·7	+ 0·8	98	28	63·1	+ 3·1	56	9	65·0	87·8	53·4	64·4	8·9	−1·0	10·1	42	− 7
Dohad ...	1,098	976·8		973·4	87·7	+ 1·0	95	23, 28	58·1	+ 1·6	51	9, 10	60·9	85·9	52·1	62·6	9·5	−0·9	9·0	52	− 7
Baroda ...	115	1009·3		1005·9	92·0	+ 2·6	101	28	55·0	+ 0·2	45	9	58·8	90·0	52·8	66·4	11·0	−0·5	11·6	67	+ 6
Central Ind., West																					
Neemuch ...	1,626	958·5	− 0·3	956·0	82·2	+ 1·4	92	23, 28	52·9	+ 1·0	45	10	56·5	80·6	48·2	58·5	8·2	−0·3	7·9	53	+ 3
Indore ...	1,828	951·0	− 0·3	948·1	83·1	0	91	28	53·5	+ 1·2	46	2, 9	57·7	82·3	51·6	60·9	10·5	+1·3	9·6	65	+14
Bhopal ...	1,643	957·6	− 0·2	954·6	83·2	+ 0·4	92	28	53·8	− 0·8	47	1, 2, 3	59·2	81·2	52·7	62·6	11·0	+1·6	11·9	64	+12
Guna ...	1,571	960·2	0	958·4	81·4	+ 0·2	90	28	50·3	+ 0·1	41	1	55·3	80·5	49·1	59·6	9·3	0	9·0	64	+ 4
Gwalior ...	681	991·1		988·2	81·0		90	28	46·9		39	10	57·1	79·0	50·1	58·3	9·2		7·4	58	
Madhosagar ...	757	988·4		985·4	81·3		91	28	54·6		50	9, 11	58·2	79·8	51·8	58·5	10·2		7·5	61	
Central India, East																					
Nowgong ...	750	988·8	0	985·7	80·4	+ 0·4	90	24	47·6	− 3·1	41	11	52·2	79·4	49·6	59·8	10·9	+0·2	8·7	83	+14
Sutna ...	1,041	978·3	− 0·2	975·3	80·5	+ 1·2	88	28	50·0	− 2·2	42	2	54·3	76·9	51·7	58·6	11·9	+1·3	8·6	83	+21
Umaria ...	1,506	962·5		959·5	80·2	− 0·9	86	6	51·0	− 0·7	42	1	57·1	77·6	53·4	61·6	12·5	+1·1	12·3	78	+13
Berar																					
Akola ...	925	980·8	− 1·2	977·1	90·2	− 0·4	95	14, 24	61·3	+ 3·5	55	25	63·7	88·2	57·2	66·4	13·1	+3·5	12·3	65	+18
Amraoti ...	1,213	971·7	− 0·5	968·3	88·3	− 1·0	98	8	63·5	+ 1·4	57	3	67·2	87·2	57·9	65·1	12·2	+2·0	11·2	54	+ 8
C. P., West																					
Khandwa ...	1,044	977·2	− 1·0	973·4	89·1	+ 0·4	97	28	57·6	+ 1·7	49	2	63·3	87·6	55·3	64·6	11·3	+2·5	10·4	56	+ 8
Hoshangabad ...	992	979·8	− 0·6	976·2	83·5	− 1·4	90	24, 28	59·5	+ 2·0	50	2	62·4	83·1	55·3	63·7	11·7	+1·1	11·4	61	+ 7
Saugor ...	1,808	951·7	− 0·5	949·1	79·1	− 1·5	88	24	56·5	+ 0·9	49	9	61·0	76·9	51·9	57·8	9·5	+1·1	8·6	53	+ 6
Jubbulpore ...	1,289	969·9	+ 0·2	966·7	82·2	+ 0·8	91	24	52·2	+ 1·2	44	2	58·3	79·8	54·6	63·2	12·9	+1·8	12·4	77	+14
Seoni ...	2,027	945·0	− 0·4	942·1	81·8	− 1·2	87	24	55·7	+ 0·8	46	1, 2, 3	62·1	79·6	55·6	62·5	12·5	+1·8	12·4	67	+11
Nagpur ...	1,022	976·6	− 0·4	975·0	86·3	− 1·9	92	24	62·1	+ 0·2	54	2, 3	66·3	84·8	59·6	65·9	14·5	+3·1	13·2	66	+15
C. P., East																					
Gondia ...	1,026	979·6		976·0	84·7		89	15, 16	58·1		48	3	65·0	82·8	60·4	65·7	15·9		13·9	76	
Pendra ...	2,040	944·0	− 0·4	942·1	79·0	+ 0·9	83	4 days	54·4	− 0·1	47	1, 2	60·7	76·4	54·1	60·3	11·6	0	11·4	65	+ 3
Champa ...	805	987·0		983·5	95·0		92	13, 15	60·1		51	1	61·9	83·6	57·7	64·7	14·4		12·3	76	
Raipur ...	970	981·4	+ 0·6	977·5	85·4	− 0·6	91	13, 15, 16	61·3	+ 1·2	53	2, 3	68·3	83·3	60·2	65·2	13·7	+0·7	13·1	62	+ 3
Titilagarh ...	691	990·1		986·3	88·1		95	16	61·2		50	3	65·8	86·5	60·5	67·0	15·7		13·8	73	
Kanker ...	1,318	968·9	+ 0·3	965·5	85·6	+ 0·1	90	4 days	59·4	+ 1·0	49	3	64·0	83·4	59·3	65·0	15·1	0	12·8	76	+ 5
Chanda ...	684	991·9	− 0·3	989·6	89·3	− 1·1	95	16	62·8	+ 3·3	55	2	67·9	87·6	62·9	68·6	17·3	+3·0	15·3	75	+15
Jagdalpur ...	1,815	951·8	− 0·3	948·2	88·2	+ 1·6	91	6 days	57·3	+ 1·3	48	3	65·2	85·4	59·4	63·2	14·9	+0·9	10·8	71	− 3

* Data rejected.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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	
84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	
																														Sind
3·1	+0·6	3·2	0·16	− 0·17	0·07	3,8	0	− 0·9	4·9	+ 1·2	1	0	7	3	1	2	1	4	9	4	1	1	5	3	1	4	6	3	Jacobabad
1·5	−0·5	2·8	0	− 0·28	0		0	− 0·8	2·9	− 0·1	4	3	7	7	2	1	0	0	4	7	4	2	6	1	5	0	1	3	Sukkur
1·9		2·1	0		0		0		4·0		6	3	1	1	1	0	2	6	8	6	1	0	1	2	2	4	4	8	Pad Idan
2·1		2·5	0		0		0		4·3		5	4	1	1	3	2	0	1	11	7	3	0	0	0	4	4	9	1	Umarkot
3·5	+1·4	3·1	0	− 0·24	0		0	− 0·6	3·5	− 0·5	6	1	0	0	2	2	0	5	12	10	4	1	1	3	3	0	6	0	Hyderabad
3·4	+0·8	3·9	0·05	− 0·39	0·05	8	0	− 1·0	5·4	− 1·4	6	14	3	0	0	0	2	2	1	0	0	0	2	2	17	6	1	0	Karachi (Manora)
0·3	−2·1	1·2	0	− 0·38	0		0	− 0·9	3·8		9	1	0	0	1	2	1	6	3	8	4	1	0	2	5	2	3	3	Badin
																														Rajputana, West
2·1	−2·0	2·2	0·47	− 0·66	0·41	8	1	− 1·0	2·6	− 1·6	0	0	1	1	0	2	0	4	20	4	2	1	0	0	1	0	13	7	Sri Ganganagar
1·4	−1·3	1·9	0·17	− 0·10	0·08	8	0	− 0·7	1·9	− 1·7	0	1	0	2	1	1	0	0	28	4	10	1	0	0	2	1	4	6	Bikaner
3·5		3·5	0·02	− 0·17	0·02	15	0	− 0·5	5·9		4	1	2	11	7	1	1	1	0	8	5	1	1	4	3	2	4	0	Phalodi
2·0	−0·8	3·3	0·05	− 0·19	0·05	14	0	− 0·8	2·6	− 4·2	0	23	2	0	0	0	1	0	2	4	1	6	3	0	3	3	3	5	Jodhpur
0·9	−1·7	1·9	0	− 0·28	0		0	− 0·6	3·6	− 1·3	1	0	0	0	0	1	2	8	16	3	0	2	0	2	2	2	3	5	Barmer
																														Rajputana, East
3·3		3·6	0·31		0·16	8	2		2·6		0	1	8	12	0	0	0	1	6	3	1	4	2	2	2	3	11	0	Sikar
2·7	+0·1	2·9	0·27	+ 0·05	0·14	23	1	+ 0·2	4·0	+ 0·1	2	7	2	0	0	0	0	1	16	3	1	2	2	3	3	5	3	1	Jaipur
1·6	−0·5	2·6	0·27	+ 0·01	0·27	15	1	+ 0·3	2·1	0	1	1	1	2	0	0	0	1	22	1	4	2	2	1	5	4	2	7	Ajmer
1·1	−1·1	2·1	0·03	− 0·18	0·03	5	0	− 0·5	2·0	+ 0·3	0	0	2	1	0	1	4	3	17	2	6	2	2	1	2	2	3	3	Kotah
1·3	−0·6	1·9	0	− 0·08	0		0	− 0·4	2·7	+ 0·1	4	2	0	3	1	0	2	3	13	7	11	1	0	0	4	3	2	0	Brijnagar
1·9		3·1	0		0		0		5·4		15	1	0	0	0	0	1	10	1	5	1	4	3	1	0	2	3	4	Rajsamand
																														Gujarat
																														Deesa *
1·8	+0·3	1·3	0	− 0·17	0		0	− 0·4	3·1	− 1·5	1	0	0	0	0	0	0	0	27	10	4	0	0	0	2	3	4	5	Bhuj
2·4	+0·1	1·7	0	− 0·24	0		0	− 0·5	10·3	+ 1·6	14	9	1	0	0	0	1	3	0	7	2	1	0	0	0	5	13	0	Dwarka
1·9	+0·4		0	− 0·08	0		0	− 0·2	3·2	− 3·7	0	0	0	0	0	0	0	0	28										Jamnagar
1·4	−0·6	1·9	0	− 0·09	0		0	− 0·3	5·3	+ 0·5	1	2	4	1	1	1	0	1	17	5	6	3	1	0	1	0	8	4	Rajkot
1·6	+0·1	2·0	0	− 0·07	0		0	− 0·2	9·4		9	10	1	0	0	0	0	4	4	0	1	0	0	2	8	12	5	0	Veraval
1·8	+0·5	2·0	0	− 0·08	0		0	− 0·2	3·5	+ 0·3	1	5	5	3	0	0	1	2	11	1	2	0	0	1	5	7	10	2	Surat
1·1	−0·5	1·4	0	− 0·06	0		0	− 0·2	4·0	− 0·2	1	1	1	0	1	6	14	0	4	4	11	6	2	1	2	1	1	0	Bhavnagar
1·8	+0·3	1·9	0	− 0·02	0		0	− 0·2	3·6	0	2	11	9	0	1	0	0	2	3	0	5	2	0	1	1	3	7	9	Ahmedabad
2·0	+0·1	3·1	0	− 0·04	0		0	− 0·2	6·1	+ 2·9	0	9	7	4	6	0	1	0	1	2	4	2	3	1	4	9	2	1	Dohad
1·5	+0·1	2·3	0	− 0·21	0		0	− 0·3	1·4	− 0·9	1	5	0	0	0	1	0	0	21	1	2	1	0	0	1	4	4	15	Baroda
																														Central Ind., West
2·6	+0·8	3·4	0·04	− 0·11	0·04	15	0	− 0·4	4·0	− 0·6	3	18	2	1	0	0	0	0	4	2	6	2	2	2	4	5	1	4	Neemuch
1·8	+0·2	3·1	0·05	− 0·09	0·03	6	0	− 0·5	3·0	+ 0·6	4	5	8	7	1	2	0	0	4	5	8	1	3	2	1	3	2	3	Indore
3·0	+1·1	3·2	0·01	− 0·14	0·01	8	0	− 0·5	2·6	− 0·2	1	4	1	0	0	1	1	0	20	3	4	1	1	0	3	4	1	11	Bhopal
1·0	−0·5	1·6	0·14	− 0·05	0·11	8	1	+ 0·4	2·6	− 0·2	0	0	0	0	0	0	0	0	28	2	0	2	2	0	2	5	3	12	Guna
2·3		2·1	0·21		0·14	15	1		1·6		0	0	0	0	1	2	2	2	21	8	1	2	0	1	1	2	4	9	Gwalior
2·1		2·5	0·19		0·10	5	1		3·7		0	1	1	0	4	11	2	1	8	3	2	1	3	1	3	4	11	0	Madhosagar
																														Central India, East
1·7	−1·9	2·2	0·38	− 0·19	0·18	15	3	+ 1·7	2·5	+ 0·9	0	1	2	0	11	4	0	0	10	3	5	1	0	0	3	9	4	3	Nowgong
2·5	+0·1	3·1	1·38	+ 0·60	0·60	16	3	+ 1·2	2·2	− 0·4	2	0	3	1	0	2	3	2	16	0	1	2	1	0	4	10	6	4	Sutna
1·6	0	2·4	1·23	+ 0·23	0·79	15	3	+ 1·1	2·1	− 0·4	2	0	6	1	6	0	1	0	12	15	2	0	1	0	0	6	3	1	Umaria
																														Berar
1·0	+0·3	2·5	0·19	− 0·11	0·19	21	1	+ 0·4	4·1	+ 1·0	2	5	5	3	2	2	1	0	8	3	6	3	4	2	1	2	5	2	Akola
1·7	+1·0	3·5	0·41	− 0·03	0·35	18	1	+ 0·2	6·4	+ 2·4	1	12	10	2	1	1	0	1	0	0	7	1	8	0	8	0	4	0	Amraoti
																														C. P., West
1·6	+1·2	4·0	0·02	− 0·14	0·02	23	0	− 0·4	3·8	+ 0·4	4	8	3	1	2	0	3	0	7	9	5	3	4	1	2	1	2	1	Khandwa
1·8	+1·0	2·6	0·13	− 0·25	0·13	6	1	+ 0·1	3·2	+ 1·0	1	6	17	2	0	2	0	0	0	2	3	10	3	2	3	3	0	2	Hoshangabad
1·4	+1·4	3·8	0·97	+ 0·50	0·68	8	2	+ 0·8	3·8	− 0·1	1	11	7	5	3	1	0	0	0	3	3	3	3	0	4	3	4	0	Saugor
1·9	+0·9	1·9	1·13	+ 0·37	0·94	15	2	+ 0·3	2·5	+ 0·8	2	2	0	10	0	0	0	0	14	2	14	0	1	1	0	3	5	2	Jubbulpore
1·5	+0·5	3·1	1·59	+ 0·78	0·56	19	5	+ 3·0	3·2	+ 0·4	5	7	2	3	1	0	0	0	10	5	2	5	4	4	7	1	0	0	Seoni
1·2	+1·0	3·9	1·44	+ 0·79	0·77	18	5	+ 3·6	2·7	− 1·4	19	1	4	1	1	0	0	0	2	7	2	4	1	7	2	4	0	1	Nagpur
																														C. P., East
·5		2·0	2·63		1·90	19	2		2·6		7	5	3	7	0	1	0	4	1	6	2	4	4	1	5	2	2	2	Gondia
1·0	+0·6	2·5	0·45	− 1·02	0·20	19	2	− 0·9	2·9	+ 0·5	6	1	0	0	2	2	2	5	10	10	0	2	3	3	3	1	5	1	Pendra
·0		3·0	1·60		0·71	19	3		3·9		13	7	1	1	0	0	0	5	1	1	4	2	3	2	1	6	7	2	Champa
·0	0	1·8	1·53	+ 0·66	0·78	19	2	+ 0·2	3·0	+ 0·4	1	7	0	3	0	3	0	0	14	1	8	1	0	0	4	0	2	12	Raipur
·3		2·1	0·41		0·23	19	2		1·6		2	2	1	2	2	0	1	1	17	8	6	0	2	1	2	2	3	4	Titilagarh
·6	+2·4	4·0	0·98	+ 0·12	0·44	19	3	+ 0·9	1·9	− 0·8	0	1	0	0	1	0	0	1	25	4	5	1	0	0	0	2	6	10	Kanker
·7	+0·9	3·2	0·96	+ 0·15	0·52	16	2	+ 0·7	3·1	+ 1·0	0	3	2	7	0	0	0	2	14	12	0	12	2	2	0	0	0	0	Chanda
·2	−0·8	1·6	0·02	− 1·06	0·02	25	0	− 1·6	2·4	+ 0·5	0	9	0	1	0	4	0	4	10	0	7	0	0	0	14	0	3	4	Jagdalpur

* Data Rejected

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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
Konkan																						
Dahanu ...	15	1012·0		1009·6	85·9		93	4 days	62·4		58	10	65·6	79·7	62·1	74·0	16·3		26·0	81		7
Bombay ...	35	1011·1	− 1·5	1008·5	85·3	+ 2·3	93	4	68·9	+ 1·5	62	9	72·0	81·6	67·4	71·7	21·0	+ 2·1	21·9	78	+ 4	6
Alibag ...	23	1012·3	− 0·4		83·3	+ 1·2	88	4	64·9	0	59	9	68·8		64·0		18·3	+ 0·9		76	+ 6	
Harnai ...	66	1009·3		1008·3	81·7		90	4	67·1		60	22	74·9	80·3	69·0	73·9	21·5		25·6	73		7
Devgad ...	117	1008·4		1005·4	85·8		90	24	71·5		68	18	74·4	83·5	68·9	73·9	21·7		24·4	73		6
Marmagao ...	202	1005·6	− 0·6	1002·3	84·6	+ 0·7	99	6	70·3	− 0·9	67	4 days	75·8	83·0	70·0	73·8	22·3	+ 0·5	24·2	74	− 2	6
Honavar ...	85	1010·1		1006·6	88·2		92	5	69·3		60	10	72·7	84·9	68·3	74·1	21·6		24·0	79		5
Bombay Deccan																						
Jalgaon ...	660	990·5		986·7	91·7		98	28	59·7		51	9, 25	64·8	91·5	57·8	71·6	13·2		17·4	64		3
Malegaon ...	1,432	963·7	− 1·3	960·1	90·2	+ 0·3	97	28	57·8	+ 3·1	51	9, 10	61·9	88·4	54·7	66·8	11·4	+ 2·4	13·9	62	+14	2
Ahmednagar ...	2,154	939·7	− 0·9	936·0					59·5	+ 3·6	53	8, 9	64·0	87·1	57·0	66·6	13·1	+ 3·6	15·9	65	+22	3
Poona ...	1,834	950·4	− 0·8	946·6	91·0	+ 0·5	96	27, 28	57·8	+ 2·7	51	18	60·8	88·8	57·2	64·7	14·5	+ 3·6	11·2	81	+17	2
Sholapur ...	1,570	959·5	− 0·4	955·5	92·4	− 0·1	96	22	65·5	+ 2·6	54	7	69·6	90·7	59·2	66·9	12·8	+ 2·8	13·0	53	+10	2
Miraj ...	1,817	950·7	− 1·0	946·5	91·9	+ 1·4	96	24, 27	60·3	+ 1·3	53	6, 7	64·9	89·6	57·1	66·4	12·9	− 0·1	13·8	61	0	2
Bijapur ...	1,950	945·9	− 1·3	942·4	90·6	− 0·4	94	8 days	65·5	+ 1·6	61	7 days	69·4	89·5	60·1	67·2	14·0	+ 1·1	13·8	57	+ 2	2
Belgaum ...	2,562	926·2	− 0·7	923·1	86·7	− 1·6	92	27, 28	58·7	− 0·6	53	7	62·9	84·3	57·5	64·0	13·9	+ 1·6	11·7	73	+14	3
Gadag ...	2,181	940·7	− 0·3	937·6	90·5	− 0·2	95	6 days	65·7	+ 0·8	60	9, 10	71·5	88·4	62·7	65·2	16·5	+ 2·4	11·8	60	0	2
Hyderabad, North																						
Aurangabad ...	1,905	948·4	− 1·0	945·0	89·1	+ 0·5	94	23	62·6	+ 3·0	56	8	66·6	88·1	57·4	66·9	11·9	+ 2·9	12·8	54	+11	3
Parbhani ...	1,350	965·4		961·6	91·7		95	19,23,28	61·6		57	9, 19	67·1	89·7	59·7	68·1	14·0		13·9	63		2
Bidar ...	2,178	939·1		935·8	86·7	− 1·1	91	18	66·1	+ 1·4	60	5	70·5	85·9	62·2	65·0	15·9	+ 1·2	12·6	61	+ 5	3
Nizamabad ...	1,250	969·8	− 1·0	966·2	90·1	− 0·7	94	15,19	65·7	+ 3·7	59	3, 28	69·4	83·1	63·0	66·0	16·7	+ 2·6	11·9	69	+12	2
Peddapalli (*R*) ...																						
Hyderabad, South																						
Gulbarga ...	1,503	961·8	− 0·5	957·5	91·8	− 0·5	96	18	66·7	+ 2·4	57	6	73·3	90·3	63·9	70·5	16·5	+ 3·9	16·9	58	+ 7	3
Raichur ...	1,811	967·8	− 0·8	964·2	90·9	− 1·2	96	18,26	69·7	+ 1·3	61	6	72·6	89·3	65·4	67·6	18·0	+ 2·4	14·3	67	+10	2
Hyderabad(Begumpet)	1,778	952·7	− 0·2	949·3	89·9	+ 0·6	94	17	64·8	+ 2·3	55	5	68·8	86·9	62·5	68·0	17·6	+ 1·5	14·8	74	+ 6	3
Hanamkonda ...	881	983·2	− 0·7	979·3	89·9	+ 0·4	94	28	67·7	+ 1·8	61	3	70·1	88·5	67·0	67·9	20·8	+ 1·8	14·1	82	+ 9	3
Khammameth ...	367	1001·3		996·8	91·6		97	27	69·0		61	4	73·7	89·4	69·3	69·5	22·4		15·5	79		3
Mysore																						
Chitaldrug ...	2,405	931·3	− 0·6	927·7	87·5	− 2·1	92	26	65·9	− 0·3	56	6	69·8	86·1	63·1	65·4	17·1	+ 2·1	13·0	69	+12	3
Hassan ...	3,149	907·3		904·2	85·5	− 1·5	90	19	61·8	+ 2·3	52	7	65·8	82·9	62·3	67·0	17·8	+ 1·5	16·1	82	+11	4
Bangalore ...	3,021	911·7	− 0·6	908·5	83·4	− 2·2	88	26	61·6	+ 1·6	54	9	65·2	81·3	61·4	61·3	17·0	+ 0·7	10·4	80	+ 7	2
Mysore ...	2,518	928·0	− 0·5	924·3	85·8	− 3·1	90	26, 28	64·8	+ 0·6	57	7, 8	67·1	85·4	63·1	64·3	18·1	+ 0·9	12·5	80	+11	2
Malabar																						
Mangalore ...	72	1010·0	− 0·6	1006·4	88·3	+ 0·1	91	5	73·5	+ 1·0	67	7	76·5	85·5	71·7	75·5	24·5	+ 0·9	25·6	78	+ 2	6
Calicut ...	27	1011·0	− 0·9	1007·5	87·9	− 0·6	91	23	73·6	+ 0·4	64	8	75·9	87·3	72·3	77·5	25·5	+ 0·5	27·7	83	+ 1	6
Palghat ...	319	1001·5		996·7	94·7		100	27	73·9		69	11	77·2	92·8	70·4	72·1	22·3		17·5	70		3
Cochin ...	10	1011·8	− 0·7	1008·0	87·0	0	90	21, 23	75·4	− 0·1	71	10	78·2	85·2	74·6	77·5	27·6	+ 3·2	28·7	83	+ 7	6
Alleppey ...	12	1011·5		1007·8	89·2		91	6 days	74·9		72	11, 28	77·9	85·6	75·1	77·3	28·5		28·2	87		6
Trivandrum ...	200	1004·5	− 1·1	1001·2	88·6		91	4 days	73·1		71	8,11,23	75·6	84·7	72·3	75·6	25·6	+ 1·1	26·1	85	+ 4	6
Nagercoil ...	195	1005·3		1002·0	90·0		92	4 days	74·5		72	1	78·8	85·0	71·5	73·9	23·0		23·6	69		5
Madras, Southeast																						
Pamban ...	37	1011·6	− 0·4	1008·3	84·9	+ 0·1	86	10,27,28	75·2	+ 0·2	74	13,24,25	79·4	80·0	76·2	76·5	29·4	+ 2·5	29·6	86	+ 4	8
Madura ...	437	997·8	− 0·9	993·7	89·3	− 1·0	95	28	71·3	+ 1·8	66	9	74·7	87·6	70·4	71·6	23·4	+ 0·2	19·2	79	0	4
Negapatam ...	31	1012·0	− 0·6	1009·2	83·4	− 1·4	86	15	74·0	+ 0·8	64	8	76·6	81·2	72·4	73·7	25·2	+ 0·1	25·0	80	0	6
Trichinopoly ...	295	1003·7	− 0·3	999·6	89·4	− 2·7	94	28	70·5	+ 1·2	63	9	75·1	87·5	70·3	71·5	23·4	0	19·1	78	− 1	4
Coimbatore ...	1,341	967·4	− 0·6	963·1	89·8	− 1·6	94	26, 28	68·7	+ 2·2	62	9,10	71·5	87·5	67·1	68·9	20·7	− 0·6	15·8	78	− 3	3
Salem ...	913	981·9	− 0·7	977·1	90·9	− 2·2	96	26, 27	68·2	+ 1·2	62	9	70·1	88·4	66·5	70·0	20·6	− 0·9	16·7	82	+ 5	3
Cuddalore ...	39	1012·1	− 0·6	1008·9	83·7	− 1·4	85	8 days	70·3	+ 0·3	65	6	72·6	81·1	70·6	73·2	24·6	+ 0·6	24·3	90	+ 3	6
Vellore ...	703	989·5	− 0·1	985·4	86·7	− 2·2	91	26, 28	67·3	+ 1·1	59	6, 7	71·2	84·8	68·1	71·3	22·1	+ 0·7	20·0	84	− 1	4
Madras	51	1011·9	− 0·4	1008·7	84·9	− 3·4	88	15,16,26	70·5	+ 2·1	65	6, 9	74·7	81·1	71·9	72·3	25·4	+ 1·2	22·9	87	+ 4	6
Arogyavaram ...	2,299	935·7		932·4	83·7		89	26	62·1		53	6	67·1	81·7	62·3	64·7	17·2		14·0	77		3
Madras, Deccan																						
Cuddapah ...	428	999·1	+ 0·1	994·6	90·5	− 3·8	97	26	70·1	+ 0·5	60	6	78·0	87·4	70·8	73·1	22·5	+ 1·8	21·4	67	0	5
Bellary ...	1,473	962·4	− 0·6	958·3	90·9	− 2·9	96	18,21,26	68·2	+ 2·1	60	5	71·7	89·5	64·0	67·5	16·9	+ 2·0	13·1	64	+ 7	2
Kurnool ...	923	981·5	− 0·3	977·0	92·5	− 1·0	97	26,28	67·2	+ 1·2	56	6	71·7	91·0	65·1	67·8	18·2	+ 2·1	12·9	69	+ 7	2
Rentichintala ...	348	1001·5		997·8	91·9	+ 0·5	98	26	68·5	− 0·6	59	10	73·5	90·4	68·5	69·7	21·5	+ 0·1	15·4	77	+ 4	3
Anantpur ...	1,148	973·4		969·1	90·5		96	25	66·9		56	4 days	73·0	88·8	66·2	68·7	18·9		14·9	68		3

† Pressure and cloud refer to aerodrome site, other remarks refer to cantonment site.

(*R*)—Register not received.

(*i*) Mean of 21 days.

(*f*) Mean of 25 days

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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	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
																													Sind
·1	+0·6	3·2	0·16	− 0·17	0·07	3,8	0	− 0·9	4·9	+ 1·2	1	0	7	3	1	2	1	4	9	4	1	1	5	3	1	4	6	3	Jacobabad
·5	−0·5	2·8	0	− 0·28	0		0	− 0·8	2·9	− 0·1	4	3	7	7	2	1	0	0	4	7	4	1	6	1	5	0	1	3	Sukkur
·9		2·1	0		0		0		4·0		6	3	1	1	1	0	2	6	8	6	1	0	1	2	2	4	4	8	Pad Idan
·1		2·5	0		0		0		4·3		5	4	1	1	3	2	0	1	11	7	3	0	0	0	4	4	9	1	Umarkot
·5	+1·4	3·1	0	− 0·24	0		0	− 0·6	3·5	− 0·5	6	1	0	0	2	2	0	5	12	10	4	1	1	3	3	0	6	0	Hyderabad
·4	+0·8	2·9	0·05	− 0·39	0·05	3	0	− 1·0	5·4	− 1·4	6	14	3	0	0	0	2	2	1	0	0	0	2	2	17	6	1	0	Karachi (Manora)
·3	−2·1	1·2	0	− 0·38	0		0	− 0·9	3·8		9	1	0	0	1	2	1	6	3	8	4	1	0	2	5	2	3	3	Badin
																													Rajputana, West
·1	−2·0	2·2	0·47	− 0·66	0·41	8	1	− 1·0	2·6	− 1·6	0	0	1	1	0	2	0	4	20	4	2	1	0	0	1	0	18	7	Sri Ganganagar
·4	−1·8	1·9	0·17	− 0·10	0·08	8	0	− 0·7	1·9	− 1·7	0	1	0	2	1	1	0	0	23	4	10	1	0	0	2	1	4	6	Bikaner
·5		3·5	0·02	− 0·17	0·02	15	0	− 0·5	5·9		4	1	2	11	7	1	1	1	0	8	5	1	1	4	3	2	4	0	Phalodi
·0	−0·8	3·3	0·05	− 0·19	0·05	14	0	− 0·6	2·6	− 4·2	0	23	2	0	0	0	1	0	2	4	1	6	3	0	3	3	3	5	Jodhpur
·9	−1·7	1·9	0	− 0·28	0		0	− 0·6	3·6	− 1·3	1	0	0	0	0	1	2	8	16	3	3	2	0	2	3	2	3	5	Barmer
																													Rajputana, East
·3		3·6	0·81		0·16	8	2		2·6		0	1	8	12	0	0	0	1	6	3	1	4	2	2	2	3	11	0	Sikar
·7	+0·1	2·9	0·27	+ 0·05	0·14	23	1	+ 0·2	4·0	+ 0·1	2	7	2	0	0	0	0	1	16	3	1	2	2	3	3	5	8	1	Jaipur
·6	−0·5	2·6	0·27	+ 0·01	0·27	15	1	+ 0·3	2·1	0	1	1	1	2	0	0	0	1	22	1	4	2	2	1	5	4	2	7	Ajmer
·1	−1·1	2·1	0·03	− 0·18	0·03	5	0	− 0·5	2·0	+ 0·3	0	0	2	1	0	1	4	3	17	2	6	2	2	1	2	2	3	3	Kotah
3	−0·6	1·9	0	− 0·08	0		0	− 0·4	2·7	+ 0·1	4	2	0	3	1	0	2	3	13	7	11	1	0	0	4	3	2	0	Brijnagar
9		3·1	0		0		0		5·4		15	1	0	0	0	0	1	10	1	5	1	4	3	1	0	2	3	4	Rajsamand
																													Gujarat
																													Deesa *
8	+0·3	1·3	0	− 0·17	0		0	− 0·4	3·1	− 1·5	1	0	0	0	0	0	0	0	27	10	4	0	0	0	2	3	4	5	Bhuj
4	+0·1	1·7	0	− 0·24	0		0	− 0·5	10·3	+ 1·6	14	9	1	0	0	0	1	3	0	7	2	1	0	0	0	5	13	0	Dwarka*
9	+0·4		0	− 0·08	0		0	− 0·2	3·2	− 3·7	0	0	0	0	0	0	0	0	28										Jamnagar
4	−0·6	1·9	0	− 0·09	0		0	− 0·3	5·3	+ 0·5	1	2	4	1	1	1	0	1	17	5	6	3	1	0	1	0	8	4	Rajkot
5	+0·1	2·0	0	− 0·07	0		0	− 0·2	9·4		9	10	1	0	0	0	0	4	4	0	1	0	0	2	3	12	5	0	Veraval
6	+0·5	2·0	0	− 0·08	0		0	− 0·2	3·5	+ 0·3	1	5	5	3	0	0	1	2	11	1	2	0	0	1	5	7	10	2	Surat
1	−0·5	1·4	0	− 0·06	0		0	− 0·2	4·0	− 0·2	1	1	1	0	1	6	14	0	4	4	11	6	2	1	2	1	1	0	Bhavnagar
8	+0·3	1·9	0	− 0·02	0		0	− 0·2	3·6	0	2	11	9	0	1	0	0	2	3	0	5	2	0	1	1	3	7	9	Ahmedabad
0	+0·1	3·1	0	− 0·04	0		0	− 0·2	6·1	+ 2·9	0	9	7	4	6	0	1	0	1	2	4	2	3	1	4	9	2	1	Dohad
5	+0·1	2·3	0	− 0·21	0		0	− 0·3	1·4	− 0·9	1	5	0	0	0	1	0	0	21	1	2	1	0	0	1	4	4	15	Baroda
																													Central Ind., West
5	+0·8	3·4	0·04	− 0·11	0·04	15	0	− 0·4	4·0	− 0·6	3	13	2	1	0	0	0	0	4	2	6	2	2	2	4	5	1	4	Neemuch
3	+0·2	3·1	0·05	− 0·09	0·03	6	0	− 0·5	3·0	+ 0·6	1	5	8	7	1	2	0	0	4	5	8	1	3	2	1	3	2	3	Indore
0	+1·1	3·2	0·01	− 0·14	0·01	8	0	− 0·5	2·6	− 0·2	1	4	1	0	0	1	1	0	20	3	4	1	1	0	3	4	1	11	Bhopal
0	−0·5	1·6	0·14	− 0·05	0·11	8	1	+ 0·4	2·6	− 0·2	0	0	0	0	0	0	0	0	28	2	0	2	2	0	2	5	3	12	Guna
3		2·1	0·21		0·14	15	1		1·6		0	0	0	0	1	2	2	2	21	8	1	2	0	1	1	2	4	9	Gwalior
1		2·5	0·19		0·10	5	1		3·7		0	1	1	0	4	11	2	1	8	3	2	1	3	1	3	4	11	0	Madhosagar
																													Central India, East
7	−1·9	2·2	0·38	− 0·19	0·16	15	3	+ 1·7	2·5	+ 0·9	0	1	2	0	11	4	0	0	10	3	5	1	0	0	3	9	4	3	Nowgong
5	+0·1	3·1	1·38	+ 0·60	0·60	16	3	+ 1·2	2·2	− 0·4	2	0	2	1	0	2	3	2	16	0	1	2	1	0	4	10	6	4	Sutna
5	0	2·4	1·23	+ 0·23	0·79	15	3	+ 1·1	2·1	− 0·4	2	0	6	1	6	0	1	0	12	15	2	0	1	0	0	3	3	1	Umaria
																													Berar
0	+0·3	2·5	0·19	− 0·11	0·19	21	1	+ 0·4	4·1	+ 1·0	2	5	5	3	2	2	1	0	8	3	6	3	4	2	1	2	5	2	Akola
7	+1·0	3·5	0·41	− 0·03	0·35	18	1	+ 0·2	6·4	+ 2·4	1	12	10	2	1	1	0	1	0	0	7	1	8	0	8	0	4	0	Amraoti
																													C. P., West
5	+1·2	4·0	0·02	− 0·14	0·02	23	0	− 0·4	3·8	+ 0·4	4	8	3	1	2	0	3	0	7	9	5	3	4	1	2	1	2	1	Khandwa
1	+1·0	2·6	0·13	− 0·25	0·13	6	1	+ 0·1	3·2	+ 1·0	1	6	17	2	0	2	0	0	0	2	3	10	3	2	3	3	0	2	Hoshangabad
2	+1·4	3·8	0·97	+ 0·50	0·68	8	2	+ 0·8	8·8	− 0·1	1	11	7	5	3	1	0	9	0	3	8	3	3	0	4	3	4	0	Saugor
0	+0·9	1·9	1·13	+ 0·37	0·94	15	2	+ 0·3	2·5	+ 0·8	2	2	0	10	0	0	0	0	14	2	14	0	1	1	0	3	5	2	Jubbulpore
1	+0·5	3·1	1·59	+ 0·78	0·56	19	5	+ 3·0	3·2	+ 0·4	5	7	2	3	1	0	0	0	10	5	2	5	4	4	7	1	0	0	Seoni
1	+1·0	3·9	1·44	+ 0·79	0·77	18	5	+ 3·6	2·7	− 1·4	19	1	4	1	1	0	0	0	2	7	2	4	1	7	2	4	0	1	Nagpur
																													C. P., East
		2·0	2·63		1·90	19	2		2·6		7	5	3	7	0	1	0	4	1	6	2	4	4	1	5	2	2	2	Gondia
1	+0·6	2·5	0·45	− 1·02	0·20	19	2	− 0·9	2·9	+ 0·5	6	1	0	0	2	2	2	5	10	10	0	2	3	3	3	1	5	1	Pendra
		3·0	1·60		0·71	19	3		3·9		13	7	1	1	0	0	0	5	1	1	4	2	3	2	1	6	7	2	Champa
	0	1·8	1·53	+ 0·66	0·78	19	2	+ 0·2	3·0	+ 0·4	1	7	0	3	0	3	0	0	14	1	8	1	0	0	4	0	2	12	Raipur
		2·1	0·41		0·23	19	2		1·6		2	2	1	2	2	0	1	1	17	8	6	0	2	1	2	2	3	4	Titilagarh
	+2·4	4·0	0·98	+ 0·12	0·44	19	3	+ 0·9	1·9	− 0·8	0	1	0	0	1	0	0	1	25	4	5	1	0	0	0	2	6	10	Kanker
	+0·9	3·2	0·96	+ 0·15	0·52	16	2	+ 0·7	3·1	+ 1·0	0	3	2	7	0	0	0	2	14	12	0	12	2	2	0	0	0	0	Chanda
	−0·8	1·6	0·02	− 1·06	0·02	25	0	− 1·6	2·4	+ 0·5	0	9	0	1	0	4	0	4	10	0	7	0	0	0	14	0	3	4	Jagdalpur

* Data Rejected

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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
Konkan																						
Dahanu ...	15	1012·0		1009·6	85·9		93	4 days	62·4		58	10	65·6	79·7	62·1	74·0	16·3		26·0	81		7
Bombay ...	35	1011·1	− 1·5	1008·5	85·8	+ 2·2	93	4	68·9	+ 1·5	62	9	72·0	81·6	67·4	71·7	21·0	+ 2·1	21·9	78	+ 4	6
Alibag ...	23	1012·3	− 0·4		83·3	+ 1·2	88	4	64·9	0	59	9	68·8		64·0		18·3	+ 0·9		76	+ 6	
Harnai ...	66	1009·3		1008·3	81·7		90	4	67·1		60	22	74·9	80·3	69·0	73·9	21·5		25·6	73		7
Devgad ...	117	1008·4		1005·4	85·8		90	24	71·5		68	18	74·4	83·5	68·9	73·9	21·7		24·4	73		6
Marmagao ...	202	1005·6	− 0·6	1002·3	84·6	+ 0·7	89	6	70·3	− 0·9	67	4 days	75·8	83·0	70·0	73·8	22·3	+ 0·5	24·2	74	− 2	6
Honavar ...	85	1010·1		1006·6	88·2		92	5	69·3		60	10	72·7	84·9	68·3	74·1	21·6		24·0	79		5
Bombay Deccan																						
Jalgaon ...	660	990·5		986·7	91·7		93	28	59·7		51	9, 25	64·8	91·5	57·8	71·6	13·2		17·4	64		3
Malegaon ...	1,432	963·7	− 1·3	960·1	90·2	+ 0·8	97	28	57·8	+ 3·1	51	9, 10	61·9	88·4	54·7	66·8	11·4	+ 2·4	12·9	62	+14	2
Ahmednagar ...	2,154	939·7	− 0·9	936·0					59·5	+ 3·6	53	8, 9	64·0	87·1	57·0	66·6	13·1	+ 3·6	13·9	65	+22	3
Poona ...	1,884	950·4	− 0·8	946·6	91·0	+ 0·5	96	27, 28	57·8	+ 2·7	51	18	60·8	88·8	57·2	64·7	14·5	+ 3·6	11·2	81	+17	2
Sholapur ...	1,570	959·5	− 0·4	955·5	92·4	− 0·1	96	22	65·5	+ 2·6	54	7	69·6	90·7	59·2	66·9	12·8	+ 2·8	13·0	53	+10	2
Miraj ...	1,817	950·7	− 1·0	946·5	91·9	+ 1·4	96	24, 27	60·3	+ 1·3	53	6, 7	64·9	89·6	57·1	66·4	12·9	− 0·1	13·3	61	0	2
Bijapur ...	1,950	945·9	− 1·3	942·4	90·6	− 0·4	94	8 days	65·5	+ 1·6	61	7 days	69·4	89·5	60·1	67·2	14·0	+ 1·1	13·8	57	+ 2	2
Belgaum ...	2,662	926·2	− 0·7	923·1	86·7	− 1·6	92	27, 28	58·7	− 0·6	53	7	62·9	84·3	57·5	64·0	13·9	+ 1·6	11·7	73	+14	3
Gadag ...	2,181	940·7	− 0·3	937·6	90·5	− 0·2	95	6 days	65·7	+ 0·8	60	9, 10	71·5	88·4	62·7	65·2	16·5	+ 2·4	11·8	60	0	2
Hyderabad, North																						
Aurangabad ...	1,905	948·4	− 1·0	945·0	89·1	+ 0·5	94	23	62·6	+ 3·0	56	8	66·6	88·1	57·4	66·9	11·9	+ 2·9	12·8	54	+11	3
Parbhani ...	1,850	965·4		961·6	91·7		95	19,23,28	61·6		57	9, 19	67·1	89·7	59·7	68·1	14·0		13·9	63		2
Bidar ...	2,178	939·1		935·8	86·7	− 1·1	91	18	66·1	+ 1·4	60	5	70·5	85·9	62·2	65·0	15·9	+ 1·2	12·6	61	+ 5	3
Nizamabad ...	1,250	969·8	− 1·0	966·2	90·1	− 0·7	94	15,19	65·7	+ 3·7	59	3, 28	69·4	83·1	63·0	66·0	16·7	+ 2·6	11·9	69	+12	2
Peddapalli (*R*) ...																						
Hyderabad, South																						
Gulbarga ...	1,503	961·8	− 0·5	957·5	91·8	− 0·5	96	18	66·7	+ 2·4	57	6	73·3	90·3	63·9	70·5	16·5	+ 3·9	16·9	58	+ 7	3
Raichur ...	1,311	967·8	− 0·8	964·2	90·9	− 1·2	96	18,26	69·7	+ 1·3	61	6	72·6	89·3	65·4	67·6	18·0	+ 2·4	14·3	67	+10	2
Hyderabad(Begumpet)	1,778	952·7	− 0·2	949·3	89·9	+ 0·6	94	17	64·8	+ 2·3	55	5	68·8	86·9	63·5	68·0	17·6	+ 1·5	14·8	74	+ 6	3
Hanamkonda ...	881	983·2	− 0·7	979·3	89·9	+ 0·4	94	28	67·7	+ 1·8	61	3	70·1	88·5	67·0	67·9	20·8	+ 1·8	14·1	82	+ 9	3
Khammameth ...	367	1001·3		996·8	91·6		97	27	69·0		61	4	73·7	89·4	69·3	69·5	22·4		15·5	79		3
Mysore																						
Chitaldrug ...	2,405	931·3	− 0·6	927·7	87·5	− 2·1	92	26	65·9	− 0·3	56	6	69·8	86·1	63·1	65·4	17·1	+ 2·1	13·0	69	+12	3
Hassan ...	3,149	907·3		904·2	85·5	− 1·5	90	19	61·8	+ 2·3	52	7	65·8	82·9	62·3	67·0	17·8	+ 1·5	16·1	82	+11	4
Bangalore ...	3,021	911·7	− 0·6	908·5	83·4	− 2·2	88	26	61·6	+ 1·6	54	9	65·2	81·3	61·4	61·3	17·0	+ 0·7	10·4	80	+ 7	2
Mysore ...	2,518	928·0	− 0·5	924·8	85·8	− 3·1	90	26, 28	64·8	+ 0·6	57	7, 8	67·1	85·4	63·1	64·3	18·1	+ 0·9	12·5	80	+11	2
Malabar																						
Mangalore ...	72	1010·0	− 0·6	1006·4	88·3	+ 0·1	91	5	73·5	+ 1·0	67	7	76·5	85·5	71·7	75·5	24·5	+ 0·9	25·6	78	+ 2	6
Calicut ...	27	1011·0	− 0·9	1007·5	87·9	− 0·6	91	23	73·6	+ 0·4	64	8	75·9	87·3	72·3	77·5	25·5	+ 0·5	27·7	83	+ 1	6
Palghat ...	319	1001·5		996·7	94·7		100	27	73·9		69	11	77·2	92·8	70·4	72·1	22·3		17·5	70		3
Cochin ...	10	1011·8	− 0·7	1008·0	87·0	0	90	21, 23	75·4	− 0·1	71	10	78·2	85·2	74·6	77·5	27·6	+ 3·2	28·7	83	+ 7	6
Alleppey ...	12	1011·5		1007·8	89·2		91	6 days	74·9		72	11, 28	77·9	85·6	75·1	77·3	28·5		28·2	87		6
Trivandrum ...	200	1004·5	− 1·1	1001·2	88·6		91	4 days	73·1		71	8,11,23	75·6	84·7	72·3	75·6	25·6	+ 1·1	26·1	85	+ 4	6
Nagercoil ...	195	1005·3		1002·0	90·0		92	4 days	74·5		72	1	78·8	85·0	71·5	73·9	23·0		23·6	69		5
Madras, Southeast																						
Pamban ...	37	1011·6	− 0·4	1008·3	84·9	+ 0·1	86	10,27,28	75·2	+ 0·2	74	13,24,25	79·4	80·0	76·2	76·5	29·4	+ 2·5	29·6	86	+ 4	8
Madura ...	437	997·8	− 0·9	993·7	89·3	− 1·0	95	28	71·3	+ 1·8	66	9	74·7	87·6	70·4	71·6	23·4	+ 0·2	19·2	79	0	4
Negapatam ...	31	1012·0	− 0·6	1009·2	83·4	− 1·4	86	15	74·0	+ 0·8	64	8	76·6	81·2	72·4	73·7	25·2	+ 0·1	25·0	80	0	6
Trichinopoly * ..	295	1003·7	− 0·3	999·6	89·4	− 2·7	94	28	70·5	+ 1·2	63	9	75·1	87·5	70·3	71·5	23·4	0	19·1	78	− 1	4
Coimbatore ...	1,341	967·4	− 0·6	963·1	89·3	− 1·6	94	26, 28	68·7	+ 2·2	62	9,10	71·5	87·5	67·1	68·9	20·7	− 0·6	15·8	78	− 3	3
Salem ..	913	981·9	− 0·7	977·1	90·9	− 2·2	96	26, 27	68·2	+ 1·2	62	9	70·1	88·4	66·5	70·0	20·6	− 0·9	16·7	82	+ 5	3
Cuddalore ...	39	1012·1	− 0·6	1008·9	83·7	− 1·4	85	8 days	70·3	+ 0·9	65	6	72·6	81·1	70·6	73·2	24·6	+ 0·6	24·3	90	+ 3	6
Vellore ...	703	989·5	− 0·1	985·4	86·7	− 2·2	91	26, 28	67·3	+ 1·1	59	6, 7	71·2	84·8	68·1	71·3	22·1	+ 0·7	20·0	84	− 1	4
Madras	51	1011·9	− 0·4	1008·7	84·9	− 3·4	88	15,16,26	70·5	+ 2·1	65	6, 9	74·7	81·1	71·9	72·3	25·4	+ 1·2	22·9	87	+ 4	6
Arogyavaram ...	2,299	935·7		932·4	83·7		89	26	62·1		53	6	67·1	81·7	62·3	64·7	17·2		14·0	77		3
Madras, Deccan																						
Cuddapah ...	428	999·1	+ 0·1	994·6	90·5	− 3·8	97	26	70·1	+ 0·5	60	6	78·0	87·4	70·8	73·1	22·5	+ 1·8	21·4	67	0	5
Bellary ...	1,473	962·4	− 0·6	958·3	90·9	− 2·9	96	18,21,26	68·2	+ 2·1	60	5	71·7	89·5	64·0	67·5	16·9	+ 2·0	13·1	64	+ 7	2
Kurnool ...	923	981·5	− 0·3	977·0	92·5	− 1·0	97	26,28	67·2	+ 1·2	56	6	71·7	91·0	65·1	67·8	18·2	+ 2·1	12·9	69	+ 7	2
Rentichintala ...	248	1001·5		997·3	91·9	− 0·5	98	26	68·5	− 0·6	59	10	68·5	90·4	68·5	69·7	21·5	+ 0·1	15·4	77	+ 4	3
Anantpur ...	1,148	973·4		969·1	90·5		96	26	66·9		56	4 days	73·0	88·8	66·2	68·7	18·9		14·9	68		3

† Pressure and cloud refer to aerodrome site, other remarks refer to cantonment site. (*R*)—Register not received.

(*j*) Mean of 21 days. (*f*) Mean of 25 days.

Cloud amount (tenths of sky).		Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION
										8 hrs. I. S. T.										17 hrs. I. S. T.									
Departure from normal.	Mean 17 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
																												Madras Coast, North
+1·1	3·1	0·86	+ 0·62	0·83	12	1	+ 0·5	3·4	+ 0·1	2	0	0	2	2	1	0	2	19	0	2	14	12	0	0	0	0	0	Nellore
	3·7	0·10		0·08	12	0		4·5[d]		4	0	0	3	2	4	4	4	7	1	0	6	15	0	0	0	0	6	Ongole
+1·1	2·9	0·05	− 0·48	0·05	13	0	− 0·6	5·0	+ 1·2	9	2	2	2	0	0	0	1	5	0	1	4	14	9	0	0	0	0	Masulipatam
−1·2	1·6	1·25	+ 0·93	1·23	1	1	+ 0·4	7·0	+ 2·3	3	13	1	1	0	1	0	6	3	0	0	0	27	1	0	0	0	0	Cocanada
−1·2	2·1	0	− 0·94	0		0	− 1·1	3·2	0	1	1	1	0	0	1	1	2	21	0	0	7	11	8	2	0	0	2	Visagapatam
+1·7	4·2	0	− 0·61	0		0	− 1·3	6·4	+ 1·4	14	0	0	0	0	0	0	14	0	0	0	7	7	8	6	0	0	0	Calingapatam
																												Hill Stations, excluding Kashmir and Baluchistan
−0·5	8·1	0	− 1·06	0		0	− 2·8	3·0	+ 0·7	1	1	2	1	1	7	2	0	13	4	2	0	0	2	2	1	3	14	Shillong
−1·9	2·5	0·08	− 2·08	0·08	10	0	− 3·5	6·4	+ 1·4	2	5	3	2	2	3	4	1	1	0	1	0	1	3	20	3	0	0	Cherrapunji
	0·7	0		0		0		4·5		0	4	11	4	0	4	5	0	0	1	0	0	0	0	4	14	2	0	Aijal
+0·1	6·3	0·11	− 1·08	0·10	25	1	− 1·6	4·5	+ 0·4	1	1	9	4	1	2	5	2	3	0	0	0	1	0	2	23	2	0	Darjiling
−0·4	4·7	0	− 1·13	0		0	− 3·0	6·3	− 0·6	3	1	1	4	1	0	3	10	5	1	0	0	15	5	1	0	5	1	Kalimpong
+1·6	4·5	0·28	− 1·39	0·26	9	1	− 4·5	1·1	− 0·2	0	0	0	0	0	0	0	0	28	0	0	1	0	0	1	3	1	22	Katmandu
−1·1	3·3	2·99	+ 0·26	1·02	9	4	− 0·7	6·6	+ 0·8	1	6	5	2	0	3	7	2	2	0	1	1	1	0	10	13	2	0	Muktesar
−2·0	4·5	2·38	− 1·03	0·71	6	5	− 0·2	3·5	− 1·0	8	10	1	0	1	0	0	0	8	1	1	0	6	12	6	1	0	1	Mussooree
−1·6	4·7	1·38	− 1·54	0·62	24	3	− 2·7	2·4	− 1·3	5	6	0	5	4	0	0	0	7	3	0	0	3	11	9	0	1	1	Simla
−0·4	6·4	2·52	− 1·79	0·79	6	4	− 2·4	8·9	+ 2·8	0	11	9	4	0	0	2	2	0	0	2	6	7	3	0	1	2	7	Murree
−1·5	3·4	2·55	+ 1·07	0·92	5	4	+ 0·4	2·4		0	0	0	1	1	0	1	0	25	0	0	4	7	4	3	2	1	7	Wana
−1·5	4·4	3·75	+ 0·54	1·63	5	3	− 1·7	13·3	+ 3·9	20	0	0	1	1	0	1	5	0	16	0	0	2	8	0	0	1	1	Cherat
+0·1	6·4	2·19	− 0·44	1·15	4	6	+ 0·6	3·5	+ 1·2	7	3	0	0	0	0	4	5	9	0	1	2	7	10	3	3	1	1	Parachinar
+1·1	5·9	6·07	+ 4·52	1·73	4	8	+ 4·3	3·7	+ 0·8	0	3	5	7	1	2	0	0	10	0	2	4	12	1	2	0	0	7	Drosh
−0·4	2·4	0·03	− 0·20	0·03	14	0	− 0·6	3·3	− 1·1	4	2	1	2	1	1	2	0	15	1	3	1	2	2	8	0	0	5	Abu
+1·1	3·4	0·23	− 0·44	0·15	18	1	− 0·5	1·9	− 1·2	1	1	1	5	1	3	2	1	13	5	4	1	1	2	1	4	9	1	Pachmarhi
−0·2	1·6	0	− 0·10	0		0	− 0·1	1·4	− 4·4	0	4	4	3	0	6	0	3	8	0	0	1	2	0	11	0	9	5	Mahabaleshwar
−0·2	4·5	0	− 0·24	0		0	− 0·5	4·4	+ 1·1	0	7	8	0	0	0	1	1	11	0	11	10	0	0	0	2	2	3	Mercara
+1·8	5·3	0	− 0·51	0	4 days	0	− 1·1	0·8	− 2·0	1	3	3	0	0	0	0	0	21	4	4	1	1	3	0	0	0	15	Ootacamund
+4·4		1·09	− 1·77	0·33	20	5	+ 2·3	4·0	+ 1·0	2	1	1	3	2	0	0	1	18										Coonoor
+1·9	6·0	0·53	− 1·00	0·32	21	2	− 0·4	7·1	− 0·7	10	11	1	1	1	0	0	1	3	9	4	1	1	0	0	0	6	7	Kodaikanal
																												Ceylon
−0·2	3·7	3·07	+ 0·89	2·96	21	2	− 1·5			3	13	9	2	0	0	0	0	1	5	3	0	1	0	2	2	14	1	Colombo
+0·5	5·6	5·37	+ 3·03	2·71	20	4	+ 1·1			3	6	3	1	0	8	3	3	1	16	4	6	1	0	0	1	0	0	Trincomalee
+1·0	6·0	0·66	− 0·93	0·56	21	2	− 0·8			25	1	0	0	0	0	0	2	0	2	0	20	0	5	1	0	0	0	Hambantota
	4·5	1·26		1·12	20	2				3	10	9	3	1	0	0	0	2	13	11	2	0	0	0	1	1	0	Mannar
																												Afghanistan
	7·0	1·06		0·53	5	2		2·5		1	0	1	0	2	6	8	3	7	1	0	1	3	1	8	0	1	13	Jalalabad
+0·8	8·7	2·16	+ 0·67	0·51	4	6	+ 2·6	6·6	+ 3·1	2	1	0	0	6	10	5	2	2	0	0	1	2	9	9	2	1	3	Kabul
	3·1	1·92		0·52	3	5		3·1		0	4	0	1	0	1	0	0	22	0	6	0	1	0	7	0	1	13	Kandahar

d—mean of 27 days.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED A

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 4 hrs. G. M. T.	Departure from normal.	Mean 13 hrs. G. M. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 4 hrs. G. M. T.	Mean 13 hrs. G. M. T.	Mean 4 hrs. G. M. T.	Mean 13 hrs. G. M. T.	Mean 4 hrs. G. M. T.	Departure from normal.	Mean 13 hrs. G. M. T.	Mean 4 hrs. G. M. T.	Departure from normal.	Mean 13 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Iran																						
Charbar ...	25	1014·1		1011·7					64·5	+ 3·1	54	8	70·3	73·1	66·1	67·9	20·0	+2·9	21·1	78	0	76
Jask ...	13	1015·1		1013·1	76·4	+ 1·0	79	4 days	63·7	+ 1·9	58	7, 8, 10	66·6	75·2	60·2	66·4	14·8	−1·3	17·9	67	− 7	63
Bandar Abbas ...	29	1014·4		1012·8	75·4		79	28	57·7		52	8	64·8	75·0	59·4	64·8	14·8		16·6	71		55
Bushire ...	131	1013·4		1011·5	69·3		79	27	51·9		43	6	61·4	66·3	56·7	60·2	13·6		15·0	74		69
Ispahan (*R*) ...	14																					
Meshed ...	5,817	898·3		895·8	51·1	+ 2·6	70	19	27·9	+ 0·5	12	5	36·3	47·9	38·7	40·6	5·6	+0·1	5·6	76	− 5	53
Seistan ...	3,104	961·3		958·2	67·1	+ 2·7	81	3	38·4	− 0·4	27	15	45·2	66·1	40·4	51·8	6·5	−1·2	7·3	65	− 6	34
Arabia																						
Bahrain ...	12	1016·0		1014·5	69·9	0	78	19	58·4	− 0·4	53	8, 9, 27	61·1	66·5	57·8	60·7	14·7	−0·8	15·3	81	− 2	67
Muscat ...	15			1012·0					67·6	+ 1·0	59	1	72·0	73·2	63·5	66·8	16·2	−1·6	19·3	61	−13	70
Sharjah ...	18	1015·6		1013·7	76·5	+ 0·9	85	2	55·4	− 1·0	49	10	60·2	73·7	56·9	64·8	14·1	+0·4	16·8	80	+ 3	59

(*R*)—Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 HRS. G. M. T.) AT 4TH CLASS STATIONS—FEBRUARY 1947

STATION.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature 8 hrs. I. S. T. °F.	Mean wet bulb temperature 8 hrs. I. S. T. °F.	Vapour pressure, millibars.		Relative Humidity %		Mean cloud amount 8 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 8 hrs. I. S. T.	Departure from normal.	Mean 8 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 8 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 ...	81·3	+ 4·2	86	25,27,26	49·6	− 0·7	45	4 days	64·7	59·2	14·1	−0·2	70	−20		0·04	− 1·26	0·04	27	0	− 3·0		
Bengal																							
Pabna ...	88·7	+ 0·7	91	25	57·7	+ 1·9	52	1, 21, 22	65·9	60·0	15·0	−0·8	69	− 5		0	− 0·96	0		0	− 1·9		
Kashmir																							
Jammu ...	78·1	+ 4·5	89	22	50·4	− 0·8	46	10	55·7	49·4	9·2	−0·3	63	− 6	3·5	0·79	− 1·64	0·62	6	1	− 2·7	N 17 E	
Kargil ...	24·8	− 4·9	35	7	4·8	− 4·7	− 4	11	8·9	8·8	9·0	−0·2	99	+21	3·6	0·53	− 0·80	0·30	23	2	− 1·1	S 27 E	
Mysore																							
Balehonnur ...	83·8	− 0·5	87	5 days	60·7	+ 0·6	53	7	65·4	62·6	18·2	+1·3	86	+ 3		0	− 0·06	0		0	− 0·2		
Tibet																							
Yatung (Chumbi) ...	49·0	+ 3·8	54	16	18·5	− 3·2	14	2	27·1	26·3	4·6	+0·9	88	+ 3	2·1	0·72	− 1·43	0·50	25	1	− 2·9		
Iran																							
Zahidan ...	62·4	+ 1·3	74	1, 2	35·9	+ 0·9	23	8, 15	48·5	38·9	4·3	− 3·4	39	−24	3·0	1·17	+ 0·59	0·30	27	5	+ 3·0	S 18 E	7·8

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											4 hrs. G. M. T.									12 hrs. G. M. T.								
Mean 4 hrs. G. M. T.	Departure from normal.	Mean 12 hrs. G. M. 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
																													Iran
1·0	− 1·5	0·9	0	− 1·01	0		0		0	− 1·8	2	2	1	0	0	0	0	6	11	0	0	0	1	5	6	2	0	7	Charbar
2·5	− 0·5	2·6	1·21	+ 0·25	0·70	21	3	+ 1·2	9·0	0	5	10	4	0	0	0	2	7	0	0	0	1	5	2	9	11	0	0	Jask
1·7		1·2	1·70		1·50	19	2		3·7		0	6	0	0	0	0	0	2	20	0	11	0	6	2	1	0	0	8	Bandar Abbas
2·3		2·7	1·86		1·86	19	1		7·5		6	4	5	1	0	0	0	7	5	1	1	0	0	3	5	6	11	1	Bushire
																													Ispahan (*R*)
6·7	+ 0·7	6·7	1·21	− 0·17	0·49	3	4	+ 0·7	1·4	− 0·2	1	0	3	0	1	0	0	0	23	1	1	2	0	1	0	1	1	21	Meshed
2·8	− 0·5	4·6	0·05	− 0·39	0·03	27	0	− 1·5	3·6	− 1·3	0	0	0	0	0	0	0	10	18	0	1	0	1	0	0	0	4	23	Seistan
																													Arabia
3·2	− 0·7	3·3	0·40	− 0·30	0·16	28	3	+ 1·1	5·6	− 3·8	1	0	2	1	2	0	3	11	8	5	1	2	4	1	0	2	13	0	Bahrain
2·0	− 0·6	2·1	0·10	− 0·61	0·10	19	1	− 0·4	4·0	− 0·2	0	0	0	0	0	0	2	5	21	0	0	1	1	0	0	3	5	18	Muscat
3·6	− 0·3	2·4	0·27	− 0·73	0·20	26	1	− 0·7	7·6	0	1	1	5	3	2	3	1	2	0	5	0	0	0	0	3	7	13	0	Sharjah

(*R*)—Register not received.

TABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 HRS. G. M. T.) AT 5TH CLASS STATIONS—FEBRUARY 1947

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 (*R*)							Baluchistan	Harnai	1·31	− 0·02	0·79	5	3	+ 0·6
Bengal	Bankura	0·45	− 0·69	0·28	19	2	− 0·1	Rajputana, East	Udaipur	0	− 0·14	0		0	− 0·5
	Rajshahi	0·04	− 0·65	0·04	16	0	− 1·7	Bombay, Deccan	Khandala	0	− 0·12	0		0	− 0·3
	Sirajganj	0	− 0·74	0		0	− 1·7	Madras Southeast	Palamcottah	2·42	+ 1·25	1·41	20	2	+ 0·3
	Rangpur	0	− 0·70	0		0	− 1·3	Sikkim	Lachung	2·59	− 0·10	0·42	25	6	− 1·7
	Cooch Behar	0	− 0·81	0		0	− 1·8								
Bihar	Muzaffarpur	0·35	− 0·22	0·20	9	2	+ 0·3								
	Chapra	0·35	− 0·33	0·35	16	1	− 0·6								
	Arrah	0·76	− 0·07	0·76	16	1	− 0·6								
United Provinces, West.	Meerut	1·01	− 0·01	0·48	9	3	+ 0·8								
Punjab, East and North.	Dharampore	1·59	− 1·70	0·60	24	5	− 0·5								
	Kyelang	1·70	− 0·84	0·78	5	5	− 0·8								
	Dalhousie	2·51	− 4·14	1·12	6	5	− 3·5								
Kashmir	Sonamarg	4·79	− 4·54	1·74	6	5	− 4·9								
	Gurez	5·90	− 1·67	0·96	3, 4	11	+ 1·1								

(*R*)—Register not received.

Monthly Means of Upper Winds

Note.—Data up to 9·0 Km. a. s. l. are given under Table A and data above 9·0 Km. under Table B. In Tables A and B.

n represents the number of observations,

V represents the mean speed in m/sec irrespective of directions,

v represents the resultant mean velocity in m/sec., and

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

For the co-ordinates of the stations for which data have been published in these tables and other particulars please refer to the introduction to the Monthly Weather Report, January 1947. In addition to the data for stations mentioned therein the data for Deolali Lat. 19° 53′ N, Long. 73°49′ E. Ht. 576 metres a. s. l., have been included in this issue.

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level.

FEBRUARY 1947

Station.	AHMEDABAD																			
Time I. S. T.					0700				1600				0100							
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.					28	0·8	0·7	45	23	2·1	0·3	21	28	0·8	0·2	354				
0·15 a. g.					28	10·3	7·9	62	28	8·5	0·9	304	28	8·1	5·0	11				
0·6 a. s. l.					28	8·8	5·2	74	28	3·2	0·3	292	28	6·1	3·3	15				
1·0 „ .					27	5·7	1·7	67	28	3·4	0·8	306	28	4·7	0·7	38				
1·5 „ .					26	5·5	3·0	246	28	3·8	1·4	259	28	5·2	2·3	217				
2·0 „ .					26	7·0	4·9	251	28	6·3	3·9	249	27	6·2	4·5	235				
2·5 „ .					26	8·5	6·4	245	27	7·6	6·1	245	24	7·5	6·0	241				
3·0 „ .					26	9·6	7·7	248	28	8·4	6·8	250	18	9·2	7·3	246				
4·0 „ .					21	11·3	10·2	261	26	11·3	10·2	258	1	8·5	8·5	275				
5·0 „ .					15	14·2	13·4	269	22	15·3	14·3	267								
6·0 „ .					10	19·4	18·7	277	16	22·7	22·2	269								
7·5 „ .					1	26·0	26·0	285	1	22·0	22·0	265								
9·0 „ .																				

Station.	ALLAHABAD												AMBALA							
Time I. S. T.	0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	28	1·1	0·7	255	28	2·8	2·1	283	23	30·5	0·5	253	28	2·8	1·7	338	28	3·4	1·7	310
0·15 a. g.	27	5·9	2·9	280	26	4·0	3·3	290	23	5·3	3·4	323	27	7·9	5·5	330	28	6·2	3·1	296
0·6 a. s. l.	27	5·7	4·0	312	26	4·5	3·6	280	28	5·9	4·7	313	27	8·8	6·3	330	28	6·2	3·2	299
1·0 „ .	27	6·1	5·1	300	27	5·0	4·6	286	28	6·5	5·9	293	27	7·3	5·4	326	28	6·3	3·6	302
1·5 „ .	27	8·1	7·6	294	27	7·2	6·8	292	27	7·5	6·9	289	27	6·4	4·3	322	28	5·8	3·4	304
2·0 „ .	26	10·3	9·3	291	26	9·1	8·1	291	24	9·0	8·2	285	27	6·6	3·2	309	28	5·4	2·9	315
2·5 „ .	24	11·1	10·0	292	26	10·8	10·2	290	11	8·0	7·7	279	26	6·8	4·2	306	28	5·6	2·5	310
3·0 „ .	24	12·7	12·1	296	25	12·2	11·4	288	8	8·1	7·7	276	24	5·8	4·0	299	28	5·5	2·3	305
4·0 „ .	18	14·2	13·9	289	28	14·9	14·2	288					22	7·4	5·8	275	28	7·7	5·2	258
5·0 „ .	8	15·5	13·8	277	19	17·2	16·6	292					15	10·7	9·2	274	25	11·9	10·3	277
6·0 „ .	1	18·5	18·5	280	14	20·6	20·0	275					14	15·1	13·2	275	22	15·5	13·7	276
7·5 „ .					6	28·6	28·3	273					9	19·0	18·3	283	15	20·4	19·0	278
9·0 „ .													8	26·4	26·0	277	6	28·3	27·8	273

Station.	AMBALA							
Time I. S. T.	0100							
Ht. in km.	n	V	v	D	n	V	v	D
Surface.	28	2·8	1·8	337				
0·15 a. g.	28	8·4	5·9	337				
0·6 a. s. l.	28	8·7	6·1	338				
1·0 „ .	28	7·1	4·2	332				
1·5 „ .	28	6·3	3·2	321				
2·0 „ .	28	6·7	2·8	303				
2·5 „ .	20	5·7	2·3	279				
3·0 „ .	15	5·4	3·1	286				
4·0 „ .								
5·0 „ .								
6·0 „ .								
7·5 „ .								
9·0 „ .								

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

FEBRUARY 1947

STATION.	ANANTAPUR.												ASANSOL.											
Time I. S. T.	0700				1600								0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	2·0	1·5	115	28	2·6	2·3	75					28	1·3	1·2	288	28	1·2	1·0	303	28	0·9	0·7	315
0·15 a. g.	28	5·1	4·1	139	28	4·4	3·9	81					28	4·2	2·7	303	27	3·5	3·0	302	27	5·1	3·8	346
0·6 a. s. l.	28	5·9	4·9	147	28	4·6	4·2	87					28	4·9	3·3	329	27	3·5	3·1	299	27	5·6	4·4	331
1·0 „	28	7·2	5·1	133	28	4·7	4·3	88					28	5·6	4·6	310	27	4·4	3·8	295	26	4·6	4·1	295
1·5 „	28	7·0	5·1	104	28	4·7	4·3	91					22	6·4	5·7	290	27	5·8	5·3	288	25	6·4	5·8	278
2·0 „	28	5·7	4·3	67	28	4·7	4·0	86					17	8·6	7·8	291	26	10·6	8·3	288	17	9·5	8·5	281
2·5 „	28	5·3	3·9	29	27	4·9	3·0	61					10	9·1	8·4	306	24	12·4	11·6	298	11	10·6	9·8	296
3·0 „	27	5·3	3·1	25	27	5·2	2·0	339					8	10·4	10·1	292	24	14·5	13·9	295	6	11·2	10·7	302
4·0 „	27	6·6	2·7	276	24	6·4	4·6	276					5	12·9	12·7	288	17	15·5	14·9	289	1	13·5	13·5	290
5·0 „	23	7·6	4·0	290	21	8·7	7·0	283					1	20·0	20·0	275	8	18·7	18·4	280				
6·0 „	17	9·1	5·9	279	19	9·8	8·8	275									5	24·2	23·2	288				
7·5 „	14	15·6	12·5	268	14	17·0	15·7	271									1	23·0	23·0	255				
9·0 „	11	20·5	17·8	244	9	23·1	20·4	252																

STATION.	BAHRAIN.												BALASORE.				BANGALORE.							
Time I. S. T.	0700				1600				0100				0700				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	2·7	1·5	306	28	3·5	1·7	333	28	3·2	0·7	326	28	3·1	2·4	341	28	2·6	2·4	129	28	3·1	2·3	73
0·15 a. g.	28	6·1	2·6	306	27	6·2	3·7	349	28	6·3	0·8	3	28	5·5	3·9	343	27	5·3	4·4	115	25	4·9	4·3	72
0·6 a. s. l.	28	6·8	3·6	317	27	6·6	4·5	329	28	7·1	3·3	318	28	4·6	2·1	345								
1·0 „	28	6·4	3·8	308	27	6·8	5·3	319	28	7·3	4·3	310	27	4·3	2·7	329	27	4·4	3·7	117	26	4·8	4·1	71
1·5 „	25	6·1	5·0	286	27	7·4	6·1	297	23	6·5	5·1	310	27	5·2	3·6	312	22	5·9	3·2	91	25	4·7	4·2	76
2·0 „	24	7·1	5·6	285	25	8·6	7·3	292	19	6·7	5·2	303	27	5·9	4·6	300	21	5·3	4·2	48	26	4·4	4·0	67
2·5 „	20	7·5	6·2	288	23	9·1	8·2	279	10	5·7	4·3	275	26	7·4	6·1	300	18	6·1	4·6	47	24	3·7	3·7	55
3·0 „	17	9·0	7·3	283	21	9·1	8·0	277	5	6·3	4·5	268	23	8·6	7·4	298	17	5·9	3·7	27	21	4·7	2·7	29
4·0 „	7	11·2	10·5	279	13	11·8	10·4	272					22	10·5	9·8	286	14	5·0	1·9	349	15	4·2	1·6	334
5·0 „	2	12·3	9·1	287	4	18·9	8·3	274					15	14·6	14·2	275	12	5·3	1·5	360	15	5·8	1·3	335
6·0 „													9	16·8	15·8	274	10	6·7	1·5	60	11	6·4	4·4	305
7·5 „													4	28·9	26·6	290	5	9·0	6·7	294	6	9·0	4·9	288
9·0 „																	4	12·7	11·1	262	4	12·5	11·4	256

* Local time.

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

FEBRUARY, 1947

Station.	BAREILLY.								BHOPAL.											
Time I. S. T.	0700				1600				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0·7	0·3	328	28	2·7	1·9	298	28	2·8	1·8	100	28	2·1	0·5	318	28	3·1	2·1	64
0·15 a. g.	28	6·9	5·1	322	26	4·6	3·5	290	27	9·1	5·7	94	28	3·4	0·7	295	28	8·2	6·3	62
0·6 a. s. l.	28	6·7	5·1	310	28	5·1	4·0	293	27	7·6	5·0	91	28	3·4	0·7	280	28	8·1	6·4	61
1·0 „	28	6·7	5·5	306	28	5·6	4·4	293	27	8·1	4·2	89	28	3·5	0·9	299	28	6·7	4·3	60
1·5 „	28	7·3	5·6	304	28	6·8	5·1	297	27	6·7	0·4	162	28	4·3	1·9	270	28	5·0	0·2	223
2·0 „	27	8·2	5·9	300	27	7·8	5·6	296	24	7·3	5·5	270	23	4·8	3·2	260	13	4·1	1·7	264
2·5 „	26	8·4	6·0	293	26	8·0	6·6	291	20	9·0	7·4	282	28	7·2	6·1	255	7	5·7	3·6	259
3·0 „	24	9·0	7·6	296	26	8·6	7·5	292	18	10·1	7·6	292	20	9·3	7·9	266	5	7·6	7·1	256
4·0 „	15	9·3	8·8	290	22	10·8	9·7	290	11	9·8	9·6	280	15	11·2	10·4	273				
5·0 „	11	12·1	11·5	290	14	13·2	12·3	279	8	13·5	12·7	278	15	14·4	13·4	270				
6·0 „	7	16·4	15·8	283	12	15·9	14·1	272	4	15·4	14·7	273	9	18·9	17·7	274				
7·5 „					2	20·0	19·7	263	1	22·0	22·0	300	4	26·5	25·1	268				
9·0 „					1	26·5	26·5	265												

Station.	BHUJ												BOGRA.							
Time I. S. T.	0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0·1	0·1	360	28	2·3	1·0	6	28	0·4	0·2	323	28	1·4	0·7	330	28	1·6	1·4	275
0·15 a. g.	25	5·1	4·1	2	28	4·4	1·9	356	28	5·7	4·6	338	28	5·1	2·5	325	28	3·7	3·3	271
0·6 a. s. l.	25	8·3	5·9	24	28	4·3	1·7	357	28	7·6	6·3	7	28	4·0	2·7	314	28	4·1	3·6	269
1·0 „	25	7·0	4·6	29	28	4·2	1·1	357	28	6·4	4·1	19	28	4·2	2·9	299	28	4·4	4·0	269
1·5 „	25	5·5	2·2	5	28	4·2	1·7	332	28	4·9	1·2	16	28	6·7	5·7	278	28	5·5	4·9	272
2·0 „	25	5·6	2·1	296	28	5·0	2·5	280	28	6·2	1·0	239	28	9·6	8·9	281	28	9·0	8·4	278
2·5 „	25	6·1	3·0	262	26	6·3	4·0	265	23	6·7	2·9	254	28	12·6	11·9	282	28	12·3	11·9	283
3·0 „	25	7·3	5·0	265	25	8·2	6·2	259	8	8·7	6·0	248	25	14·8	14·0	287	27	14·9	14·0	280
4·0 „	21	9·4	8·2	266	24	12·0	11·0	261					13	18·7	18·0	280	24	17·9	17·5	277
5·0 „	14	13·7	13·1	272	20	16·2	15·1	265					2	14·0	13·9	284	17	22·2	21·8	276
6·0 „	7	20·4	20·1	274	12	20·3	19·6	265					2	21·3	21·3	294	18	26·9	26·7	273
7·5 „					1	30·0	30·0	270									2	33·0	33·0	281
9·0 „																				

Table A—Monthly mean directions and velocities of upper wind

Winds up to 9·0 km. above sea level

FEBRUARY 1947

Station.	BOMBAY												BIKANER											
Time I. S. T.	0700				1600				0100				0700				1600							
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0·8	0·7	83	28	5·4	5·0	302	28	2·1	0·2	39	28	1·6	1·1	122	28	1·3	0·6	297				
0·15 a. g.	28	3·5	2·1	12	28	4·3	3·8	295	28	3·7	3·0	358	28	6·3	4·4	104	28	3·6	1·5	334				
0·6 a. s. l.	28	4·9	3·7	34	28	3·2	0·9	281	28	5·1	4·2	348	28	6·4	3·0	77	28	3·4	1·3	330				
1·0 „	27	5·0	3·2	37	28	3·0	0·7	202	28	3·7	2·1	342	28	4·7	1·4	332	28	3·1	0·8	331				
1·5 „	27	4·7	1·2	187	28	4·4	2·5	190	26	4·4	2·0	231	28	5·7	3·3	310	28	3·4	0·7	293				
2·0 „	27	5·7	3·2	198	28	5·4	4·2	193	27	5·5	3·8	196	28	5·8	3·4	311	28	4·4	1·6	258				
2·5 „	24	7·1	5·3	205	28	6·5	4·9	205	22	6·6	4·9	160	28	6·6	4·2	297	28	6·0	3·2	244				
3·0 „	24	7·6	5·8	221	28	5·8	4·7	236	17	6·3	4·6	196	28	7·5	5·0	285	27	7·3	4·7	259				
4·0 „	21	10·5	8·0	254	27	8·8	7·8	256					22	8·6	7·4	262	25	10·2	8·4	274				
5·0 „	17	15·6	9·2	265	23	12·6	10·7	268					18	12·7	11·9	271	21	13·7	12·9	280				
6·0 „	12	13·9	12·4	270	19	18·5	16·4	261					9	15·3	15·0	271	13	16·8	16·1	271				
7·5 „	2	17·3	17·2	264	8	20·2	18·8	268									4	19·6	19·5	284				
9·0 „					2	24·7	24·6	260																

Station.	CALCUTTA												CHITTAGONG											
Time I. S. T.	0700				1600				0100				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·0	0·6	13	28	1·7	1·2	302	28	1·0	0·5	283	28	1·2	1·1	28	28	1·6	1·3	285	28	0·6	0·5	3
0·15 a. g.	28	5·8	2·6	354	28	3·3	2·2	296	28	6·7	3·1	256	28	4·1	3·5	33	28	3·7	3·0	283	28	3·8	2·8	355
0·6 a. s. l.	28	4·6	2·4	334	28	3·4	2·8	303	28	6·4	3·6	290	27	4·6	4·1	1	28	3·1	2·2	326	28	4·4	3·5	333
1·0 „	28	4·5	2·9	309	28	4·3	3·7	295	28	6·6	4·4	288	27	4·3	3·7	341	28	3·4	2·7	345	27	4·2	3·2	330
1·5 „	28	6·9	5·9	294	28	6·5	6·1	290	28	8·0	7·2	297	27	6·4	5·3	318	28	5·7	4·5	325	27	5·5	4·5	316
2·0 „	28	8·5	7·7	297	28	9·3	8·4	294	27	11·7	10·4	292	27	8·6	7·7	303	28	7·6	6·6	309	26	7·4	6·1	304
2·5 „	24	9·7	9·0	297	27	11·0	10·3	295	22	13·0	12·0	304	27	9·5	8·7	294	28	8·8	8·1	299	26	8·3	7·7	290
3·0 „	24	11·7	11·1	291	26	12·6	12·3	295	15	14·2	12·8	294	27	10·3	9·6	287	28	9·0	8·8	286	24	10·4	9·7	280
4·0 „	14	13·9	13·0	290	21	13·6	13·0	285	1	16·0	16·0	285	24	13·6	13·1	280	28	14·3	13·7	278	9	15·3	14·7	269
5·0 „	8	20·5	20·3	279	19	20·3	19·7	279					15	17·3	16·8	265	25	19·0	18·9	276				
6·0 „					14	24·2	23·1	282					10	28·6	19·0	266	22	23·0	22·4	278				
7·5 „					5	29·0	26·9	271					5	29·8	28·8	262	8	31·4	30·1	280				
9·0 „					2	34·3	34·0	270					1	37·0	37·0	275	4	29·6	29·0	273				

Table A—Monthly mean directions and velocities of upper winds

Winds up to 3·0 km. above sea level

FEBRUARY 1947

Station	CHHOR								COCHIN.											
Time I. S. T.	0700				1600				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·2	0·6	58	28	2·5	1·5	330	28	2·2	1·9	70	28	6·1	5·7	257	28	1·8	1·1	39
0·15 a. g.	27	7·3	3·8	54	28	4·4	1·7	301	28	3·4	2·7	74	28	6·8	5·8	268	27	3·1	2·1	14
0·6 a. s. l.	27	6·9	3·1	16	28	3·7	1·5	325	28	3·6	1·6	28	28	3·2	2·0	291	27	3·3	2·0	332
1·0 „	26	6·7	3·2	358	28	4·0	1·9	328	28	3·6	1·6	62	28	3·0	2·0	27	27	2·9	1·1	29
1·5 „	26	6·1	2·5	326	28	4·8	2·2	302	28	3·7	2·6	61	28	4·8	4·2	48	25	3·5	3·1	71
2·0 „	25	5·9	1·9	303	28	5·1	2·6	277	28	4·9	3·4	60	28	6·6	5·9	58	25	3·9	3·6	63
2·5 „	24	6·1	2·4	281	27	6·8	4·4	268	28	5·9	4·2	47	28	7·0	6·3	53	19	5·5	4·6	61
3·0 „	24	8·1	5·0	270	27	8·6	7·0	255	24	6·1	3·3	27	28	5·9	4·8	47	17	7·2	4·4	32
4·0 „	20	8·6	7·4	264	22	12·6	10·7	259	23	4·6	2·1	38	25	4·5	2·2	21	10	3·9	1·8	339
5·0 „	18	10·8	10·0	270	16	15·5	14·6	272	21	5·2	2·9	31	22	5·1	3·3	41	7	5·1	2·8	337
6·0 „	7	16·2	15·6	269	6	17·4	17·0	274	20	6·0	3·3	29	19	5·6	3·3	35	6	4·1	1·1	314
7·5 „	5	22·0	21·8	268					12	5·9	1·9	356	14	7·5	4·3	12	1	3·5	2·5	240
9·0 „									6	6·3	3·4	261	10	7·5	3·3	246				

Station.	COOCH BEHAR.								CUTTACK.											
Time I. S. T.	0700				1600				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·7	0·9	100	28	1·6	1·4	242	28	0·3	0·1	325	28	0·8	0·3	209	28	0·3	calm.	
0·15 a. g.	26	4·9	2·6	81	26	3·3	2·9	245	28	3·4	1·5	276	26	2·9	0·7	227	28	4·2	2·9	227
0·6 a. s. l.	28	3·9	0·3	49	26	3·9	3·5	245	26	4·0	1·9	253	26	2·8	1·1	220	27	4·6	3·1	227
1·0 „	28	3·5	0·8	268	26	4·0	3·5	248	25	4·4	1·2	319	26	3·0	1·3	258	27	4·0	1·9	283
1·5 „	28	4·0	1·1	261	27	4·2	3·7	257	24	4·6	2·5	330	26	3·7	2·7	295	26	4·4	3·5	310
2·0 „	28	4·7	2·0	268	27	5·0	4·2	276	24	4·8	2·8	324	26	5·4	4·5	303	26	5·4	4·5	311
2·5 „	25	6·1	3·6	272	27	6·9	5·8	278	24	5·4	4·4	308	24	6·9	6·2	308	15	6·1	5·2	314
3·0 „	25	8·8	6·3	276	28	10·2	9·2	278	24	6·8	5·6	303	24	7·8	7·1	305	10	8·5	6·3	300
4·0 „	13	14·8	13·4	280	21	16·7	16·6	275	20	9·1	7·8	282	24	10·7	10·0	286	1	9·0	9·0	295
5·0 „	5	12·6	10·3	277	20	21·2	21·0	277	14	11·3	10·9	278	21	13·5	13·1	280				
6·0 „	2	15·5	15·4	289	8	20·5	20·2	276	10	14·6	13·8	273	20	17·7	16·9	280				
7·5 „					3	24·2	23·6	293	4	15·6	14·7	278	11	22·8	20·9	275				
9·0 „					1	34·0	34·0	290	1	33·5	33·5	285	5	26·0	24·8	268				

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level.

FEBRUARY 1947

STATION.	DALBANDIN.												DEOLALI				DROSH.							
Time I. S. T.	0700				1600				0100				0700				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·6	0·9	46	28	2·5	1·2	181	28	3·1	1·7	61	24	0·4	0·1	79	28	0·8	0·5	105	28	1·1	0·8	72
0·15 a. g.	28	5·1	2·9	74	26	3·9	1·3	168	23	6·1	3·1	75	24	3·4	0·8	75	24	2·2	1·8	65	26	2·3	1·8	54
0·6 a. s. l.																								
1·0 „	28	5·1	2·9	74	26	3·9	1·3	168	23	6·1	3·1	75	24	6·0	1·9	98								
1·5 „	28	5·9	0·8	154	26	3·7	1·2	283	23	5·5	1·5	126	21	6·0	2·2	119								
2·0 „	28	6·0	1·9	251	26	5·3	2·3	262	23	5·0	2·2	231	24	5·3	3·5	189	24	5·3	2·9	85	26	3·6	3·1	37
2·5 „	27	7·6	4·7	259	26	6·2	3·6	267	23	6·8	3·1	253	24	6·8	5·0	202	22	7·2	6·5	20	26	3·9	2·7	11
3·0 „	26	8·5	5·9	271	23	6·6	4·1	281	17	7·7	3·5	279	23	7·6	4·3	211	21	9·2	8·0	4	25	4·1	1·2	8
4·0 „	21	10·5	8·2	285	18	9·6	7·9	285	7	8·4	6·2	280	17	9·5	8·4	269	18	5·7	4·5	18	25	4·9	2·9	158
5·0 „	13	13·1	11·8	261	13	12·8	11·0	285	1	14·0	14·0	290	14	14·5	13·6	279	15	6·1	2·5	279	21	6·8	3·8	221
6·0 „	8	15·1	14·3	250	13	15·9	14·7	285					11	17·5	16·7	274	12	11·4	8·7	273	17	13·2	10·3	282
7·5 „	1	18·5	18·5	285	9	26·0	24·0	272					2	26·3	26·2	297	7	13·9	10·6	260	7	20·9	17·0	292
9·0 „					2	26·5	26·0	262									5	16·4	9·9	252	1	17·0	17·0	250

STATION.	FORT SANDEMAN.								GADAG.															
Time I. S. T.	0800				1600				0700				1600											
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·1	0·9	230	28	1·8	1·1	263	29	2·1	1·4	130	28	3·0	1·7	93								
0·15 a. g.	27	2·4	1·4	234	27	3·8	2·3	269	28	4·9	2·7	115	29	4·7	2·8	80								
0·6 a. s. l.																								
1·0 „									28	5·7	3·1	118	28	4·6	2·6	83								
1·5 „	27	2·1	1·4	234	27	3·3	2·0	275	28	5·8	3·7	113	28	4·1	2·3	100								
2·0 „	27	3·2	1·9	248	27	3·7	2·5	253	26	4·6	2·8	95	27	3·3	2·1	108								
2·5 „	27	5·4	3·6	265	27	5·3	3·4	248	26	3·7	1·5	74	24	4·2	2·1	110								
3·0 „	27	9·2	6·9	275	27	6·7	4·8	259	24	4·4	1·0	309	21	4·4	0·5	190								
4·0 „	24	10·2	7·8	277	25	11·3	9·3	260	22	6·3	3·2	280	18	5·8	4·5	288								
5·0 „	18	11·3	9·4	272	18	14·3	12·1	273	22	8·3	5·1	281	12	8·2	6·6	275								
6·0 „	6	13·3	11·3	255	10	15·3	15·0	271	20	9·5	6·3	274	9	10·4	9·6	255								
7·5 „	2	19·5	14·6	255	4	22·3	21·1	283	12	16·3	13·7	285	9	14·7	12·5	268								
9·0 „					1	15·0	15·0	295	2	20·0	17·7	278	4	18·6	16·6	275								

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level.

FEBRUARY 1947

Station.	GAYA.												GOPALPUR.											
Time I. S. T.	0700				1600				0100				0700				1600							
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·7	1·1	175	28	2·9	2·2	293	28	1·7	1·1	173	28	1·2	1·2	334	28	5·0	4·6	154				
0·15 a. g.	28	4·3	3·3	284	28	5·3	4·4	294	26	4·3	3·0	279	26	3·6	1·8	287	28	6·4	5·1	146				
0·6 a. s. l.	27	5·4	4·3	302	28	5·1	4·6	287	26	5·5	4·3	296	28	3·7	1·7	208	28	4·1	1·6	151				
1·0 „	26	6·1	5·3	296	28	5·4	5·1	284	27	6·9	6·4	286	28	4·6	0·3	96	28	3·7	0·7	324				
1·5 „	27	8·0	7·4	290	27	7·7	7·4	285	27	8·4	8·0	281	27	4·5	2·0	357	27	4·5	3·1	319				
2·0 „	27	11·0	10·2	292	27	10·2	9·6	284	27	10·5	9·9	283	26	4·5	3·3	340	27	5·7	4·1	311				
2·5 „	27	13·6	12·6	293	27	12·9	12·4	281	17	10·7	10·0	287	25	5·4	4·4	332	27	6·5	5·0	314				
3·0 „	22	13·9	13·2	288	27	14·7	14·0	285	13	11·8	11·3	279	24	6·2	4·9	333	27	6·9	5·2	305				
4·0 „	15	16·3	15·8	280	23	17·1	16·5	287					23	8·2	6·3	271	26	9·5	7·8	280				
5·0 „	6	17·2	16·8	271	17	20·0	19·5	283					20	11·7	10·6	269	23	13·2	12·4	272				
6·0 „	2	18·7	18·7	267	8	20·7	20·3	273					10	14·4	12·9	266	20	17·1	16·0	273				
7·5 „					1	27·5	27·5	285									12	20·0	17·5	283				
9·0 „																	2	20·3	13·7	271				

Station.	GORAKHPUR								HYDERABAD (Dn.)															
Time I. S. T.	0700				1600				0700				1600				0100							
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·0	0·9	266	28	2·0	1·7	270	28	2·1	1·8	120	28	2·9	2·0	117	28	2·3	1·9	111				
0·15 a. g.	27	4·8	2·9	293	27	4·6	4·1	272	28	5·8	4·7	133	28	4·2	3·0	115	28	6·4	5·6	126				
0·6 a. s. l.	27	5·5	3·9	290	27	4·5	4·2	271	28	3·4	2·7	121	28	3·8	2·9	115	28	4·2	3·6	118				
1·0 „	27	5·6	4·4	290	27	5·6	5·1	272	28	7·4	5·6	139	28	4·3	3·1	109	28	7·7	7·0	125				
1·5 „	23	5·6	4·9	281	26	6·1	5·8	275	28	6·2	3·2	119	28	4·0	2·3	107	28	5·6	3·6	109				
2·0 „	21	6·9	6·2	285	24	7·7	7·1	288	28	4·9	2·0	5	28	3·7	1·2	86	28	4·8	1·7	337				
2·5 „	13	7·5	7·0	287	17	8·7	8·6	292	28	5·1	2·7	344	28	4·3	1·1	360	28	5·3	2·9	309				
3·0 „	12	10·1	9·2	291	12	11·1	10·7	299	28	5·6	1·6	287	27	4·9	2·3	295	26	5·6	2·8	305				
4·0 „	3	9·2	9·1	280	2	11·3	11·1	292	25	7·8	5·5	258	19	7·3	6·0	266	6	9·7	9·6	268				
5·0 „									23	10·9	8·5	274	15	10·5	9·4	264	1	14·0	14·0	260				
6·0 „									23	12·6	10·9	275	14	12·4	11·4	261								
7·5 „									9	14·9	13·8	265	12	16·5	14·2	272								
9·0 „									3	16·0	15·9	264	6	26·0	25·2	278								

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level.

FEBRUARY 1947

Station	JACOBABAD												JAMSHEDPUR											
Time I. S. T.	0700				1600				0100				0700				1600							
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	23	2·3	0·8	76	28	0·9	0·5	10	26	2·6	2·0	358	28	1·1	0·9	289	28	1·8	1·2	271				
0·15 a. g.	28	5·9	3·0	70	28	2·2	0·8	323	28	5·4	4·0	7	28	3·1	2·2	291	28	2·7	2·1	279				
0·6 a. s. l	28	4·7	1·0	29	28	2·7	0·1	96	28	3·5	0·3	17	28	3·5	1·3	7	27	3·1	2·6	274				
1·0 „	28	3·7	1·0	286	28	3·9	1·0	208	28	3·8	1·4	230	28	3·8	1·9	313	27	4·1	3·6	272				
1·5 „	28	4·9	2·1	252	27	3·6	2·0	243	27	4·7	3·1	212	28	5·9	4·8	294	27	6·0	5·1	276				
2·0 „	28	6·1	3·7	260	27	4·8	3·0	256	24	4·8	3·2	229	26	8·2	7·3	294	27	8·5	7·6	288				
2·5 „	26	6·6	3·9	277	27	6·0	4·1	267	12	5·7	3·7	259	24	9·7	8·6	295	27	10·2	9·2	290				
3·0 „	22	6·5	4·2	284	27	7·6	5·9	271	9	7·5	4·7	258	23	10·1	9·6	294	26	10·8	10·2	288				
4·0 „	19	8·7	6·8	270	23	10·8	9·5	262					9	12·8	12·2	286	20	13·4	12·8	281				
5·0 „	14	11·6	10·1	266	17	31·6	12·7	270					5	13·8	13·0	293	14	17·7	17·1	277				
6·0 „	4	14·2	13·7	259	14	16·4	15·7	273					3	13·5	13·5	277	8	21·9	21·5	274				
7·5 „					3	19·8	19·6	283									2	21·7	21·7	272				
9·0 „																								

Station	JHARSUGUDA												JHELUM											
Time I. S. T.	0700				1600				0100				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·7	1·6	12	28	1·3	0·7	258	28	1·3	0·8	23	28	1·1	0·9	307	28	1·3	0·6	270	28	0·8	0·4	330
0·15 a. g.	26	4·7	4·2	33	27	2·5	1·6	251	26	3·9	1·8	32	28	5·0	3·7	322	28	3·6	1·6	289	28	4·8	2·9	340
0·6 a. s. l	26	4·2	2·3	41	27	2·6	1·7	269	26	4·0	1·0	15	28	5·4	3·5	336	28	4·6	1·3	297	28	4·6	3·0	329
1·0 „	26	4·1	1·4	352	27	2·9	2·0	275	26	3·7	1·3	317	28	5·1	2·3	343	28	4·1	0·5	291	28	3·9	1·9	310
1·5 „	26	4·4	2·1	312	27	4·4	3·0	293	24	4·0	2·1	302	28	4·3	1·0	346	28	4·0	0·6	156	28	3·3	0·7	219
2·0 „	26	6·2	4·7	294	26	6·2	4·9	298	23	5·4	3·7	289	26	3·9	0·9	239	26	3·2	0·7	251	27	3·6	1·1	223
2·5 „	26	7·2	6·1	290	26	7·3	6·6	293	21	7·1	5·8	285	27	4·2	0·7	269	24	4·1	1·0	242	27	4·2	1·9	225
3·0 „	24	8·4	7·6	288	26	8·7	8·1	294	13	8·9	7·7	270	27	5·2	2·1	276	23	3·8	0·9	265	22	4·3	1·8	262
4·0 „	20	10·6	9·9	289	24	11·8	11·0	288	3	9·7	9·2	293	27	7·3	4·5	265	23	6·3	3·8	268				
5·0 „	18	14·6	13·9	276	21	15·5	14·8	277					24	9·8	7·5	267	22	10·6	7·6	261				
6·0 „	9	17·2	16·5	277	20	21·9	21·4	272					22	13·9	12·1	269	20	14·0	11·5	271				
7·5 „	5	24·3	22·2	275	4	23·7	22·4	281					11	16·6	15·0	278	12	22·4	19·6	279				
9·0 „					2	28·0	27·2	282					7	20·7	19·1	270	2	20·0	18·5	253				

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

FEBRUARY 1947

STATION.	JIWANI.												JODHPUR.											
Time I. S. T.	0900				1500								0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	22	2·5	1·2	354	20	4·5	2·3	198					28	2·8	2·4	42	28	2·8	0·4	263	28	2·9	2·2	33
0·15 a. g.													28	7·0	4·4	81	28	4·0	0·8	265	28	7·7	3·2	58
0·6 a. s. l.	25	5·8	2·1	319	24	5·0	2·2	230					28	6·6	2·9	86	28	4·0	1·0	264	28	7·7	2·6	69
1·0 „	23	5·2	1·8	330	28	5·4	2·6	271					27	5·1	0·4	104	23	4·1	0·6	221	28	5·4	1·1	121
1·5 „	22	5·7	2·2	287	21	6·5	4·1	266					27	4·8	1·8	283	28	4·3	0·9	259	28	5·0	2·9	229
2·0 „	18	9·1	5·7	275	20	9·7	7·9	264					27	5·9	3·5	273	28	4·9	2·1	253	27	6·6	4·0	238
2·5 „	15	9·2	6·1	277	18	10·3	8·8	268					26	7·5	4·7	263	28	6·5	4·0	259	15	6·9	5·0	249
3·0 „	11	9·5	7·3	274	15	10·8	9·2	271					25	8·7	6·7	264	28	9·2	6·9	262	11	6·5	5·6	268
4·0 „					1	8·0	8·0	280					18	11·3	9·2	209	21	13·3	11·5	266	1	12·0	12·0	260
5·0 „													10	15·0	14·3	272	17	14·6	13·9	268				
6·0 „	4	20·7	20·5	277									3	18·5	18·1	277	11	19·5	18·8	274				
7·5 „																	3	27·3	26·5	277				
9·0 „																	1	26·0	26·0	275				

STATION.	JUBBULPORE.								KARACHI.															
Time I. S. T.	0700				1600				1600				0700				0100							
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0·9	0·6	113	28	1·4	0·8	360	28	1·5	1·1	352	28	2·0	1·5	212	28	1·8	1·0	314				
0·15 a. g.	28	4·6	2·9	99	27	3·1	2·2	352	28	4·9	3·2	357	28	3·8	1·1	220	28	5·3	3·5	302				
0·6 a. s. l.	28	4·8	3·0	94	27	3·2	2·1	358	28	5·5	2·7	345	28	3·5	0·9	293	28	4·9	2·8	275				
1·0 „	27	5·0	1·7	108	27	3·0	1·7	383	28	4·5	1·5	326	28	3·7	0·8	271	28	4·7	2·0	261				
1·5 „	27	5·9	2·0	299	27	4·6	2·8	291	28	5·3	2·0	279	28	4·0	1·2	269	26	5·5	1·8	298				
2·0 „	26	8·2	5·8	279	27	6·5	5·0	273	28	6·4	3·0	271	28	5·6	2·9	288	25	6·8	3·4	296				
2·5 „	26	9·8	8·0	280	27	8·5	7·2	269	24	6·7	3·3	279	28	7·3	5·2	277	21	6·6	3·7	301				
3·0 „	25	10·8	9·4	276	27	10·8	9·8	266	24	8·2	4·7	280	28	9·2	7·2	265	18	6·2	3·6	301				
4·0 „	18	11·3	10·7	276	25	13·8	12·7	272	14	11·3	10·7	272	26	12·7	11·0	267	1	8·0	8·0	265				
5·0 „	14	14·8	14·4	277	21	16·3	15·8	275	6	13·7	13·2	272	19	16·0	14·3	264								
6·0 „	9	16·8	16·0	281	18	21·0	20·3	279	1	28·0	28·0	260	13	29·2	17·5	255								
7·5 „	2	24·5	24·5	278	8	28·2	15·3	293					1	17·5	17·5	270								
9·0 „	1	32·0	32·0	290	3	29·0	28·3	301					1	30·5	30·5	265								

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

FEBRUARY 1947

Station.	KHANPUR								LAHORE											
Time I. S. T.	0700				1600				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	20	3·9	2·7	32	20	3·1	0·6	11	28	0·9	0·3	357	28	2·2	1·6	300	28	0·6	0·3	4
0·15 a. g.	20	7·0	4·6	67	20	3·1	0·8	15	28	6·9	4·1	341	27	5·3	4·4	300	28	5·8	2·7	31
0·6 a. s. l.	20	5·7	1·9	41	20	3·4	0·4	360	28	6·6	3·6	331	27	5·3	4·3	303	28	5·8	3·2	314
1·0 „	20	5·1	1·5	36	20	3·9	0·8	232	28	6·3	3·9	329	27	5·6	4·5	307	28	5·8	2·4	308
1·5 „	20	4·3	0·7	294	19	4·0	2·5	237	28	6·1	3·8	328	27	5·1	3·2	290	26	5·3	2·1	286
2·0 „	20	5·6	2·2	265	19	4·8	3·1	243	26	5·4	4·1	309	26	5·3	3·0	296	23	5·0	3·8	293
2·5 „	20	7·2	3·1	268	19	6·2	4·6	244	25	5·9	4·2	304	25	6·6	3·3	283	19	5·7	4·3	285
3·0 „	20	7·8	3·2	290	19	9·2	7·5	256	23	6·4	4·1	288	24	6·4	3·8	277	9	6·6	4·9	265
4·0 „	16	9·9	7·8	263	17	11·5	9·6	264	23	8·7	5·7	282	21	8·5	7·2	275	1	3·0	3·0	260
5·0 „	14	11·9	9·7	262	14	13·4	12·9	263	8	11·8	10·6	271	18	11·6	10·6	271				
6·0 „	8	12·4	12·1	265	10	18·3	17·8	274	3	15·3	14·2	284	17	16·3	15·3	271				
7·5 „	3	15·7	15·6	273	5	23·0	22·7	281					5	22·0	20·4	274				
9·0 „					3	24·6	24·1	279					1	30·5	30·5	255				

Station.	MADHOSAGAR												MADRAS							
Time I. S. T.	0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·6	0·8	186	28	2·3	1·3	291	28	1·9	0·5	197	28	1·3	1·0	321	28	4·1	3·2	73
0·15 a. g.	27	4·0	0·8	131	28	4·1	2·6	308	28	5·3	1·9	107	28	3·5	1·8	25	28	4·2	3·4	78
0·6 a. s. l.	27	5·2	0·2	192	28	4·4	2·7	311	28	5·5	0·8	110	28	4·7	3·7	93	27	5·0	3·5	71
1·0 „	27	5·6	1·3	288	28	4·5	2·4	317	28	5·2	1·7	311	28	5·3	4·3	91	26	5·3	3·0	62
1·5 „	27	5·9	2·7	302	28	4·5	2·9	303	28	6·5	4·1	279	27	6·7	5·2	74	28	5·3	4·1	52
2·0 „	27	7·5	4·6	297	28	5·9	5·1	288	26	7·7	6·0	278	26	6·6	5·2	74	27	6·0	4·0	52
2·5 „	27	8·5	6·4	286	28	7·9	7·0	279	23	7·9	6·6	278	23	6·5	4·3	47	24	5·8	4·6	44
3·0 „	27	8·9	7·2	284	26	10·1	9·1	275	14	9·3	8·7	289	22	5·4	3·1	40	22	5·5	3·5	48
4·0 „	22	9·3	7·4	271	24	13·9	12·3	280	1	8·5	8·5	275	19	3·8	1·0	57	20	4·3	1·2	323
5·0 „	12	12·5	11·2	273	20	15·8	14·9	275					16	5·0	0·5	299	18	4·9	1·3	293
6·0 „	7	13·1	11·8	279	17	18·4	17·3	273					15	3·2	1·9	257	17	5·8	3·5	278
7·5 „					15	26·8	26·1	271					8	11·0	4·5	263	9	7·2	4·3	282
9·0 „					5	30·6	30·3	261					5	11·2	8·8	233	6	10·6	8·8	253

Station.	MADRAS							
Time I. S. T.	0100							
Ht. in km.	n	V	v	D	n	V	v	D
Surface	28	1·6	0·6	62				
0·15 a. g.	28	4·3	3·5	80				
0·6 a. s. l.	28	4·9	4·3	86				
1·0 „	27	5·1	3·9	80				
1·5 „	27	5·5	3·8	56				
2·0 „	26	5·9	4·2	51				
2·5 „	16	6·4	4·4	33				
3·0 „	8	5·6	4·3	353				
4·0 „	4	2·0	0·8	45				
5·0 „								
6·0 „								
7·5 „								
9·0 „								

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

FEBRUARY 1947

Station.	MALEGAON												MANGALORE											
Time I. S. T.	0700				1600				0100				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·1	0·8	294	28	1·3	0·4	290	28	1·0	0·8	316	28	3·2	2·7	71	28	5·3	4·8	275	28	3·0	2·5	18
0·15 a. g.	28	4·7	1·8	52	28	3·1	0·2	295	28	5·3	2·4	351	28	4·6	3·7	51	28	6·1	5·6	287	27	4·3	4·0	351
0·6 a. s. l.	28	4·7	1·8	52	28	3·1	0·2	295	28	5·3	2·4	351	28	4·5	3·4	2	28	4·0	3·3	288	27	4·8	4·4	339
1·0 „	28	5·5	2·6	92	28	2·8	0·8	254	28	6·0	2·3	5	28	4·2	2·9	7	28	2·5	1·3	3	28	3·9	3·8	335
1·5 „	28	5·0	1·8	125	28	2·9	1·1	221	28	4·4	1·2	6	27	3·9	2·4	66	28	4·3	3·7	77	28	3·3	1·6	34
2·0 „	23	4·5	2·1	196	28	3·4	2·1	222	27	4·0	1·7	195	26	4·3	2·9	88	28	6·1	5·6	83	26	5·0	4·2	81
2·5 „	28	6·4	4·9	215	28	4·4	3·0	235	24	6·5	5·0	208	26	4·0	2·7	73	28	5·6	4·3	79	17	5·3	4·5	73
3·0 „	28	8·4	7·2	229	26	6·1	5·3	244	17	7·8	5·4	211	25	4·9	2·3	28	28	5·6	3·0	54	13	5·5	3·1	46
4·0 „	25	10·0	9·0	267	19	8·7	6·7	258	5	8·3	6·6	251	24	6·2	2·7	354	27	4·3	1·8	326	3	7·5	4·4	338
5·0 „	20	12·5	11·8	272	15	12·1	9·3	270					20	5·5	2·0	337	26	5·4	2·6	301				
6·0 „	16	15·7	15·3	273	10	15·3	14·5	273					15	5·4	2·2	265	22	5·3	2·1	301				
7·5 „	6	23·0	21·8	277	4	19·6	17·8	272					3	9·3	9·1	265	9	11·7	2·8	278				
9·0 „	1	17·0	17·0	250	2	18·3	17·5	254					3	10·8	9·3	259	4	7·9	6·9	271				

Station.	MASULIPATAM												MINICOY											
Time I. S. T.	0700				1600				0100				0700				1600							
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0·4	0·2	78	28	3·2	3·0	134	28	0·5	0·4	116	28	1·7	1·2	13	28	2·6	1·8	18				
0·15 a. g.	28	2·9	2·3	108	28	4·5	4·2	133	28	4·7	4·3	134	28	3·7	2·6	17	27	4·5	3·3	16				
0·6 a. s. l.	28	4·7	4·1	131	28	3·8	2·4	120	28	5·0	4·3	125	28	3·8	2·9	34	27	4·4	3·3	25				
1·0 „	28	4·8	3·9	124	28	4·3	2·2	77	28	5·0	3·4	108	28	4·5	3·4	57	27	4·4	3·2	50				
1·5 „	28	5·0	3·3	86	28	4·7	2·9	62	25	5·0	3·5	74	27	5·7	4·5	74	26	5·0	3·7	64				
2·0 „	25	5·8	4·3	72	28	5·6	3·6	50	24	6·2	5·9	53	26	5·3	4·5	75	24	4·5	2·7	65				
2·5 „	22	5·9	3·6	43	27	5·0	2·9	26	21	5·5	2·7	55	26	5·1	3·8	79	20	3·7	1·3	47				
3·0 „	22	5·4	1·9	12	27	5·0	1·6	320	16	4·7	2·2	323	21	5·1	2·9	70	20	3·7	1·0	44				
4·0 „	21	5·3	3·1	265	26	5·9	4·4	274	5	4·3	4·3	287	20	4·7	2·1	65	12	3·7	1·7	60				
5·0 „	20	7·3	5·3	273	26	9·0	6·9	275					20	4·7	2·2	49	10	4·1	2·3	88				
6·0 „	19	9·3	7·7	271	25	10·7	8·5	273					17	5·3	0·9	82	10	5·8	2·8	76				
7·5 „	16	15·2	12·6	278	20	15·1	12·3	280					8	5·6	1·6	94	6	8·3	4·7	86				
9·0 „	9	16·8	15·9	256	17	19·3	17·4	259					5	7·3	6·1	142	4	5·9	5·1	155				

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

FEBRUARY 1947

Station.	MULTAN.												NAGERCOIL											
Time I. S. T.	0700				1600				0100				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	28	1·1	0·4	5	28	1·0	0·2	283	28	1·0	0·5	47	28	2·4	2·1	58	28	4·8	0·8	202	28	1·8	1·7	89
0·15 a. g.	28	6·2	2·2	52	28	2·9	0·2	246	28	5·5	1·7	70	27	6·3	6·1	58	26	6·9	2·7	75	28	5·2	4·8	48
0·6 a. s. l.	28	5·4	1·2	29	28	2·6	0·2	251	28	4·4	0·1	125	27	5·8	5·2	42	28	4·5	1·9	63	27	5·9	5·0	43
1·0 „	28	5·3	1·0	317	28	3·0	1·1	240	28	4·1	2·1	240	27	5·7	4·8	35	28	4·1	2·8	44	27	6·5	5·9	44
1·5 „	28	5·3	2·1	281	28	4·4	2·7	246	28	4·6	3·2	250	27	6·1	4·7	37	25	6·3	5·6	27	28	7·3	6·1	46
2·0 „	27	5·4	3·3	275	28	5·8	4·4	240	28	6·2	4·7	258	27	6·5	4·7	43	24	7·4	6·2	22	27	7·6	5·9	47
2·5 „	28	6·1	3·5	260	28	6·8	5·1	249	28	6·7	5·0	262	27	6·1	4·3	37	19	6·8	4·3	27	24	6·9	5·5	41
3·0 „	27	7·3	5·1	268	28	8·4	6·2	257	28	7·5	5·6	257	26	5·3	2·7	24	18	5·2	3·0	27	28	5·5	3·9	86
4·0 „	23	9·5	7·5	286	26	10·7	8·8	261	12	8·8	8·2	265	25	4·6	2·5	55	16	4·9	3·5	56	16	5·2	2·1	41
5·0 „	17	12·9	10·9	281	23	13·5	11·9	268	1	12·0	12·0	250	25	5·3	3·0	63	15	7·4	5·5	53	9	6·7	3·3	40
6·0 „	13	16·2	12·2	279	22	17·5	15·8	265					25	6·8	4·0	75	13	7·1	4·2	73	5	6·4	3·8	55
7·5 „	3	22·7	21·6	276	13	23·0	20·6	268					20	6·8	4·3	72	12	9·7	5·4	50				
9·0 „					1	22·0	22·0	270					17	6·5	3·4	138	10	6·7	1·7	120				

Station.	NAGPUR.												NEW DELHI.											
Time I. S. T.	0700				1600				0100				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	28	1·4	1·2	30	28	2·1	1·2	75	28	1·0	0·9	40	28	2·8	2·2	276	28	5·1	4·2	306	28	2·5	2·0	312
0·15 a. g.	28	5·1	4·3	47	28	3·2	1·7	89	25	6·6	5·5	87	28	6·4	4·1	312	28	5·3	4·3	302	26	7·8	5·3	337
0·6 a. s. l.	28	6·1	3·9	81	28	3·5	1·4	99	25	7·1	5·5	95	28	7·3	6·3	307	28	5·6	4·5	302	26	8·0	6·0	322
1·0 „	28	5·8	2·7	111	28	3·1	0·7	123	25	5·6	3·2	112	28	7·8	6·7	303	28	5·7	4·9	298	27	7·1	5·7	304
1·5 „	28	5·3	2·1	212	28	3·6	0·9	231	24	4·6	0·7	141	28	8·7	7·7	304	27	7·5	6·6	301	25	7·8	6·8	294
2·0 „	27	5·7	2·6	195	27	5·5	3·3	274	23	4·4	2·0	264	26	9·1	7·3	299	27	9·0	8·1	295	19	7·3	6·5	292
2·5 „	27	6·9	5·0	276	26	6·9	4·8	278	15	6·7	5·7	272	26	8·7	8·3	295	27	10·1	9·5	290	7	6·5	6·0	283
3·0 „	23	7·7	6·2	276	24	7·6	5·8	278	10	8·5	7·0	269	22	10·7	9·7	286	27	12·2	11·2	288	5	6·8	4·6	287
4·0 „	18	9·0	8·4	279	18	10·5	9·2	281	2	10·7	10·6	271	14	12·1	10·1	275	25	16·2	15·7	284				
5·0 „	11	12·1	11·5	268	15	13·6	12·5	285					5	14·3	14·3	274	22	24·2	23·3	284				
6·0 „	5	16·4	15·7	281	14	16·7	15·6	276					1	25·5	25·5	275	15	27·8	27·2	280				
7·5 „					9	19·8	18·9	276									8	39·4	38·4	284				
9·0 „					7	26·0	24·9	276									4	54·8	53·0	284				

Table A—Monthly Mean Directions and Velocities of Upper winds

Winds up to 9·0 km. above sea level

FEBRUARY 1947

Station	PESHAWAR												POONA											
Time I. S.T.	0700				1600				0100				0700				1600				0100			
Ht. in. km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·3	0·7	200	28	1·4	0·8	349	28	1·4	0·5	224	28	0·3	0·3	235	28	0·9	0·8	246	28	0·9	0·6	266
0·15 a. g.	27	2·6	0·2	284	27	2·6	1·7	10	27	2·4	1·0	319	27	2·2	1·0	229	28	3·2	1·4	252	26	3·3	3·2	276
0·6 a. s. l.	27	3·0	0·7	2	27	2·8	2·1	5	27	2·4	1·1	331	27	0·9	0·5	236	28	1·9	1·0	252	26	2·3	2·0	258
1·0 „	27	3·5	1·7	321	27	3·2	2·8	344	27	2·9	1·8	328	28	4·6	2·0	39	28	3·4	1·9	246	27	4·8	3·8	301
1·5 „	27	5·0	4·4	330	26	3·4	2·1	328	27	3·5	2·3	329	28	4·9	0·9	101	28	3·4	1·8	241	28	4·7	1·8	241
2·0 „	27	5·0	4·1	341	26	4·3	1·8	311	26	3·9	2·2	324	28	5·8	3·4	172	28	3·4	1·8	220	28	5·4	3·0	157
2·5 „	26	5·3	3·0	350	25	5·0	2·7	285	26	4·2	2·1	295	28	6·3	5·2	184	28	3·6	2·6	216	27	6·0	4·4	154
3·0 „	26	5·6	1·9	316	25	6·5	4·4	275	23	4·9	2·3	300	27	6·8	5·1	200	27	5·1	3·8	230	25	5·4	4·4	175
4·0 „	24	7·2	5·0	277	22	8·8	5·6	265	12	7·9	4·2	276	25	9·1	7·2	259	25	7·8	6·3	266	16	8·0	7·4	251
5·0 „	20	11·4	9·2	276	18	10·9	8·7	277	2	8·7	8·7	308	21	14·0	11·8	272	24	12·9	11·5	268				
6·0 „	10	15·5	14·0	280	15	13·6	12·3	278					16	15·0	11·6	253	18	15·5	14·5	272				
7·5 „	5	19·8	18·2	275	12	19·7	17·3	278					6	16·1	14·3	269	15	20·6	19·1	282				
9·0 „					3	25·5	24·9	272					1	16·0	16·0	255	8	27·8	27·1	262				

Station.	PORT BLAIR								QUETTA											
Time I. S. T.	0700				1600				0100				0800				1600			
Ht. in. km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	2·0	1·7	33	28	3·0	2·6	55	28	3·5	2·7	171	28	1·0	0·5	160	28	4·3	1·1	261
0·15 a. g.	27	5·1	4·6	36	28	5·2	4·7	53	22	4·3	2·7	169	25	2·6	1·4	201	26	5·4	2·4	292
0·6 a. s. l.	25	5·7	5·0	52	28	4·9	4·1	55												
1·0 „	25	5·2	4·0	78	27	4·3	2·7	82												
1·5 „	24	6·0	4·2	111	20	4·7	2·5	104												
2·0 „	24	6·5	4·3	117	18	4·5	2·1	114	22	3·9	1·6	200	25	3·6	1·9	215	26	5·1	3·1	283
2·5 „	22	5·4	3·4	106	15	3·3	1·4	118	24	5·0	2·7	259	25	5·8	3·4	271	25	3·0	4·5	273
3·0 „	21	4·5	1·9	113	15	3·0	1·2	136	22	9·3	6·4	275	24	8·5	5·9	277	23	7·0	5·1	276
4·0 „	19	4·2	1·7	144	10	4·2	1·6	105					21	11·0	8·6	277	16	8·6	6·9	282
5·0 „	17	4·5	0·7	107	10	4·6	2·7	95					10	12·2	10·8	276	12	12·3	11·1	275
6·0 „	16	5·7	1·5	119	9	7·3	4·6	101					1	10·5	10·5	255	5	21·3	20·0	292
7·5 „	5	6·6	3·6	131	7	6·8	4·4	103									1	24·0	24·0	285
9·0 „	4	5·4	2·1	357	4	3·9	2·6	182									1	23·0	23·0	290

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

FEBRUARY 1947

STATION	RAIPUR												RAJSAMAND											
Time I. S. T.	0700				1600				0100				0700				1600				0100			
Ht. in. km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·4	1·0	47	28	1·3	0·7	322	28	1·1	0·5	56	28	2·3	2·0	343	28	2·0	0·4	2	28	2·6	2·0	337
0·15 a. g.	27	4·7	2·4	66	28	3·6	1·4	320	26	4·7	3·1	49	27	4·2	1·8	6	28	3·7	0·4	143	27	5·3	2·8	60
0·6 a. s. l.	27	5·4	3·2	79	28	3·5	1·4	323	26	4·5	2·3	280												
1·0 „	27	4·3	1·2	65	28	3·1	1·1	290	26	4·1	0·8	336	27	6·2	1·6	79	28	3·5	0·9	148	27	5·4	2·4	77
1·5 „	26	4·7	1·9	280	26	3·1	1·6	279	25	4·3	2·1	265	28	5·9	0·8	227	28	3·8	0·9	218	27	4·5	0·8	189
2·0 „	23	5·7	3·2	288	23	5·1	3·9	291	25	5·7	3·7	267	27	6·0	3·3	248	28	4·5	2·7	247	27	5·2	3·5	237
2·5 „	22	6·2	4·6	290	23	6·5	5·1	291	21	7·3	5·8	275	27	7·4	5·3	256	28	6·1	4·3	253	27	7·1	5·6	244
3·0 „	22	7·6	6·2	291	18	7·5	6·2	298	14	7·6	6·6	278	25	7·3	5·8	265	27	7·8	6·3	256	25	8·5	7·5	249
4·0 „	12	9·0	8·0	264	15	8·5	7·7	294					22	9·5	8·6	265	25	12·0	10·6	258	4	9·1	8·9	264
5·0 „	8	12·1	10·9	271	9	11·6	10·7	287					18	13·3	12·7	268	23	15·2	14·0	263				
6·0 „	5	16·4	15·6	284	6	16·2	15·7	287					10	18·0	17·5	272	20	19·6	19·0	264				
7·5 „	1	15·0	15·0	285	2	21·2	20·5	285					2	23·7	23·6	280	7	25·6	24·7	266				
9·0 „	1	23·0	23·0	280	1	25·0	25·0	265									2	32·7	32·7	270				

STATION	SAHARSA								SHARJAH											
Time I. S. T.	0700				1600				0700				1600				0100			
Ht. in. km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0·1	0·1	236	28	1·5	1·4	261	28	3·4	2·0	181	28	5·2	3·9	286	26	3·8	0·9	184
0·15 a. g.	28	5·5	4·8	272	27	4·6	4·3	263	25	5·4	2·2	208	28	6·1	4·9	289	25	4·9	1·1	295
0·6 a. s. l.	28	5·4	4·9	288	27	5·5	5·3	264	27	4·7	1·9	269	28	5·7	3·9	273	26	5·0	1·9	284
1·0 „	28	5·5	4·9	286	27	5·8	5·6	269	26	5·6	2·8	276	28	6·1	3·8	263	26	5·6	2·8	269
1·5 „	28	6·3	5·5	287	27	7·2	6·8	283	25	7·4	4·3	268	28	7·0	4·8	264	26	6·5	3·5	267
2·0 „	28	9·0	8·0	284	27	9·6	9·1	287	23	7·4	5·4	269	27	6·8	5·1	274	24	6·7	4·4	276
2·5 „	25	10·2	9·4	290	26	11·8	11·3	292	23	7·8	6·2	285	27	8·3	6·6	274	21	7·7	6·3	287
3·0 „	24	13·3	12·5	289	25	14·9	14·4	292	22	9·9	8·7	286	24	9·0	7·7	276	16	8·3	5·9	288
4·0 „	14	15·1	14·7	288	19	17·2	16·7	288	21	12·0	10·8	284	18	9·3	7·6	277				
5·0 „	6	16·4	16·0	284	14	19·0	18·8	283	9	10·7	10·1	286	9	10·6	9·8	277				
6·0 „	2	20·0	19·9	284	13	21·6	21·1	282	3	13·7	13·3	280	7	12·6	12·4	272				
7·5 „	2	23·3	23·1	285	2	30·3	30·3	267					1	19·0	19·0	250				
9·0 „																				

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9.0 km. above sea level

February 1947

Station.	TEZPUR												TRICHINOPOLY											
Time I. S. T.	0700				1600				0100				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·0	0·8	62	28	1·0	0·3	280	28	0·8	0·3	65	28	1·3	1·3	29	28	3·0	2·7	64	28	2·2	1·8	46
0·15 a. g.	28	4·8	4·0	78	28	3·8	1·0	265	28	5·6	3·5	71	28	5·0	4·7	37	28	4·6	4·2	66	28	5·8	5·6	69
0·6 a. s. l.	28	5·7	3·2	75	27	2·9	0·7	277	27	5·4	0·6	222	28	6·0	5·3	60	28	5·1	4·6	60	28	7·6	7·2	70
1·0 ,,	28	4·2	0·7	108	27	2·9	1·6	247	26	5·4	2·1	249	28	5·8	4·7	61	28	5·3	4·9	56	28	6·2	5·6	53
1·5 ,,	28	4·6	2·9	258	26	4·2	2·8	239	22	4·1	3·1	254	27	5·4	4·3	46	28	5·9	5·5	48	28	5·0	4·2	33
2·0 ,,	25	4·7	3·1	254	25	5·8	4·7	234	17	4·4	3·0	255	26	6·3	5·2	38	27	6·1	5·2	43	27	5·8	4·5	44
2·5 ,,	22	5·4	2·5	252	25	7·4	5·7	245	7	4·7	2·5	271	26	6·9	5·2	31	26	6·1	4·5	35	26	5·8	3·6	28
3·0 ,,	20	6·5	3·0	248	25	9·1	7·6	245	5	5·5	1·3	27	26	6·5	4·3	18	26	5·8	4·0	33	25	5·1	3·2	25
4·0 ,,	12	12·0	11·5	270	16	10·4	9·1	266					28	5·2	3·2	49	20	4·8	2·8	19	5	6·5	2·7	331
5·0 ,,	7	17·0	16·5	282	14	18·7	17·7	271					21	4·2	1·2	3	19	5·3	3·7	11	2	11·0	8·5	271
6·0 ,,	6	21·0	20·8	275	10	22·7	22·1	280					21	5·3	0·5	306	15	5·8	2·1	10				
7·5 ,,	1	25·0	25·0	280	6	25·6	25·2	286					14	6·3	2·2	267	12	7·2	1·5	315				
9·0 ,,					4	35·4	35·4	189					11	7·6	4·0	259	9	7·4	5·6	306				

Station.	TRIVANDRUM				VENGURLA																			
Time I. S. T.	0700				0700				1600				0100											
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	2·1	1·7	45	28	0·7	0·7	7	28	3·7	3·5	266	28	1·3	1·2	3								
0·15 a. g.	28	2·8	1·9	50	28	4·4	3·9	21	28	5·4	5·1	278	28	5·5	5·5	356								
0·6 a. s. l.	28	2·9	1·0	26	28	5·6	4·6	360	28	3·1	2·3	265	28	5·6	5·3	343								
1·0 ,,	28	3·1	1·4	38	27	5·4	3·3	339	28	3·2	0·2	347	28	4·6	2·4	294								
1·5 ,,	28	3·6	2·3	28	26	4·6	1·3	167	28	4·5	1·9	117	28	4·5	2·2	156								
2·0 ,,	28	5·6	4·1	45	26	5·7	2·9	130	28	5·6	3·0	122	24	6·1	4·5	125								
2·5 ,,	27	5·4	3·7	46	26	5·2	3·3	158	28	6·1	2·8	129	20	4·9	2·4	141								
3·0 ,,	26	5·3	2·3	27	25	4·8	3·0	214	27	5·3	0·7	182	16	6·0	2·4	245								
4·0 ,,	23	4·4	2·4	41	22	7·6	6·4	265	27	6·6	3·5	279	5	4·4	3·4	286								
5·0 ,,	21	5·1	2·9	44	19	10·0	8·5	278	26	8·5	6·4	283												
6·0 ,,	5	12·0	4·1	60	13	10·5	9·3	278	25	10·5	8·5	270												
7·5 ,,	5	6·8	3·8	85	7	17·7	11·6	294	23	14·1	11·9	275												
9·0 ,,	1	7·0	7·6	155	3	17·7	17·0	273	19	20·3	18·0	268												

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea-level

FEBRUARY 1947

Station.	VERAVAL												VIZAGAPATAM											
Time I. S. T.	1600				0700				0100				1600				0700				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
rface .	28	6·4	5·3	260	28	3·5	3·1	12	28	4·4	3·8	338	28	3·2	2·7	155	28	0·2	calm.		28	0·6	0·1	317
15 a. g. .	28	6·3	4·2	252	28	3·3	7·1	14	28	7·5	5·8	343	28	5·5	4·6	151	27	2·8	0·9	335	28	3·0	1·1	280
3 a. s. l. .	28	3·8	1·8	304	28	6·4	4·2	17	28	5·8	3·6	356	27	4·3	2·3	131	27	3·5	1·1	130	28	3·4	1·6	181
0 „ .	28	4·4	2·1	354	28	5·1	1·9	360	28	4·7	1·5	156	27	3·4	1·0	86	27	4·1	1·8	110	25	3·4	1·0	212
5 „ .	28	4·9	1·5	7	28	4·8	1·9	223	28	4·7	0·7	132	27	4·1	2·4	15	28	5·3	2·8	68	23	3·8	1·2	78
0 „ .	28	5·9	1·7	253	28	5·7	3·1	209	27	5·3	1·8	199	28	5·2	3·4	335	28	5·1	2·9	42	23	4·3	2·4	35
5 „ .	28	6·0	3·5	249	28	6·2	3·5	214	24	5·8	3·4	223	28	5·7	3·9	337	25	5·4	3·3	17	20	5·1	2·2	17
0 „ .	26	6·2	4·8	257	26	5·9	4·4	255	22	6·0	4·7	245	27	6·4	4·9	310	25	5·7	2·7	33	16	5·3	2·0	307
0 „ .	26	10·7	4·7	260	25	9·4	8·8	258	3	9·8	8·7	242	27	8·0	6·8	269	25	7·3	5·2	279	3	8·3	8·2	257
0 „ .	23	16·0	15·2	268	21	13·9	13·0	267					26	11·7	9·1	281	22	9·8	8·0	273				
0 „ .	21	22·6	21·9	262	17	19·1	18·4	269					23	13·2	9·5	274	16	11·5	10·1	278				
5 „ .	15	29·4	28·0	266	10	27·2	26·4	269					16	18·5	15·2	276	5	11·9	11·0	318				
0 „ .	6	31·5	30·0	266	1	52·0	52·0	270					5	24·6	22·6	253	2	18·5	12·9	325				

Table B—Monthly mean directions and velocities of upper winds

Winds above 9·0 km. above sea level

FEBRUARY 1947

Time	1600					1600					1600					1600			
Ht. in km.	n	V	v	D	Ht. in km.	n	V	v	D	Ht. in km.	n	V	v	D	Ht. in km.	n	V	v	D
	AMBALA					DROSH					MANGALORE					NAGPUR (*contd.*)			
10·0	1	40·0	40·0	255	10·0	1	21·0	21·0	265	10·0	2	12·8	10·9	257	13·0	2	34·5	33·1	250
					11·0	1	29·0	29·0	260	11·0	1	22·5	22·5	280	14·0	1	38·0	38·0	250
	ANANTAPUR									12·0	1	12·0	12·0	230					
						HYDERABAD				13·0	1	18·0	18·0	210		PESHAWAR			
10·0	8	25·9	25·2	256	10·0	1	28·0	28·0	265						10·0	2	22·5	22·5	268
11·0	5	25·8	25·3	256							MASULIPATAM				11·0	1	36·0	36·0	255
12·0	4	33·4	31·0	269		JUBBULPUR				10·0	8	18·3	17·5	251					
13·0	3	35·5	35·0	278	10·0	2	31·7	31·1	299	11·0	7	29·3	20·6	245		POONA			
14·0	2	39·0	39·0	277	11·0	2	37·7	37·7	292	12·0	4	20·4	18·5	231	10·0	1	34·0	34·0	270
					12·0	1	42·5	42·5	280	13·0	2	21·0	20·2	237		PORT BLAIR			
	BANGALORE				13·0	1	50·0	50·0	274	14·0	1	25·0	25·0	240	10·0	4	7·3	4·8	214
					14·0	1	42·0	42·0	260	15·0	1	23·0	23·0	245	11·0	3	8·3	6·9	237
10·0	3	14·5	14·5	255	15·0	1	46·0	46·0	270	16·0	1	18·5	18·5	270	12·0	2	7·3	7·1	205
11·0	2	11·5	11·5	256	16·0	1	42·0	42·0	270						13·0	1	7·0	7·0	175
12·0	1	17·0	17·0	270							MINICOY				14·0	1	12·0	12·0	325
13·0	1	16·0	16·0	295		MADRAS									15·0	1	6·5	6·5	180
14·0	1	17·0	17·0	295	10·0	2	11·3	11·0	288	10·0	2	10·7	10·6	135	16·0	1	9·0	9·0	190
					11·0	1	14·0	14·0	220	11·0	1	8·5	8·5	210					
	CHITTAGONG				12·0	1	17·0	17·0	215							TEZPUR			
					13·0	1	24·5	24·5	220		NAGERCOIL				10·0	2	35·3	35·3	285
10·0	3	35·0	34·9	274	14·0	1	27·5	27·5	220	10·0	7	7·9	7·2	154		TRICHINOPOLY			
					15·0	1	37·0	37·0	230	11·0	5	6·1	1·9	291	10·0	5	7·3	4·3	270
	COCHIN				16·0	1	39·0	39·0	220	12·0	5	9·8	0·8	268	11·0	4	6·9	4·7	222
10·0	3	9·8	6·8	267	17·0	1	45·0	45·0	225	13·0	3	13·8	6·2	106	12·0	3	6·3	5·8	234
11·0	2	8·5	8·3	301		MALEGAON CAMP				14·0	3	15·7	7·8	138	13·0	2	10·7	10·1	225
12·0	1	7·0	7·0	200						15·0	2	10·0	1·4	168		VENGURLA			
13·0	1	14·0	14·0	175	10·0	2	23·0	23·0	249	16·0	1	12·0	12·0	80	10·0	16	23·7	21·5	259
14·0	1	13·0	13·0	185	11·0	2	29·0	28·3	251	17·0	1	9·0	9·0	10	11·0	11	27·1	25·0	266
					12·0	1	32·0	32·0	250						12·0	7	29·8	24·7	272
	CUTTACK				13·0	1	40·0	40·0	230		NAGPUR					VIZAGAPATAM			
10·0	2	34·7	34·7	269	14·0	1	44·5	44·5	220	10·0	3	27·0	26·7	275					
11·0	1	39·5	39·5	255						11·0	3	30·3	29·3	264	10·0	1	11·0	11·0	305
12·0	1	39·0	39·0	245	15·0	1	38·0	38·0	225	12·0	2	31·5	26·1	294	11·0	1	14·5	14·5	305

Registered No. B-3097

INDIAN WEATHER REVIEW, 1947

Monthly Weather Report

March

Published by authority of the Government of India

Three active western disturbances whose secondary low pressure areas induced spells of marked nor'wester activity during their eastward passage across northeast India formed the chief feature of the month.

Five western disturbances affected weather over the country. Of these the first caused fairly widespread rain along the northwest frontier on the 2nd, in the north Punjab on the 3rd and in Kashmir on the 3rd and 4th. The second which lay as a low pressure area over the Gulf of Oman on the 8th morning, moved northeastwards across Baluchistan and Kashmir by the 10th, and gave local showers in Baluchistan. It however induced a secondary 'low' over Sind on the 10th. This 'low' moved over to Rajputana on the 11th, intensified there and travelled eastwards across the United Provinces the next day. This secondary 'low' caused an influx of moisture from the Bay of Bengal and fairly widespread thunderstorm rain occurred over the region from the east and north Punjab to the east Central Provinces on the 12th, over the United Provinces and northeast India on the 13th, in northeast India on the 14th and in east Bengal and Assam on the next two days.

An active western disturbance, the third of the month, which was over Baluchistan on the 17th, moved off northeastwards across the Punjab-Kumaon hills. It gave fairly widespread showers in the North-West Frontier Province on the 18th and in Kashmir, the east and north Punjab and the United Provinces on the 19th, and by then had induced a secondary 'low' over the south United Provinces. During the eastward travel of the secondary 'low' widespread nor'westers occurred in northeast India on the 20th, a number of places in north Bihar and Assam reporting hail. On the next day, thunderstorm rain occurred locally in Bengal and Assam, scattered thunderstorms continuing in Assam on the succeeding two days.

Due to the fourth western disturbance moving across Kashmir, local showers occurred in Baluchistan and the North-West Frontier Province on the 22nd and widespread showers occurred in Kashmir and the Punjab hills on the 23rd. A secondary 'low' formed over the southwest Punjab on the 22nd, and moved eastwards across the United Provinces into Bengal. At the same time, a low pressure wave from the southwest Bay of Bengal moved northnortheastwards causing a large inflow of moist air from the Bay of Bengal into northeast India. This resulted in widespread thundershowers in the United Provinces on the 25th and a spell of fairly widespread nor'westers in northeast India on the 25th and 26th.

The fifth and last western disturbance of the month caused nearly general showers in the extreme north of the country between the 28th and 31st.

Rainfall in the Peninsula and the central parts of the country was caused by the passage westwards of two low pressure areas from the south Bay of Bengal. The first moved westwards across Ceylon into the Comorin area on the 2nd, and curved northwards to off Kanara by the 3rd passing into the central parts of the country by the next day. Associated with it, there was marked thunderstorm activity in the Peninsula south of Lat. 14°N on the 2nd and 3rd, while fairly widespread thunderstorms occurred along a narrow belt of country from the south Deccan to east Central India on the 4th. With the movement of the second low pressure wave from the south Bay, there was marked thunderstorm activity in the extreme south Peninsula on the 27th and 28th and in the region extending from the south Konkan to east Central India on the 29th and 30th.

A third spell of thunderstorm activity was setting in over the south Peninsula on the last day of the month.

LIBRARY NOV 29 1951 WEATHER BUREAU

The total rainfall of the month was in moderate to large excess in the Bay Islands, Chota Nagpur, the East United Provinces, east Central India, Berar, the west Central Provinces, the Bombay Deccan, north Hyderabad, Malabar and southeast Madras and in slight excess in the west United Provinces. It was normal in Bengal, the North-West Frontier Province, Baluchistan, the east Central Provinces and Mysore. It was in slight defect in Assam and Bihar and in moderate to large defect elsewhere except in east Rajputana, Gujarat, the Madras Deccan and the north Madras coast where no rain fell. Averaged over the plains of India, the rainfall was 3 per cent in defect.

The mean Maximum temperature was above normal in the United Provinces, northwest India outside Gujarat and in west Central India, and below it in southeast Madras. The mean minimum temperature was above normal in Bihar, the United Provinces, the Punjab, Kashmir, the North-West Frontier Province, the east Central Provinces, the Deccan and Mysore and normral elsewhere.

Relative humidity was in excess in Chota Nagpur, Bihar, Sind, Gujarat, Central India, Berar, the west Central Provinces, north Hyderabad and Mysore and normal elsewhere.

The mean cloud amount was above normal in the Bay Islands, Assam, Orissa, Bihar, the United Provinces, west Central India, Berar, the Central Provinces, the Konkan, the Bombay Deccan, Mysore, Malabar, southeast Madras and the north Madras coast and below it in Rajputana.

Table I contains the divisional and sub-divisional means of rainfall, temperature and humidity and cloud amount for the 15 Chief Political Divisions and the 31 Sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

N. B.—**The Indian Standard Time used in this publication is 5 hours 30 minutes in advance of G. M. T.**

POONA No. 5:
The 30th April 1947.

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

Errata to India Weather Review, 1947, Monthly Weather Report
March.

Page Number	Station	Column	For	Read
71	-	Heading	INDIAN	INDIA
75	-	Heading of 24	9 hrs.I.S.T.	8 hrs.I.S.T.
	-	53	Chit agong	Chittagong.
76	Khushab	18	10.4	10.7
	-	1	Shrinagar	Srinagar
80	-	Page Number	(.8	80
80	Insert a foot-note "(R) Register not received" at the bottom.			
81	-	Heading of 24	9 hrs.I.S.T.	8 Hrs.I.S.T.
82	-	" 3	9 hrs.I.S.T.	8 Hrs.I.S.T.
	-	" 5	18 hrs.I.S.T.	17 Hrs.I.S.T.
	-	" 14	9 hrs.I.S.T.	8 Hrs.I.S.T.
	-	" 15	18 hrs.I.S.T.	17 Hrs.I.S.T.
	-	" 16	9 hrs.I.S.T.	8 Hrs.I.S.T.
	-	" 17	18 hrs.I.S.T.	17 Hrs.I.S.T.
	-	" 18	9 hrs.I.S.T.	8 Hrs.I.S.T.
	-	" 20	18 hrs.I.S.T.	17 Hrs.I.S.T.
	-	" 21	9 hrs.I.S.T.	8 Hrs.I.S.T.
	-	" 23	18 hrs.I.S.T.	17 Hrs.I.S.T.
	Pamban	14	82	82.1
	Arogyavaram	3	984.7	934.7
	Kalimpong	14	7.6	57.6
	Muktesar	15	81.4	86.1
	Drosh	17	47 4	47.4
	Abu	16	5 0	52.0
	"	17	55 9	55.9
	Pachmarhi	16	54.1	57.1
	Mercara	16	6 .6	63.6
	Ootacamund	17	56 6	56.6
	Coonoor	6	72.8	(j) 72.8
	"	16	55.6	55.5
	"	17	Delete	55.5
	Kodaikanal	7	+0.6	-0.6
	"	22	+ 10	+10
	Jalalabad	17	44.3	64.3
	Insert "*" (Asterisk) before the foot-note "Pressure and cloud etc." at the bottom.			
		Foot-note	(v) Mean of 30 days.	(a) Mean of 30 days.
83		Heading of 24	9 hrs.I.S.T.	8 Hrs.I.S.T.
		" 26	18 hrs.I.S.T.	17 Hrs.I.S.T.
	Insert "50" at the column number for the column between the columns "49" and "51".			
	Cuddalore	28	0.14	-0.14
	Arogyavaram	39	5	15
	"	50	1	0
	Bellary	29	Blank	0
	Kurnool	29	Blank	0
	Calingapatam	33	(b) 8.1	8.1

P.T.O.

Page Number	Station	Column	For	Read
83	Aijal	44	Blank	1
	Darjiling	44	Blank	0
	Abu	29	Blank	0
85	-	Insert "53" at the column number for the column after "52".		
	Ispahan	53	Ispahan	Ispahan(R)
86	-	Heading of 7	Departure irom normal	Departure from normal.
87		" 5	Heav est fall in 24 hrs.	Heaviest fall in 24 hrs.
95	Gaya	0100 under 'n' against Height 1.0 a.s.l.	91	31
	"	1600 under 'n' against Height 2.0 a.s.l.	0	30
	"	0100 under 'v' against Height 2.5 a.s.l.	107	10.7
98	Gorakhpur	1600 under 'V' against Height 0.6 a.s.l.	5.7	5.9

	Rainfall.				Departure from normal of				
							8 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 ...	2·86	3·08	−0·72	− 23	−0·3	+1·7	+0·7	0	+1·1
Bengal ...	1·65	1·58	+0·07	+ 4	+0·2	+1·7	+1·7	+ 5	+0·2
Orissa ...	0·20	0·84	−0·64	− 76	+0·5	+1·4	+1·6	+ 3	+0·5
Bihar ...	1·03	0·61	+0·42	+ 69	+0·4	+1·7	+2·9	+10	+0·3
United Provinces.	0·73	0·48	+0·25	+ 52	+2·5	+2·3	+1·7	+ 5	+0·5
Punjab ...	0·19	0·85	−0·66	− 78	+4·5	+2·4	+1·2	+ 1	−0·3
North-West Frontier Province.	1·87	1·88	−0·01	− 1	+3·9	+3·1	+0·4	+ 2	−0·5
Sind ...	0·01	0·22	−0·21	− 95	+2·5	+1·6	+1·4	+ 6	+0·3
Sub-division									
Bay Islands ..	2·49	1·12	+ 1·37	+122	0	+1·4	+1·1	+ 1	+3·1
Assam ...	2·86	3·08	− 0·72	− 23	−0·3	+1·7	+0·7	0	+1·1
Bengal ...	1·65	1·58	+ 0·07	+ 4	+0·2	+1·7	+1·7	+ 5	+0·2
Orissa ...	0·20	0·84	− 0·64	− 76	+0·5	+1·4	+1·6	+ 3	+0·5
Chota Nagpur ..	2·84	0·88	+ 1·46	+166	−0·6	+0·6	+3·2	+11	+0·3
Bihar ...	0·37	0·48	− 0·11	− 23	+1·2	+2·7	+2·7	+ 8	+0·4
United Provinces, East.	0·72	0·35	+ 0·37	+106	+2·3	+2·5	+1·8	+ 4	+0·6
Do. do. West.	0·75	0·60	+ 0·15	+ 25	+2·9	+2·0	+1·6	+ 5	+0·5
Punjab, East and North.	0·31	1·18	− 0·87	− 74	+1·6	−2·5	+1·4	+ 3	−0·1
Do. do. South-West.	0·08	0·53	− 0·45	− 85	+4·5	+2·3	+1·1	0	−0·4
Kashmir ...	2·29	4·21	− 1·92	− 46	+3·5	+2·0	+0·2	+ 1	−0·5
North-West Frontier Province.	1·87	1·88	− 0·01	− 1	+3·9	+3·1	+0·4	+ 2	−0·5
Baluchistan ...	0·74	0·82	− 0·08	− 10	+2·3	+1·2	+0·6	+ 1	+0·2
Sind ...	0·01	0·22	− 0·21	− 95	+2·5	+1·6	+1·4	+ 6	+0·3
Rajputana, West.	0·01	0·25	− 0·24	− 96	+4·4	+1·6	−0·3	− 4	−1·5
Do. East.	0	0·20	− 0·20	−100	+2·2	+1·7	+1·3	+ 4	−0·4

	Rainfall.				Departure from normal of				
							8 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.	%	
9. Rajputana ...	0·01	0·22	−0·21	− 95	+3·1	+ 1·7	+0·6	+ 1	−0·9
10. Bombay ...	0·18	0·11	+0·07	+ 64	0	+1·7	+1·3	+ 7	+0·5
11. Central India ...	0·27	0·36	−0·09	− 25	+2·0	+0·9	+2·4	+15	+0·2
12. Central Provinces and Berar.	0·69	0·57	+0·12	+ 21	0	+1·5	+2·7	+ 9	+0·9
13. Hyderabad ...	0·26	0·34	−0·08	− 24	+0·5	+2·9	+3·7	+10	+0·2
14. Mysore ..	0·53	0·54	−0·01	− 2	−1·1	+2·8	+2·5	+ 7	+1·9
15. Madras ...	1·29	0·55	+0·74	+135	−1·3	+1·5	+1·0	+ 2	+1·1
Mean of India ...	0·34	0·66	−0·02	− 3	+1·2	+1·8	+1·7	+ 5	+0·3
Sub-division—*contd.*									
17. Gujarat ...	0	0·06	− 0·06	−100	−0·3	+1·6	+1·6	+11	−0·2
18. Central India, West.	0·02	0·26	− 0·24	− 92	+2·1	+1·6	+1·7	+10	+0·5
19. Central India East.	0·61	0·48	+ 0·13	+ 27	+1·7	0	+3·2	+21	−0·2
20. Berar ...	0·99	0·35	+ 0·64	+183	−0·9	+0·7	+4·3	+16	+0·9
21. Central Provinces, West	0·57	0·45	+ 0·12	+ 27	−0·2	+1·2	+2·9	+11	+1·1
22. Do. do. East.	0·71	0·79	− 0·08	− 10	+0·7	+2·1	+1·8	+ 5	+0·6
23. Konkan ...	0·02	0·03	− 0·01	− 33	+0·3	+1·3	+1·6	+ 3	+1·0
24. Bombay Deccan...	0·47	0·21	+ 0·26	+124	+0·4	+2·1	+0·8	+ 5	+1·3
25. Hyderabad, North	0·41	0·32	+ 0·09	+ 28	−0·2	+2·8	+5·3	+15	+0·3
26. Do. South	0·07	0·35	− 0·28	− 80	+1·2	+3·1	+2·2	+ 5	+0·1
27. Mysore ...	0·53	0·54	− 0·01	− 2	−1·1	+2·8	+2·5	+ 7	+1·9
28. Malabar ...	2·40	1·11	+ 1·29	+116	−0·6	+0·9	+1·8	+ 5	+2·1
29. Madras, Southeast	2·14	0·59	+ 1·55	+263	−2·1	+1·4	+0·9	+ 3	+1·5
30. Do. Deccan..	0	0·17	− 0·17	−100	−0·3	+2·0	+1·1	0	+0·1
31. Do. Coast, North	0	0·40	− 0·40	−100	−1·0	+1·6	+0·7	+ 1	+0·6

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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 ...	261	1003·8	+ 0·8	1000·6	87·5	0	90	16,18,21	72·9	+ 1·4	66	4	81·6	81·5	76·1	75·2	28·3	+ 1·1	26·9	76	+ 1	74
Assam																						
Dibrugarh ...	348	1001·6	+ 0·4	998·0	81·0	+ 2·1	92	30	62·5	+ 1·7	57	9	69·2	74·9	64·4	67·3	18·4	+ 0·2	19·4	77	− 2	67
Sibsagar (*R*) ...	317																					
Tezpur ...	258	1004·7	+ 0·6	1000·1	83·1	− 0·4	91	4,30	63·9	+ 1·6	59	22	69·6	79·0	64·4	67·6	18·4	+ 0·6	17·9	75	+ 1	55
Gauhati ...	182	1006·7	+ 0·7	1001·9	83·6	− 2·3	91	4 days	63·0	+ 2·8	57	8,10	70·1	80·6	65·1	68·2	18·9	+ 1·4	17·9	77	+ 4	53
Dhubri ...	115	1009·1	+ 1·0	1004·6	83·0	− 3·0	92	6,31	65·2	+ 2·0	60	9,14	70·3	81·3	65·1	67·2	18·9	+ 1·4	16·4	75	+ 6	48
Silchar ...	96	1010·0	+ 0·2	1005·5	83·0	+ 1·5	95	31	64·4	+ 1·4	57	1	70·3	83·8	65·7	69·1	19·5	− 0·3	17·7	77	+ 2	46
Srimangal ...	69	1010·4	+ 0·3	1006·1	90·7	+ 0·5	98	31	63·9	+ 2·4	57	22	73·1	86·0	69·0	70·0	22·5	+ 1·7	17·8	81	+ 4	45
Bengal																						
Cox's Bazar ...	38	1011·6	+ 0·4	1008·3	87·3	+ 1·0	90	20, 26	67·8	+ 1·1	60	1	78·2	82·3	72·9	76·6	25·1	+ 0·8	28·8	77	0	76
Chittagong ...	87	1009·6	− 0·1	1006·0	87·9	+ 0·8	93	20,26,29	69·1	+ 1·9	61	1	76·6	81·8	71·0	74·3	23·4	+ 0·3	25·6	75	− 1	69
Noakhali ...	22	1012·1	+ 0·5	1008·5	88·5	+ 1·9	95	31	72·1	+ 1·6	61	17	77·3	83·5	73·6	75·6	26·7	+ 1·4	26·6	83	+ 4	65
Comilla ...	29	1011·7	+ 0·5	1007·6	91·0	+ 1·3	97	29,30,31	69·2	+ 2·1	62	1	76·2	86·2	72·1	71·9	25·1	+ 0·9	20·1	82	+ 7	48
Brahmanbaria ...	32	1011·5		1006·8	90·0	0	97	31	67·8	+ 3·8	62	1,14,17	75·5	84·3	70·8	71·1	23·7	+ 2·6	20·1	78	+ 7	52
Narayanganj (*R*) ...	26																					
Mymensingh ...	62	1010·6	+ 0·4	1006·1	89·6	+ 1·6	96	31	65·2	+ 0·5	56	2	71·6	84·9	67·8	71·3	21·4	+ 1·4	20·0	82	+ 7	53
Faridpur ...	27	1010·6	+ 0·6	1006·6	88·4	− 0·9	97	30, 31	65·9	+ 0·1	55	1	77·4	85·1	71·3	73·4	23·6	+ 1·3	22·9	72	0	55
Barisal (*R*) ...	11																					
Khulna ...	16	1012·0	+ 0·5	1007·9	91·8	+ 0·2	100	5	69·9	+ 1·5	64	3	77·0	86·0	72·3	71·8	25·0	+ 2·0	20·3	79	+ 7	49
Jessore ...	26	1011·1	+ 0·1	1007·3	91·7	− 0·2	100	30, 31	66·0	+ 1·2	56	2, 3	76·1	86·5	71·6	73·1	24·4	+ 1·9	21·7	81	+ 6	51
Satkhira ...	16	1011·8	+ 0·7	1007·5	93·2	− 0·5	101	5	68·5	+ 0·6	62	2,7,14,	77·2	89·6	72·4	72·5	24·9	+ 1·7	19·5	79	+ 6	43
Dum Dum ...	33	1010·7		1006·8	93·3		100	5, 29	69·9		61	15, 20	76·7	89·8	71·8	72·7	24·3		19·8	77		42
Calcutta ...	21	1011·8	+ 0·3	1007·2	93·2	+ 0·7	100	29	71·5	+ 2·7	63	13	75·8	88·4	72·1	72·1	25·3	+ 2·4	19·6	83	+ 4	43
Saugor Island ...	10	1011·5	+ 0·1	1008·0	85·5	− 1·1	92	6, 7	75·2	+ 1·0	65	14, 15	80·4	81·5	75·1	75·6	27·3	+ 1·1	27·5	77	+ 1	75
Sandheads * ...	28																					
Midnapore ...	149	1006·4	− 0·1	1002·5	94·5	− 0·6	104	30	70·1	+ 0·7	62	13	75·0	92·3	69·5	69·5	22·1	+ 2·7	14·2	74	+12	30
Burdwan ...	106	1008·0	+ 0·1	1003·8	93·0	− 0·3	102	30	69·7	+ 2·2	62	8	75·6	91·4	69·7	70·0	22·1	+ 3·2	15·5	73	+ 7	32
Krishnagar ...	48	1009·9	0	1006·0	94·3	+ 1·6	102	30	66·9	+ 1·2	58	8	75·1	90·6	69·7	70·3	22·3	+ 2·2	18·9	76	+10	34
Asansol (*R*) ...	414																					
Berhampore ...	62	1009·5	− 0·1	1005·3	93·1	+ 1·6	102	30	66·0	+ 0·7	58	8, 9	75·8	88·5	68·1	69·3	20·1	+ 2·2	15·7	65	+ 2	35
Bogra ...	63	1009·4	0	1005·6	90·4	− 0·3	98	31	64·9	+ 1·9	57	2,8,9	73·8	85·9	67·3	68·5	19·6	+ 1·5	15·9	71	+ 4	40
Malda ...	103	1008·1	+ 0·4	1004·1	89·6	− 0·5	96	29, 30	65·0	+ 3·4	57	9	74·8	85·7	66·2	68·2	18·1	+ 2·0	15·6	63	+11	39
Dinajpur ...	123	1007·6	+ 0·5	1003·4	89·8	+ 0·6	97	6,30,31	63·3	+ 2·4	55	8	72·7	85·2	65·3	68·4	17·9	+ 2·0	16·0	66	+ 3	42
Jalpaiguri ...	271	1002·8	+ 0·5	998·6	83·5	− 1·7	92	31	62·6	+ 2·3	55	7, 14	67·5	80·9	63·3	66·8	18·1	+ 1·1	16·1	78	+ 5	47
Orissa																						
Balasore (*R*) ...	65																					
Chandbali ...	20	1011·7	+ 0·6	1007·7	94·0	+ 0·4	101	4 days	71·7	+ 1·0	65	13	77·7	85·9	73·7	74·5	26·6	+ 1·4	23·9	82	+ 3	58
Puri ...	20	1011·6	+ 0·3	1008·1	87·5	+ 1·3	97	6	78·2	+ 2·6	71	2	81·5	82·0	76·2	77·8	23·3	+ 0·6	30·3	78	− 2	78
Gopalpur ...	56	1010·4	+ 0·5	1007·2	87·8	+ 0·8	95	6	74·4	+ 1·6	65	2	81·2	83·0	75·2	78·6	27·1	+ 1·9	31·3	75	− 2	82
Cuttack ...	87	1009·1	0	1004·6	96·6	0	103	30	73·1	+ 1·3	64	1	77·4	91·4	72·8	73·0	25·5	+ 1·4	19·3	79	+ 3	40
Angul ...	455	996·7	+ 0·5	992·0	95·9	+ 0·1	105	29	69·7	+ 1·6	61	1	77·1	93·2	69·0	69·5	20·6	+ 1·8	14·0	65	+ 2	27
Sambalpur ...	486	994·8	− 0·4	990·7	96·3	+ 0·6	104	29, 30	67·3	+ 0·5	57	1	73·7	94·0	66·3	69·2	18·7	+ 2·3	13·0	65	+11	25
Chota Nagpur																						
Jamshedpur ...	423	997·3	+ 0·3	993·0	93·4	− 0·6	102	30	66·9	+ 2·1	58	1	73·5	90·7	65·9	68·8	18·4	+ 3·0	14·1	65	+10	30
Chaibasa ...	742	986·3	+ 0·3	982·1	93·7	− 0·5	101	30	67·0	+ 1·2	60	8,13	72·7	90·9	68·0	74·7	21·4	+ 4·5	22·0	78	+17	46
Ranchi ...	2,150	938·9	+ 0·2	936·0	85·7	− 1·2	93	6 days	62·1	− 1·3	54	13	71·9	83·8	60·9	63·9	13·9	+ 3·1	11·7	52	+10	34
Hazaribagh ...	2,006	943·8	+ 0·6	940·6	86·7	− 1·0	95	30	62·1	− 1·0	54	8	72·0	82·9	60·2	63·0	12·4	+ 1·9	10·0	50	+11	23
Daltonganj ...	725	986·7	− 0·3	982·7	91·7	+ 0·6	101	25	61·7	+ 1·8	52	8	70·8	88·7	63·6	67·4	16·9	+ 3·5	13·2	65	+ 8	30
Dhanbad ...	839	982·2			88·4		98	29, 30	66·4		61	13	74·6		64·1		15·7			55		

(*R*) Register not received.

* Observations not available for complete month.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION.
											8 hrs. I. S. T.										17 hrs. I. S. T.								
Mean 9 hrs. I.S.T.	Departure from normal.	Mean 17 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
6·7	+ 3·1	6·7	2·49	+ 1·37	1·76	26	3	+ 0·9	4·1	− 1·8	5	10	2	3	0	0	3	1	7	0	13	12	1	0	1	1	1	2	Port Blair
																													Assam
6·5	+ 1·2	6·2	2·70	− 1·36	0·66	14	7	− 1·5	1·6	+ 0·2	5	10	10	1	2	0	0	2	1	2	4	4	1	0	0	0	6	20	Dibrugarh
																													Sibsagar (*R*)
4·0	+ 0·9	3·5	2·21	+ 0·29	0·56	14	7	+ 2·5	1·7	− 1·6	0	8	18	0	0	0	0	0	5	1	1	8	1	0	2	1	1	16	Tezpur
4·5	+ 1·6	4·4	2·98	+ 0·93	0·65	19	8	+ 4·2	3·1	+ 1·2	7	9	5	4	3	2	1	0	0	5	13	4	1	0	4	1	1	2	Gauhati
4·3	+ 2·0	3·4	2·45	+ 0·79	1·48	25	5	+ 2·5	4·9	+ 0·4	0	12	14	0	0	2	1	0	2	2	4	7	1	4	9	1	1	2	Dhubri
3·5	+ 0·1	3·1	2·95	− 3·81	0·87	13	6	− 2·1	2·0	+ 0·1	0	7	11	9	0	0	1	0	3	1	5	2	1	2	6	11	1	2	Silchar
3·5	+ 0·5	3·8	0·79	− 2·60	0·36	15	4	− 0·9	3·5	− 0·3	1	1	0	15	6	5	0	0	3	2	4	0	2	2	10	7	3	1	Srimangal
																													Bengal
1·0	− 1·7	0·7	2·43	+ 0·94	2·49	14	1	− 0·5	3·2	+ 0·1	0	3	4	1	1	0	0	0	22	0	0	0	0	5	5	11	4	6	Cox's Bazar
3·1	0	1·7	0·90	− 1·56	0·78	15	1	− 1·5	5·8	− 0·4	1	6	11	5	1	0	0	0	7	1	0	1	0	8	15	6	0	0	Chittagong
3·7	+ 0·4	3·3	1·42	− 0·95	0·92	17	3	− 0·1	4·7	+ 1·5	0	7	0	7	1	3	0	5	8	0	2	0	15	1	8	0	4	1	Noakhali
4·5	+ 0·9	3·3	1·48	− 1·53	0·48	17	4	+ 0·5	4·5	+ 0·6	2	1	1	8	16	0	0	0	3	2	2	0	1	9	7	5	3	2	Comilla
2·1		2·5	1·21	− 1·82	0·79	14	2	− 1·7	3·5		3	0	1	2	16	7	0	0	2	1	0	0	5	9	6	0	0	10	Brahmanbaria
																													Narayanganj (*R*)
3·3	− 0·9	2·8	3·77	+ 1·93	1·35	13	6	+ 3·0	2·2	+ 0·4	0	1	12	4	0	2	0	0	12	1	1	5	1	1	1	7	0	14	Mymensingh
1·9	− 0·9	2·8	0·95	− 1·15	0·30	16	4	+ 1·1	3·5	− 0·3	0	1	1	3	11	3	2	3	7	0	3	0	3	6	2	1	8	8	Faridpur
																													Barisal (*R*)
4·0	+ 0·4	3·8	1·14	− 0·50	0·36	12	4	+ 1·7	3·8	+ 0·4	0	1	1	1	7	10	4	1	6	1	1	0	6	12	2	1	1	6	Khulna
2·0	− 1·1	1·9	1·44	− 0·49	0·86	20	4	+ 1·1	4·7	+ 2·6	0	2	2	3	8	11	1	1	3	1	0	0	4	5	2	0	0	19	Jessore
2·3	− 0·1	2·7	0·36	− 1·48	0·09	13,21	0	− 2·5	2·7	+ 0·3	2	0	0	1	11	4	0	2	11	0	0	1	2	9	2	3	1	13	Satkhira
4·2		2·4	1·51		0·95	21	4				2	2	0	2	9	9	0	1	6	2	0	0	1	9	9	4	5	1	Dum Dum
3·0	+ 0·2	2·1	1·30	− 0·06	0·68	21	3	+ 0·7	3·3	− 0·2	2	1	0	1	6	12	4	1	4	3	0	0	1	4	12	5	3	3	Calcutta
3·2	− 0·5	2·7	0·96	− 0·33	0·33	22	5	+ 3·2	12·7	+ 3·1	2	3	0	0	4	20	1	1	0	1	0	0	2	19	9	0	0	0	Saugor Island
																													Sandheads
3·9	+ 1·6	2·9	1·72	+ 0·31	0·65	13	3	+ 0·6	4·1	+ 1·5	1	1	0	1	5	9	2	2	10	5	4	0	2	4	5	4	0	7	Midnapore
3·3	+ 0·4	3·1	1·58	+ 0·02	0·68	13	4	+ 1·7	3·7	+ 1·7	2	3	0	1	6	8	6	1	4	1	1	0	0	3	6	10	10	0	Burdwan
3·4	+ 0·4	2·8	1·51	− 0·01	0·72	21	3	+ 0·9	3·9[c]	+ 1·0	1	3	0	2	9	7	0	1	8	1	0	0	0	4	8	11	5	2	Krishnagar
																													Asansol (*R*)
3·5	+ 0·7	3·2	1·14	+ 0·10	0·27	20	5	+ 3·1	2·0	− 0·2	0	0	4	2	13	2	4	1	5	2	0	0	1	7	2	9	1	9	Berhampore
2·4	− 0·1	2·0	1·16	+ 0·02	0·48	21	3	+ 1·0	2·9	+ 0·8	0	2	6	7	0	8	7	0	1	3	4	2	2	0	1	15	3	1	Bogra
2·6	+ 1·2	2·5	1·11	+ 0·34	0·39	25	4	+ 2·7	3·7	0	2	4	2	4	8	6	2	2	1	2	6	3	2	1	2	3	7	5	Malda
3·1	+ 1·0	2·3	0·80	+ 0·11	0·35	20	3	+ 1·6	1·2	− 1·6	1	9	2	0	0	3	0	0	16	0	5	0	0	0	2	6	0	18	Dinajpur
4·1	+ 2·2	3·1	3·35	+ 2·08	1·21	25	5	+ 2·7	4·2	+ 2·4	7	13	6	0	0	1	1	1	2	1	10	8	1	2	2	6	1	0	Jalpaiguri
																													Orissa
																													Balasore (*R*)
3·7	+ 0·5	1·6	0·44	− 0·85	0·40	14	1	− 1·1	6·7	+ 0·7	4	2	0	0	7	13	4	0	1	0	0	0	24	5	0	2	0	0	Chandbali
2·8[c]	− 0·1	2·7	0·06	− 0·44	0·05	6	0	− 0·9	13·3	+ 2·7	1	0	1	0	4	20	4	1	0	0	0	0	3	20	8	0	0	0	Puri
2·1	+ 0·8	3·2	0	− 0·63	0		0	− 1·1	12·8	+ 3·0	5	1	0	0	2	17	0	2	4	0	0	0	3	20	8	0	0	0	Gopalpur
4·0	+ 0·9	3·0	0·24	− 0·80	0·17	14	1	− 0·4	2·8	+ 0·4	0	2	1	0	3	1	2	1	21	0	1	1	1	12	5	2	2	7	Cuttack
3·5	+ 0·6	3·2	0·28	− 0·45	0·15	13	2	+ 0·3	5·1	+ 1·0	2	2	2	2	1	0	4	2	16	7	1	0	5	2	1	2	7	3	Angul
2·3	+ 0·5	2·7							3·2	+ 0·7	1	11	4	1	2	0	0	1	11	7	3	0	1	5	2	3	6	4	Sambalpur
																													Chota Nagpur
2·0	− 0·2	3·7	3·00	+ 2·28	1·09	13	4	+ 2·0	3·4	+ 0·7	0	0	0	0	0	1	17	7	6	3	1	3	1	2	7	5	4	5	Jamshedpur
3·3	+ 1·2	3·8	3·03	+ 2·16	1·15	20	4	+ 2·3	1·9	− 0·1	0	0	0	0	1	18	2	0	10	3	1	0	0	3	9	3	4	8	Chaibasa
1·4	− 0·6	1·5[a]	2·77	+ 1·58	1·80	13	3	+ 0·5	3·1	− 1·5	1	0	0	0	1	4	3	4	13	2	1	1	0	1	1	10	7	7	Ranchi
2·4	+ 0·3	2·7	1·82	+ 0·98	0·70	13	4	+ 2·1	5·3	− 1·1	1	0	0	2	4	11	3	6	5	0	0	0	0	1	0	1	20	3	Hazaribagh
2·1	+ 0·6	3·5	1·08	+ 0·41	0·50	13	4	+ 2·4	3·0	+ 0·2	2	0	1	5	1	0	4	0	9	4	1	5	0	1	2	6	12	0	Daltonganj
			2·04		0·69	14	4		5·7		2	1	4	2	1	9	8	4	0										Dhanbad

a—Mean of 30 days. b—Mean of 29 days. c—Mean of 28 days. (e)—Mean of 30 days h—Mean of 23 days. (i) Mean of 17 days.

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at Station level in millibars. Mean 8 hrs., I. S. T.	Departure from normal.	Mean 17 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, oF. Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Wet bulb temperature, °F. Mean 8 hrs I. S. T.	Mean 17 hrs. I. S. T.	Vapour pressure, millibars. Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Relative humidity, % Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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	1007·5	+ 0·4	1003·3	90·1	+ 0·7	100	30	61·9	+ 2·5	52	1,8	72·2	85·9	64·5	68·0	16·9	+ 1·9	15·2	63	0	37
Darbhanga ...	161	1006·2	+ 0·5	1001·9	89·7	+ 0·8	96	28,29	63·5	+ 3·0	55	8	71·0	87·0	63·8	68·9	17·0	+ 2·2	16·0	66	+ 9	37
Motihari (*R*) ...	218																					
Patna ...	173	1005·2	- 0·2	1001·5	92·0	+ 2·2	100	28,29	67·3	+ 3·0	61	7	73·3	88·8	63·3	66·6	15·3	+ 1·8	12·3	55	+ 6	27
Dehri ...		998·9		995·1	91·8		101	29	66·5		60	7	73·4	89·9	63·6	66·7	15·5		11·9	57		30
Gaya ...	365	998·9	+ 0·1	994·7	93·2	+ 1·5	102	29	64·9	+ 1·8	57	8	73·5	90·3	62·9	66·3	14·8	+ 4·8	11·2	53	+17	25
Naya Dumka ...	489	994·9	+ 0·3	990·7	93·2	+ 1·5	102	30	67·0	+ 2·4	59	8	73·1	90·2	65·7	67·5	16·8	+ 2·9	12·8	56	+ 9	28
Sabour ...	122	1007·1	+ 0·4	1003·0	91·2	+ 0·6	101	30	62·4	+ 3·2	53	2,8	73·6	87·6	64·9	68·1	17·2	+ 3·3	14·8	61	+ 8	35
U. P., East																						
Gonda ...	360	998·5		995·4	91·4	+ 1·4	99	29	61·2	+ 2·1	54	8	68·7	86·1	60·5	65·4	14·3	+ 2·6	11·3	60	+ 9	25
Gorakhpur ...	254	1002·2	0	998·5	90·7	+ 0·7	98	4	64·7	+ 3·3	58	8	70·5	88·9	61·5	66·3	14·6	+ 1·3	11·9	57	+ 2	26
Banaras ...	250	1002·3	- 0·5	999·0	93·0	+ 1·4	102	29	62·7	+ 1·2	55	8	69·6	90·8	62·6	67·9	16·2	+ 3·0	12·9	66	+15	28
Allahabad (Bamrauli)	322	1000·7	+ 0·3	996·7	94·2	+ 2·5	104	28	65·2	+ 4·2	57	7,8	72·1	92·7	61·4	65·6	13·8	+ 2·5	9·4	52	+ 5	19
Fatehpur ...	375	996·3		994·6	91·8	+ 3·4	105	29	63·4	+ 3·2	54	7	72·5	91·5	61·7	68·0	13·9	+ 0·7	12·8	51	- 4	24
Cawnpur ...	414	997·1	+ 0·1	993·7	92·6	+ 3·4	103	29	63·6	+ 3·5	56	8	69·8	90·8	59·3	64·5	12·6	+ 1·9	8·9	51	+ 3	19
Lucknow ...	371	998·4	0	995·1	94·2	+ 3·4	100	28	62·4	+ 1·8	56	2	70·7	89·7	60·8	66·0	13·7	+ 1·4	11·2	55	+ 4	24
Bahraich ...	407	997·0	+ 0·4	994·1	90·6	+ 1·9	98	29	59·7	+ 0·9	50	7	69·1	87·8	60·8	65·3	14·5	+ 1·1	11·9	60	+ 1	27
U. P., West																						
Jhansi ...	894	988·0	- 0·8	979·4	94·8	+ 2·4	106	29	64·3	- 0·1	57	1	72·9	93·1	58·7	64·8	10·5	+ 0·2	8·2	45	+ 5	15
Agra ...	553	992·2	- 0·4	989·3	93·1	+ 4·3	108	30	62·2	+ 3·9	55	1	67·2	90·4	57·8	65·0	12·1	+ 2·6	9·6	53	+ 7	22
Mainpuri ...	516	993·0	- 0·5	990·3	93·2	+ 3·2	102	24	59·6	+ 1·2	53	8,24	66·4	89·3	58·6	67·0	13·3	+ 1·8	12·5	61	+10	28
Aligarh ...	615	990·9		987·3	91·3	+ 5·2	100	24	60·7	+ 2·3	54	1	66·7	88·5	57·5	63·0	12·0	+ 2·0	8·2	55	+ 5	18
Bareilly ...	568	991·1	- 0·2	988·2	89·2	+ 2·2	97	28, 29	61·3	+ 2·7	54	7	68·2	85·5	59·5	65·5	13·4	+ 0·2	12·4	58	+ 5	31
Roorkee ...	899	979·5	- 0·6	978·8	84·6	+ 0·8	92	28	57·6	+ 2·6	48	7	63·7	84·5	58·0	68·4	13·9	+ 2·3	16·5	70	+ 6	41
Dehra Dun ...	2,239	935·0	+ 0·4	933·9	81·3	+ 2·0	91	29	55·6	+ 1·5	48	6	61·3	78·7	54·9	61·2	12·1	+ 1·8	11·4	67	+ 6	34
Punjab, East and North																						
New Delhi ...	714	985·9	- 0·9	983·6	88·8	+ 3·8	98	28	59·3	+ 2·2	51	12	64·9	87·0	56·7	62·8	11·0	+ 0·3	9·7	53	- 2	21
Hissar ...	725	995·5	- 1·1	993·6	90·4	+ 2·6	97	28	57·4	+ 0·6	50	8	68·7	87·3	57·3	71·3	13·8	+ 3·4	18·7	71	+17	45
Ambala ...	892	979·2	- 1·0	977·3	85·0	+ 0·7	94	29	58·0	+ 1·5	51	8,21	62·4	84·6	56·4	64·2	11·8	+ 0·6	12·3	66	+ 7	31
Ludhiana ...	812	983·1	- 0·1	981·2	86·8	+ 3·6	97	29	56·6	+ 0·3	51	4 days	60·8	84·9	56·8	65·5	14·1	+ 2·8	12·7	75	+11	33
Lahore ...	702	986·5	- 0·7	985·2	87·6	+ 5·0	98	29	57·1	+ 3·9	50	8	61·2	85·7	56·0	63·1	12·9	+ 1·6	9·8	52	-10	44
Sialkot ...	830	982·2	- 0·6	980·0	86·3	+ 6·2	94	27,29	59·1	+ 4·9	52	7	63·4	83·8	56·8	66·3	12·6	+ 0·3	14·3	66	- 5	37
Rawalpindi ...	1,674	954·0	- 0·5	952·1	81·4	+ 6·3	92	28	53·4	+ 3·0	47	5,7,8	57·1	78·6	51·4	58·9	10·5	0	9·3	67	+ 4	29
Punjab South West																						
Khushab ...	612	989·8	+ 0·2	987·7	87·4	+ 6·1	95	27,28	56·5	+ 0·7	43	1	61·7	85·6	58·7	64·1	10·4	+ 0·7	11·0	52	- 7	25
Lyallpur ...	605	989·4	- 1·1	988·0	85·7	+ 4·1	93	27	56·7	+ 3·1	50	6,7	60·2	83·9	54·7	63·6	12·0	+ 0·5	11·1	67	+ 1	29
Montgomery ...	558	991·3	- 0·9	989·3	87·1	+ 3·3	95	27	57·6	+ 1·0	50	1	61·1	84·9	55·3	63·9	12·3	- 0·1	10·9	67	- 4	27
Leiah ...	490	994·7		991·5	87·2		97	28	57·4		49	6	61·4	84·5	55·6	62·4	12·3		9·3	68		26
Multan ...	413	997·5	0	994·8	88·7	+ 4·8	98	28	61·6	+ 4·4	52	6	67·9	87·4	60·5	69·3	14·7	+ 1·7	16·3	64	- 1	33
Fort Abbas ...	475	994·3		991·6	91·3		99	23,28	58·1		49	6	62·4	89·3	55·6	64·7	12·0		9·8	55		22
Bahawalpur ...	384	997·7	- 0·9	994·9	89·2	+ 3·6	96	22,28	58·6	+ 3·4	51	7	61·7	86·6	56·5	65·4	13·6	+ 1·5	11·8	65	+ 1	25
Khanpur ...	297	1000·7	- 1·7	997·7	91·8	+ 4·9	99	27	57·4	+ 3·2	49	5	62·9	91·1	56·4	71·4	12·6	+ 2·1	17·4	66	+ 9	35
Kashmir																						
Shrinagar ...	5,205	843·8	+ 0·8	841·2	60·3	+ 3·4	70	28	39·5	+ 2·5	34	7	42·3	57·3	40·6	48·7	7·8	+ 0·3	8·5	87	- 1	56
Gulmarg ...	8,709	Closed during winter.																				
Dras ...	10,059	706·2	+ 3·0	704·4	27·7	- 2·0	38	28					8·5	27·2	8·3	26·6	1·9	- 0·5	4·6	94	+ 3	97
Leh ...	11,529	664·5	- 0·6	664·6	48·3	+ 4·1	58	23	22·3	+ 1·3	15	8	24·7	49·1	21·4	36·1	2·8	+ 0·1	3·8	62	+ 5	24
Skardu ...	7,505	774·5		770·3	57·1	+ 6·8	68	28	36·3	+ 3·9	30	8,9	39·1	55·4	33·8	41·4	4·7	- 0·8	3·8	59	-17	27
Gilgit ...	4,890	853·7		850·4	68·6	+ 6·2	79	28	46·5	+ 1·4	41	1	50·3	67·8	41·6	50·6	5·4	- 0·4	5·6	48	- 4	27
Misgar ...	10,19	700·5		697·6	50·3		56	27	23·4		15	7	27·8	47·1	25·3	34·5	3·8		2·8	77		27
N. W. F. Province																						
Peshawar ...	1,175	971·9	- 0·7	969·7	79·0	+ 3·2	87	27	54·3	+ 1·9	50	4 days	58·0	76·6	53·5	61·3	12·0	+ 1·3	11·7	73	+ 1	39
Bannu ...	1,264	967·3		965·3	79·5	+ 1·5	88	27	57·3	+ 4·4	49	4	60·3	76·8	55·5	60·9	12·9	+ 2·2	11·1	67	+ 8	41
Miranshah ...	3,026	909·4		907·3	74·2	+ 6·9	82	27	51·7	+ 4·0	41	5	55·3	70·8	49·2	57·3	9·4	- 2·1	10·6	62	+ 1	42
D. I. Khan ...	570	991·1	- 1·3	989·0	85·6	+ 3·8	94	28	57·3	+ 2·3	51	4,6	61·6	84·2	55·2	62·6	12·0	+ 0·1	9·5	66	- 1	6

R—Register not received. *a*—mean of 30 days. *b*—mean of 28 days.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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	+ 0·1	2·3	0·10	− 0·40	0·10	26	1	− 0·1	3·5	+ 0·7	1	9	12	0	1	4	3	0	1	2	3	2	2	1	3	13	0	5	Purnea
2·8	+ 1·2	3·0	0·09	− 0·42	0·05	13	0	− 1·1	2·2	− 0·5	2	7	13	1	0	0	5	1	2	0	1	2	0	0	5	11	6	6	Darbhanga
																													Motihari (*R*)
2·3	+ 0·5	3·2	0·10	− 0·32	0·06	20	0	− 1·1	4·2	+ 0·7	0	3	6	4	2	7	3	1	5	1	2	0	1	0	1	11	11	4	Patna
1·7		2·2	0·98	+ 0·54	0·72	24	2	+ 1·0	4·0		0	1	0	4	2	14	4	2	4	5	1	0	2	0	2	0	19	2	Dehri
2·3	+ 0·6	2·8	0·39	− 0·10	0·17	19	2	+ 0·8	5·7	+ 1·0	0	1	1	4	12	8	1	0	4	3	0	1	1	0	1	14	10	1	Gaya
1·0	− 0·5	2·1	1·32	+ 0·41	0·47	13	4	+ 2·4	3·3	+ 1·4	1	1	1	2	1	3	3	0	19	0	1	0	2	0	13	6	1	8	Naya Dumka
2·5	+ 0·3	2·8	0·09	− 0·33	0·09	20	0	− 0·9	3·5	− 1·7	4	3	5	2	3	5	7	1	1	9	1	3	0	0	0	11	3	1	Sabour
																													U. P., East
2·3	+ 0·5	2·0	0·49	+ 0·31	0·48	20	1	+ 0·2	3·3	− 0·3	3	0	12	0	0	1	11	0	4	0	2	2	1	0	0	25	0	1	Gonda
2·6	+ 1·2	2·4	0·71	+ 0·32	0·50	13	2	+ 1·2	3·5	+ 1·2	2	3	7	1	2	3	4	0	4	3	1	1	2	0	3	10	5	1	Gorakhpur
2·4	+ 0·6	2·7	0·69	+ 0·32	0·64	13	1	+ 0·1	5·1	+ 1·6	0	2	2	4	6	9	4	0	4	2	3	3	0	0	0	14	3	1	Banaras
2·4	+ 0·4	3·1	0·52	− 0·04	0·23	13	2	+ 0·7	3·5	− 0·3	1	2	2	1	5	7	3	0	10	6	1	4	0	1	1	10	3	0	Allahabad (Bamrauli)
2·3	+ 0·7	3·4	0·42	+ 0·14	0·30	25	2	+ 1·1	2·6	− 0·3	0	2	0	5	3	0	2	3	16	1	2	1	1	1	6	3	3	9	Fatehpur
2·0	+ 1·0	2·0	0·60	+ 0·31	0·37	12	2	+ 1·2	6·0	0	3	4	1	2	4	4	5	1	7	2	2	1	1	2	0	6	10	0	Cawnpore
1·7	− 0·1	1·5	0·38	+ 0·04	0·18	12	1	+ 0·1	2·0	− 0·3	0	1	3	0	4	0	3	2	18	3	0	1	1	0	0	15	5	6	Lucknow
1·8	+ 0·3	2·3	1·98	+ 1·54	1·58	20	3	+ 2·2	3·3	+ 1·0	2	1	4	2	0	4	2	2	14	1	0	0	1	0	4	9	5	11	Babraich
																													U. P., West
1·8	+0·4	2·4	0·26	− 0·07	0·13	12	2	+ 1·2	4·1	+ 0·9	0	0	0	0	3	6	3	1	18	0	0	0	1	1	3	15	6	5	Jhansi
1·8	−0·3	2·8	0·29	− 0·03	0·13	30	1	+ 0·2	2·1	− 1·6	4	1	2	0	3	1	1	2	17	2	0	2	1	4	3	5	7	7	Agra
2·7	+0·7	2·7	0·73	+ 0·39	0·57	30	2	+ 1·2	3·2	+ 0·8	1	2	3	4	3	5	6	4	3	1	1	2	3	1	4	8	11	0	Mainpuri
2·5	+0·7	2·4	0·32	− 0·25	0·32	13	1	− 0·3	4·0	− 0·3	2	1	2	2	1	3	6	1	13	7	1	4	0	2	1	6	6	4	Aligarh
3·3	+1·0	3·3	0·36	+ 0·35	0·34	12	3	+ 1·7	3·4	+ 0·9	3	1	3	2	0	3	6	4	9	3	3	0	0	0	2	7	6	5	Bareilly
3·0	+0·6	3·0	1·43	+ 0·65	1·03	13	3	+ 1·4	2·7	+ 0·2	0	0	0	5	0	3	1	3	14	0	1	1	6	0	4	2	15	2	Roorkee
3·2	+0·3	3·2	1·20	− 0·06	0·37	30	4	+ 1·3	2·1	0	0	2	0	1	0	1	5	2	20	4	1	0	3	2	4	3	5	4	Dehra Dun
																													Punjab, East and North
2·7	+0·4	2·5	0·47	− 0·04	0·36	13	2	+ 0·7	4·1		2	2	3	1	3	3	6	3	3	5	2	3	3	2	0	2	12	2	New Delhi
1·6	−0·5	1·6	0	− 0·64	0		0	− 1·5	4·4	+ 0·1	2	3	1	3	6	6	4	1	3	6	1	3	1	2	2	3	10	2	Hissar
2·0	−0·9	2·7	1·49	+ 0·55	0·61	30	5	+ 3·2			0	0	0	11	0	2	0	14	4	0	1	0	7	0	5	0	17	1	Ambala
2·0	−0·7	2·3	0·70	− 0·24	0·30	12, 13	2	+ 0·2	1·3	− 0·2	1	2	2	6	0	5	3	1	11	2	7	1	1	0	4	2	10	3	Ludhiana
3·1	−0·3	2·2	0·05	− 0·74	0·05	19	0	− 1·9	3·0	+ 0·3	4	6	0	2	0	0	3	0	16	3	2	2	3	3	0	6	9	3	Lahore
3·3	+0·5	2·3	0·11	− 1·40	0·10	31	1	− 2·2	2·2	+ 0·5	3	6	1	2	0	2	0	7	10	1	10	0	1	1	1	0	11	6	Sialkot
3·9	+0·1	4·2	0·50	− 2·17	0·30	16	2	− 2·7	3·6	+ 1·0	6	7	1	0	1	0	3	3	10	0	1	2	2	4	2	13	7	0	Rawalpindi
																													Punjab South West
1·6	−1·9	2·3	0·15	− 0·89	0·06	18	0	− 2·5	4·5	+ 0·3	6	10	2	0	0	3	4	2	4	3	6	5	4	2	3	3	2	3	Khushab
2·4	+1·5	2·7	0·08	− 0·48	0·04	19	0	− 1·6	1·9	− 0·3	2	2	2	2	2	3	3	2	13	1	6	0	0	2	9	6	3	4	Lyallpur
2·1	−0·5	3·2	0·21	− 0·21	0·11	15	1	− 0·3	2·2	− 1·3	0	5	0	5	1	1	1	0	18	3	4	0	7	3	3	2	3	1	Montgomery
1·5		2·9	0		0		0		5·1		7	2	5	1	1	0	1	13	1	4	2	2	3	0	5	4	10	1	Leiah
2·8	+0·1	2·5	0·02	− 0·38	0·02	11	0	− 1·0	3·4	+ 1·7	18	0	2	0	5	0	1	2	3	10	1	1	0	9	2	1	0	7	Multan
2·3		2·5	0		0		0		5·8		4	3	5	5	6	1	0	1	1	7	2	1	0	2	4	9	6	0	Fort Abbas
1·1	−1·3	1·5	0	− 0·40	0		0	− 0·9	2·3	− 0·2	6	4	4	4	2	0	0	1	9	1	7	0	1	1	3	3	6	9	Bahawalpur
2·1	−0·5	2·1	0	− 0·38	0		0	− 0·9	4·4	− 0·2	2	19	0	2	0	6	0	0	2	1	14	0	1	1	9	0	3	2	Khanpur
																													Kashmir
5·5	−0·6	5·7	2·69	− 0·92	0·87	4	5	− 2·4	2·9	− 0·3	2	0	2	6	2	0	2	4	13	3	0	1	4	0	1	5	10	7	Srinagar
																													Gulmarg
4·2	−1·1	4·2	2·57	− 1·87	0·74	30	7	− 2·8	0	− 1·0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31	Dras
5·0	+1·1	6·1	0·14	− 0·16	0·08	23	0	− 0·9	3·6	+ 2·2	1	11	5	0	2	1	1	1	9	0	3	1	0	3	13	9	2	0	Leh
4·5	−1·7	3·0	0·62	− 0·40	0·27	30	3	0	4·0	+ 0·7	0	0	2	0	0	0	3	0	26	0	1	1	1	3	3	11	1	5	Skardu
4·9	−1·6	5·6	0·65	− 0·15	0·31	30	2	+ 0·2	1·1	− 0·4	0	0	0	0	1	0	0	0	30	2	0	1	0	0	1	1	0	26	Gilgit
3·6		4·4	0·24		0·19	29	1		4·7		0	4	5	2	0	0	7	13	0	0	1	14	12	0	1	3	0	0	Misgar
																													N. W. F. Province
4·2	−1·1	4·7	1·78	− 0·82	0·78	4	5	+ 0·4	3·9	+ 1·8	1	0	1	3	6	9	2	1	8	6	3	0	5	2	0	2	6	2	Peshawar
3·0	0	3·5	2·79	+ 1·21	0·83	4	7	+ 3·3	4·2		1	1	1	1	0	1	5	20	1	1	3	7	13	2	0	1	3	1	Bannu
3·1	0	3·9	1·90	− 0·64	0·50	18	6	+ 0·6	6·4	+ 1·0	3	1	1	0	0	0	2	2	22	1	2	19	0	0	0	2	1	6	Miranshah
2·4	−0·8	3·3	1·00	+ 0·04	0·45	3	4	+ 1·7	2·1	+ 0·4	6	5	0	3	0	0	2	4	11	1	3	3	3	3	0	2	1	5	Dera Ismail Khan

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 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 8 hrs., I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
Baluchistan																						
Fort Sandeman ...	4,614	860·4	+ 1·0	858·1	72·4	+ 2·5	80	26,27,28	48·3	+ 3·5	39	2	51·8	70·1	46·2	53·5	8·5	+ 2·1	7·4	64	− 5	32
Loralai ...	4,699	855·4		853·9	71·8		77	8,26,28	44·4		39	7	47·7	69·6	42·1	51·1	7·0		5·4	59		23
Sibi ...	441	995·8	+ 0·7	992·7	90·7	+ 4·7	99	28	60·7	+ 1·3	50	3,4	65·8	68·5	54·6	62·8	9·8	+ 1·8	8·2	45	+ 2	18
Quetta ...	490	882·8	− 1·1	880·9	68·8		72	27	38·3		34	5 days	41·7	61·8	37·9	50·8	6·2	− 0·2	8·9	70	+ 1	49
Chaman ...	4,811	869·0	− 0·2	868·7	67·5	+ 1·0	80	27	47·8	+ 1·8	41	4,5,29	51·7	66·4	45·3	53·6	7·7	+ 1·1	8·7	62	+ 6	43
Kalat ...	6,616	800·8	+ 0·8	799·2	62·3	+ 1·6	71	25	34·4	− 1·6	29	4,5,30	39·8	60·1	34·1	43·8	4·8	− 1·0	3·8	57	− 4	26
Dalbandin ..	2,785	918·3	+ 0·3	916·7	78·0	+ 0·2	89	21	49·9	+ 2·2	40	18	54·0	77·2	48·2	59·2	9·0	+ 1·2	9·9	63	+ 8	33
Nokkundi ...	2,229	936·2		934·3	82·0	+ 3·9	91	17	53·7	+ 1·9	45	4,5	57·5	81·0	48·5	59·6	8·0	− 0·2	8·7	51	+ 4	25
Las Bela ...	292	1002·1	− 0·1	998·0	95·5	+ 6·6	101	25	58·8	+ 1·8	50	5	62·6	94·4	59·4	81·9	16·1	+ 0·4	31·5	88	+11	59
Ormara ...	15				82·4	+ 0·5	92	25	66·2	+ 0·8	59	6	69·4	82·2	66·9	72·7	21·4	+ 2·1	23·2	86	+ 1	63
Pasni ...	10	1012·0	− 0·8	1009·6	85·5	+ 0·9	92	24	62·0	+ 0·1	57	5 days	64·7	81·9	61·7	70·6	17·4	+ 0·1	20·2	84	+ 3	56
Panjgur ...	3,177	905·6	+ 0·8	903·5	78·9	+ 0·8	85	4 days	50·2	0	41	8	53·1	77·7	45·9	59·4	7·8	− 0·7	9·7	54	−12	38
Jiwani (R) ...	18																					
Sind																						
Jacobabad ...	186	1004·8	− 0·8	1001·5	92·7	+ 3·1	99	28	61·2	+ 0·6	52	8	65·1	91·4	54·7	66·2	9·9	− 2·5	10·8	47	−11	21
Sukkur ...	221	1002·9	− 1·0	1000·2					62·3	+ 2·7	58	5	67·4	90·1	58·0	65·6	12·1	+ 0·3	10·5	55	− 2	22
Pad Idan ...	158	1005·4		1002·6	92·8		100	28	58·4		50	4,5	63·6	91·5	55·7	65·2	11·5		9·1	59		18
Umarkot ...	55	1008·8		1005·4	95·7		103	26	64·5		51	6	66·4	94·4	62·8	71·7	18·0		16·6	88		29
Hyderabad ...	96	1007·1	− 1·8	1004·6	95·7	+ 3·2	102	26	64·8	+ 0·5	57	4,5,6	66·6	93·8	61·5	67·0	16·5	+ 3·7	10·3	74	+16	20
Karachi (Manora)...	18	1010·8	− 1·1	1009·1	81·2	− 0·6	91	29	70·8	+ 2·2	63	4	71·8	78·8	68·4	72·6	22·0	+ 2·8	24·8	88	+ 4	73
Badin ...	31	1010·2	− 0·5	1007·1	96·0	+ 4·8	102	25,26	68·8	+ 2·1	52	5	66·2	93·9	64·3	73·0	19·6	+ 2·9	18·1	90	+21	35
Rajputana, West																						
Sri Ganganagar ...	580	990·9		988·8	89·2	+6·8	97	23,28,29	55·5	+ 3·3	49	7	61·7	86·6	54·7	63·9	11·4	+ 0·7	10·1	62	+ 1	24
Bikaner ...	734	985·1	− 0·9	984·5	91·7		100	23	59·2		50	6	64·7	90·9	52·3	63·2	7·8		7·3	37		15
Phaledi ...	800	983·5		982·1	91·8		99	23,28	63·1		55	5,6	65·2	90·9	60·3	79·9	15·6		29·9	74		60
Jodhpur ...	736	986·2	+ 1·1	983·4	92·7	+ 2·2	100	23,27	62·3	+ 0·8	52	4	66·6	91·7	53·1	62·7	7·7	−0·5	6·4	34	− 5	13
Barmer ...	688	983·9	− 0·5	986·1	94·9	+ 4·7	102	23	64·9	+ 0·7	53	6	69·3	93·0	58·8	67·1	12·3	− 1·2	11·0	51	− 7	21
Rajputana, East																						
Sikar ...	1,406	962·7		959·9	91·2		99	23,28	58·8		48	6	65·1	88·8	53·1	61·9	8·5		6·8	42		15
Jaipur ...	1,481	962·8	− 1·0	959·7	90·5	+ 2·2	99	28	61·7	+ 2·9	51	6	70·2	88·5	56·4	61·6	9·4	+ 1·2	6·6	39	+ 1	15
Ajmer ...	1,593	957·6	− 0·8	954·1	89·6	+ 1·9	99	28	61·7	+ 1·5	49	6	72·8	88·1	58·5	63·5	10·4	+ 0·7	9·0	41	+ 2	23
Kotah ...	843	982·3	− 0·8	978·9	95·0	+ 2·8	105	28	66·4	+ 1·2	61	6,7,14	71·4	93·3	58·3	65·7	10·7	+ 1·6	9·2	42	+ 5	17
Brijnagar ...	1,053	974·3	+ 1·0	971·5	93·6	+ 2·4	102	28	62·0	+ 1·3	53	7	67·6	92·8	56·2	59·9	10·6	+ 1·6	14·5	47	+ 8	31
Rajsamand ...	1,850	948·9		945·1	88·9		97	28	65·3		53	4	68·4	86·2	57·7	63·3	11·9		10·5	51		26
Gujarat																						
Deesa ...	466	995·2	− 0·7	992·5	94·7	+ 1·5	104	28,29	65·7	+ 3·1	59	6,8	77·6	91·2	67·0	74·9	17·9	+ 7·6	22·2	55	+13	44
Bhuj ...	343	999·5	− 0·9	997·3	93·0	+ 0·2	99	25,26	64·4	+ 0·1	57	6,7	66·8	91·5	63·4	66·2	18·3	+ 2·7	10·6	82	+23	21
Dwarka ...	37	1011·1	− 0·5	1009·3	80·4	− 1·9	88	29,30	71·6	+ 1·0	65	2,3	73·0	78·8	68·9	72·0	22·4	+ 1·3	23·8	80	+ 1	71
Jamnagar ...	60	1011·4	+ 0·9		88·6	− 1·9	93	5 days	64·0	+ 0·8	56	9	73·1		69·2		21·7	+ 2·6		77	+ 4	
Rajkot ...	482	997·0	− 0·2	995·4	94·2	− 0·9	101	23,26	63·9	+ 1·3	55	6,7	66·8	93·3	63·6	64·9	15·6	+ 3·6	8·1	83	+20	15
Veraval ...	26	1011·1	− 0·6	1003·7	85·3		97	1	63·4		55	6	66·7	79·6	64·2	74·5	19·4		27·0	86	+20	78
Surat ...	39	1011·2	+ 0·4	1007·9	95·2	− 0·9	105	28	68·6	+ 1·6	62	6,9	71·4	91·8	65·8	73·5	19·1	+ 1·4	20·3	72	+ 9	40
Bhavnagar ...	55	1010·6	0	1006·7	95·1	− 0·6	102	4 days	65·9	+ 0·3	57	5	68·9	93·8	59·7	66·8	13·2	− 0·3	10·3	56	+ 6	19
Ahmedabad ...	163	1006·5	− 0·2	1003·0	95·8	− 1·2	104	28	68·3	+ 0·8	63	4 days	69·9	94·8	60·9	67·5	13·7	+ 1·8	10·8	58	+12	19
Dohad ...	1,093	974·4		971·8	95·5	+ 1·2	103	27	67·7	+ 3·5	58	7,8	71·0	93·2	58·0	64·8	10·6	− 0·5	8·1	41	− 6	16
Baroda ...	115	1006·8		1004·4	97·5	+ 1·4	105	28	63·1	+ 3·2	54	5,6	68·4	96·1	60·4	68·5	14·3	+ 2·6	11·4	61	+11	20
Central Ind., West																						
Neemuch ...	1,626	956·7	0	953·7	92·2	+ 1·6	101	28	62·2	+ 1·1	53	7	61·6	90·5	54·9	62·6	9·6	− 0·1	8·1	42	+ 2	17
Indore ...	1,823	949·5	− 0·7	946·5	91·7	− 0·4	99	28	61·1	+ 0·8	51	6	66·3	91·0	57·2	63·2	12·3	+ 2·2	8·5	57	+17	17
Bhopal ...	1,648	955·5	− 0·6	952·7	93·8	+ 2·1	102	29	64·2	+ 2·3	56	6,7	71·9	91·8	59·2	64·7	12·0	+ 3·4	9·9	46	+11	20
Guna ...	1,571	958·1	− 0·8	955·8	95·5	+ 5·2	102	29	59·8	+ 2·1	52	6,7,8	64·7	90·8	54·7	64·1	10·5	+ 1·8	9·7	51	+11	23
Gwalior ...	681	987·4		984·2	94·3		105	29	62·0		49	1,2	71·9	90·7	58·3	64·7	10·5		9·2	41		20
Madhosagar ...	757	984·9		981·7	93·6		103	28,29	66·7		59	13	71·2	90·6	59·3	65·8	11·9		10·1	46		21
Central India, East																						
Nowgong ...	769	985·5	− 0·5	981·9	93·6	+ 1·9	105	29	59·5	− 0·1	51	1,7	66·6	92·2	58·5	65·1	13·2	+ 1·8	9·0	60	+11	18
Sutna ...	1,041	975·0	− 0·8	971·4	92·9	+ 2·4	104	29	61·2	− 0·2	53	1	67·1	90·2	60·4	65·9	15·0	+ 4·3	10·8	67	+34	23
Umaria ...	1,506	959·8		956·7	91·8	+ 0·9	103	29	59·7	+ 0·4	51	7	68·4	86·8	60·5	66·9	14·8	+ 3·6	14·6	63	+18	29
Berar																						
Akola ...	925	979·5	− 0·5	975·2	98·4	− 0·4	105	25,28,29	66·7	+ 0·7	59	1	71·9	96·6	59·8	68·4	12·1	+ 3·1	11·0	47	+12	18
Amraoti ...	1,213	970·6	+ 0·5	966·7	96·1	− 0·4	104	28	70·2	+ 0·3	64	9,13	75·0	94·9	64·5	73·2	16·0	+ 5·6	18·0	55	+20	38

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
																													Baluchistan
3·2	+0·3	4·7	1·37	− 0·01	0·34	23	4	+ 0·4	3·2	− 0·2	0	1	2	4	3	5	2	1	13	3	2	1	1	4	7	6	3	4	Fort Sandeman
3·1		4·5	0·62	− 0·68	0·23	3	3	− 0·1	5·1		0	0	0	0	0	4	23	2	2	0	0	1	8	13	4	3	2	0	Loralai
2·9	+0·6	3·5	0·40	+ 0·02	0·38	11	1	+ 0·1	3·7	+ 0·1	4	3	2	0	0	0	2	7	13	1	2	2	4	8	1	4	4	5	Sibi
3·3	−0·1	4·6	2·19		0·97	3	5		3·9	+ 0·7	1	4	1	3	3	1	1	0	17	4	2	0	1	3	2	2	16	1	Quetta
3·7	−0·1	5·2	2·66	+ 1·17	0·73	3	6	+ 2·0	4·5	− 1·3	0	9	3	13	0	5	0	0	1	0	6	0	3	0	8	0	14	0	Chaman
2·5	−0·3	3·2	0·76	− 0·29	0·60	3	2	− 1·0	5·8	+ 0·3	1	1	0	2	20	2	1	1	3	6	0	0	0	4	4	5	11	1	Kalat
3·2	+0·3	3·0	0·86	+ 0·46	0·46	10	3	+ 1·6	4·5	− 0·1	2	3	0	1	0	2	1	3	14	0	4	5	5	4	3	2	6	2	Dalbandin
2·5	−0·4	1·9	0·86	+ 0·74	0·61	2	2	+ 1·4	6·7	− 0·3	2	3	2	0	0	0	2	9	1	3	1	4	7	2	1	2	11	0	Nokkundi
1·0	−1·2	0	0·02	− 1·01	0·02	2	0	− 1·4	2·9	+ 0·2	6	1	3	1	0	0	1	2	7	1	1	5	5	3	6	2	1	2	Las Bela
3·1	+0·3	1·5	0·20	− 0·03	0·20	2	1	+ 0·3	10·5	+ 1·7	0	0	1	1	0	5	9	1	14	0	0	0	2	3	12	13	1	0	Ormara
4·1	+2·4	3·3	0·06	− 0·45	0·06	2	0	− 0·7	7·2	+ 0·9	2	0	1	0	0	1	18	9	0	1	0	0	1	2	11	15	1	0	Pasni
2·5	+0·6	2·0	0·05	− 0·55	0·05	2	0	− 1·3	5·9	+ 0·5	1	13	10	2	0	2	1	2	0	5	1	0	0	2	6	9	3	0	Panjgur
																													Jiwani (*R*)
																													Sind
3·3	+1·1	2·9	0·08	− 0·19	0·03	3	0	− 0·7	5·6	+ 1·0	2	2	10	3	1	2	1	2	3	2	1	3	3	3	4	7	5	3	Jacobabad
1·3	−0·3	1·6	0	− 0·24	0		0	− 0·9	2·9	− 0·9	1	6	4	10	2	1	0	0	7	9	3	0	1	2	7	3	4	2	Sukkar
1·6		1·3	0		0		0		4·7		4	4	1	3	3	2	1	4	4	4	2	0	2	6	6	3	5	3	Pad Idan
2·9		1·3	0		0		0		5·5		1	2	0	1	15	3	0	0	4	7	1	0	0	3	9	6	4	1	Umarkot
2·6	+0·3	1·6	0	− 0·20	0		0	− 0·4	4·6	− 0·3	2	1	0	1	3	9	0	1	9	4	4	1	0	10	9	1	2	0	Hyderabad
2·7	+0·2	2·5	0	− 0·29	0		0	− 0·6	9·0	+ 0·3	4	2	1	0	0	4	12	7	1	0	0	0	0	0	18	13	0	0	Karachi (Manora)
1·1	−0·4	0·7	0	− 0·15	0		0	− 0·2	5·3		1	1	0	0	2	14	9	1	3	3	2	1	0	3	12	4	4	2	Badin
																													Rajputana, West
0·3	−2·2	0·6	0·06	− 0·45	0·06	12	0	− 1·4	3·9	− 1·5	0	2	4	4	1	3	1	0	16	3	3	2	1	0	4	1	5	12	Sri Ganganagar
0·7	−1·5	1·4	0	− 0·23	0		0	− 0·6	3·5	− 0·7	0	2	0	0	0	9	0	1	19	1	5	0	0	1	13	2	7	2	Bikaner
2·3		2·0	0	− 0·14	0		0	− 0·4	7·3		1	1	0	6	11	9	1	1	1	5	2	0	2	2	10	3	7	0	Phalodi
0·9	−1·6	1·1	0	− 0·11	0		0	− 0·2	2·6	− 4·3	0	3	0	0	0	5	1	1	16	3	0	0	1	0	10	6	3	3	Jodhpur
1·5	−0·5	1·3	0	− 0·25	0		0	− 0·6	4·9	− 0·9	0	1	1	0	1	2	6	5	15	1	4	0	1	2	9	3	3	3	Barmer
																													Rajputana, East
1·2		2·3	0		0		0		3·3		1	1	4	10	1	4	0	0	10	3	1	0	0	0	3	6	13	0	Sikar
2·2	+0·1	2·5	0	− 0·34	0		0	− 0·9	4·0	− 0·3	2	2	4	1	0	0	0	2	20	3	0	0	1	3	6	11	6	1	Jaipur
1·2	−0·6	1·6	0	− 0·23	0		0	− 0·7	4·1	+ 0·9	1	2	0	0	1	3	5	1	18	0	2	0	0	1	11	12	4	0	Ajmer
1·0	−0·9	1·7	0	− 0·17	0		0	− 0·5	2·7	+ 0·6	1	0	0	0	0	1	6	0	23	1	2	0	2	0	2	10	3	6	Kotah
1·3	−0·2	1·9	0	− 0·14	0		0	− 0·6	3·0	0	0	1	0	0	3	2	2	4	21	2	3	1	1	0	5	10	3	1	Brijnagar
1·6		2·2	0		0		0		6·1		4	0	0	1	0	2	11	9	4	3	1	0	4	1	3	3	5	1	Rajsamand
																													Gujarat
0·4	−1·2	0	0	− 0·06	0		0	− 0·2	3·3	− 2·2	0	2	10	0	7	6	6	0	0	0	1	10	0	7	9	4	0	0	Deesa
0·2	−1·3	0·3	0	− 0·11	0		0	− 0·2	5·0	− 0·6	0	0	0	1	2	3	4	1	20	1	0	1	0	1	9	11	5	3	Bhuj
2·1	−0·2	0·3	0	− 0·11	0		0	− 0·2	11·1	+ 1·7	5	1	0	0	0	0	12	12	1	1	0	0	0	0	0	15	15	0	Dwarka
3·0	+1·6		0	− 0·08	0		0	− 0·1	5·2	− 3·7	0	1	0	0	0	6	6	0	18										Jamnagar
2·3	+0·1	0·6	0	− 0·06	0		0	− 0·1	7·6	+ 1·6	2	0	0	1	0	3	5	3	7	4	1	0	1	0	0	13	12	0	Rajkot
2·0	+0·6	0·7	0	− 0·05	0		0	− 0·1	12·4		7	4	0	0	0	0	1	3	1	0	0	0	0	0	0	21	10	0	Veraval
2·3	+1·0	1·1	0	− 0·01	0		0	− 0·1	3·9	+ 0·6	3	6	1	3	2	0	0	4	12	1	0	0	0	0	11	10	9	0	Surat
0·5	−1·0	0·3	0	− 0·11	0		0	− 0·2	5·0	+ 0·9	0	0	0	2	1	10	15	2	1	2	9	4	3	4	2	2	5	0	Bhavnagar
1·1	−0·3	1·5	0	− 0·05	0		0	− 0·2	2·3	− 1·4	3	1	0	0	1	0	4	15	7	1	0	0	1	0	6	7	5	9	Ahmedabad
1·5	0	1·7	0	− 0·06	0		0	− 0·2	3·3	+ 5·0	1	1	2	2	3	5	3	2	2	3	1	1	0	1	5	17	2	1	Dohad
0·6	−0·5	1·7	0	− 0·02	0		0	0	1·6	− 1·1	1	0	0	0	2	5	1	0	22	2	0	0	0	0	3	3	3	10	Baroda
																													Central India., West
2·5	+0·9	3·2	0	− 0·12	0	0	0	− 0·3	4·3	− 0·3	3	6	2	3	2	3	2	3	7	0	11	0	2	0	13	1	4	0	Neemuch
1·9	+0·5	2·5	0·01	− 0·07	0·01	29	0	− 0·3	2·4	− 0·5	0	1	0	1	1	6	2	1	19	4	2	0	1	1	10	7	6	0	Indore
1·7	+0·3	2·3	0·97	− 0·27	0·04	30	0	− 0·3	2·9	− 0·2	0	0	0	1	0	4	6	0	20	0	0	0	1	0	6	13	2	3	Bhopal
1·6	+0·4	1·7	0	− 0·50	0	0	0	− 0·9	3·2	+ 0·2	0	0	0	4	0	1	3	1	22	2	1	0	1	1	2	7	2	15	Guna
1·4		2·5	0·38		0·21	13	2		2·1		0	0	0	0	5	2	1	3	20	2	1	1	2	0	2	2	12	3	Gwalior
1·3		3·2	0·36		0·18	30	2		4·3		0	5	0	0	7	7	3	3	6	3	1	1	1	2	3	7	10	3	Madhosagar
																													Central India, East
1·7	−0·5	2·0	0·31	+ 0·01	0·22	13	1	+ 0·2	2·9	+ 1·0	0	1	2	1	2	2	0	1	3	1	0	0	0	0	9	16	4	1	Nowgong
2·3	+0·4	3·5	0·78	+ 0·33	0·31	30	4	+ 2·2	3·2	+ 0·1	0	0	1	2	3	5	3	0	16	0	1	0	1	1	3	12	10	3	Sutna
1·6	−0·6	1·3	0·74	+ 0·04	0·44	30	3	+ 1·3	3·0	+ 0·1	4	0	2	3	7	0	6	0	9	4	1	0	0	4	3	16	3	1	Umaria
																													Berar
2·3	+0·7	2·3	0·60	+ 0·24	0·60	4	1	+ 0·3	3·9	+ 0·3	0	2	0	0	3	2	4	2	18	1	5	0	2	2	4	5	8	4	Akola
2·6	+1·1	3·6	1·37	+ 1·03	0·55	4	3	+ 2·2	5·7	+ 1·5	0	3	7	5	1	7	2	0	1	0	1	0	2	1	17	1	9	0	Amraoti

R—Register not received.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 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.			Relativ humidi %	
		Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 5 hrs. I. S. T.	Departure from normal.
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
C. P., West																					
Khandwa ...	1,044	975·5	− 0·5	971·2	96·7	− 0·7	106	28,29	65·8	+ 1·3	54	6	72·9	96·0	57·9	66·5	9·7	+0·6	8·9	35	− 1
Hoshangabad ...	992	977·5	− 0·7	978·7	94·4	+ 0·9	102	28,29	65·6	+ 0·8	56	7	69·3	93·7	60·1	67·2	13·6	+3·9	10·8	55	+18
Saugor ...	1,808	949·4	− 0·8	946·5	91·0	+ 0·4	101	29	66·4	+ 1·6	58	12	71·7	87·9	57·5	62·6	10·4	+2·1	9·1	41	+ 8
Jubbulpore ..	1,289	967·4	− 0·1	963·9	92·6	+ 1·9	102	28,29	61·0	+ 2·2	52	7	69·7	90·6	60·7	67·1	14·1	+2·8	12·1	58	+12
Seoni ...	2,027	948·4	+ 0·3	940·4	90·6	− 1·3	99	28	64·2	+ 1·5	58	15	72·3	87·3	61·6	66·5	14·4	+3·8	13·7	54	+14
Nagpur ...	1,022	976·7	+ 0·1	972·8	95·3	− 1·4	103	28,29	69·2	− 0·1	68	1,7	74·8	93·1	63·9	68·7	15·4	+3·9	12·9	53	+14
C. P., East																					
Gondia ...	1,026	977·3		973·9	92·7		100	29	65·8		60	1,7	72·9	91·7	65·3	68·0	17·9		12·7	65	
Pendra ...	2,040	942·2	− 0·7	939·2	89·2	+ 1·9	98	29	64·0	+ 1·6	57	8	72·5	85·9	61·1	66·2	13·7	+1·4	14·0	50	+ 6
Champa ...	805	984·4		980·5	95·5		104	29	68·2		59	7	71·7	94·4	63·3	67·3	16·1		10·6	61	
Raipur ...	970	978·8	+ 0·4	974·9	95·8	+ 0·6	102	29,31	70·5	+ 2·5	65	1, 7, 15	77·3	90·5	65·6	65·9	16·3	+3·6	10·6	51	+ 8
Titilagarh ...	691	987·6		983·3	97·7		104	30	71·4		61	1	75·8	96·4	65·7	69·0	17·1		11·8	56	
Kanker ...	1,818	967·0	+ 0·4	967·1	95·0	+ 1·5	101	29	66·7	+ 1·2	57	1	74·9	92·9	64·9	71·2	16·5	+1·0	16·2	55	− 1
Chanda ...	634	989·9	0	985·5	97·5	− 1·3	103	29	63·5	+ 2·5	61	1, 2	76·8	96·3	66·5	70·6	17·5	+3·1	13·9	58	+13
Jagdalpur ...	1,815	950·4	− 0·1	946·1	95·6	+ 0·6	99	5 days	66·3	+ 2·7	57	1, 2	74·7	93·0	65·3	66·8	17·5	−0·2	11·8	59	− 1
Konkan																					
Dahanu ...	15	1011·4		1008·8	85·7		96	27	68·4		61	5, 9	72·9	82·8	67·3	74·4	20·5		25·1	74	
Bombay ...	85	1010·6	− 0·5	1007·6	86·8	+ 0·6	92	27	73·5	+ 1·6	66	9	76·2	82·9	71·2	73·2	28·8	+ 0·8	23·5	77	+ 1
Alibag ...	23	1011·7	+ 0·6		85·3	− 0·1	95	27	70·6	+ 1·2	62	9	74·8		69·7		22·6	+ 2·4		77	+ 9
Harnai ...	66	1008·1		1006·5	82·3		90	30	75·4		71	12, 13	77·7	80·7	71·1	75·7	23·2		28·1	72	
Devgad ...	117	1007·5		1004·6	86·2		91	28, 30	75·3		70	13	77·7	83·5	73·0	76·1	26·0		26·9	79	
Marmagao ...	202	1005·1	+ 0·4	1001·6	85·8	+ 0·4	89	28, 29, 30	75·6	+ 1·2	72	14, 15	79·6	83·7	73·7	76·0	25·8	+ 1·6	27·5	75	− 2
Honavar ...	85	1009·4		1006·1	89·1		92	4	74·3		69	13, 14, 15	77·7	86·0	73·9	77·5	27·9		28·3	83	
Bombay Deccan																					
Jalgaon ...	660	988·7		985·1	100·0	0	108	29	65·1		52	6	70·5	93·9	59·3	73·3	12·2		16·5	49	
Malegaon ...	1,482	962·7	− 0·5	958·9	97·9	+ 0·4	104	28, 29	65·2	+ 2·5	54	6	71·4	95·6	57·6	66·5	10·7	− 0·5	10·4	39	+ 4
Ahmednagar ...	2,154	938·8	− 0·4	934·9	96·2	+ 0·8	100	25, 28, 29	65·6	+ 2·5	56	13, 16	73·2	93·9	59·1	66·1	11·5	+ 0·5	10·6	41	+ 8
Poona ...	1,884	949·6	− 0·1	945·8	96·8	− 0·1	102	24, 27, 28	64·2	+ 2·5	54	18	68·4	93·5	60·3	67·1	14 2	+ 1·0	11·8	62	+ 5
Sholapur ...	1,570	958·8	+ 0·2	953·9	99·6	+ 0·5	103	24	71·8	+ 2·5	63	2	75·1	97·7	61·6	70·0	18·2	+ 2·2	13·8	45	+ 7
Miraj ...	1,817	949·9	− 0·3	945·5	97·9	+ 2·3	102	24	66·9	+ 2·4	58	13, 15	71·5	94·3	63·2	72·7	16·4	+ 1·8	18·6	64	+ 9
Bijapur ...	1,950	945·2	− 0·4	941·3	97·0	0	104	11	71·7	+ 1·5	67	13	75·4	92·6	62·8	68·7	14·4	+ 0·2	14·2	49	− 1
Belgaum ...	2,562	925·8	+ 0·1	922·5	92·2	− 1·4	96	22	64·3	+ 0·7	58	14	70·4	88·3	61·1	67·8	14·2	+ 0·7	14·9	59	+ 8
Gadag ...	2,131	939·7	0	935·9	97·3	+ 1·8	100	10, 29	70·5	+ 1·7	66	15, 16	77·1	94·8	67·4	72·4	19·1	+ 2·6	18·1	60	0
Hyderabad, North																					
Aurangabad ...	1,905	947·5	− 0·3	943·6	95·9	0	103	28	68·9	+ 2·0	61	1, 13	75·6	93·9	64·3	73·5	16·0	+ 6·7	19·7	53	+18
Parbhani ...	1,350	964·2		959·9	98·7		103	24, 28, 29	68·7		61	1, 13	75·7	96·5	65·2	72·8	16·4		16·7	55	
Bidar ...	2,178	938·0		934·5	95·0	− 0·1	98	30, 31	74·0	+ 3·1	70	1, 13	73·7	93·9	71·2	77·9	23·0	+ 0·8	26·1	70	+23
Nizamabad ...	1,250	968·2	− 0·9	964·5	97·7	− 0·6	102	25, 29, 30	72·2	+ 3·3	32	1	77·2	96·1	65·5	69·3	16·1	+ 1·2	12·3	51	+ 4
Peddapalli(*R*) ...																					
Hyderabad, South																					
Gulbarga ...	1,503	960·1	− 0·2	955·8	99·4	+ 0·3	102	11	74·3	+ 3·8	65	1, 14	80·3	97·7	65·3	70·2	15·2	+ 1·4	14·0	43	− 1
Raichur ...	1,311	966·5	− 0·1	962·3	98·7	+ 0·2	101	6 days	76·3	+ 2·5	70	1	80·0	97·3	68·4	72·5	18·6	+ 1·7	16·1	53	+ 3
Hyderabad(Begumpet)	1,778	951·5	+ 0·3	947·5	97·7	+ 1·0	101	31	72·2	+ 3·8	60	1	77·7	94·9	68·6	71·9	20·3	+ 2·6	17·3	63	+ 9
Hanamkonda ...	881	981·6	− 0·2	977·1	98·3	+ 2·3	101	4 days	74·2	+ 3·0	69	1	77·0	96·8	70·8	70·9	22·8	+ 2·3	13·7	73	+ 8
Khammameth ...	367	999·4		994·8	98·8		109	18	75·3		70	1, 2	79·1	97·4	74·0	72·6	26·5		16·2	78	
Mysore																					
Chitaldrug ...	2,405	930·7	− 0·2	926·6	94·0	− 0·9	97	29	72·6	+ 2·2	70	4 days	76·1	92·5	67·8	69·6	19·5	+ 3·3	14·3	64	+11
Hassan ...	3,149	907·1		903·6	90·6	− 1·0	93	4 days	66·3	+ 3·6	63	15	70·4	87·7	66·4	68·6	20·5	+ 2·7	16·2	80	+19
Bangalore ...	3,021	911·8	0	907·8	88·4	− 1·9	91	9, 24, 26	68·0	+ 3·5	65	1, 18	72·3	87·1	65·7	64·0	18·9	+ 1·8	11·0	70	+ 3
Mysore ...	2,518	927·5	0	923·5	91·1	− 2·6	95	21	69·7	+ 2·1	67	6, 18, 19	72·1	89·9	68·6	67·2	22·5	+ 2·9	13·6	83	+13
Malabar																					
Mangalore ...	72	1009·4	+ 0·1	1005·8	88·9	− 0·7	91	24, 27, 30	77	+ 1·6	73	15	80·1	86·2	75·9	78·2	28·8	+ 2·3	29·3	82	+ 5
Calicut ...	27	1010·4	− 0·8	1007·0	89·1	− 1·0	91	11	77·0	+ 0·9	75	5 days	79·1	88·1	75·7	79·9	28·8	+ 1·2	31·0	85	+ 6
Palghat ...	319	1000·6		996·0	97·7		102	23, 27	76·8		73	28	80·4	94·1	75·8	77·5	28·4		24·6	80	
Cochin ...	10	1011·3	− 0·2	1007·7	87·7	− 0·2	90	4 days	78·3	+ 0·8	78	31	81·7	85·9	77·2	79·3	29·9	+ 2·0	31·2	81	+ 8
Alleppey ...	12	1011·0		1007·5	90·2		94	10	77·5		74	28	81·4	87·1	78·4	79·9	31·8		31·6	87	
Trivandrum ...	211	1004·3	0	1001·1	90·0		95	13	75·7		73	27, 31	77·8	85·5	75·1	77·4	28·6	+ 1·6	28·4	88	+ 8
Nagercoil ...	195	1004·9		1001·8	92·6		96	26	76·6		74	4	79·8	85·6	74·6	77·0	26·9		27·8	77	

a—Mean of 25 days.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10 or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													C. P., West
2·4	+1·3	2·9	0	− 0·17	0		0	− 0·5	3·5	− 0·6	1	0	0	3	3	1	7	4	12	4	2	2	0	0	6	6	9	2	Khandwa
2·3	+0·8	2·6	0·10	− 0·14	0·05	4, 29	0	− 0·6	2·6	+ 0·4	2	5	6	4	2	6	0	1	5	3	1	1	1	3	8	11	3	0	Hoshangabad
2·9	+1·3	4·0	0·34	+ 0·01	0·13	25, 29	2	+ 1·1	8·2	− 1·8	1	4	3	10	4	4	3	2	0	3	2	0	0	2	10	11	3	0	Saugor
2·3	+0·8	2·8	0·95	+ 0·39	0·51	30	2	+ 0·6	3·2	+ 1·2	0	0	1	18	2	0	1	1	8	4	1	1	3	5	4	5	6	2	Jubbulpore
3·1	+1·5	4·2	1 21	+ 0·42	0·61	4	3	+ 1·0	3·3	+ 0·4	4	3	2	3	2	3	2	1	11	3	2	2	6	7	4	4	2	1	Seoni
2·5	+0·8	3·3	0·84	+ 0·24	0·46	4	2	+ 0·5	2·8	− 1·8	20	0	2	1	3	0	1	1	3	5	1	5	1	6	1	7	2	3	Nagpur
																													C. P., East
0·9		1·6	0·95		0·38	18	3		2·6		3	2	5	7	3	2	2	5	2	4	1	0	2	2	5	5	11	1	Gondia
1·7	−0·1	2·8	0·01	− 1·05	0·02	12, 30	0	− 2·3	4·5	+ 0·7	3	0	1	0	9	3	2	4	9	8	1	1	1	6	4	1	7	2	Pendra
2·2		2·3	0·52		0·25	13	2		4·0		5	3	2	3	0	2	3	7	6	5	0	1	0	0	3	12	10	0	Champa
0·9	−0·6	2·1	0·95	+ 0·24	0·78	12	2	+ 0·3	3·2	0	0	7	0	2	0	2	0	6	14	1	2	0	0	0	6	3	9	10	Raipur
1·7		2·2	0·10		0·10	13	1		2·1		2	2	0	6	7	2	0	0	12	8	3	0	0	2	3	3	6	6	Titilagarh
3·9	+1·8	4·4	0·88	+ 0·03	0·78	12	2	− 0·1	2·9	− 0·3	0	0	0	0	0	5	0	3	23	2	0	0	0	0	5	4	10	10	Kanker
2·6	+1·1	3·3	0·71	− 0·06	0·48	25	2	+ 0·8	3·3	+ 0·9	0	2	0	4	0	2	1	4	18	7	2	4	4	1	0	4	0	9	Chanda
2·4	+0·8	2·9	0·96	+ 0·43	0·92	13	1	− 0·2	3·3	+ 0·8	0	4	0	3	0	7	0	3	14	0	4	0	1	0	9	1	15	1	Jagdalpur
																													Konkan
4·1		1·5	0		0		0		7·9		4	5	12	9	0	0	0	1	0	14	0	0	0	0	0	5	12	0	Dahanu
2·7	+ 1·1	1·5	0	− 0·05	0		0	− 0·1	7·7	+ 0·5	6	13	4	2	2	1	0	0	3	27	0	0	0	0	0	0	4	0	Bombay
2·6	+ 1·0		0	− 0·02	0		0	− 0·1	4·3	− 1·7	8	10	4	1	0	0	0	0	8										Alibag
1·5		0·8	0		0		0		12·3		12	3	3	2	1	0	1	9	0	0	0	0	0	0	1	16	14	0	Harnai
3·7		2·8	0·48		0·48	30	1		11·2		3	17	7	0	0	1	1	2	0	0	0	0	0	0	0	6	25	0	Devgad
3·6	+ 0·9	1·8	0	− 0·01	0		0	− 0·1	8·0	+ 1·6	7	8	4	3	6	1	1	1	0	2	0	0	0	0	2	11	16	0	Marmagao
4·7		3·6	0·09	+ 0·04	0·05	3	0	− 0·1	3·2		0	3	23	3	0	0	0	0	2	0	0	1	0	0	1	13	16	0	Honavar
																													Bombay Deccan
3·5		3·1	0·38	+ 0·23	0·32	29	1	+ 0·5	5·1		0	6	2	3	1	11	3	1	4	0	1	1	0	1	4	18	6	0	Jalgaon
3·1	+ 1·7	3·5	0·02	− 0·06	0·02	30	0	− 0·3	4·1	− 1·0	1	0	0	0	2	7	11	2	8	4	4	1	0	1	3	9	6	3	Malegaon
1·7	+ 0·7	2·6	0·03	− 0·18	0·03	30	0	− 0·3	5·0	− 0·3	2	1	0	1	0	3	0	23	1	0	2	0	2	0	8	1	13	0	Ahmednagar
1·8	+ 0·8	2·8	0·26	+ 0·20	0·26	28	1	+ 0·8	2·4	− 2·7	1	0	0	0	6	3	9	0	18	1	1	2	0	1	0	18	2	6	Poona
2·9	+ 1·7	4·3	0·46	+ 0·23	0·29	3	1	+ 0·5	5·5	− 0·2	8	2	1	6	1	2	1	5	5	4	2	6	2	2	5	2	4	4	Sholapur
2·1	+ 0·9	3·4	0·40	+ 0·25	0·20	30	2	+ 1·3	5·6	+ 0·3	3	0	4	2	0	0	1	4	17	1	1	4	2	2	3	8	4	6	Miraj
3·3	+ 2·2	4·6	1·24	+ 1·03	0·50	3	3	+ 2·4	4·8	+ 0·8	7	0	0	2	4	3	8	7	0	2	4	5	3	2	2	6	7	0	Bijapur
2·0	+ 0·9	2·3	0·98	+ 0·57	0·60	4	2	+ 1·1	3·6	+ 0·3	7	13	6	0	3	0	1	0	1	1	2	4	2	3	18	1	0	0	Belgaum
4·3	+ 3·2	4·9	0·17	− 0·05	0·12	27	1	+ 0·3	5·1	+ 0·2	2	2	4	2	1	6	3	9	2	1	9	3	2	2	4	3	5	2	Gadag
																													Hyderabad, North
1·3	− 0·1	1·9	0·88	+ 0·63	0·80	4	1	+ 0·5	5·7	− 0·5	0	5	8	6	2	0	2	3	5	2	0	1	2	5	3	12	6	0	Aurangabad
2·4		3·9	0·48	+ 0·21	0·31	5	2	+ 1·5			1	5	3	1	4	1	5	7	4	4	3	1	2	2	3	6	10	0	Parbhani
2·3	+ 0·1	4·7	0	− 0·42	0		0	− 1·2	7·0	+ 0·8	3	1	5	2	8	4	2	5	1	3	7	6	5	3	4	2	1	0	Bidar
2·5	+ 1·0	3·2	0·27	− 0·13	0·15	11	1	+ 0·2	3·5	+ 0·8	2	1	3	6	0	1	3	2	13	4	3	2	6	0	3	6	6	1	Nizamabad
																													Peddapalli (*R*)
																													Hyderabad, South
1·2	+ 0·3	3·6	0	− 0·37	0		0	− 0·8	7·2	+ 1·5	6	8	1	7	3	2	3	1	0	7	1	4	4	5	4	3	3	0	Gulbarga
2·0	− 0·7	1·5	0	− 0·14	0		0	− 0·4	6·6	+ 1·1	1	2	3	16	3	3	1	1	1	1	2	5	17	2	2	0	2	0	Raichur
2·2	+ 0·5	4·0	0·22	− 0·24	0·22	6	1	+ 0·1	5·5	+ 1·8	1	1	4	6	1	4	0	3	11	0	3	5	13	3	2	0	1	4	Hyderabad (Begumpet)
2·9	+ 0·4	3·2	0	− 0·46	0		0	− 0·8	6·6	+ 1·4	1	1	2	12	13	2	0	0	0	2	2	2	14	8	3	0	0	0	Hanamkonda
3·5		1·8	0		0		0		6·2		1	0	1	27	2	0	0	0	0	0	0	1	19	5	3	0	1	2	Khammameth
																													Mysore
2·7	+ 1·1	4·9	0	− 0·17	0		0	− 0·4	4·7	+ 0·8	0	0	2	3	1	7	8	1	9	1	1	13	11	0	0	0	3	2	Chitaldrug
2·9	+ 1·0	5·0	0·56	+ 0·19	0·56	29	1	+ 0·4	3·8	+ 0·6	0	4	1	6	0	9	6	3	2	1	7	6	11	0	3	2	0	1	Hassan
3·7	+ 2·0	3·7	0·06	− 0·34	0·06	5	0	− 0·8	5·7	+ 1·2	0	0	5	4	3	9	6	1	3	0	9	13	7	1	0	0	0	1	Bangalore
3·9	+ 3·4	6·3	0·19	− 0·32	0·19	29	1	+ 0·2	5·5	+ 0·9	0	3	4	1	0	5	8	0	10	2	14	10	4	0	0	0	1	0	Mysore
																													Malabar
1·2	+ 1·9	2·7	0·44	+ 0·23	0·28	28	1	+ 0·7	5·4	+ 0·5	2	9	16	2	0	0	0	0	2	1	0	6	0	0	4	6	20	0	Mangalore
5·2	+ 2·6	5·4	2·94	+ 2·26	1·53	28	3	+ 2·2	7·7	+ 1·1	1	14	14	1	0	0	1	0	0	0	0	0	1	0	4	14	12	0	Calicut
5·1		5·2	1·44		0·68	28	2		4·2		0	2	4	4	0	3	5	1	12	0	1	9	4	6	0	9	2	0	Pa'ghat
5·8	+ 3·3	5·2	3·80	+ 1·79	2·16	31	5	+ 2·2	6·3	+ 0·8	0	7	16	3	0	0	0	0	5	0	0	0	0	0	4	19	3	0	Cochin
7·0		5·8	5·56		2·75	28	7		6·0		1	6	18	6	0	0	0	0	0	0	0	0	0	0	3	18	10	0	Alleppey
3·6	+ 0·8	6·3	2·41	+ 0·87	0·88	31	7	+ 4·5	3·9	+ 0·1	6	12	4	2	0	0	0	6	1	2	1	0	0	2	14	6	3	3	Trivandrum
5·5		7·2	1·25		0·78	5	2		2·9		3	6	0	0	0	1	1	6	11	0	0	0	3	7	14	2	2	0	Nagercoil

c—Mean of 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 9 hrs. I. S. T.	Departure from normal.	Mean 18 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 9 hrs. I. S. T.	Mean 18 hrs. I. S. T.	Mean 9 hrs. I. S. T.	Mean 18 hrs. I. S. T.	Mean 9 hrs. I. S. T.	Departure from normal.	Mean 18 hrs. I. S. T.	Mean 9 hrs. I. S. T.	Departure from normal.	Mean
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Madras, Southeast																						
Pamban ...	37	1010·9	+ 0·4	1007·8	87·1	− 1·5	90	27	76·2	− 0·5	73	27	82	82·5	77·1	77·4	29·5	+ 0·9	29·8	79	0	79
Madura ...	437	996·9	− 0·2	992·6	93·7	− 1·6	98	26, 27	75·1	+ 2·6	72	18, 27	79·5	91·7	74·7	75·0	27·2	+ 2·3	22·1	79	+ 7	48
Negapatam ...	31	1010·9	− 0·1	1007·8	86·0	− 2·2	88	30, 31	76·9	+ 0·6	72	6	80·3	84·1	75·5	76·4	28·0	+ 0·4	27·5	79	+ 1	69
Trichinopoly* ...	295	1002·5	+ 0·1	998·2	93·7	− 3·5	98	26	73·7	+ 0·6	70	13, 18	78·9	91·7	74·0	74·7	26·5	+ 1·0	21·6	79	+ 5	44
Coimbatore ...	1,341	966·2	− 0·3	962·2	93·5	− 1·9	97	14, 21, 27	72·5	+ 2·3	69	19	76·0	91·5	70·7	71·2	23·3	− 0·2	16·9	76	− 2	36
Salem ...	913	980·7	− 0·3	976·0	94·3	− 3·7	98	23, 26, 27	72·6	+ 1·2	69	4 days	75·5	91·7	70·9	73·4	23·8	− 0·1	19·8	79	+ 6	40
Cuddalore ...	39	1010·9	− 0·1	1007·5	86·6	− 1·8	89	26, 31	73·6	+ 0·9	69	12	76·9	84·4	74·2	76·5	27·6	− 0·3	27·6	88	+ 5	68
Vellore ...	703	987·6	− 0·1	984·3	92·6	− 1·6	95	4 days	72·1	+ 2·3	67	1, 6, 18	75·9	90·9	72·3	75·8	25·5	+ 2·2	23·6	83	+ 4	48
Madras ..	51	1010·4	− 0·1	1007·1	90·2	− 1·2	92	6 days	74·7	+ 2·3	72	5 days	80·0	85·5	75·6	76·3	28·2	+ 1·7	26·8	81	+ 1	64
Arogyavaram ...	2,299	934·7		931·2	91·1		94	11	67·6		63	9	74·3	88·7	66·9	66·8	19·1		12·6	68		30
Madras, Deccan																						
Cuddapah ...	428	997·4	+ 0·6	992·3	100·2	− 0·7	104	11	76·4	+ 1·6	70	1	86·0	96·6	74·0	74·3	23·2	+ 1·1	19·1	55	− 5	34
Bellary ...	1,473	961·2	+ 0·1	956·6	98·3	− 1·2	101	8, 9, 24	75·4	+ 3·1	70	1, 13	79·5	96·9	66·6	68·8	16·7	+ 0·7	11·3	49	0	20
Kurnool ...	923	979·8	0	974·9	100·2	+ 0·2	103	9	74·6	+ 2·6	66	1	80·8	98·9	69·0	70·4	18·9	+ 1·7	12·5	53	+ 1	20
Rentichintala ...	248	999·7		995·1	99·8	+ 0·4	104	12	76·0	+ 0·4	69	1, 2	79·5	93·2	72·5	71·9	24·1	+ 0·7	14·8	70	+ 5	24
Anantapur ...	1,148	971·9		967·1	98·3		101	29	73·9		66	1	80·6	96·8	69·4	70·9	19·5		14·0	54		24
Madras Coast, North																						
Nellore ...	66	1009·2	− 0·4	1005·9	94·0	− 0·3	98	12	74·8	+ 1·9	71	1	79·5	88·4	75·3	78·4	27·9	+ 1·2	28·6	81	0	68
Ongole ...	38	1010·5		1007·2	91·5		95	6, 12	74·8		71	1, 5	79·2	87·2	74·9	75·3	27·6		24·5	81		56
Masulipatam ...	10	1011·9	− 0·1	1008·6	90·0	− 0·5	94	6, 13, 14	74·8	+ 2·5	70	1	80·1	86·3	75·9	77·1	28·5	+ 0·2	27·2	82	0	65
Cocanada ...	26	1011·9	+ 0·2	1007·9	89·4	− 2·4	94	4 days	74 8	+ 1·3	69	1, 2	81·1	87·7	75·8	76·7	27·3	+ 0·8	26·4	76	− 1	59
Vizagapatam ...	126	1008·0	0	1004·8	86·0	− 1·1	92	7	75·5	+ 0·9	66	1, 2	79·9	83·4	74·0	76·6	26·0	+ 0·8	23·2	75	+ 1	72
Calingapatam ...	19	1011·5	− 0·1	1008·2	90·1	− 0·5	97	6	74·3	+ 1·5	64	1, 2	77·0	85·0	73·3	77·5	26·3	+ 0·1	28·8	83	+ 5	70
Hill Stations, excluding Kashmir and Baluchistan																						
Shillong ...	4,921	850·9	+ 0·4	848·5	68·4	− 2·0	78	31	51·0	+ 0·2	45	9, 22	62·2	62·3	53·0	55·0	10·2	+ 1·0	11·9	55	+ 7	63
Cherrapunji ...	4,309	870·5	+ 0·7	868·1	66·5	− 0·2	75	30, 31	55·1	+ 0·2	47	17	62·7	63·6	56·2	57·4	12·9	+ 0·8	13·7	67	+ 6	68
Aijal ...	3,599	892·3		889·6					58·0		42	1	66·0	71·5	58·6	60·7	13·9		14·9	65		54
Darjiling ...	7,432	776·2	+ 0·4	773·9	55·0	− 0·4	62	5, 6, 31	43·8	+ 0·8	37	14	47·8	49·4	45·1	46·7	9·2	+ 0·6	9·9	83	+ 11	84
Kalimpong ...	3,965	879·5	− 0·5	877·1	68·9	− 0·5	73	6, 7	52·6	− 2·0	48	14	57·6	62 7	54·7	57·5	13·5	+ 1·7	14·2	82	+ 17	71
Katmandu ...	4,398	868·3		865·2	76·7	− 0·7	86	31	47·6	+ 2·2	41	6	55·1	69·9	50·4	57·8	11·5	+ 2·2	11·7	83	+ 14	44
Muktesar ...	7,592	772·0	− 0·3	770·9	60·6	+ 1·3	71	28	43·6	+ 1·0	33	12	47·9	51·4	39·4	46·1	5·2	− 0·1	7·0	50	+ 3	47
Mussooree ...	6,699	796·5		796·4	62·2	+ 2·5	74	24	47·2	+ 2·4	39	6, 12	53·6	57·1	43·9	48·2	6·2	+ 0·2	7·7	46	− 5	52
Simla ...	7,224	781·6	+ 0·5	781·1	59·4	+ 2·4	67	27	44·7	+ 1·1	35	12	51·0	55·0	41·7	46·6	5·6	+ 1·0	7·8	47	+ 8	52
Murree ...	7,113	784·5	+ 0·9	784·2	58·0	+ 2·4	67	27, 28	42·9	+ 5·1	34	4	45·7	55·2	39·3	45·9	6·0	+ 0·6	7·2	57	+ 2	52
Wana ...	4,456	860·8		859·3	70·6	+ 4·9	78	27	43·6	+ 3·0	38	4	48·4	67·9	43·6	52 3	7·6	+ 1·0	7·9	68	− 1	38
Cherat ...	4,272	869·4	− 0·3	868·5	66·1	+ 4·9	78	28	50·5	+ 2·8	42	4, 5	54·0	64·1	46·5	52·2	7·8	+ 0·9	8·5	56	− 3	44
Parachinar ...	5,673	827·1	+ 0·9	826·1	65·1	+ 5·3	78	17	42·2	+ 3·6	34	31	44·9	60·9	40·3	48·9	6·9	+ 1·0	7·5	69	+ 7	42
Drosh ...	4,806	856·6	+ 1·6	853·0	65·2	+ 7·1	75	20, 21, 25	41·1	+ 0·7	39	4	47·5	63·6	41·2	47 4	6·3	+ 0·1	4·6	58	− 11	29
Abu ...	3,945	881·7	+ 0·4	880·2	78·3	+ 1·7	86	23, 27	61·2	+ 0·2	55	7	65·4	76·5	52·0	55 9	7·9	+ 0·4	7·0	38	0	24
Pachmarhi ...	3,528	895·3	− 0·2	893·3	84·7	+ 0·6	93	28	59·9	+ 0·5	52	6	67·0	79·8	54·1	62·2	12·0	+ 2·5	12·0	55	+ 15	72
Mahabaleshwar ...	4,534	864·2	+ 0·3	862·5	83·0	+ 0·6	90	23	63·8	+ 1·2	55	13	65·9	78·4	53·7	62·3	9·1	+ 0·7	12·7	41	+ 1	49
Mercara ...	3,781	886·8	− 0·1	884·2	80·0	− 4·2	88	27	62·8	+ 1·2	59	16, 17	66·5	77·8	6 ·6	71·4	18·9	+ 2·4	23·6	85	+ 13	77
Ootacamund ...	7,364	781·7	+ 0·6	780·2	71·3	+ 1·3	76	8	48·5	+ 0·6	43	12	53·2	65·4	49·0	56 6	10·3	+ 1·9	12·5	75	+ 22	66
Coonoor ...	5,730	828·4			72·8	− 0·1	75	20, 21	53·3	+ 1·0	48	18	61·2		55 6	55·5	13·0	+ 1·7		71	+ 13	
Kodaikanal ...	7,688	772·7	+ 0·7	771·4	65·6	+ 0·6	69	21, 26	51·3	+ 1·1	45	1	56·0	60·4	48·2	55·0	8·7	+ 0·9	12·8	59	+ 10	70
Ceylon ...																						
Colombo ...	24	1010·9	+ 0·2	1007·7	88·6	− 0·3	91	23	74·6	+ 0·4	71	14	77·6	84·6	75·0	77·1	28·5	+ 0·7	28·4	88	− 2	
Trincomalee ...	24	1010·6	+ 0·4	1007·2	84·9	− 3·1	90	16	75·9	− 0·2	68	1	78·7	84·1	75·6	77·4	28·9	+ 0·5	29·5	86	0	
Hambantota ...	61	1008·7	− 0·6	1005·8	87·3	+ 0·4	89	27, 29	74·6	+ 0·6	73	7days	77·1	84·2	74·7	78·5	28·1	+ 1·4	30·7	89	+ 1	
Mannar ...	12	1011·5		1008·0	88·1		91	10, 12, 20	75·6		72	13	78·9	84·5	75·9	77·3	29·2		28·7	87		
Afghanistan ...																						
Jalalabad ...	1,950	945·5		943·6	77·3		88	27	50·7		47	9	55·8	74·1	51·7	64·3	11·4		16·1	93		
Kabul ...	5,955	821·6		820·6	60·1	+7·3	69	27	39·1	+5·5	31	1	42·4	58·2	37·8	47·1	6·1	+1·5	6·5	71	+ 3	
Kandahar	3 462	903·6		901·6	72·5		81	27	43·7		38	4	47·2	70·9	44·7	55·6	9·0		8·7	84		

Pressure and cloud observations from aerodrome site (Ht. 695 ft.). Other observations from cantonment site. (v)—Mean of 30days. (j) —Mean of 21 days

Cloud amount (tenths of sky)			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 9 hrs. I. S. T.	Departure from normal.	Mean 18 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		51	52	53
																													Madras, Southeast
5·0	+ 1·8	3·8	4·75	+ 4·03	2·33	27	6	+ 4·6	5·9	+ 0·4	1	4	5	15	3	0	1	2	0	3	6	7	11	2	1	0	1	0	Pamban
5·5	+ 1·3	4·5	5·22	+ 4·52	3·95	27	4	+ 3·0	2·9	− 0·5	2	2	1	1	0	1	1	2	21	1	8	11	4	2	0	0	0	5	Madura
5·7	+ 1·3	4·9	2·18	+ 1·89	0·79	2	5	+ 4·0	8·0	+ 1·7	1	2	4	5	2	4	6	5	2	0	7	16	8	0	0	0	0	0	Negapatam
4·5	+ 1·6	3·9	1·82	+ 1·46	0·72	27	4	+ 3·3	3·0	+ 0·3	5	8	3	3	1	0	2	2	7	0	17	10	2	0	0	0	0	2	Trichinopoly*
4·5	+ 1·2	4·0	0·73	+ 0·23	0·30	28	2	+ 1·1	2·1[a]	− 0·4	9	11	2	0	1	1	0	0	7	0	5	15	9	0	1	0	0	1	Coimbatore
3·6	+ 1·7	3·7	2·65	+ 2·16	1·40	3	3	+ 2·1	5·5	+ 1·0	1	8	11	1	0	0	1	0	9	0	4	14	3	1	1	1	0	7	Salem
4·3	+ 1·2	4·2	0·55	− 0·14	0·49	2	1	+ 0·4	6·0	+ 1·9	2	1	1	2	1	4	12	3	5	0	2	8	20	1	0	0	0	0	Cuddalore
4·4	+ 2·2	3·2	0·58	+ 0·31	0·48	3	2	+ 1·5	4·6	+ 1·5	1	1	2	0	2	1	2	0	22	0	0	10	10	7	3	0	0	1	Vellore
4·0	+ 1·4	2·6	0·12	− 0·17	0·12	27	1	+ 0·6	11·0	+ 1·4	0	1	1	4	6	14	2	3	0	0	2	4	24	1	0	0	0	0	Madras
2·8		3·3	0·05		0·03	28	0		4·6		0	0	1	5	5	0	0	0	10	0	9	11	5	1	0	1	0	5	Arogyavaram
																													Madras, Deccan
1·5	0	2·6	0	− 0·18	0		0	− 0·3	6·1	− 1·5	0	0	2	3	4	0	0	0	22	0	0	14	12	0	0	0	0	5	Cuddapah
3·8	+ 2·3	4·0	0	− 0·21			0	− 0·6	2·9	− 0·4	0	0	2	2	1	0	2	3	21	1	0	6	8	1	0	2	2	11	Bellary
1·7	+ 0·4	2·8	0	− 0·21			0	− 0·4	5·7	+ 1·8	0	1	13	8	0	2	2	1	4	1	1	10	9	2	1	2	3	2	Kurnool
1·4	− 2·5	1·1	0	− 0·09	0		0	− 0·3	6·2	+ 0·4	0	0	2	11	3	7	0	0	8	0	0	5	23	2	1	0	0	0	Rentichintala
1·8		2·6	0	− 0·15	0		0	− 0·3	5·3		0	0	1	6	3	7	3	1	10	0	7	11	5	1	1	0	0	6	Anantapur
																													Madras Coast, North
3·1	+0·5	3·6	0	− 0·17	0		0	− 0·3	5·3	+ 1·0	1	1	1	8	16	1	0	0	3	0	0	13	17	1	0	0	0	0	Nellore
4·2		2·6	0		0		0		6·0		1	3	0	3	16	4	3	0	1	0	0	8	23	0	0	0	0	0	Ongole
3·7	+0·8	1·2	0	− 0·42	0		0	− 0·5	5·9	+ 1·6	3	0	4	11	3	0	2	0	8	0	0	0	18	13	0	0	0	0	Masulipatam
2·6	−0·3	0·8	0	− 0·48	0		0	− 0·7	6·3	+ 1·8	0	3	2	7	0	8	4	5	2	0	0	0	13	10	8	0	0	0	Cocanada
2·4	−0·5	1·9	0	− 0·47	0		0	− 0·8	4·4	+ 0·3	5	0	1	0	0	2	7	7	9	0	0	4	3	19	5	0	0	0	Vizagapatam
4·9	+2·8	4·9	0	− 0·44	0		0	− 0·6	8·1	+ 1·8	1	0	0	1	0	2	14	13	0	0	0	0	1	13	17	0	0	0	Calingapatam
																													Hill Stations excluding Kashmir and Baluchistan
3·0	+0·6	6·8	6·22	+ 4·25	2·16	20	10	+ 6·1	4·3	+ 0·1	0	2	0	0	5	15	4	3	3	1	1	1	0	2	8	3	3	12	Shillong
3·0	−0·8	3·8	4·37	− 2·90	0·72	16	10	+ 2·9	7·6	+ 1·0	3	4	3	2	3	14	1	1	0	0	4	0	0	5	19	1	2	0	Cherrapunji
2·1		3·4	0·95		0·39	14	3		6·1		0	0	5	2	1	15	7	1	0		0	1	1	0	29	3	3	0	Aijal
6·7	+2·9	7·8	3·05	+ 1·17	0·69	13	9	+ 5·4	5·2	+ 0·2	0	1	10	4	0	2	8	1	5		0	0	1	1	6	21	1	1	Darjiling
4·7	+2·4	6·4	2·36	+ 1·25	0·65	20	8	+ 5·0	6·5	− 1·2	1	1	1	5	1	2	5	6	9	0	0	1	17	6	0	0	4	3	Kalimpong
3·7	0	4·8	1·61	+ 1·02	0·67	21	5	+ 3·3	1·1	− 0·3	0	0	2	0	0	0	0	0	29	5	0	0	0	4	0	3	2	17	Katmandu
3·0	−0·3	3·6	3·66	+ 1·76	1·24	12	5	+ 0·9	8·8	+ 2·5	0	4	3	0	0	3	12	8	1	0	1	2	0	0	11	16	1	0	Muktesar
3·4	−0·4	4·8	1·82	− 0·44	0·75	30	5	+ 1·3	3·2	− 1·5	6	9	0	1	3	1	1	0	10	1	2	0	3	12	10	1	0	2	Mussooree
2·9	−1·1	4·4	3·20	+ 0·84	0·71	19	8	+ 3·3	2·0	− 2·0	6	2	1	3	7	1	0	1	10	4	3	0	1	11	7	0	4	1	Simla
4·5	0	9·1	2·72	− 2·09	0·78	18	6	− 1·3	7·7	+ 1·7	0	4	7	5	0	0	2	7	3	0	2	4	4	3	1	6	5	6	Murree
2·5	−0·7	3·7	1·24	− 0·69	0·35	22	5	+ 1·1	3·0		1	0	0	0	1	0	0	2	27	1	0	6	6	6	3	5	3	1	Wana
2·6	−1·3	2·8	2·24	− 2·05	0·86	4	5	− 0·6	11·9	+ 3·1	20	0	1	0	4	0	2	2	2	22	1	0	0	6	0	0	0	2	Cherat
4·6	+0·5	5·9	5·26	+ 0·92	1·15	29	9	+ 0·7	4·2	+ 1·4	9	4	0	1	0	0	1	4	12	0	4	3	15	4	3	0	1	1	Parachinar
4·5	−0·2	5·3	4·38	+ 0·65	1·06	29	6	− 1·4	4·9	+ 1·4	0	2	8	6	1	2	1	0	11	0	9	3	1	1	10	3	1	3	Drosh
0·8	−1·1	0·8	0	− 0·17			0	− 0·5	4·7	− 0·4	7	1	0	0	1	5	2	2	13	3	0	0	0	4	6	15	2	3	Abu
2·9	+0·3	3·6	0·75	+ 0·19	0·61	29	2	+ 0·7	2·3	− 1·2	1	0	0	1	4	5	4	5	11	0	1	1	0	1	2	13	11	2	Pachmarhi
1·3	+0·4	1·8	0·01	− 0·16	0·01	31	0	− 0·4	3·2	− 3·4	0	10	1	4	0	2	0	11	3	0	0	0	0	0	14	1	15	1	Mahabaleshwar
3·2	0	4·2	1·79	+ 1·03	1·30	29	3	+ 1·4	4·6	+ 1·5	0	2	3	0	0	2	7	5	12	0	2	3	0	0	4	12	8	2	Mercara
3·7	+1·6	6·2	1·80	+ 0·02	1·11	28	1	− 1·6	2·3	− 1·0	1	6	9	0	1	0	0	0	14	3	5	8	2	4	0	0	0	9	Ootacamund
6·5	+3·8		6·32	+ 3·08	2·44	28	8	+ 5·2	4·4	+ 0·9	5	1	1	3	0	0	0	0	21										Coonoor
3·8	+1·7	6·3	11·68	+ 9·87	4·20	29	6	+ 2·9	8·7	+ 0·5	6	15	6	3	0	0	0	0	1	5	10	2	6	1	0	0	1	6	Kodaikanal
																													Ceylon
5·6	+1·0	6·7	5·69	+ 1·41	3·84	30	6	− 0·1			0	2	15	11	1	0	0	0	2	0	1	0	0	0	4	17	8	1	Colombo
5·0	+1·3	4·8	3·75	+ 1·79	2·73	1	4	+ 1·3			2	2	6	1	1	9	7	1	2	6	6	15	2	1	1	0	0	0	Trincomalee
6·8	+3·1	6·9[a]	5·60	+ 2·14	1·32	16	7	+ 2·0			16	0	0	0	0	0	2	12	1	1	0	12	6	6	5	0	0	0	Hambantota
3·9		4·7	5·10		1·59	2	7				1	1	8	10	4	5	0	0	2	11	4	2	0	0	4	8	2	0	Mannar
																													Afghanistan
3·9		5·1	2·35		1·15	29	4		2·8		2	1	0	0	0	5	14	2	7	1	1	2	9	4	7	0	1	6	Jalalabad
4·6	+0·2	4·8	3·68	+ 0·09	1·03	29	8	+ 0·9	0·1	+ 3·1	1	2	0	0	8	11	3	5	1	2	5	0	5	5	4	1	1	8	Kabul
3·0		4·0	1·24		0·65	10	2		1·9		0	5	0	0	0	1	0	0	25	0	3	0	1	1	10	0	3	13	Kandahar

a—Mean of 30 days.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED

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 4 hrs. G. M. T.	Departure from normal.	Mean 13 hrs. G. M. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 4 hrs. G. M. T.	Mean 13 hrs. G. M. T.	Mean 4 hrs. G. M. T.	Mean 13 hrs. G. M. T.	Mean 4 hrs. G. M. T.	Departure from normal.	Mean 13 hrs. G. M. T.	Mean 4 hrs. G. M. T.	Departure from normal.
1	9	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Iran																					
Charbar ...	25	1013·2		1012·2					65·9	+ 0·2	64	2, 11, 21	71·7	74·1	68·4	68·4	22·2	+2·5	21·3	85	+10
Jask ...	13	1013·4		1011·1	79·9	− 0·6	84	25, 29	67·3	+ 0·7	61	1, 2, 3	72·1	78·5	63·9	70·0	16·8	−1·8	21·6	62	−10
Bandar Abbas ...	29	1014·6		1011·9	81·9		90	29	63·6		54	2	70·3	80·3	65·0	70·3	18·2		20·5	75	
Bushire ...	131	1011·0		1009·2	75·5		82	24, 31	58·7		53	1, 3, 4	69·2	72·9	63·3	64·5	17·0		16·9	72	
Ispahan (R) ...	5,817																				
Meshed ...	3,104	898·7		896·5	66·0	+ 9·1	82	13	38·8	+ 4·1	28	2	51·2	62·5	46·0	52·1	8·7	+2·3	9·1	69	− 8
Seistan ...		959·0		954·9	77·9	+ 4·9	89	17	50·3	+ 3·6	39	4	58·7	77·4	51·6	57·8	10·2	+0·3	8·5	60	− 6
Arabia																					
Bahrain ...	8	1013·4		1011·8	76·9	+ 2·4	86	12	64·5	+ 2·4	56	3	68·1	75·2	64·1	66·5	18·7	+ 1·5	18·5	80	+ 3
Muscat ...	15			1010·6					71·9	0	65	2	75·4	76·8	68·3	70·4	20·2	+ 1·7	22·5	70	+ 5
Sharjah ...	25	1014·0		1011·8	80·3	+ 1·6	95	19	60·9	+ 2·0	54	3	67·1	77·9	62·7	69·4	17·3	+ 2·2	20·8	77	+ 3

(R)—Register not received.

Cloud amount (tenths of sky)			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											4 hrs. G. M. T.										12 hrs. G. M. T.								
Mean 4 hrs. G. M. T.	Departure from normal.	Mean 12 hrs. G. M. 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	1
																													Iran
0·8	− 1·4	0·3	0	− 0·30	0		0	− 0·4			1	0	0	0	0	1	1	2	15	0	0	0	0	0	3	1	0	14	Charbar
2·8	+ 0·4	2·5	0·32	− 0·33	0·32	2	1	− 0·2	10·6	+ 1·9	4	2	4	0	1	1	7	11	1	1	0	0	0	3	12	15	0	0	Jask
2·3		2·4	0·39		0·30	2	1		3·3		1	11	1	0	0	2	0	2	14	0	6	0	10	6	4	0	1	4	Bandar Abbas
2·0		2·5	1·21		0·62	25	2		6·8		6	3	1	3	1	1	1	9	6	0	0	2	0	5	12	7	5	0	Bushire
																													Ispahan
5·1	−1·0	4·7	2·27	+ 0·01	1·31	17	4	− 1·3	1·7	− 0·2	1	0	0	1	0	0	0	0	29	0	0	3	4	1	1	0	0	22	Meshed
3·5	+ 0·4	4·5	0·01	− 0·54	0·01	27	0	− 1·8	4·9[f]	− 0·5	0	0	0	0	0	0	0	10	21	0	0	0	0	0	0	0	10	21	Seistan
																													Arabia
1·7	−1·8	2·9	0·59	+ 0·04	0·34	19	3	+ 1·8	5·3	− 4·0	3	0	0	4	2	2	4	6	10	11	3	5	5	0	0	0	7	0	Bahrain
2·4	+0·1	2·0	0·56	+ 0·16	0·47	2	1	− 0·1	5·5	+ 1·4	0	0	0	1	0	0	9	11	10	2	0	0	0	0	0	6	8	15	Muscat
2·2	−1·2	2·2	0·95	+ 0·54	0·40	1	3	+ 2·1	7·4	− 0·4	1	4	4	7	7	4	2	0	2	5	2	0	0	1	1	7	15	0	Sharjah

f—Mean of 25 days. *k*—Mean of 20 days. *m*—Mean of 18 days.

STATION.	Maximum temperature, °F.				Minimum temperature, °F.				Mean dry bulb temperature 8 hrs. I. S. T. °F.	Mean wet bulb temperature 8 hrs. I. S. T. °F.	Vapour pressure, millibars.		Relative Humidity, %		Mean cloud amount 8 hrs. I. S. T.	Rainfall, inches.				Number of rainy days, (0·10" or more).		W
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.			Mean 8 hrs. I. S. T.	Departure from normal.	Mean 8 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
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 ...	85·6	− 0·6	96	6	59·0	+ 0·8	52	7	73·0	65·7	18·2	+0·2	65	−14		2·45	+ 0·65	1·08	19	8	+ 3·7	
Bengal																						
Pabna ...	92·8	+ 0·5	101	30	66·3	+ 2·7	57	2,8	76·7	69·6	21·5	+0·7	69	− 1		1·00	−0·21	0·43	26	3	+ 1·1	
Kashmir																						
Jammu ...	84·8	+ 5·9	91	28, 29	60·6	+ 1·3	54	7	65·9	56·8	11·8	+1·4	54	− 1	3·9	0·32	− 1·79	0·13	3	2	− 1·7	N 21
Kargil ...	41·2	0	59	27	23·5	+ 1·4	11	8	26·3	26·2	4·6	+1·1	98	+20	4·4	2·20	+0·85	1·00	29	1	...	N 45
Mysore																						
Balehonnur ...	88·2	+ 0·7	92	27	65·5	+ 2·7	61	14,15	69·2	66·3	20·8	+2·5	86	+ 4		1·86	+ 0·62	1·31	29	2	+ 0·2	
Tibet																						
Yatung (Chumbi) ...	52·5	+ 0·9	61	31	27·0	− 0·5	20	1,14,16	37·5	36·7	7·0	+1·1	92	+ 5	4·3	2·55	+ 0·49	0·34	18	11	+ 5·6	
Iran																						
Zahidan ...	70·3	+ 3·4	79	17	45·4	+ 5·8	34	3	59·8	46·9	6·3	−2·4	36	−38	3·2	0·13	− 0·19	0·11	2	1	− 0·4	S 76

TABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2-30 HRS. G.M.T.) AT 5TH CLASS STATIONS—MARCH 19

DIVISION.	STATION.	Rainfall, inches.				Number of rainy days, (0.10" or more).		DIVISION.	STATION.	Rainfall, inches.				Num rai (0.10" o
		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 (R) ...							Kashmir ...	Sonamarg ...	5·70	−7·71	1·23	29	8
									Gurez ...	5·73	−3·39	0·98	29	8
Bengal ..	Bankura ...	1·69	+0·60	0·95	13	3	+1·1							
	Rajshahi ...	4·55	+3·38	2·91	21	4	+2·2	Baluchistan ...	Harnai ...	1·04	−0·37	0·68	11	2
	Sirajganj ...	1·77	+0·49	1·10	21	4	+1·9							
	Rangpur ...	0·99	−0·01	0·61	14	3	+1·4	Rajputana East ...	Udaipur ...	0	−0·10	0	...	0
	Cooch Behar ...	1·35	−0·29	0·75	20	3	+0·5	Bombay, Deccan...	Khandala (R) ...					
								Madras Southeast	Palamcottah ...	2·78	+1·74	1·18	28	4
Bihar ...	Muzaffarpur ...	0·19	−0·19	0·12	18	1	+0·1	Sikkim ...	Lachung ...	5·37	+0·35	1·06	14	13
	Chapra ...	0·34	−0·02	0·34	20	1	+0·1							
	Arrah ...	0·14	−0·24	0·11	20	1	+0·1							
United Provinces, West.	Meerut ...	0·77	+0·17	0·31	13	3	+1·6							
Punjab East and North.	Dharampore ...	3·13	+1·24	0·90	12	6	+3·1							
	Kyelang ...	5·88	+1·99	2·70	29	6	−1·5							
	Dalhousie ...	3·68	−2·97	2·09	30	5	−3·5							

(R)—Register not received.

Monthly Means of Upper Winds

Note.—Data upto 9·0 Km. a. s. l. are given under Table A and data above 9·0 Km. under table B. In Table A and B,—

n represents the number of observations,

V represents the mean wind speed in M/sec. irrespective of directions,

v represents the resultant mean velocity in M/sec. and

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

For the coordinates of the stations for which data have been published in these tables and other particulars, please refer to the introduction to the Monthly Weather Report, January 1947. In addition to the Data for stations mentioned therein the data for *Deolali* Lat. 19° 53′ N., Long. 73° 49′ E. Ht. 576 metres a. s. l. have been *included* in this issue. The data for *Jhelum* have been *excluded*.

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

MARCH 1947

Station.	AHMEDABAD												ALLAHABAD										
Time I. S. T.	0100				0700				1600				0100				0700				1600		
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface	31	1·2	0·9	286	31	0·3	0·2	310	31	2·0	1·6	262	31	1·0	0·1	315	31	0·9	0·3	189	31	2·5	1·8
0·15 a. g.	31	8·5	6·6	293	31	7·8	6·4	314	31	4·7	3·7	267	31	6·3	1·6	20	31	5·7	2·4	198	31	4·7	2·9
0·6 a. s. l.	31	6·7	5·4	297	31	7·9	5·6	349	31	4·3	3·6	263	31	5·0	2·6	340	31	5·8	0·7	303	31	4·6	2·7
1·0 „	31	4·5	3·8	287	31	5·6	3·9	322	31	4·2	3·4	264	31	6·0	3·7	302	31	5·8	2·5	290	31	5·0	3·6
1·5 „	31	4·9	3·6	258	31	5·7	3·5	255	30	4·9	4·0	268	29	6·7	5·5	287	31	7·5	5·4	288	31	5·7	4·8
2·0 „	31	7·2	5·1	228	31	8·0	5·8	240	30	7·2	6·1	253	27	8·7	8·1	287	30	9·7	8·1	292	31	7·0	6·4
2·5 „	27	8·7	6·8	247	31	9·7	8·1	287	30	9·7	8·8	251	18	9·9	9·0	289	30	11·8	9·7	290	30	9·1	8·3
3·0 „	21	9·2	7·1	252	30	11·1	9·4	242	30	11·3	9·9	249	9	10·5	9·6	285	28	12·5	11·5	291	29	11·8	11·1
4·0 „					22	11·7	8·8	252	21	9·9	8·4	259					19	14·4	13·6	291	28	15·4	14·8
5·0 „					12	11·1	9·9	284	20	13·9	13·0	270					5	15·4	15·1	288	21	20·3	19·7
6·0 „					7	11·9	11·1	296	17	15·8	15·0	277					3	18·7	17·9	75	18	23·9	22·6
7·5 „					3	13·8	13·1	264	6	16·6	15·6	272									6	25·3	24·4
9·0 „					1	15·5	15·5	265	1	16·5	16·5	295											

Station.	AMBALA												ANANTAPUR								ASANSOL			
Time I. S. T	0100				0700				1600				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·7	1·0	353	31	2·0	0·2	9	31	3·2	1·4	280	31	1·8	1·1	182	31	1·7	1·4	90	30	1·3	0·8	24
0·15 a. g.	29	8·1	4·1	344	31	7·0	1·9	14	21	6·6	3·4	284	31	5·9	3·3	207	30	3·9	3·1	91	26	6·2	1·2	26
0·6 a. s. l.	29	8·3	3·9	340	31	8·4	2·8	351	31	6·7	3·4	288	31	6·6	3·6	218	30	4·1	3·2	89	26	7·1	2·7	29
1·0 „	29	7·9	3·7	316	31	8·2	3·0	343	31	6·5	2·9	283	31	8·2	3·9	191	30	4·5	3·8	92	25	6·1	4·2	30
1·5 „	29	7·2	3·4	303	31	7·5	3·2	319	31	6·5	2·8	290	31	8·7	3·6	186	31	5·2	4·2	95	16	5·1	4·8	29
2·0 „	28	7·2	3·5	283	31	8·2	3·9	299	30	6·5	2·4	296	31	6·9	4·8	104	31	5·0	3·4	98	12	7·6	7·1	29
2·5 „	23	8·2	5·6	282	31	8·4	3·9	286	30	7·1	2·3	294	31	5·9	4·2	75	31	5·2	3·1	88	5	9·5	8·3	29
3·0 „	21	8·4	6·2	284	28	8·4	3·9	274	30	8·1	2·9	288	31	7·0	5·3	60	31	5·4	2·8	76	3	10·7	10·5	29
4·0 „	1	7·0	7·0	305	19	8·8	4·8	288	27	9·4	6·2	281	31	7·2	3·4	78	31	5·5	0·8	141				
5·0 „					14	11·0	8·7	276	24	12·6	8·3	287	31	7·6	0·4	155	30	6·0	1·2	240				
6·0 „					8	15·5	14·0	281	22	16·6	15·0	284	23	9·4	3·1	289	25	8·3	2·2	311				
7·5 „					4	24·4	23·5	285	14	23·0	22·3	291	18	10·8	2·9	278	20	11·2	4·9	296				
9·0 „									6	32·9	31·0	292	9	11·7	10·0	266	14	11·7	7·5	289				

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

March 1947

Station.	ASANSOL												BÂHRAIN											
Time I. S. T.	0700				1100				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·5	0·8	251	31	1·9	1·2	266	31	1·7	1·1	279	31	2·5	0·7	45	31	1·9	0·4	283	31	3·3	1·3	18
0·15 a. g. .	31	4·9	2·5	249	29	4·9	2·7	275	30	4·2	2·8	278	30	5·5	1·8	41	31	5·2	1·2	270	31	5·9	1·9	17
0·6 a. s. l .	28	6·7	3·5	268	29	3·9	2·7	270	30	4·5	3·4	275	30	7·1	3·0	311	31	7·9	3·3	311	31	6·4	1·7	314
1·0 „ .	26	7·5	5·1	280	27	6·2	5·0	271	30	5·1	4·1	278	29	7·3	4·4	300	31	7·6	4·4	308	31	6·3	2·8	279
1·5 „ .	20	7·3	6·2	284	19	6·7	6·1	278	29	6·1	5·6	295	27	6·9	4·5	289	31	7·2	4·8	298	29	6·8	3·9	272
2·0 „ .	15	7·2	6·7	285	16	7·5	7·3	290	27	7·3	6·9	287	23	6·3	3·9	286	31	7·3	4·9	293	28	7·5	4·5	285
2·5 „ .	12	8·3	7·7	288	6	9·2	9·1	290	22	9·5	9·0	288	5	7·2	5·1	283	26	7·4	5·1	287	25	7·9	4·9	271
3·0 „ .	7	9·9	9·1	280	3	12·7	12·6	290	21	12·6	12·3	293	2	7·3	6·7	214	21	8·4	6·3	275	23	8·5	5·6	278
4·0 „ .									18	15·0	14·6	292					11	8·9	7·9	271	13	9·1	7·4	271
5·0 „ .									10	19·1	18·7	287					5	9·3	8·6	257	8	11·2	9·8	276
6·0 „ .									1	18·0	18·0	275					2	11·5	11·5	259	5	17·1	15·4	273
7·5 „ .																					2	24·5	19·7	288
9·0 „ .																								

Station.	BALASORE				BANGALORE								BAREILLY								BHOPAL			
Time I. S. T.	0700				0700				1600				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·6	2·4	241	31	2·0	1·1	166	31	3·4	2·9	97	31	0·8	0·5	52	31	2·3	1·4	320	31	2·3	0·6	300
0·15 a. g. .	31	7·3	4·5	236	30	5·0	2·7	188	28	5·0	4·3	87	31	7·1	2·9	351	31	4·9	2·8	317	31	7·3	2·1	334
0·6 a. s. l. .	31	7·3	4·3	245									31	7·3	4·5	322	31	5·3	3·1	309	31	7·3	3·0	329
1·0 „ .	30	5·6	3·3	258	30	3·9	2·0	183	28	4·7	4·0	89	31	8·3	5·9	314	31	5·9	3·1	301	31	6·2	3·2	300
1·5 „ .	29	5·3	3·5	277	28	6·0	3·5	129	30	5·5	4·8	83	31	9·4	7·6	308	31	6·2	4·1	287	29	6·2	4·8	281
2·0 „ .	27	7·1	6·5	289	26	6·3	5·3	92	30	5·6	4·9	81	29	9·6	8·3	298	31	6·8	5·3	280	17	4·8	4·1	280
2·5 „ .	25	10·7	9·6	299	26	7·3	6·6	56	28	5·2	4·2	80	27	9·5	8·7	297	30	8·0	7·1	284	10	5·5	4·7	268
3·0 „ .	25	11·7	10·2	297	25	7·6	7·0	46	25	4·7	3·8	69	27	12·1	11·3	292	30	10·2	9·3	287	6	8·0	6·8	258
4·0 „ .	17	13·3	11·5	291	22	6·3	2·5	102	17	5·1	3·4	78	15	12·1	10·6	287	25	13·3	12·3	290				
5·0 „ .	11	13·7	12·4	286	18	4·9	1·0	81	12	5·0	1·9	24	9	14·1	13·1	271	22	15·9	14·5	288				
6·0 „ .	4	17·3	16·5	266	17	5·7	2·6	336	10	6·3	1·7	16	5	14·3	13·3	279	15	22·3	21·5	283				
7·5 „ .	1	21·0	21·0	305	13	8·0	5·3	348	7	7·2	5·6	347					4	19·6	18·2	274				
9·0 „ .					10	9·3	4·7	311	6	7·9	1·4	304					1	25·0	25·0	255				

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

MARCH 1947

Station.	BHOPAL								BHUJ												BIKANER			
Time I. S. T.	0700				1600				0100				0700				1600				0700			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·0	0·4	254	31	2·9	2·4	275	30	1·0	0·9	262	31	0·9	0·7	240	31	2·0	1·8	255	31	2·1	0·9	179
0·15 a. g. .	31	7·0	1·5	62	31	4·7	3·2	261	30	7·3	6·9	279	31	6·3	5·7	288	31	4·9	3·8	259	31	7·1	2·3	152
0·6 a. s. l. .	31	5·7	0·5	75	31	4·3	3·0	266	30	9·0	7·3	281	31	8·8	7·3	59	31	4·8	4·3	263	31	7·8	0·2	199
1·0 „ .	31	6·4	2·2	348	31	4·7	3·5	268	30	6·8	4·4	271	31	7·2	4·3	282	31	4·5	4·0	267	31	6·6	1·8	281
1·5 „ .	30	5·7	3·3	316	30	4·7	3·6	258	30	6·2	3·1	251	31	6·7	3·9	248	31	4·6	3·5	265	31	6·5	3·6	287
2·0 „ .	30	6·9	5·1	285	26	5·6	4·5	268	27	7·1	3·7	251	31	7·5	4·0	248	31	5·5	4·6	256	31	7·3	4·3	288
2·5 „ .	30	9·1	7·9	275	28	6·7	5·2	274	16	6·8	4·4	261	26	7·3	5·3	246	31	7·7	6·7	252	31	8·4	5·2	286
3·0 „ .	26	10·0	8·1	265	19	7·6	7·1	276	5	6·1	4·3	259	26	9·3	7·5	253	29	9·7	8·6	254	30	9·0	5·5	292
4·0 „ .	17	10·4	9·3	278	16	12·4	11·3	275	1	5·0	5·0	290	19	9·7	7·8	264	26	10·5	9·5	261	22	8·0	5·1	232
5·0 „ .	6	12·2	11·3	279	12	15·1	14·1	276	1	5·0	5·0	290	14	10·6	10·0	280	22	13·9	12·9	266	15	12·1	11·3	267
6·0 „ .	2	12·7	12·7	318	7	19·5	18·0	276	1	4·0	4·0	295	8	13·3	12·7	279	17	14·4	13·4	272	6	15·3	14·1	271
7·5 „ .	1	18·5	8·5	310	2	19·3	19·3	285	1	3·0	3·0	300	1	16·5	16·5	285	2	12·7	12·1	275	2	14·7	14·7	273
9·0 „ .									1	3·0	3·0	300					1	23·0	23·0	275	1	27·5	27·5	260

Station.	BIKANER				BOGRA												BOMBAY							
Time I. S. T.	1600				0700				1100				1600				0100				0700			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·7	1·5	274	31	1·9	1·1	158	31	1·9	0·2	183	31	3·7	2·2	294	31	1·2	1·1	344	31	1·5	1·3	26
0·15 a. g. .	31	4·8	2·7	276	31	5·9	2·4	193	31	3·6	0·9	238	31	6·2	3·9	291	31	5·1	4·8	338	31	4·9	4·1	353
0·6 a. s. l. .	31	4·7	2·7	263	30	6·1	3·8	238	31	4·3	2·3	242	31	5·5	4·3	280	31	5·8	5·1	349	31	6·3	5·3	360
1·0 „ .	31	4·6	2·7	259	30	3·6	5·1	253	31	5·3	4·3	256	30	5·5	5·2	271	31	5·4	3·6	346	31	6·3	5·3	357
1·5 „ .	31	4·6	3·0	257	29	7·5	6·5	272	29	8·0	7·5	256	30	6·7	6·4	261	30	5·9	3·1	315	29	6·1	2·2	318
2·0 „ .	30	5·6	3·5	266	28	8·7	7·9	278	19	10·7	9·8	255	28	8·6	8·2	261	30	6·8	3·1	275	28	6·3	1·8	242
2·5 „ .	30	5·5	3·4	259	24	10·1	9·2	276	9	11·0	10·2	269	28	11·8	11·2	268	15	5·8	3·5	204	26	5·7	4·0	207
3·0 „ .	30	6·7	4·5	257	28	12·4	11·5	276	5	11·9	11·6	285	24	15·2	14·1	279	13	5·7	4·1	191	26	6·0	4·5	205
4·0 „ .	25	10·2	8·2	273	18	16·7	16·0	287					15	20·7	20·0	289					28	5·6	2·0	235
5·0 „ .	28	14·0	12·0	275	6	15·7	15·3	291					6	21·8	21·2	289					15	8·4	5·9	276
6·0 „ .	17	15·9	15·3	290	2	18·3	18·1	310					3	24·0	23·7	280					10	10·3	8·2	280
7·5 „ .	3	26·5	26·3	277																	2	15·7	15·7	284
9·0 „ .																					1	16·0	16·0	280

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

MARCH 1947

Station.	BOMBAY				CALCUTTA												CHHOR			
Time I. S. T.	1600				0100				0700				1100				1600				0700			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	6·4	6·2	317	31	2·3	1·3	194	31	2·2	1·7	197	31	3·4	2·3	222	31	3·1	2·0	226	31	1·8	1·8	218
0·15 a. g.	31	5·9	5·7	320	30	12·1	9·3	211	31	5·8	3·9	215	31	5·2	3·6	224	31	5·4	3·6	232	30	6·4	3·6	226
0·6 a. s. l.	31	4·4	3·7	330	28	11·7	10·0	223	30	7·9	6·2	246	31	4·8	3·1	238	31	4·8	3·5	251	30	6·9	3·1	269
1·0 ,,	31	4·2	2·3	310	28	10·5	8·0	234	28	7·2	5·3	261	30	6·1	4·4	256	31	4·8	4·0	268	30	6·3	3·1	264
1·5 ,,	31	5·4	2·4	257	26	8·1	5·8	270	27	6·6	5·5	280	29	6·3	4·8	258	31	5·8	5·0	279	29	5·8	2·9	267
2·0 ,,	31	5·5	3·3	222	26	9·4	7·5	287	26	7·6	6·6	291	27	8·4	6·7	267	30	7·4	6·8	288	28	6·4	3·3	277
2·5 ,,	31	6·1	4·4	203	17	11·4	10·0	286	22	9·5	7·9	298	13	8·9	7·4	284	30	9·9	9·1	289	26	6·8	3·5	296
3·0 ,,	31	6·8	4·6	204	15	14·4	13·3	284	19	10·9	8·7	289	11	10·0	8·9	295	30	11·9	11·0	292	26	6·8	4·8	288
4·0 ,,	29	6·4	3·9	241	1	23·0	23·0	295	4	13·0	12·5	268	1	13·5	13·5	305	23	15·6	14·6	292	19	7·6	6·9	276
5·0 ,,	27	9·7	6·4	264													16	18·7	18·1	289	12	10·9	10·7	276
6·0 ,,	18	12·9	9·5	278													15	20·6	19·1	286	4	11·9	11·9	285
7·5 ,,	5	14·3	12·8	264													5	20·4	18·7	288	2	17·8	17·8	277
9·0 ,,																	4	19·0	18·5	294				

Station.	CHHOR				CHITTAGONG												COCHIN			
Time I. S. T.	1600				0100				0700				1100				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·8	2·6	253	31	0·2	0·1	114	31	0·6	0·3	101	31	1·7	1·3	247	31	2·0	1·7	241	31	1·2	0·9	44
0·15 a. g.	31	5·1	3·9	248	31	3·4	1·8	164	30	3·3	1·6	107	31	3·0	1·5	249	21	4·1	3·4	245	30	2·6	1·2	340
0·6 a. s. l.	31	5·3	3·7	246	30	4·9	3·0	247	29	3·8	2·1	278	31	3·1	1·9	288	31	3·9	2·8	269	30	3·5	2·2	305
1·0 ,,	31	5·7	3·9	244	29	3·7	2·9	262	27	4·3	3·1	289	29	4·2	3·3	288	31	3·6	2·7	279	30	3·0	0·6	1
1·5 ,,	30	5·5	3·7	245	27	5·2	4·1	292	26	4·3	3·2	291	26	4·8	3·9	275	31	5·0	4·0	293	24	3·5	2·2	82
2·0 ,,	26	5·8	4·0	246	27	6·4	5·6	298	25	5·4	4·1	296	23	5·6	4·9	285	31	6·4	5·3	296	17	6·7	5·7	83
2·5 ,,	25	7·0	4·8	252	25	8·2	7·3	300	24	6·9	5·6	300	21	6·9	5·7	291	31	7·9	6·6	296	14	8·8	7·4	10
3·0 ,,	24	7·8	6·1	259	23	10·9	9·1	307	24	9·5	7·9	298	20	9·8	8·4	298	31	9·7	8·5	296	9	7·9	7·9	78
4·0 ,,	20	9·9	9·1	269	4	13·6	12·6	291	20	12·8	11·6	291					30	13·6	12·4	285	1	12·0	12·0	155
5·0 ,,	13	10·9	10·3	256					14	18·0	16·7	298					26	17·9	17·0	284				
6·0 ,,	9	13·8	13·3	266					10	21·3	20·5	275					22	21·6	20·6	282				
7·5 ,,	6	19·7	19·3	263					3	25·5	24·8	267					11	23·0	20·0	282				
9·0 ,,	3	27·6	27·0	260					1	20·0	20·0	265					6	26·0	24·9	275				

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

MARCH 1947

Station.	COCHIN								COOCH BEHAR												CUTTACK			
Time I. S. T.	0700				1600				0700				1100				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	N	v	D
Surface	31	1·3	1·2	49	31	5·2	4·8	278	31	2·8	2·2	89	31	2·7	1·8	101	31	2·1	0·6	178	31	1·0	0·4	164
0·15 a. g.	30	3·1	2·7	56	30	6·1	5·8	271	31	6·5	5·1	82	30	4·5	2·8	108	29	4·4	1·1	212	31	5·6	4·6	208
0·6 a. s. l	30	3·3	1·9	325	30	4·8	4·1	271	31	6·5	4·6	100	28	5·1	3·3	104	29	4·7	1·5	290	31	7·3	6·5	223
1·0 „	30	2·5	1·0	325	30	3·0	1·4	305	29	4·7	1·6	146	28	4·4	1·7	140	29	4·3	2·2	242	28	6·2	4·8	232
1·5 „	29	3·3	2·2	51	30	4·5	3·7	59	26	5·8	2·8	241	22	5·6	3·5	284	27	5·0	4·3	262	27	4·5	3·0	275
2·0 „	28	5·0	3·9	68	29	7·3	7·5	60	28	6·2	4·3	265	14	5·2	4·4	256	27	6·3	6·2	266	24	6·4	4·4	304
2·5 „	28	8·2	7·2	70	28	10·0	9·7	65	18	6·7	6·1	277	7	3·9	3·7	266	25	8·9	8·4	270	16	7·1	5·9	320
3·0 „	28	8·0	6·8	69	27	9·4	9·1	67	15	9·3	9·6	285	3	8·0	8·0	283	23	10·9	10·6	275	12	9·4	7·8	322
4·0 „	25	4·9	2·8	93	25	3·8	2·7	83	11	14·0	13·6	284					16	16·8	16·7	282	1	6·0	6·0	350
5·0 „	19	4·3	3·4	109	21	4·5	3·0	81	4	18·5	18·4	284					11	21·0	20·9	282				
6·0 „	16	5·7	4·5	84	20	6·7	5·2	72									2	27·2	27·2	275				
7·5 „	10	6·7	5·4	90	12	7·7	7·2	68																
9·0 „	6	6·7	4·7	118	4	11·6	11·2	74																

Station.	CUTTACK												DALBANDIN											
Time I. S. T.	0070				1100				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·6	0·0	285	31	1·5	0·8	199	31	2·6	1·4	180	31	3·1	1·3	50	31	1·3	0·3	65	31	2·4	0·6	202
0·15 a g.	31	4·5	2·9	229	31	3·1	1·4	208	31	4·3	2·6	186	30	6·5	2·1	64	31	4·7	2·0	67	29	3·8	0·8	175
0·6 a. s. l.	31	6·9	5·0	280	31	4·1	2·3	224	31	4·6	2·7	217												
1·0 „	28	5·7	3·9	286	28	4·8	3·2	248	31	4·1	2·4	251	30	6·5	2·1	64	31	4·7	2·0	67	29	3·8	0·8	175
1·5 „	26	4·3	2·3	272	28	4·8	2·8	275	30	5·1	4·1	287	30	6·8	1·8	7	31	6·1	2·3	25	29	3·9	0·7	157
2·0 „	24	5·7	3·8	305	21	5·6	4·1	309	30	7·0	5·5	294	30	6·8	1·5	277	31	7·1	2·5	346	29	4·4	0·9	248
2·5 „	23	8·0	5·8	316	10	8·9	7·1	301	29	9·1	7·8	306	28	8·5	3·9	264	31	8·1	4·1	318	28	5·9	2·5	267
3·0 „	21	8·5	6·4	310	7	9·2	6·1	308	28	10·6	9·7	306	26	8·9	4·1	270	28	8·2	3·8	305	27	6·7	3·3	278
4·0 „	17	8·7	8·1	311					26	11·1	10·2	294	12	10·6	6·8	279	18	10·1	4·6	271	21	9·6	6·2	274
5·0 „	13	9·2	8·4	295					22	12·5	11·9	284	1	23·5	23·5	175	7	13·9	4·9	246	17	12·5	10·2	284
6·0 „	8	11·6	9·4	277					21	15·3	13·7	281					4	16·4	11·4	260	15	15·4	15·2	281
7·5 „									15	16·9	14·7	274									9	20·8	19·9	284
9·0 „									12	21·0	18·9	274									2	22·0	22·0	270

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

MARCH 1947

Station.	DEOLALI				DROSH								FORT SANDEMAN								GADAG			
Time I. S. T.	0700				0700				1600				0700				1600				0700			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	26	0·3	0·1	262	31	1·0	0·8	86	31	1·7	0·7	35	31	1·0	0·6	257	31	2·3	0·3	266	31	2·9	1·1	243
0·15 a. g. .	26	3·0	1·5	256	30	3·0	2·3	67	30	3·1	1·7	22	29	2·7	1·7	261	30	3·9	1·4	247	31	5·0	1·0	290
0·6 a. s. l. .																								
1·0 „ .	26	4·7	1·1	360																	31	6·4	1·8	12
1·5 „ .	26	6·9	1·9	347									29	2·0	1·2	261	30	3·4	1·1	248	31	6·5	1·9	68
2·0 „ .	26	6·9	2·8	228	30	3·4	3·3	44	30	2·9	1·6	29	29	3·7	1·8	273	30	3·8	1·9	226	30	5·5	2·7	96
2·5 „ .	24	7·2	4·9	212	29	6·4	6·2	22	30	2·8	1·4	21	29	5·3	2·3	288	30	4·2	2·2	242	28	4·9	3·4	89
3·0 „ .	23	6·5	4·8	207	28	8·7	8·5	9	29	2·9	1·1	17	29	7·2	3·1	299	30	5·8	2·9	247	28	4·3	3·1	80
4·0 „ .	15	7·2	4·7	268	26	7·7	6·5	9	28	4·0	1·1	89	26	8·7	6·4	296	24	8·7	5·3	275	25	4·5	0·7	167
5·0 „ .	4	8·5	2·5	302	19	6·9	3·0	295	27	5·8	1·6	307	17	9·6	8·1	280	16	12·2	11·0	296	23	5·3	1·7	264
6·0 „ .	4	8·4	3·0	281	17	7·3	5·1	341	24	7·6	5·3	296	8	12·8	12·1	256	11	15·3	14·2	295	21	7·9	2·8	297
7·5 „ .					11	9·4	8·5	351	16	12·8	10·4	292	3	17·2	17·2	267	6	18·9	17·2	279	14	9·3	3·0	260
9·0 „ .					10	12·5	10·9	354	12	15·2	12·9	982					2	28·0	27·9	282	6	10·7	5·5	262

Station.	GADAG				GAYA												GOPALPUR							
Time I. S. T.	1600				0100				0700				1600				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·9	1·3	116	31	2·1	0·8	179	31	2·2	1·2	172	31	3·3	2·9	292	31	2·7	2·2	218	31	7·3	7·0	179
0·15 a. g. .	31	4·1	1·9	103	31	5·9	1·3	290	30	5·6	3·4	216	31	6·3	4·7	302	31	6·2	5·1	221	31	8·9	8·4	185
0·6 a. s. L. .					31	6·6	3·1	311	30	5·9	2·7	277	31	6·9	5·9	292	31	5·5	4·2	223	31	5·3	4·5	171
1·0 „ .	31	3·7	1·6	86	31	6·4	5·1	305	30	5·9	4·6	296	31	7·0	6·2	289	31	4·5	3·0	226	29	3·0	1·7	163
1·5 „ .	31	3·8	1·7	77	31	7·3	6·4	295	30	7·3	6·5	295	30	6·9	6·9	286	30	3·5	1·5	270	29	3·7	1·0	301
2·0 „ .	30	4·5	2·3	69	27	9·5	9·3	289	30	10·0	9·1	293	30	8·4	8·0	286	30	4·6	2·3	316	28	5·5	3·8	320
2·5 „ .	27	3·9	2·1	71	19	11·1	10 7	283	26	10·9	10·0	294	29	10·2	9·7	285	26	6·8	5·0	324	27	7·2	5·3	315
3·0 „ .	25	4·3	1·7	76	13	10·5	9·9	281	24	12·3	11·4	293	25	13·3	12·7	284	24	7·8	6·1	322	24	8·4	6·1	310
4·0 „ .	21	4·3	2·3	60	1	17 5	17·5	300	14	15·8	15·4	298	21	15·7	15·1	285	21	8·4	7·5	312	18	8·0	6·7	302
5·0 „ .	16	4·7	0·3	68					6	14·8	14·4	291	16	19·3	16·1	287	15	7·4	5·7	289	14	8·3	7·1	288
6·0 „ .	13	6·1	3·8	299					1	23·0	23·0	300	9	21·6	21·0	275	12	10·5	7·6	274	10	12·1	9·1	277
7·5 „ .	9	6·7	4·9	297									4	25·7	24·3	265					3	6·8	3·6	298
9·0 „ .	4	9·6	6·3	262																	2	7·5	7·1	287

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

MARCH 1947

Station.	GORAKHPUR								HYDERABAD (Dn.) [Begumpet.]												JACOBABAD			
Time I. S. T.	0700				1600				0100				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·9	0·9	309	31	3·0	2·2	285	31	2·8	2·4	126	31	2·2	1·0	129	31	2·6	1·7	122	31	2·5	0·3	295
0·15 a. g.	31	6·0	0·6	292	31	5·8	3·9	262	31	6·3	5·6	143	31	5·5	2·7	155	31	3·9	2·9	126	31	5·7	0·5	31
0·6 a. s. l.	31	7·4	3·5	284	31	5·7	4·7	284	31	4·5	3·7	130	31	3·5	1·7	128	31	3·5	2·4	128	31	5·1	0·9	343
1·0 „	31	7·4	5·9	293	31	7·1	5·9	278	31	9·2	8·3	144	31	7·7	4·8	179	30	4·0	2·8	129	30	4·5	0·8	311
1·5 „	27	8·2	7·8	287	30	8·0	6·9	291	31	6·3	4·0	138	31	6·7	4·3	164	30	4·2	2·3	140	28	4·3	0·6	266
2·0 „	24	9·8	9·0	292	27	8·8	7·9	282	31	5·4	0·2	27	31	6·0	2·7	132	30	4·5	2·2	151	25	4·9	1·2	266
2·5 „	19	10·2	9·5	295	24	9·6	8·9	288	31	5·2	2·0	304	31	5·4	0·9	128	31	4·1	1·3	162	15	5·4	2·8	278
3·0 „	16	11·3	10·1	290	22	11·5	9·8	291	30	6·3	3·6	298	31	5·4	1·0	325	30	5·0	1·2	218	9	7·5	5·6	272
4·0 „	10	13·9	12·7	291	13	13·7	13·5	293	4	5·4	4·1	333	29	6·6	1·6	339	21	5·5	2·4	266				
5·0 „	4	16·7	16·2	303	5	16·8	16·4	289					28	8·1	2·6	281	14	7·9	4·2	282				
6·0 „	1	18·0	18·0	265	3	19·0	18·7	281					25	11·1	6·3	278	14	11·1	6·3	284				
7·5 „													11	13·0	11·2	285	11	12·0	8·0	294				
9·0 „													3	13·3	13·0	266	7	15·3	12·2	288				

Station.	JACOBABAD								JAMSHEDPUR												JHARSUGUDA			
Time I. S. T.	0700				1600				0700				1100				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·4	1·1	50	31	1·2	0·5	238	31	1·2	1·1	275	31	1·7	1·1	258	31	2·1	1·4	253	31	1·5	0·8	26
0·15 a. g.	31	6·6	2·3	57	31	2·8	0·9	225	31	3·1	2·5	266	31	2·9	2·1	276	31	3·1	1·6	250	30	4·9	1·5	38
0·6 a. s. l.	31	5·1	1·7	96	31	3·7	1·1	207	31	5·3	3·3	254	31	3·7	2·5	262	31	3·2	2·1	264	30	4·7	0·7	357
1·0 „	31	4·7	1·7	352	31	3·8	1·5	208	31	6·3	3·5	269	31	4·8	3·5	267	31	3·6	2·7	268	30	4·3	1·6	289
1·5 „	30	4·4	1·9	339	31	4·1	1·6	206	31	6·5	4·9	274	30	5·9	4·7	282	31	5·0	4·0	278	29	5·0	3·8	282
2·0 „	29	4·9	1·8	295	31	5·0	2·2	229	30	7·7	6·9	287	27	7·8	5·9	288	30	6·9	6·1	281	28	6·1	5·1	285
2·5 „	29	5·1	1·9	278	31	5·9	2·6	256	27	9·3	8·0	288	19	9·0	8·0	289	30	8·9	8·1	287	26	8·1	6·9	282
3·0 „	27	5·8	3·9	279	30	6·7	3·3	269	25	11·9	11·0	292	14	10·3	9·6	283	29	11·7	11·0	290	23	9·5	7·9	283
4·0 „	23	9·0	6·4	284	27	9·9	7·4	269	16	13·5	13·1	296	1	11·0	11·0	330	20	13·3	12·9	290	6	7·5	6·8	289
5·0 „	10	11·1	10·9	266	25	13·7	12·1	274	8	15·7	15·4	279					22	16·0	15·5	289				
6·0 „	5	17·1	16·9	264	18	15·9	13·5	271	5	23·6	23·1	279					18	20·4	19·4	285				
7·5 „					3	22·2	18·4	259									9	21·2	19·5	277				
9·0 „																	3	21·2	19·9	297				

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

MARCH 1947

Station.	JHARSUGUDA								JIWANI								JODHPUR							
Time I. S. T.	0700				1600				0900				1700				0100				0700			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	0·8	57	31	2·3	1·1	277	25	2·9	1·8	293	22	5·3	3·3	211	31	2·9	1·3	323	31	1·3	0·5	18
0·15 a. g.	31	4·0	2·2	72	31	3·8	1·6	282									31	3·5	3·4	287	31	6·2	1·1	295
0·6 a. s. l.	31	5·5	0·4	175	31	4·3	2·2	276	31	7·1	4·4	314	31	4·7	3·4	264	31	3·8	4·1	279	31	3·3	3·4	292
1·0 „	31	5·7	1·8	26	31	4·3	2·9	276	27	6·6	3·6	327	30	4·8	3·1	290	31	7·0	4·3	271	31	6·6	3·9	276
1·5 „	31	5·0	3·3	287	31	4·7	3·7	280	25	6·1	3·2	295	30	6·1	3·9	298	29	5·4	4·3	263	31	6·3	3·8	279
2·0 „	30	6·7	5·9	290	31	5·9	4·9	283	21	6·7	2·6	266	29	7·1	4·7	295	27	6·1	4·7	266	30	6·5	3·9	270
2·5 „	30	8·3	8·1	294	31	8·0	7·1	285	15	5·6	2·5	255	29	7·6	5·3	293	17	6·1	5·1	267	30	8·4	5·4	271
3·0 „	30	10·9	9·8	294	31	10·1	8·9	284	14	7·8	4·1	274	27	9·7	7·8	292	8	5·8	4·2	254	26	9·1	6·0	264
4·0 „	27	12·0	11·0	290	31	11·9	10·7	290					1	10·5	10·5	290					18	11·3	8·8	261
5·0 „	22	13·5	12·5	286	25	14·2	13·2	283					1	18·5	18·5	280					8	11·7	10·1	280
6·0 „	15	18·7	12·1	281	20	16·7	15·8	277					5	19·5	18·7	271					1	6·0	6·0	275
7·5 „	9	17·8	16·0	265	13	20·3	18·6	279																
9·0 „	3	14·7	14·4	285	3	19·2	17·9	296																

Station.	JODHAPUR				JUBBULPORE								KARACHI											
Time I. S. T.	1600				0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·8	2·5	259	31	1·2	0·9	147	31	1·9	0·7	279	31	2·2	2·0	261	31	1·9	1·2	277	31	6·0	5·7	281
0·15 a. g.	31	5·9	4·3	259	31	4·9	2·7	180	31	4·7	2·1	274	31	6·5	6·1	273	31	5·8	5·2	288	31	6·2	5·9	248
0·6 a. s. l.	31	6·0	4·2	251	31	5·1	2·1	182	31	4·7	2·1	273	30	10·1	9·6	277	31	8·7	7·2	303	31	5·5	4·5	267
1·0 „	31	5·6	4·4	249	31	5·8	1·9	260	31	5·0	2·9	274	30	7·9	7·2	272	31	7·9	6·2	299	31	5·5	3·9	280
1·5 „	30	5·0	3·9	248	31	6·4	3·7	282	31	5·7	4·1	273	30	6·2	3·4	280	31	6·9	5·1	290	31	6·5	4·1	292
2·0 „	30	5·9	4·3	248	31	6·8	5·6	284	31	6·3	5·0	267	29	6·4	3·5	293	28	6·0	3·9	294	30	7·3	4·2	287
2·5 „	29	7·2	5·7	246	31	7·9	6·8	280	30	7·6	6·3	264	24	6·5	3·7	303	27	6·5	3·0	299	28	7·9	5·5	282
3·0 „	29	9·5	7·7	251	30	9·5	8·2	284	30	9·5	8·3	268	17	7·4	4·1	276	27	8·0	5·3	292	27	9·8	7·4	271
4·0 „	25	14·5	11·8	262	22	12·0	10·7	285	28	13·5	12·3	271	2	14·0	13·8	287	13	11·0	10·4	276	25	12·1	10·2	271
5·0 „	19	18·4	16·1	275	10	14·2	13·4	291	19	16·5	15·6	287					10	14·5	13·6	279	21	15·6	13·7	269
6·0 „	9	18·3	17·5	278	6	17·2	16·9	302	12	18·1	16·5	282					3	11·7	11·3	291	15	19·4	17·9	264
7·5 „	2	27·0	27·0	290	2	14·7	14·7	312	7	19·9	17·6	279												
9·0 „	1	47·0	47·0	295	1	16·5	16·5	284	3	28·7	22·3	279												

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level.

MARCH 1947

Station.	KHANPUR.								LAHORE.												MADHO-SAGAR.			
Time I. S. T.	0700				1600				0100				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·8	1·4	40	31	2·9	0·9	263	31	1·3	0·7	42	31	1·4	0·3	32	31	1·9	1·5	311	31	1·3	0·6	281
0·15 a. g.	30	6·8	2·4	74	31	3·5	1·9	252	30	7·0	3·9	13	31	7·0	2·8	19	31	4·5	2·9	311	31	6·4	2·0	70
0·6 a. s. l. .	29	6·2	0·8	44	31	3·8	1·5	253	30	6·4	2·9	352	31	7·4	2·5	336	30	4·3	2·8	308	31	6·5	1·7	50
1·0 ,, .	29	5·3	1·4	290	31	4·1	1·6	245	30	5·7	2·4	327	31	6·7	2·5	328	29	4·8	2·9	311	31	5·9	1·5	315
1·5 ,, .	30	5·3	3·0	272	31	4·4	2·4	243	30	5·9	2·9	295	29	5·9	3·6	310	29	5·2	3·4	302	31	6·9	4·[illegible]	289
2·0 ,, .	30	5·5	3·5	276	30	5·5	2·6	257	27	6·7	3·9	291	28	7·3	5·1	305	30	5·7	3·5	287	30	8·1	6·7	280
2·5 ,, .	29	6·2	3·5	269	29	6·7	3·7	263	21	8·3	6·4	305	26	8·3	6·6	295	28	6·8	3·9	280	24	9·1	7·9	282
3·0 ,, .	23	6·4	3·8	275	28	7·3	4·9	260	8	8·2	7·6	281	22	9·2	6·9	288	27	7·1	4·5	272	25	11·5	9·9	271
4·0 ,, .	27	10·3	7·7	275	26	10·7	8·4	267	1	9·0	9·0	300	14	8·9	7·3	269	26	10·0	7·6	279	5	14·2	11·2	268
5·0 ,, .	18	13·8	12·2	270	22	14·4	12·2	274					6	11·6	10·2	264	18	12·6	10·6	289				
6·0 ,, .	9	13·5	11·8	266	17	13·6	16·2	276					2	8·7	7·9	236	12	15·5	13·3	292				
7·5 ,, .	4	16·0	15·7	268	9	20·7	19·9	277									7	24·9	22·6	280				
9·0 ,, .	3	23·7	21·2	271	2	34·7	32·5	301									1	19·5	19·5	245				

Station.	MADHO-SAGAR. (Gwalior)								MADRAS.												MALEGAON			
Time I. S. T.	0700				1600				0100				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ...	31	1·1	0·6	229	31	2·6	2·0	283	31	1·7	1·2	150	31	1·8	1·0	214	31	4·5	3·4	130	31	1·9	1·8	286
0·15 a. g. ...	31	4·6	0·7	151	31	4·6	3·1	294	31	5·3	4·4	147	31	4·7	3·0	180	31	5·1	4·2	126	31	6·4	5·6	317
0·6 a. s. l. .	31	6·5	1·0	106	31	4·6	3·3	289	31	5·1	3·5	140	31	5·7	4·4	160	31	4·5	2·9	145	31	6·4	5·6	311
1·0 ,, .	31	6·3	1·2	305	31	4·7	3·4	282	31	5·1	3·3	110	30	5·8	4·5	143	31	3·9	2·5	116	30	7·2	5·7	322
1·5 ,, .	31	6·5	3·4	290	31	5·2	4·2	280	29	5·7	4·6	92	30	6·6	5·7	87	30	5·1	4·2	86	30	5·2	2·7	320
2·0 ,, .	31	8·0	6·9	285	31	6·0	4·8	275	27	5·9	4·8	76	30	7·2	6·2	75	30	6·4	5·6	68	30	4·9	1·4	230
2·5 ,, .	30	9·4	7·9	282	31	7·5	6·4	273	22	6·3	4·6	58	29	8·1	6·9	61	30	6·9	5·6	60	27	4·5	2·4	194
3·0 ,, .	30	11·1	9·3	277	26	9·5	8·4	268	19	6·8	5·2	65	29	7·8	6·3	54	29	6·9	4·9	65	23	6·0	4·5	224
4·0 ,, .	25	12·6	11·3	280	24	13·4	12·1	274	1	2·0	2·0	320	26	6·9	4·1	76	26	4·7	1·7	100	8	6·8	4·8	246
5·0 ,, .	16	16·3	15·1	275	19	18·1	17·1	280					14	506	3·2	78	23	5·5	1·1	159				
6·0 ,, .	9	16·9	16·3	279	10	21·0	19·2	274					11	6·4	1·6	41	18	7·0	0·4	88				
7·5 ,, .	3	21·5	21·5	297	5	26·3	25·2	290					2	3·7	3·2	39	9	6·1	4·3	329				
9·0 ,, .					2	26·7	24·5	280									6	7·4	4·8	318				

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9 km. above sea level

MARCH 1947

Station.	MALEGAON								MANGALORE												MASULIPATAM			
Time I. S. T.	0700				1600				0100				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·4	1·2	282	31	1·6	1·3	239	31	2·6	1·9	28	31	2·7	2·2	69	31	5·3	4·7	291	31	1·4	1·2	165
0·15 a. g.	31	4·0	3·2	336	31	3·3	2·5	280	30	3·9	3·2	348	31	3·4	2·3	44	31	6·2	5·8	288	31	7·4	6·8	168
0·6 a. s. l.	31	4·0	3·2	336	31	3·3	2·5	280	30	4·5	3·5	321	31	3·4	1·8	351	31	5·3	4·1	290	31	7·2	6·5	171
1·0 „	31	5·2	4·0	11	31	3·6	2·5	280	30	4·5	2·9	328	31	4·3	1·9	16	31	3·2	1·5	300	31	4·8	3·8	155
1·5 „	31	5·4	2·4	355	31	3·8	2·5	263	21	4·1	1·5	343	31	4·5	1·4	58	30	2·9	1·5	55	0	4·5	3·0	103
2·0 „	31	6·1	1·7	251	31	3·8	2·6	263	18	4·9	2·9	86	31	4·7	3·3	95	29	5·3	4·8	93	30	4·5	3·2	73
2·5 „	31	7·0	4·4	221	30	4·4	3·1	249	8	9·7	7·6	273	28	5·7	5·1	92	26	8·0	7·8	86	28	5·5	3·6	47
3·0 „	31	7·6	6·0	219	27	5·3	4·5	250	6	6·2	5·8	86	26	6·8	5·9	93	25	7·3	7·8	85	26	5·9	3·7	36
4·0 „	29	8·3	5·8	252	25	7·8	6·1	252					20	5·3	2·3	93	26	4·1	1·7	95	8	4·9	2·9	5
5·0 „	22	10·0	7·7	286	25	10·0	7·4	271					16	4·4	0·9	110	25	4·1	2·0	70				
6·0 „	20	11·5	9·3	284	23	13·1	11·3	280					13	5·2	1·9	16	23	5·9	2·4	42				
7·5 „	11	15·3	12·9	263	15	20·0	3·0	323					5	5·9	1·6	235	15	5·8	1·6	56				
9·0 „	5	17·6	16·9	259	7	25·5	24·7	273					4	4·4	2 5	211	6	5·4	3·2	256				

Station.	MASULIPATAM								MINICOY								MULTAN							
Time I. S. T.	0700				1600				0700				1600				0100				0700			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·4	0·2	141	31	3·6	3·3	157	31	1·8	1·2	345	31	2·6	2·0	330	31	2·0	0·9	50	31	1·7	0·6	38
0·15 a. g.	31	5·2	4·2	163	31	5·3	4·9	163	31	4·1	2·9	337	31	4·2	3·4	341	31	7·1	2·7	89	31	6·8	2·5	78
0·6 a. s. l.	30	6·3	5·4	173	31	4·7	3·8	182	31	4·0	2·7	339	31	3·9	3·0	337	31	5·8	1·1	75	31	7·0	2·5	72
1·0 „	30	5·6	4·9	168	31	4·1	2·8	164	31	3·8	1·6	11	30	3·6	0·4	10	30	5·0	1·6	234	31	5·5	1·1	64
1·5 „	29	5·2	4·5	126	31	4·5	3·3	113	31	4·5	3·3	85	29	4·2	0·9	74	30	6·1	3·6	250	31	5·0	1·4	343
2·0 „	27	4·9	3·6	93	31	5·1	4·1	79	29	6·2	5·5	92	26	5·3	4·4	86	29	7·1	4·6	260	31	5·1	2·1	290
2·5 „	24	6·3	4·5	57	31	5·4	4·0	44	28	5·9	5·3	99	25	5·1	4·1	84	29	7·6	5·0	275	30	6·1	3·2	272
3·0 „	24	6·7	4·2	37	31	6·1	4·6	22	25	4·6	3·5	94	24	4·7	3·1	80	28	8·5	6·1	285	29	7·4	1·4	276
4·0 „	24	6·7	2·2	353	31	5·4	1·6	337	20	4·5	3·1	85	21	3·8	2·3	60	9	9·0	7·0	308	27	8·4	5·6	274
5·0 „	24	6·2	1·5	284	30	6·8	2·4	284	12	3·9	3·1	85	21	5·2	3·7	79	1	8·0	8·0	355	17	10·3	9·6	273
6·0 „	20	9·0	4·1	306	30	8·8	4·4	276	7	5·1	4·5	90	19	7·5	6·7	77					11	12·8	11·9	288
7·5 „	12	12·4	8·5	289	23	11·2	6·4	279	1	7·5	7·5	60	11	6·8	6·1	89					5	21·6	21·2	288
9·0 „	8	13·1	8·1	273	17	13·4	10·3	282					9	7·1	5·3	81								

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9 km. above sea level

MARCH 1947

Station.	MULTAN				NAGERCOIL								NAGPUR							
Time I. S. T.	1600				0100				0700				1600				0100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·1	0·2	60	31	1·8	1·1	301	31	1·4	0·8	10	31	3·9	2·6	206	31	1·6	0·6	359
0·15 a. ground	30	2·9	1·1	119	30	3·9	3·0	302	31	2·9	2·0	8	31	5·4	2·7	207	30	6·1	2·3	54
0·6 a. s. l.	30	3·8	0·9	119	31	3·7	2·2	307	31	3·3	1·9	11	31	4·2	1·3	218	30	6·3	1·9	58
1·0 „	30	3·8	0·8	151	31	3·6	2·1	29	31	3·5	1·8	33	31	4·0	1·1	45	30	5·2	0·3	240
1·5 „	29	4·2	1·5	216	30	5·5	4·8	57	31	4·9	3·7	60	28	5·9	5·0	31	29	5·1	2·1	251
2·0 „	28	4·7	2·3	250	30	8·0	7·4	52	31	7·1	5·9	60	28	8·0	7·3	31	25	5·2	4·0	282
2·5 „	28	6·1	3·4	260	29	7·7	6·9	57	31	7·7	6·8	57	26	6·1	5 8	48	16	6·6	5·7	281
3·0 „	22	7·5	4·8	270	29	5·4	4 4	59	31	5·0	3·6	61	25	4·5	3·6	53	10	5·2	3·9	283
4·0 „	28	9·8	9·0	273	18	3·5	2·3	89	29	3·9	2·6	84	19	3·7	2·5	78	1	4·0	4·0	325
5·0 „	25	13·6	11·4	275	14	5·0	4·5	98	26	5·5	4·7	91	18	5·6	3·4	90				
6·0 „	22	16·5	14·5	277	7	6·3	5·8	89	25	7·6	7·1	73	15	6·7	5·2	95				
7·5 „	10	24·9	22·3	291					19	9·1	8·0	65	12	10·0	8·7	100				
9·0 „	2	22·8	22·7	278					14	10·6	8·7	55	9	7·4	5·7	85				

Station.	NAGPUR				NEW DELHI								PESHAWAR							
Time I. S. T.	0700				1600				0100				0700				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	0·1	358	31	2·4	1·5	328	31	3·6	2·7	290	31	5·1	3·1	331	30	1·5	0·6	233
0·15 a. ground	31	3·4	1·1	276	31	7·8	4·3	339	31	5·7	2·7	298	30	6·2	4·0	307	28	3·0	1·8	56
0·6 a. s. l.	31	3·5	1·2	262	31	8·7	4·5	326	31	7·4	4·0	320	30	6·4	4·2	304	28	3·3	2·0	312
1·0 „	31	3·1	1·9	244	31	8·2	5·6	307	31	8·3	5·7	310	31	5·7	4·2	299	28	3·9	2·5	315
1·5 „	31	3·9	2·6	241	29	8·7	7·2	295	30	9·1	7·6	311	31	6·3	4·9	294	28	4·0	2·4	306
2·0 „	30	4·5	3·5	250	22	9·4	8·5	295	29	10·3	9·7	305	30	8·9	7·0	293	28	4·4	2·2	301
2·5 „	30	6·2	4·9	255	8	10·0	9·1	274	27	11·8	10·7	301	29	10 9	9·2	292	27	4·5	1·8	298
3·0 „	29	7·9	6·5	263	3	11·5	9·9	276	22	12·6	11·5	299	29	12·7	11·3	292	26	4·7	2·9	295
4·0 „	26	10·8	9·1	275					11	15·3	14·0	293	27	14·6	12·8	287	12	6·1	3·4	298
5·0 „	21	12·4	11·4	278					3	16·2	15·6	264	24	18 0	16·5	284	3	7·7	5·8	291
6·0 „	16	14·9	13·4	277					1	16·5	16·5	210	19	22·7	20·7	279				
7·5 „	4	18·7	16·6	265					1	16·0	16·0	215	10	29·3	27·0	272				
9·0 „	2	16·5	11·9	249									3	30·0	28·4	295				

Station.	PESHAWAR							
Time I. S. T.	0100				0700			
Ht. in km.	n	V	v	D	n	V	v	D
Surface	30	1·5	0·6	233	31	1·5	0·8	221
0·15 a. ground	28	3·0	1·8	56	31	2·9	0·8	271
0·6 a. s. l.	28	3·3	2·0	312	31	3·3	1·6	320
1·0 „	28	3·9	2·5	315	31	4·9	3·7	325
1·5 „	28	4·0	2·4	306	31	5·4	4·0	325
2·0 „	28	4·4	2·2	301	30	6·1	4·0	326
2·5 „	27	4·5	1·8	298	30	6·6	3·6	332
3·0 „	26	4·7	2·9	295	29	6·8	3·6	317
4·0 „	12	6·1	3·4	298	27	7·2	3·7	300
5·0 „	3	7·7	5·8	291	20	7·8	5·1	294
6·0 „					11	8·4	6·5	286
7·5 „					4	9·4	7·6	293
9·0 „					1	6·0	6·0	255

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

MARCH 1947

Station.	PESHAWAR				POONA												PORT BLAIR							
Time I. S. T.	1600				0100				0700				1600				0600				1600			
Height in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·5	1·3	353	31	0·7	0·6	252	31	0·4	0·2	259	31	1·4	1·3	278	31	0·9	0·5	38	31	3·1	2·4	83
0·15 a. ground	30	3·1	1·7	354	31	3·8	3·7	275	29	2·5	1·3	249	31	4·0	2·9	287	28	3·7	2·7	35	31	4·7	3·5	69
0·6 a. s. l.	30	3·2	1·9	348	31	2·6	2·4	268	29	1·3	0·7	249	31	2·5	1·9	287	29	4·4	2·9	51	31	4·8	3·0	57
1·0 ,,	30	3·0	2·0	336	31	5·6	5·0	305	31	5·3	2·6	8	31	4·4	3·4	284	28	4·7	3·8	71	31	4·2	2·6	61
1·5 ,,	29	4·0	2·6	310	31	6·9	4·1	299	31	7·1	2·7	8	31	3·9	2·7	273	24	5·2	3·7	82	26	4·1	2·1	74
2·0 ,,	29	5·6	2·9	299	31	5·9	1·7	226	31	6·1	1·5	284	31	3·8	2·5	258	24	5·3	4·3	98	25	4·2	2·7	95
2·5 ,,	29	5·4	2·5	293	29	6·4	3·9	120	31	6·1	3·3	96	29	3·9	2·4	238	22	4·4	3·7	93	20	4·2	2·5	99
3·0 ,,	28	6·0	3·0	286	26	6·1	4·5	123	30	6·2	4·2	93	26	4·3	2·4	240	22	4·1	2·7	76	18	3·8	2·7	75
4·0 ,,	28	7·5	3·3	286	10	6·4	3·1	218	28	6·3	3·0	243	23	5 5	2·9	256	20	5·0	3·9	65	16	4·0	2·7	88
5·0 ,,	24	8·3	3·4	282					26	8·7	6·0	282	20	8·3	5·1	270	16	6·4	4·0	71	12	4·1	3·5	80
6·0 ,,	20	11·6	7·7	304					25	11·4	8·7	283	17	11·8	10·7	254	12	7·0	4·6	81	9	5·3	2·7	77
7·5 ,,	13	18·7	16·7	282					17	12·3	9·4	273	14	15·4	13·4	273	6	5·3	2·2	65	8	6·6	4·1	62
9·0 ,,	3	23·3	21·7	292					10	16·7	14·9	265	10	18·1	16·1	265	1	4·0	4·0	20	4	5·4	2·4	57

Station.	QUETTA												RAIPUR											
Time I. S. T.	0100				0300				1600				0100				0700				1600			
Height in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·2	1·3	170	31	2·0	1·3	243	31	4·5	2·7	277	31	1·0	0·2	13	31	1·4	0·2	235	31	1·7	1·3	298
0·15 a. ground	26	4·4	1·6	218	30	3·2	1·6	230	28	6·2	3·3	230	30	5·5	2·4	358	30	4·9	0·3	213	30	4·3	3·3	284
0·6 a. s. l.													30	5·3	2·2	345	31	6·2	0·3	109	8	4·1	3·1	282
1·0 ,,													30	4·3	2·4	300	31	6·0	0·4	343	30	4·3	3·4	280
1·5 ,,													29	4·8	3·6	284	31	5·3	1·3	278	30	4·4	3·9	271
2·0 ,,	26	4·4	1·5	271	30	4·6	1·5	255	28	6·2	3·6	271	24	4·5	3·3	279	31	5·9	3·9	275	30	5·4	4·4	278
2·5 ,,	25	5·8	4·1	283	28	6·2	2·2	289	28	5·7	3·1	280	14	5·5	4·0	277	26	8·0	5·7	274	26	6·0	4·9	278
3·0 ,,	22	7·3	5·5	286	26	8·8	4·9	292	24	6·5	3·8	300	8	6·5	5·4	267	17	9·0	6·5	297	20	8·1	6·7	288
4·0 ,,	2	7·7	6·9	252	24	11·2	7·8	297	16	8·2	5·0	286	2	6·0	4·6	267	12	9·0	7·3	293	14	9·2	8·5	289
5·0 ,,					11	10·6	8·7	300	8	8·7	7·5	288	1	7·5	7·5	295	2	7·7	7·2	304	10	11·5	12·2	302
6·0 ,,					3	10·0	9·2	268	3	9·7	8·4	256					2	11·5	11·2	259	6	14·3	13·4	290
7·5 ,,					1	16·0	16·0	285													2	14·5	14·3	274
9·0 ,,																								

84088

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9 km. above sea level

MARCH 1947

Station.	RAJSAMAND												SAHARSA											
Time I. S. T.	0100				0700				1600				0700				1100				1600			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·9	2·4	305	31	1·9	1·4	305	31	3·0	1·4	258	31	1·5	0·7	58	31	1·7	0·4	82	31	1·9	1·3	274
0·15 ground	31	5·9	3·6	296	31	4·5	2·1	305	31	5·5	2·9	250	31	7·3	2·5	105	29	4·3	0·6	61	31	5·5	3·7	282
0.6 a. s. l.													31	7·3	1·8	251	29	4·9	1·7	284	31	6·4	4·7	280
1·0 ,,	31	6·7	3·7	293	31	5·6	2·5	321	31	5·2	3·0	253	31	6·6	3·8	278	29	6·2	4·1	272	31	7·0	5·7	272
1·5 ,,	30	5·4	3·3	271	31	5·9	3·1	280	31	5·3	3·3	253	30	8·0	7·3	291	25	7·2	6·7	281	30	7·7	7·4	275
2·0 ,,	30	5·5	4·1	249	30	7·5	4·8	249	30	5·8	4·4	251	28	10·2	9·9	298	28	8·8	8·5	285	25	8·6	8·3	280
2·5 ,,	29	7·9	6·4	286	30	8·5	5·7	247	30	6·8	5·8	256	22	10·9	10·8	298	20	11·9	11·6	292	20	9·7	9·2	281
3·0 ,,	22	8·5	6·4	251	27	9·5	7·0	215	29	8·7	7·7	257	18	12·7	12·2	288	14	12·4	12·0	290	19	12·4	12·1	289
4·0 ,,	6	8·7	7·3	260	22	13·8	11·8	260	28	13·8	12·8	259	8	14·0	13·5	296					15	17·2	16·9	286
5·0 ,,	1	9·5	9·5	285	12	12·6	11·5	279	26	16·6	14·9	265	3	13·8	11·9	286					8	20·4	20·0	287
6·0 ,,					7	17·0	15·4	280	20	18·9	17·9	273	1	15·0	15·0	300					2	27·7	27·1	297
7·5 ,,					2	19·5	10·6	285	9	23·6	13·0	278												
9·0 ,,									2	20·5	17·7	269												

Station.	SHARJAH												TEZPUR											
Time I. S. T.	0100				0800				1600				0100				0700				1100			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·5	0·6	271	29	2·3	1·0	160	31	5·1	3·9	296	31	1·4	1·1	69	31	1·6	1·3	76	31	2·1	1·6	68
0·15 ground.	27	4·7	2·4	318	30	3·7	0·8	178	30	6·6	5·0	296	24	7·1	4·5	79	28	6·4	5·5	72	28	5·7	4·3	80
0.6 a. s. l.	29	5·2	3·5	312	30	4·5	2·5	305	30	5·2	3·0	273	23	3·0	2·9	96	28	8·1	6·1	88	26	4·8	3·4	88
1·0 ,,	29	5·7	3·2	285	30	6·0	3·5	301	30	5·7	2·9	258	21	5·6	0·8	192	28	6·3	3·1	95	24	4·9	1·9	126
1·5 ,,	26	6·4	3·8	239	30	7·0	3·8	272	29	7·2	3·2	233	16	4·5	3·2	248	26	5·5	1·5	225	21	4·2	1·9	213
2·0 ,,	24	7·7	3·8	237	30	7·6	3·9	271	29	7·4	4·2	248	14	6·1	5·6	247	22	4·7	3·3	243	18	4·7	3·0	235
2·5 ,,	15	6·4	2·6	237	29	7·3	4·5	274	29	7·7	5·8	267	6	6·7	6·3	262	20	5·8	5·1	252	18	5·8	4·4	247
3·0 ,,	12	6·3	3·9	284	28	8·6	6·2	276	28	9·1	6·1	273	5	8·7	8·3	258	17	7·5	5·9	260	16	6·9	5·6	256
4·0 ,,					21	9·7	8·2	286	21	9·8	7·3	275					9	10·2	9·9	273				
5·0 ,,					14	12·3	11·2	293	18	11·7	9·2	277					7	11·3	11·2	290				
6·0 ,,					6	15·7	13·9	268	9	13·3	11·5	282					3	16·3	16·2	292				
7·5 ,,																	1	24·0	24·0	295				
9·0 ,,																								

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9 km. above sea level

MARCH 1947

Station.	TEZPUR				TRICHINOPOLY												TRIVANDRUM				VENGURLA			
Time I. S. T.	1600				0100				0700				1600				0700				0100			
Height in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	0·8	0·3	55	31	2·1	1·9	80	31	0·9	0·7	56	31	2·6	2·2	80	31	1·8	1·6	19	31	1·0	0·9	8
0·15 a ground	30	4·2	0·3	74	30	5·0	4·3	104	31	2·9	1·5	93	31	3·9	3·3	84	31	3·3	2·8	4	31	5·0	4·5	352
0·6 a. s. l.	29	3·6	0·4	102	30	5·2	4·2	107	31	4·6	2·9	134	31	3·9	3·2	85	31	3·0	1·9	337	31	6· 9	6·3	340
1·0 „	29	3·9	1·1	241	28	4·3	3·1	82	29	4·0	2·1	115	31	4·4	3·4	79	31	2·5	1·1	360	31	6·8	5·6	319
1·5 „	28	3·9	2·4	249	26	5·5	4·6	72	29	4·7	3·7	72	31	4·8	3·7	77	31	3·3	2·2	70	30	5·2	1·6	303
2·0 „	25	6·5	5·6	245	24	7·2	6·2	47	25	7·3	6·5	60	31	6·2	5·2	66	31	6·4	5·4	62	27	5·2	3·5	121
2·5 „	22	8·2	7·8	248	24	7·9	6·7	40	25	8·2	7·8	50	31	7·3	6·1	50	30	7·6	6·9	61	19	6·5	5·1	113
3·0 „	19	9·3	9·0	247	22	7·0	5·6	36	24	8·1	7·7	49	30	7·9	6·5	47	30	5·2	3·4	61	18	7·0	4·5	107
4·0 „	15	8·7	8·5	257	7	4·1	1·9	71	21	4·8	3·0	82	27	4·7	2·4	83	26	4·9	3·4	63	14	5·9	2·8	79
5·0 „	8	12·8	11·3	270	1	5·5	5·5	55	19	5·3	3·3	76	26	4·6	2·6	71	19	4·7	3·3	76				
6·0 „	8	15·2	14·1	282	1	6·0	6·0	45	18	6·4	4·3	63	22	5·7	4·0	49	15	5·6	4·0	87				
7·5 „	4	26·1	24·8	302	1	9·0	9·0	45	9	6·7	3·9	70	17	7·0	5·3	51	5	7·2	6·3	56				
9·0 „	1	33·5	33·5	285					7	9·6	5·5	37	10	7·7	2·6	19	3	8·3	5·6	6				

Station.	VENGURLA								VERAVAL												VIZAGAPATAM			
Time I. S. T.	0700				1600				0100				0700				1600				0100			
Height in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	0·6	0·5	11	31	4·2	4·0	267	31	3·9	3·5	327	31	3·7	3·4	340	31	6·6	6·0	269	31	1·3	1·2	250
0·15 a. ground.	31	3·8	2·6	14	31	5·8	5·3	281	31	8·4	8·0	314	31	8·5	7·9	331	31	8·5	8·1	273	31	5·7	5·3	242
0·6 a. s. l.	31	6·5	4·9	357	31	5·2	3·2	308	31	6·0	5·1	307	31	7·9	7·2	317	31	4·8	3·5	296	30	7·1	6·5	232
1·0 „	30	7·6	5·2	355	30	4·9	2·3	324	30	4·3	2·4	234	30	5·8	4·3	305	31	4·6	3·1	311	30	6·0	4·9	222
1·5 „	29	6·6	1·8	322	30	5·0	0·9	351	30	5·4	2·5	257	29	5·8	2·7	258	31	5·1	2·9	284	29	4·4	0·9	197
2·0 „	27	5·5	1·8	122	29	5·4	2·3	99	28	6·0	3·1	231	29	6 3	3·9	242	31	6·2	3·8	249	28	5·1	1·0	31
2·5 „	23	6·1	4·7	128	29	6·0	3·6	111	24	6·2	4·6	231	29	7·0	5·5	238	31	7·2	5·5	244	21	5·0	2·7	13
3·0 „	18	6·4	5·4	136	29	6·4	4·4	110	19	7·3	5·5	237	27	8·0	6·2	234	31	8·1	6·8	244	16	5·3	4·6	357
4·0 „	12	3·9	1·9	298	29	6·8	2·3	10					26	9·2	7·2	249	29	10·0	7·9	253	2	6·3	6·1	341
5·0 „	8	6·7	5·9	295	26	6·4	0·3	234					20	10·6	9·3	263	29	12·0	10·0	263				
6·0 „	7	7·6	7·4	296	24	6·0	2·5	295					16	12·8	11·6	275	29	16·3	14·5	263				
7·5 „	5	8·3	8·1	307	19	9·1	6·2	301					8	20·2	20·0	272	21	20·4	17·9	263				
9·0 „	4	6·4	5·5	321	17	10·3	7·5	294					1	26·5	26·5	255	16	23·0	21·2	268				

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9·0 km. above sea level

March 1947

Station.	VIZAGAPATAM							
Time I. S. T.	0700				1600			
Height in km.	n	V	v	D	n	V	v	D
Surface	31	0·8	0·8	278	31	3·1	2·8	182
0·15 a. g.	31	4·5	3·7	268	31	5·8	5·3	191
0·6 a. s. l.	29	5·3	4·7	282	31	4·8	3·9	212
1·0 „	29	4·8	3·8	226	31	4·2	2·5	197
1·5 „	29	4·8	0·5	91	31	3·7	0·8	164
2·0 „	28	4·8	1·5	64	31	4·4	2·0	8
2·5 „	26	3·9	2·2	31	31	6·3	4·4	344
3·0 „	26	3·9	3·3	6	31	6·8	5·3	339
4·0 „	21	6·7	4·5	324	30	6·9	4·8	312
5·0 „	20	7·2	4·1	270	30	7·9	5·6	286
6·0 „	19	9·5	2·7	254	27	12·2	8·5	280
7·5 „	6	10·8	7·8	248	18	12·5	7·1	282
9·0 „	4	9·6	6·0	229	12	13·2	9·2	274

Table B—Monthly mean directions and velocities of upper winds

Winds above 9·0 km. above sea level

MARCH 1947

Height (Km)	n	V	v	D
	AMBALA			
10·0	2	54·0	47·1	295
11·0	1	75·5	75·5	320
	ANANTAPUR			
10·0	10	9·1	4·9	228
11·0	2	9·0	8·9	223
12·0	1	17·0	17·0	215
13·0	1	19·0	19·0	200
14·0	1	27·0	27·0	195
	BANGALORE			
10·0	6	8·4	3·6	264
11·0	6	9·7	5·5	265
12·0	3	9·3	5·5	318
13·0	3	11·8	3·6	263
14·0	3	17·5	5·4	300
15·0	2	16·0	4·9	14
16·0	1	13·5	13·5	350
	CALCUTTA			
10·0	3	19·8	19·9	276
	CHHOR			
10·0	2	27·7	27·5	270
	CHITTAGONG			
10·0	3	36·3	34·4	293
11·0	2	44·7	42·5	294
	COCHIN			
10·0	3	13·2	12·3	76
11·0	1	6·5	6·5	50
12·0	1	11·0	11·0	115
13·0	1	15·0	15·0	155
14·0	1	15·0	15·0	140
	CUTTACK			
10·0	5	20·0	15·0	276
11·0	4	21·2	17·4	279
12·0	3	19·8	19·7	263
13·0	3	21·0	20·1	250
14·0	1	26·0	26·0	235
15·0	1	23·0	23·0	245
16·0	1	23·0	23·0	245
17·0	1	14·5	14·5	250
	DALBANDIN			
10·0	1	23·5	23·5	270
11·0	1	34·5	34·5	265
12·0	1	38·5	38·5	270
13·0	1	46·0	46·0	250
	DROSH			
10·0	9	19·2	16·7	293
11·0	5	21·2	20·2	288
12·0	3	19·5	19·3	280
	FORT SANDEMAN			
10·0	1	39·0	39·0	285
	GADAG			
10·0	2	9·5	9·5	220
11·0	2	10·3	10·3	229
12·0	1	9·0	9·0	230
	GOPALPUR			
10·0	2	9·0	8·2	270
11·0	1	15·0	15·0	285
12·0	1	12·5	12·5	265
13·0	1	12·5	12·5	255
14·0	1	20·5	20·5	285
15·0	1	22·5	22·5	275
16·0	1	23·5	23·5	275
	HYDERABAD (Dn.)			
10·0	3	11·8	11·6	259
11·0	2	16·5	16·5	244
12·0	1	15·5	15·5	280
	JAMSHEDPUR			
10·0	1	23·5	23·5	320
	JHARSUGUDA			
10·0	2	22·7	20·1	293
11·0	1	22·0	22·0	260
	JODHPUR			
10·0	1	61·5	61·5	285
	JUBBULPORE			
10·0	1	27·0	27·0	305
11·0	1	34·0	34·0	305
	MADHOSAGAR (Gwalior)			
10·0	1	27·5	27·5	260
11·0	1	40·0	40·0	275
	MADRAS			
10·0	2	10·7	6·6	264
	MALEGAON			
10·0	1	25·5	25·5	260
11·0	1	28·0	28·0	260
12·0	1	27·0	27·0	260
	MANGALORE			
10·0	3	2·5	2·1	172
11·0	2	3·3	3·1	192
12·0	2	4·0	3·9	221
13·0	1	8·0	8·0	150
14·0	1	1·5	1·5	75
	MASULIPATAM			
10·0	7	15·6	13·2	270
11·0	4	18·3	15·8	283
12·0	2	20·7	17·5	278
13·0	2	21·0	19·5	249
	NAGERCOIL			
10·0	6	6·5	3·9	65
11·0	4	6·7	5·9	114
12·0	3	9·5	9·4	142
13·0	2	5·3	3·0	196
	NAGPUR			
10·0	2	21·7	19·3	258
11·0	1	25·0	25·0	274
12·0	1	22·0	22·0	270
	PESHAWAR			
10·0	1	36·5	36·5	265
	POONA			
10·0	4	18·9	17·9	255
11·0	3	22·0	20·3	258
12·0	1	18·0	18·0	285
13·0	1	22·0	22·0	265
	PORT BLAIR			
10·0	3	6·6	2·2	126
11·0	3	5·2	3·1	150
	TRICHINOPOLY			
10·0	8	7·4	1·2	146
11·0	5	7·9	3·6	141
12·0	4	11·6	8·2	152
13·0	2	7·3	6·5	131
14·0	2	9·0	8·4	150
15·0	2	13·5	13·0	151
16·0	1	28·5	23·5	165
	VERAVAL			
10·0	4	19·8	18·3	261
11·0	2	18·0	17·6	260
12·0	2	19·0	19·0	253
	VENGURLA			
10·0	14	11·7	8·4	297
11·0	9	13·6	9·9	280
12·0	8	17·4	11·7	288
13·0	4	11·9	9·5	263
14·0	2	8·5	8·3	332
	VIZAGAPATAM			
10·0	1	14·5	14·5	250

Registered No. B-3097

INDIA WEATHER REVIEW, 1947

Monthly Weather Report

APRIL

LIBRARY
MAY 1 1953
WEATHER BUREAU

Published by authority of the Government of India.

Chief features—

(1) A cyclonic storm in the Arabian sea and a deep depression in the Andaman Sea.

(2) Six western disturbances of which four were active.

A low pressure wave which moved from the southwest Bay of Bengal into the southeast Arabian Sea and then passed inland across the north Konkan gave local thunderstorm-rain in southeast Madras, the Bombay Deccan, north Hyderabad, Gujarat and west Central India during the first week of April. Local thundershowers continued in Malabar and the south Bombay Deccan for the subsequent three days.

Weather became unsettled in the southwest Bay off Ceylon on the 10th and a low pressure wave passed westwards across Ceylon and the south Peninsula into southeast Arabian Sea by the morning of the 12th. On the 13th morning a depression formed off Malabar with its centre near Lat. 9½°N., Long. 74½°E. The depression moved initially northnorthwestwards and intensifying into a cyclonic storm, lay with its centre near Lat. 12°N, Long. 71½° E at eight hours I. S. T. of 14th. Rapidly intensifying into a severe cyclone with a core of hurricane winds and adopting a northerly course, it was centred at eight hours of the 16th about 200 miles westsouthwest of Bombay. The cyclone then curved towards northnortheast and was centred about 50 miles eastsoutheast of Veraval on the 17th morning. Thereafter it slowly moved parallel to the south Kathiawar coast and weakening at the same time filled up near Surat by the night of the 20th. The core of hurricane winds which had developed by the evening of the 14th lasted till the 17th forenoon and the strong gales which blew with speeds exceeding 50 m. p. h. for more than 15 hours in and near the port of Veraval caused considerable damage to country crafts and small boats. The losses in the Veraval harbour alone were estimated at about eight lakhs of rupees. Some of the noteworthy amounts of rainfall associated with the storm were :—April 17th, Junagad (Gujarat) 5·2″ and Veraval 5·0″ ; April 18th, Panchtalavda (Bhavnagar State) 14·5″, Lilia Mota (Kathiawar) 12·6″, Bhavnagar 12·1″, Sanosra (Bhavnagar State) 10·5″, Sihor (Bhavnagar State) 9·7″, Umrala (Bhavnagar State) 9·5″, Gogha (Bhavnagar State) 8·9″, Ningala (Bhavnagar State) 5·9″ and Jambusar (Gujarat) 5·1″. In association with the formation and motion of the storm widespread and locally heavy rain commenced in the extreme south Peninsula on the 11th and occurred generally over the Peninsula south of 12°N, on the next three days. Rainfall then shifted to the Konkan and the Bombay Deccan and thence to south Kathiawar and east Gujarat. Locally very heavy rain fell in Bhavnagar State on the 17th and many places there had rainfall exceeding 10 inches in 24 hours. One station Panchtalavda recorded 14·5″ of rain on the 18th morning. According to newspaper reports the heavy rain accompanied by strong winds in the Nilgiris on the 12th uprooted many trees and caused much dislocation of traffic. Several herds of cattle perished due to the continuous rains. In other places in the south Peninsula there was considerable damage due to the rains while a branch line in the S. I. R. was partly washed away due to floods. In south Kathiawar particularly in the Bhavnagar State, hundreds of houses were destroyed, large number of cattle herds died due to rain and winds and cotton and pulse crop suffered serious damage. Mango crop and fodder also suffered considerable damage.

Weather became unsettled in the Andaman Sea on the 16th and a depression formed by the 18th. The depression intensified by the next morning. Its further course could not be followed for want of observations ; but from circumstancial evidence as gathered from newspaper reports, the depression appears to have intensified into a storm and moving more or less northwards passed into lower Burma by the night of the 20th. B.I.S.N. Liner Sir Harvey Adamson which left Rangoon on the 17th for Mergui was not heard of thereafter. She probably ran into the cyclone and sank. According to newspaper reports, severe gales blowing over Rangoon on the 20th destroyed over 5000 houses. This probably happened when the storm crossed coast near Rangoon.

Thunderstorm activity was marked in Assam during the second and third weeks and in the first half of fourth week, while local nor'westers occurred in east Bengal on most days during the second half of the month. During this period weather was generally dry over the rest of the country except the extreme north.

Six western disturbances passed across the Country during the month. Of these the first gave local rain in the North West Frontier Province on the 6th and a few showers in the extreme north of the country on the 7th. The third western disturbance was active and induced a low over the Punjab on the 19th. The two together were responsible for widespread duststorms and dust-raising winds over the region from Baluchistan to east and north Punjab on the 19th and 20th and local thundershowers in Kashmir on the 20th and 21st. The last two disturbances which followed each other in close succession caused local showers in the extreme north of the country throughout the last week of the month.

Day temperatures were appreciably above normal over the country outside the south Peninsula on most days of April and were markedly so in northwest India during the third week.

The total rainfall of the month was in large excess in the Bay Islands Gujarat, the Konkan and southeast Madras and in moderate excess in Malabar. It was normal in Assam, west Central India and the Bombay Deccan and in slight to moderate defect in Bengal, the west Central Provinces, north Hyderabad and the Madras Deccan. Elsewhere it was in large defect except in the southwest Punjab, Sind, west Rajputana and east Central India where no rain fell.

Averaged over the plains of India the rainfall for the month was normal.

Mean maximum temperature was normal in the Bay Islands, Assam, east Rajputana, the Central parts of the Country, the Konkan, Hyderabad, southeast Madras, the Madras Deccan and the north Madras Coast and below normal in Gujarat, the Bombay Deccan, Mysore and Malabar. Elsewhere it was above normal. Mean minimum temperature was above normal in Bengal, Orissa, the United Provinces, the Punjab, Kashmir, the North West Frontier Province, Rajputana, east Central India, the east Central Provinces, south Hyderabad and the north Madras Coast and normal elsewhere.

Relative humidity was in excess in east Rajputana, Gujarat, West Central India, Berar, the west Central Provinces, the Bombay Deccan, and north Hyderabad and in defect in the east United Provinces, the southwest Punjab, Kashmir, the North West Frontier Province, Baluchistan and west Rajputana. It was normal elsewhere.

Cloud amount was in defect in Orissa, and in northwest India outside east Rajputana and Gujarat, and normal in Bengal, Bihar, the west United Provinces, east Rajputana, east Central India, the east Central Provinces, Hyderabad, Malabar, the Madras Deccan and the north Madras coast. Elsewhere it was in excess.

N. B.—**The Indian Standard Time used in this Publication is 5 hours and 30 minutes in advance of G. M. T.**

POONA 5;

Dated 15th June 1947.

V. V. SOHONI,

for *Director General of Observatories.*

	Rainfall				Departure from normal of				
							8 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	"	"	"		°	°	mbs	%	
1. Assam	8·55	7·87	+0·68	+9	+0·9	+1·1	0	+1	+1·1
2. Bengal	2·70	3·05	—0·35	—11	+2·6	+2·5	+1·9	+2	—0·1
3. Orissa	0·35	1·03	—0·68	—66	+3·1	+2·5	+1·5	0	—0·8
4. Bihar	0·26	0·61	—0·35	—57	+2·5	+1·6	+0·3	0	+0·5
5. United Provinces	0·06	0·31	—0·25	—81	+2·8	+3·5	—0·1	— 4	+0·1
6. Punjab	0	0·56	—0·56	—100	+6·3	+3·1	—1·8	— 7	—1·8
7. North-West Frontier Province.	0·02	1·46	—1·44	—99	+7·2	+4·3	—3·4	—19	—1·8
8. Sind	0	0·10	—0·10	—100	+3·7	+0·3	—0·7	—1	—1·3
SUB-DIVISION									
1. Bay Islands	5·03	2·36	+2·67	+113	—1·0	+1·3	+1·9	+3	+3·4
2. Assam	8·55	7·87	+0·68	+9	+0·9	+1·1	0	+1	+1.1
3. Bengal	2·70	3·05	—0·35	—11	+2·6	+2·5	+1·9	+2	—0·1
4. Orissa	0·35	1·03	—0·68	—66	+3·1	+2·5	+1·5	0	—0·8
5. Chota Nagpur	0·26	0·76	—0·50	—66	+2·1	+1·6	+0·3	0	+1·2
6. Bihar	0·26	0·53	—0·27	—51	+2·7	+1·7	+0·3	0	0
7. United Provinces, East.	0·07	0·28	—0·21	—75	+2·9	+3·7	—0·8	—6	+0·5
8. Do. West	0·05	0·35	—0·30	—86	+2·8	+3·2	+0·8	—1	—0·3
9. Punjab, East and North.	0·01	0·75	—0·74	—99	+6·0	+3·8	—0·9	—5	—1·5
10. Do. South-west.	0	0·40	—0·40	—100	+6·5	+2·5	—2·7	—10	—2·0
11. Kashmir	1·37	3·29	—1·92	—58	+4·5	+2·5	—0·5	—6	—1·8
12. North-west Frontier Province.	0·02	1·46	—1·44	—99	+7·2	+4·3	—3·4	—19	—1·8
13. Baluchistan	0·01	0·56	—0·55	—98	+3·0	+0·8	—1·8	—11	—1·6
14. Sind	0	0·10	—0·10	—100	+3·7	+0·3	—0·7	—1	—1·3
15. Rajputana, West.	0	0·19	—0·19	—100	+3·9	+2·6	—1·1	—7	—1·2
16. Rajputana, East.	0·02	0·18	—0·16	—89	+1·5	+2·1	+3·4	+9	+0·1
17. Gujarat	3·13	0·03	+3·10	+10333	—2·8	+1·8	+1·8	+6	+2·0

	Rainfall				Departure from normal of				
							8 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.*	"	"	"		°	°	mbs.	%	
9. Rajputana	0·01	0·18	—0·17	—94	+2·5	+2·3	+1·5	+2	—0·6
10. Bombay	2·02	0·44	+1·58	+359	—2·3	+0·7	+2·0	+7	+1·8
11. Central India	0·10	0·24	—0·14	—58	+0·6	+2·0	+3·1	+12	+0·5
12. Central Provinces and Berar.	0·28	0·60	—0·32	—53	+0·1	+1·8	+1·8	+4	+0·7
13. Hyderabad	0·34	0·76	—0·42	—55	—0·4	+1·5	+0·7	+3	+0·1
14. Mysore	0·96	2·13	—1·17	—55	—2·4	—0·3	0	+5	+1·5
15. Madras	2·47	1·55	+0·92	+59	—0·6	+1·2	0	+1	+0·7
Mean of India	1·08	1·08	0	0	+1·5	+1·9	+0·7	+1	+0·1
SUB-DIVISION—*contd.*									
18. Central India, West.	0·18	0·19	—0·01	—5	—0·2	+1·8	+4·6	+19	+1·1
19. Central India, East.	0	0·30	—0·30	—100	+1·6	+2·2	+1·1	+4	—0·1
20. Berar	0·09	0·27	—0·18	—67	—1·5	+1·0	+3·7	+12	+1·7
21. Central Provinces, West.	0·17	0·33	—0·16	—48	—0·8	+1·2	+2·2	+7	+1·1
22. Central Provinces, East.	0·50	1·07	—0·57	—53	+1·7	+2·7	+0·6	—2	—0·2
23. Konkan	1·92	0·53	+1·39	+262	+0·4	+0·7	+0·5	—1	+1·4
24. Bombay Deccan.	0·82	0·86	—0·04	—5	—2·7	—0·5	+2·8	+11	+1·6
25. Hyderabad, North.	0·49	0·65	—0·16	—25	—1·6	+0·7	+1·8	+7	+0·4
26. Hyderabad, South.	0·16	0·91	—0·75	—82	+0·9	+2·2	—0·3	—1	—0·1
27. Mysore	0·96	2·13	—1·17	—55	—2·4	—0·3	0	+5	+1·5
28. Malabar	4·85	3·65	+1·20	+33	—2·0	—0·8	+0·1	+3	+0·8
29. Madras, South-east.	3·67	1·55	+2·12	+137	—1·3	+1·2	+0.1	+1	+1·2
30. Madras, Deccan	0·42	0·78	—0·36	—46	—0·1	+0·9	—0·8	—3	+0·1
31. Madras, Coast, North.	0·21	0·66	—0·45	—68	+1·2	+2·6	+0·6	—1	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.			Relative humidity %		
		Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 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
BAY ISLANDS—																						
Port Blair ..	..	1001·0	—0·8	998·1	88·1	—1·0	90	5 days	76·0	+1·3	74	18, 21	83·8	81·9	78·7	77·8	31·2	+1·9	30·7	79	+3	8
ASSAM—																						
Dibrugarh ..	348	997·5	—1·3	993·2	79·9	—1·1	94	20	66·3	+0·5	61	2	71·1	75·2	67·7	69·6	21·6	0	22·2	84	+2	7
Sibsagar (R) ..	317	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tezpur ..	258	1000·0	—1·6	995·1	85·0	—0·1	93	2	68·3	+0·4	65	2, 3, 30	73·0	80·3	68·9	71·7	22·3	+0·6	22·7	81	+4	6
Gauhati ..	182	1001·9	—1·5	991·6	86·7	—0·9	94	1	69·0	+1·1	63	2	74·7	83·1	70·4	73·4	17·5	—4·8	18·1	81	+5	6
Dhubri ..	115	1004·2	—1·1	999·2	88·8	+0·6	99	11	71·9	+1·8	67	1	75·7	86·1	71·6	73·6	24·6	+2·0	22·6	81	+7	5
Silchar	96	1005·8	—1·6	1000·7	89·5	+1·5	96	3, 4	70·8	+2·0	64	3	76·2	85·4	72·2	75·5	25·2	+1·0	25·6	82	+4	6
Srimangal ..	69	1005·9	—1·7	1001·0	94·1	+2·0	99	4, 5	72·5	+3·2	61	2, 3	79·5	86·9	74·9	75·8	27·5	+1·5	25·4	80	0	6
BENGAL—																						
Cox's Bazar ..	38	1007·8	—1·3	1004·0	92·2	+3·5	95	22	76·1	+2·7	67	30	84·9	86·1	78·9	78·9	32·2	+3·1	30·5	76	—2	7
Chittagong ..	87	1005·5	—1·8	1001·3	90·1	+1·3	95	3	76·3	+3·1	70	22,23,30	83·3	83·2	77·6	78·1	29·8	+1·9	29·7	76	—2	7
Noakhali (R) ..	22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Comilla ..	29	1007·1	—1·3	1002·5	94·4	+2·1	99	2, 3	76·6	+3·3	68	30	83·4	89·5	77·9	78·6	30·1	+1·5	28·4	77	+3	6
Brahmanbaria	32	1006·7	..	1002·1	94·9	+1·8	99	5	75·1	+4·9	67	2, 30	82·1	89·2	76·6	79·4	28·8	+3·2	27·7	77	+5	6
Narayanganj (R)	26	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mymensingh ..	62	1005·7	—1·7	1000·5	93·9	+2·8	99	7, 8, 9	73·3	+1·6	67	21	79·8	87·9	75·0	77·7	27·4	+2·0	27·9	79	+2	6
Faridpur ..	46	1005·2	—1·6	1000·7	94·5	+0·7	100	4 days	75·4	+2·4	67	3	84·2	90·1	77·8	78·6	29·6	+1·3	28·1	74	+1	6
Barisal (R) ..	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khulna (R) ..	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jessore ..	26	1005·7	—2·0	1002·1	100·1	+3·5	105	7, 8, 27	76·4	+2·8	70	30	83·9	93·8	79·7	83·1	32·8	+3·9	33·9	83	+6	6
Satkhira ..	16	1006·6	—1·8	1002·1	98·6	+1·6	106	27	77·1	+1·5	70	22	84·6	94·1	79·4	78·9	32·0	+2·6	26·9	79	+5	5
Dum Dum ..	33	1008·2	..	1000·9	99·9	..	109	27	78·4	..	63	24	84·1	95·1	78·1	78·2	30·1	..	25·2	76	..	4
Calcutta ..	21	1005·8	—1·8	1001·2	99·3	+2·5	108	27	79·4	+3·9	74	20, 30	84·0	93·8	78·7	78·7	29·0	+0·3	26·5	79	+3	5
Saugor Island ..	10	1006·4	—1·8	1002·6	89·6	—0·1	95	26, 30	81·7	+2·3	74	19	85·9	85·4	80·5	80·9	33·1	+2·4	33·9	78	+1	8
Sandheads ..	28	1006·4	—2·0	1002·6	..	..	..	..	..	..	..	..	84·1	83·5	82·1	79·9	36·6	+4·8	33·3	91	+10	9
Midnapore ..	149	1001·2	—1·8	996·4	105·6	+4·7	112	23	78·4	+2·2	72	4	84·7	99·3	75·6	74·5	26·1	+0·3	17·8	65	—2	3
Burdwan ..	106	1002·4	—1·9	997·6	102·4	+2·7	107	23,27,28	77·8	+2·8	71	3, 30	82·8	100·7	76·2	73·9	27·9	+1·8	17·2	75	+4	2
Krishnagar ..	48	1004·5	—1·9	999·8	103·0	+4·1	108	27	76·4	+2·2	68	3	82·8	98·8	77·7	75·4	30·2	+3·5	19·3	78	+10	3
Asansol (R) ..	414	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Berhampore ..	62	1004·0	—2·0	999·3	103·1	+4·1	108	28	75·4	+1·4	66	2, 3	83·5	96·8	75·9	75·3	27·1	+2·2	20·4	69	+2	3
Bogra ..	63	1004·9	—1·4	999·9	100·3	+4·7	109	28	72·4	+0·9	63	2	80·0	94·2	73·4	72·5	25·1	+0·4	17·4	71	—1	3
Malda ..	103	1002·2	—2·1	997·9	99·4	+1·9	106	26, 28	73·3	+2·0	64	1, 2	82·8	94·9	72·8	72·1	23·9	+1·4	16·4	61	+8	3
Dinajpur ..	123	1002·3	—1·7	997·6	97·6	+3·6	107	9,11,28	71·4	+1·4	63	1, 2	79·5	93·3	71·7	74·0	22·9	+1·2	19·8	78	0	3
Jalpaiguri ..	271	997·9	—1·7	993·2	89·0	—0·5	96	9	71·1	+3·0	63	1	75·6	87·2	70·2	74.2	22·1	+0·7	23·0	75	+2	5
ORISSA—																						
Balasore (R) ..	65	..	..	..	..	..	..	.	..	—	..	..	..	..	..	..	..	..	—	..	..	..
Chandbali ..	20	1006·5	—1·7	1002·1	102·1	+3·5	110	23, 25,26	79·4	+2·7	74	20	84·7	91·9	79·3	79·8	31·7	+2·4	29·2	78	+3	5
Puri ..	20	1006·7	—1·5	1002·8	89·7	+2·0	106	26	82·4	+3·3	80	19, 20	84·9	85·7	80·9	81·7	34·2	+2.8	35·2	83	0	8
Gopalpur ..	56	1005·3	—1·5	1001·5	90·4	+2·2	94	26	80·1	+3·0	75	2, 3	84·7	85·1	80·8	82·4	34·1	+4·1	36·7	84	+3	8
Cuttack ..	87	1003·7	—2·2	999·2	103·7	+2·5	109	23,24,27	80·0	+2·5	73	19	84·4	96·0	79·5	78·4	32·1	+3·6	25·2	79	+6	4
Angul ..	455	991.4	—1·5	986·3	105·6	+3·6	110	23	78·7	+3·4	70	4	86·3	102·4	74·1	72·7	23·3	—0·7	13·9	57	—7	2
Sambalpur ..	486	989·8	—1·9	985·3	105·9	+2·9	110	22	76·3	+1·4	67	3, 4	85·1	103·9	71·5	73·7	20·2	+0·5	14·7	50	—1	2

Cloud amount (tenths of sky)			Rainfall, inches				Number of rainy days, (0·10" or more		Wind velocity, miles per hour		Wind direction—Number of winds from:—																	STATION
											8 hrs. I.S.T.										17 hrs. I.S.T.									
Mean 8 hours I.S.T.	Departure from normal.	Mean 17 hours 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.—
8·0	+3·4	8·3	5·03	+2·57	1·66	18	10	+4·9	5·6	—0·3	1	1	4	2	1	5	11	2	3	1	3	3	5	1	3	10	3	1	Port Blair.
																													ASSAM—
8·4	+2·0	8·0	12·09	+2·60	2·62	24	14	+0·4	3·0	+1·4	2	12	12	1	0	0	0	1	2	4	10	7	0	0	1	0	1	7	Dibrugarh.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Sibsagar (R)
5·1	0	4·7	5·71	—0·30	0·90	12	16	+5·3	6·0	+1·8	0	8	19	2	0	0	0	0	1	0	1	17	1	0	0	1	0	5	Tezpur.
4·8	+0·1	4·2	4·32	—1·39	0·90	22	10	0	3·8	+1·8	6	15	5	2	0	0	0	2	0	1	13	9	0	4	0	0	2	1	Gauhati.
6·4	+1·7	4·7	5·11	—0·31	2·18	22	9	+0·9	6·0	—0·3	3	14	9	2	1	1	0	0	0	1	7	9	1	3	4	1	1	3	Dhubri.
6·2	+1·0	4·7	15·92	+0·75	3·22	24	15	+0·7	2·1	—0·1	0	8	7	9	3	0	1	0	2	1	5	1	3	2	0	4	7	7	Silchar.
1·2	+1·8	4·3	11·33	+1·62	4·37	23	10	+0·1	5·3	+1·2	3	1	4	5	14	1	0	0	1	0	6	2	7	6	1	1	7	0	Srimangal.
																													BENGAL—
4·5	+0·4	1·7	2·14	—2·06	2·02	22	2	—2·2	5·3	+1·3	0	1	0	8	9	2	0	0	10	0	0	0	4	5	13	5	0	3	Cox's Bazar.
5·9	+1·6	2·9	5·34	—0·59	2·95	23	3	—2·8	8·6	+1·0	0	0	2	13	9	0	1	0	5	0	1	0	3	14	10	2	0	0	Chittagong.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Noakhali. (R)
5·7	+1·3	3·9	5·41	—0·44	1·78	23	5	—1·5	10·0	+5·1	2	1	1	3	20	1	0	0	2	0	0	1	3	20	3	2	0	1	Comilla.
4·6	..	3·0	6·97	+0·50	3·13	30	5	—1·9	5·5	..	3	0	0	6	14	6	0	0	1	0	0	0	7	14	5	0	0	4	Brahmanbaria.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Narayanganj. (R)
7·1	+1·2	4·6	6·35	+0·84	2·90	21	1	—0·1	3·8	+1·1	0	0	11	12	1	1	0	0	5	0	1	13	7	1	1	0	1	6	Mymensingh.
4·1	+0·2	4·0	3·97	—0·70	1·52	17	5	—1·3	8·3	+1·2	0	2	1	7	14	3	0	1	2	0	3	0	12	7	1	0	1	6	Faridpur.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Barisal. (R)
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Khulna. (R)
2·1	—2·0	2·0	6·01	+2·48	2·15	23	6	+1·2	7·1	+3·9	0	2	0	1	23	2	0	1	1	0	0	0	0	22	3	0	1	4	Jessore.
3·5	—0·2	2·5	1·40	—1·53	0·97	22	2	—2·0	5·3	+1·7	2	1	0	1	20	0	0	0	6	0	0	0	5	16	0	0	1	8	Satkhira.
2·6	..	2·1	0·97	..	0·47	30	2	..	..	..	0	1	2	0	12	12	0	0	3	1	0	0	1	17	6	2	2	1	Dum Dum.
2·5	—1·3	2·0	0·47	—1·28	0·36	20	1	—2·0	4·9	0	0	0	0	2	8	16	3	0	1	0	0	0	0	12	11	1	1	5	Calcutta.
3·8	—1·7	4·0	0·46	—0·71	0·40	19	1	—1·1	19·3	+5·6	0	0	0	0	3	27	0	0	0	0	0	0	2	19	9	0	0	0	Saugor Island.
3·2	—0·7	4·2	0·01	—0·57	0	..	0	—1·1	..	..	1	1	0	3	2	12	1	0	0	2	0	0	3	6	16	1	0	1	Sandheads.
2·4	—0·2	3·6	0	—1·70	0	..	0	—3·1	6·0	+2·3	0	1	2	0	12	12	1	0	2	4	1	0	1	14	5	0	2	3	Midnapore.
2·3	—1·3	1·9	0·10	—1·84	0·10	19	1	—2·2	5·9	+2·9	0	2	1	1	2	18	3	0	3	1	1	2	3	1	7	9	6	0	Burdwan.
2·6	—0·9	2·2	0·88	—1·40	0·66	22	3	—0·7	6·4	+1·3	0	1	1	1	16	10	0	0	1	1	1	2	0	7	6	10	1	2	Krishnagar.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Asansol. (R)
3·3	—0·7	2·6	1·69	+0·21	0·85	22	3	+0·3	3·2	—0·3	1	0	3	3	19	3	1	0	2	2	1	2	2	9	3	2	3	6	Berhampore.
4·9	+0·7	2·9	3·98	+1·14	3·02	29	2	—1·5	3·8	+1·9	0	2	13	3	3	2	5	2	0	1	3	8	0	0	3	10	5	0	Bogra.
2·7	+0·5	1·5	1·49	+0·31	1·49	29	1	—1·0	4·5	—0·5	0	5	8	1	7	7	0	1	1	3	8	3	2	0	0	5	4	0	Malda.
4·1	+0·1	3·3	1·17	—0·97	1·06	20	2	—1·0	2·5	—1·3	0	12	6	0	2	1	0	0	9	0	1	2	0	0	0	11	0	16	Dinajpur.
4·4	+1·1	2·4	2·23	—1·46	1·15	16	5	—0·5	5·3	+2·9	3	13	6	0	1	0	5	0	2	1	8	13	2	0	0	5	0	3	Jalpaiguri.
																													ORISSA—
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Balasore (R)
3·7	—0·3	1·0	0·15	—1·29	0·15	20	1	—1·9	9·7	+1·0	1	0	0	1	10	15	3	0	0	0	0	0	13	15	1	1	0	0	Chandbali.
3·8	—0·2	4·1	0·10	—0·48	0·09	19	0	—1·0	16·4	+3·9	0	0	0	0	1	26	2	1	0	0	0	0	0	11	19	0	0	0	Puri.
2·6	+0·6	3·9	0	—0·70	0	..	0	—1·4	18·8	+6·4	0	0	0	0	5	23	0	0	2	0	0	0	0	6	24	0	0	0	Gopalpur.
3·4	—0·5	3·1	1·27	+0·20	0·72	19	2	+0·3	4·9	+1·3	0	0	1	0	13	9	1	0	6	1	0	0	1	15	10	0	0	3	Cuttack.
1·7	—1·8	3·4	0	—1·03	0	..	0	—2·2	4·6	—0·1	0	1	2	3	0	0	3	2	19	3	0	0	4	3	0	5	5	10	Angul.
1·8	—0·6	1·5	0	—0·59	0	..	0	—1·6	3·4	+0·5	3	4	2	3	4	1	1	0	13	2	4	0	0	0	3	7	4	5	Sambalpur.

R.—Register not received.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 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
CHOTA NAGPUR—																						
Jamshedpur ..	423	991·9	—1·8	986·6	104·5	+2·5	109	22	76·2	+2·4	66	3	84·9	102·4	71·9	71·3	20·8	+2·0	12·0	51	+2	17
Chaibasa ..	742	981·2	—1·4	976·1	104·5	+2·4	108	4 days	77·2	+2·5	68	2	84·0	100·5	73·5	73·7	23·4	+2·4	16·0	60	+4	27
Ranchi ..	2,150	934·7	—1·2	931·4	97·3	+1·6	103	18, 19, 22	72·2	+0·9	64	4	84·7	94·8	65·7	66·5	13·3	—0·3	9·9	35	—4	20
Hazaribagh ..	2,006	939·2	—1·7	935·7	98·0	+0·8	102	15, 21, 22	72·5	+0·7	62	2	84·2	94·2	64·0	64·0	11·7	—1·0	7·5	31	0	15
Daltonganj ..	725	981·3	—1 8	977·0	102·8	+1·4	108	21	71·4	+1·4	60	2	85·5	99·5	68·7	70·1	16·3	+1·8	11·7	39	—3	19
Dhanbad ..	839	977·1	..	..	100·2	..	106	28	76·0	..	68	1	84·6	..	68·1	..	16·0	..	..	41	..	..
BIHAR—																						
Purnea ..	124	1002·0	—1·7	997·5	98·3	+2·0	105	26, 28	69·8	+0·6	60	2	80·5	94·0	69·7	72·8	19·8	—0·9	17·9	59	—6	33
Darbhanga ..	161	1000·3	—1·8	995·8	99·1	+2·1	105	26	71·0	+1·2	60	1	79·6	95·8	69·2	72·2	19·6	—1·2	16·3	58	—1	31
Motihari (R) ..	218	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Patna ..	173	999·3	—2·1	995·3	102·2	+3·3	107	13	75·7	+2·2	68	1, 2	83·9	98·4	67·3	69·7	15·3	—2·1	11·9	41	—6	20
Dehri ..	..	993·5	..	989·6	104·0	..	108	5 days	76·4	..	68	1, 2	85·8	100·3	66·7	69·6	13·7	..	10·9	33	..	15
Gaya ..	365	992·7	—2·1	988·7	105·0	+3·1	109	17	75·3	+2·0	64	1, 2	87·3	101·7	67·6	70·2	14·2	+3·2	10·9	33	+8	16
Naya Dumka ..	489	988·9	—2·1	984·8	104·1	+4·2	108	5 days	75·7	+1·9	67	2	84·4	99·7	71·4	69·9	20·3	+0·8	10·9	54	+4	19
Sabour ..	122	1001·2	—2·2	996·6	101·0	+1·8	107	26	71·0	+1·4	59	2	83·3	96·7	69·6	70·1	18·6	+1·7	13·1	49	+2	24
U. P., EAST—																						
Gonda ..	360	993·1	..	988·7	102·7	+2·9	107	16, 26	72·3	+3·8	62	1	80·4	99·7	64·1	67·9	13·1	+0·9	8·9	38	+3	14
Gorakhpur ..	254	996·3	—2·3	992·0	101·5	+2·2	106	16, 26, 28	74·1	+2·8	61	2	81·6	99·4	65·7	69·1	15·2	—2·0	10·7	38	—11	17
Benares ..	250	996·7	—2·7	992·9	103·5	+1·7	108	14, 15, 18	74·1	+2·5	64	1, 2	83·2	102·2	67·3	72·8	16·4	+0·8	15·5	41	—1	26
Allahabad (Bamrauli) ..	322	995·0	—1·4	991·0	104·5	+1·9	109	15, 18, 21	76·3	+4·9	66	1	84·7	103·1	64·0	67·9	12·0	—1·1	9·1	27	—8	16
Fatehpur ..	375	992·8	..	989·2	105·0	+4·0	111	21	75·0	+5·1	62	1	84·7	102·2	66·1	71·2	13·6	—1·8	12·1	33	—7	17
Cawnpore ..	414	991·6	—1·4	988·5	103·9	+4·5	109	15, 18	75·5	+4·9	66	1	83·4	101·8	62·5	66·9	10·8	—1·5	8·3	26	—10	10
Lucknow ..	371	992·9	—1·5	989·3	103·6	+2·2	109	15, 16	75·3	+4·5	67	1, 2	83·2	100·7	64·8	68·1	13·4	—0·8	10·3	33	—6	13
Bahraich ..	407	991·2	—1·8	987·8	102·6	+3·7	107	16, 28	70·0	+0·7	59	1	80·7	99·4	64·0	67·5	15·0	—1·2	8·5	37	—11	14
U. P., WEST— ..																						
Jhansi ..	824	978·1	—2·0	974·8	103·6	+1·0	109	15, 18, 21	77·3	+2·0	66	1	83·1	102·4	63·5	67·9	12·1	—0·1	9·3	29	—3	11
Agra ..	553	987·0	—1·6	983·7	102·9	+2·9	109	21	74·4	+4·8	63	1	80·0	101·7	64·0	70·1	13·2	+2·6	10·9	39	+8	17
Mainpuri ..	516	987·8	—1·8	984·4	103·7	+2·5	110	15	73·4	+4·2	63	1, 4	81·8	101·3	65·9	71·3	14·6	+1·5	14·0	41	+2	19
Aligarh ..	615	984·4	..	981·3	102·7	+6·1	109	15	73·3	+5·2	62	1	80·5	101·2	64·7	70·8	13·7	+2·8	12·0	38	+6	17
Bareilly ..	568	985·2	+2·3	982·1	101·1	+3·3	105	6 days	72·6	+3·8	63	1, 3	80·8	98·6	62·8	66·4	12·3	—3·0	9·1	33	—14	13
Roorkee ..	899	974·4	—2·1	971·1	96·1	+0·4	103	18, 20	65·8	+0·8	57	1, 6	76·0	96·7	63·1	73·9	13·9	+1·3	16·8	45	+1	30
Dehra Dun ..	2,239	930·3	—1·6	928·3	93·2	+3·3	99	17	64·3	+1·8	54	29	73·8	90·5	59·7	62·6	11·2	—0·5	8·1	41	—6	17
PUNJAB, EAST AND NORTH—																						
New Delhi ..	714	980·6	—2·4	977·5	100·5	+3·9	107	20	72·2	+4·5	63	1	80·6	95·6	60·0	65·4	8·5	—3·6	7·8	24	—16	10
Hissar ..	725	980·7	—2·1	978·2	102·7	+4·5	109	20	67·7	+1·0	58	1	78·2	99·6	66·5	78·5	16·6	+3·7	24·1	53	+9	37
Ambala (R) ..	892	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ludhiana ..	812	977·5	—1·9	974·7	101·9	+6·2	110	20	71·2	+4·7	59	2	76·1	98·6	63·9	75·2	14·8	+1·7	19·0	50	+1	32
Lahore ..	702	980·7	—2·5	978·2	100·9	+6·4	111	20	66·9	+3·7	61	1, 3	74·3	99·9	60·0	67·7	11·1	—3·2	8·7	46	—1	13
Sialkot ..	830	976·2	—2·8	974·3	100·2	+7·8	109	20	71·9	+7·2	59	1	78·5	99·4	55·5	69·9	4·7	—8·9	11·7	37	—16	19
Rawalpindi ..	1,674	949·1	—2·3	946·5	95·4	+9·2	106	19, 20	64·5	+5·2	54	1	73·3	93·5	56·9	62·2	9·0	—3·9	6·6	35	—16	12

(b) Mean of 29 days.

(d) Mean of 27 days.

(Cloud amount tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION
											8 hrs. I.S.T.									17 hrs. I.S.T.									
Mean 8 hour I.S.T.	Departure from normal.	Mean 17 hours I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hrs.	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
																													CHOTA NAGPUR—
1·2	—1·0	2·2	0·05	—0·85	0·04	15	0	—2·1	4·0	+0·7	0	1	2	1	0	2	13	6	5	2	0	0	1	2	6	8	7	4	Jamshedpur.
7·4	+5·1	6·8	1·24	+0·18	1·20	14	1	—1·2	2·5	0	1	1	0	0	1	19	2	0	6	5	2	0	0	2	7	3	4	7	Chaibasa.
(d) 1·3	—0·9	(d) 1·2	0	—0·89		..	0	—2·4	(e) 3·1	—1·8	1	0	1	0	6	8	2	1	8	6	0	0	0	1	2	1	13	4	Ranchi.
4·7	+2·4	5·8	0	—0·55		..	0	—1·5	5·9	—0·6	0	0	0	3	3	5	9	3	7	1	1	0	0	0	0	3	24	1	Hazaribagh.
1·8	+0·2	2·9	0	—0·41	0	..	0	—0·8	3·6	+0·1	0	3	6	0	0	0	8	0	13	3	1	0	0	1	0	5	20	0	Daltonganj.
..	..	..	0	..	0	..	0	..	6·0	..	0	1	0	4	4	13	6	2	0	..	..	..	..	..	..	..	..	..	Dhanbad.
																													BIHAR—
2·5	—0·2	9·9	1·10	—0·18	0·89	29	2	+0·2	4·6	+1·2	0	6	16	1	2	4	0	0	1	1	2	9	0	0	0	10	3	5	Purnea.
2·7	+1·0	1·9	0·27	—0·41	0·27	20	1	—0·3	3·8	0	0	7	16	0	0	0	5	0	2	0	2	6	0	0	0	15	4	3	Darbhanga.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Motihari (R)
1·7	+0·1	1·7	0	—0·27	0	..	0	—0·6	5·5	+1·2	0	8	3	0	0	7	5	1	6	1	3	1	0	0	0	11	9	5	Patna.
1·3	..	1·4	0	—0·23	0	..	0	—0·6	4·5	..	1	1	0	0	2	15	3	2	6	3	2	0	0	0	4	2	18	1	Dehri.
1·9	+0·3	1·6	0	—0·24	0	..	0	—0·6	6·9	+1·1	0	0	2	2	7	12	2	1	4	3	0	0	0	0	2	9	14	2	Gaya.
1·1	—0·9	1·1	0·17	—0·67	0·13	20	1	—0·9	4·1	+1·5	0	1	1	3	1	5	1	0	18	0	4	0	2	0	9	6	4	5	Naya Dumka.
2·0	—0·4	0·9	0·04	—0·68	0·04	20	0	—1·3	(b) 5·5	—0·5	0	6	10	2	2	4	4	1	1	4	4	6	0	0	0	8	8	0	Sabour.
																													U. P., EAST—
2·2	+0·4	1·2	0·40	+0·05	0·36	28	1	0	4·8	0	0	0	11	0	0	1	17	0	1	0	1	1	0	0	0	26	2	0	Gonda.
1·8	+0·4	1·3	0·03	—0·34	0·03	29	0	+0·7	4·2	+1·4	1	7	5	1	2	4	9	0	1	3	0	1	0	0	1	19	3	3	Gorakhpur.
1·7	+0·1	1·6	0	—0·20	0	..	0	—0·4	6·2	+2·9	2	1	1	2	3	13	6	0	2	2	0	0	0	0	0	17	9	2	Benares.
2·2	+0·4	2·2	0	—0·17	0	..	0	—0·4	4·8	+0·7	1	2	1	2	2	6	13	1	2	4	1	0	0	0	2	15	8	0	Allahabad (Bamrauli).
2·3	+0·7	3·6	0	—0·33	0	..	0	—0·6	4·0	+0·5	0	0	1	1	0	1	13	3	11	0	1	0	0	0	0	4	18	7	Fatehpur.
2·0	+1·2	1·5	0	—0·22	0	..	0	—0·6	8·3	+1·0	2	1	2	2	1	8	13	1	0	2	1	0	0	1	1	14	10	1	Cawnpore.
2·1	+0·6	1·3	0	—0·25	0	..	0	—0·6	2·8	+0·4	0	0	2	1	0	4	13	1	9	1	0	0	0	0	1	21	4	3	Lucknow.
1·9	+0·6	1·2	0·10	—0·22	0·10	28	1	+0·4	4·8	+1·4	0	1	7	3	0	4	5	3	7	0	1	0	1	0	2	9	14	3	Bahraich.
																													U. P., WEST—
1·4	0	2·5	0·02	—0·12	0·02	6	0	—0·5	3·3	—0·3	0	0	0	0	0	4	15	1	10	1	0	0	0	0	1	20	3	5	Jhansi.
2·3	+0·7	2·8	0·05	—0·21	0·05	28	0	—0·6	2·8	—1·1	1	0	0	0	4	5	10	0	10	2	0	0	0	2	4	9	9	2	Agra.
2·0	+0·2	2·0	0·08	—0·15	0·08	28	0	—0·7	3·0	—0·7	0	0	0	1	0	7	12	6	4	0	0	0	2	1	9	11	6	1	Mainpuri.
1·1	—0·2	1·9	0	—0·49	0	..	0	—1·0	5·2	+0·2	1	0	1	0	0	0	15	2	11	1	1	0	0	0	1	7	16	3	Aligarh.
2·0	0	2·9	0	—0·27	0	..	0	—0·6	4·4	+1·8	2	1	2	2	1	4	12	4	2	4	0	0	0	0	1	11	12	2	Bareilly.
1·2	—0·7	0·9	0·02	—0·43	0·02	29	0	—1·1	3·2	+0·4	0	0	0	4	0	2	1	3	20	1	1	0	3	0	2	1	20	2	Roorkee.
0·6	—2·3	1·3	0·22	—0·43	0·13	21	1	—0·7	2·3	—0·1	2	1	0	0	1	0	4	2	20	3	1	0	1	0	7	11	1	6	Dehra Dun.
																													PUNJAB, EAST AND NORTH—
1·1	—0·8	1·8	0·03	—0·30	0·03	21	0	+0·1	8·2	..	0	0	1	0	0	12	10	4	3	3	2	0	0	1	1	9	13	1	New Delhi.
0·8	—0·9	1·4	0	—0·26	0	..	0	—1·5	4·9	+0·6	0	2	0	2	4	13	6	1	2	5	1	0	0	1	9	7	7	0	Hissar.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ambala (R)
0·4	—1·8	1·5	0·01	—0·64	0·01	21	0	—1·3	1·6	—0·4	0	3	2	3	0	7	0	7	8	1	4	0	1	0	11	0	13	0	Ludhiana.
0·1	—2·8	0·3	0	—0·57	0	..	0	—1·6	2·9	+0·7	4	5	1	0	3	0	3	4	10	4	2	0	0	1	0	10	11	2	Lahore.
2·6	+0·2	2·9	0	—1·00	0	..	0	—2·1	2·8	+0·6	1	3	6	1	0	0	0	11	3	0	7	0	4	0	5	4	9	1	Sialkot.
2·0	—1·2	3·1	0	—1·92	0	..	0	—4·1	3·5	+0·8	5	6	3	0	1	4	2	3	6	2	0	0	1	1	10	11	5	0	Rawalpindi.

(c) Mean of 26 days.

(R) Register not received.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
PUNJAB, SOUTH WEST—																						
Khushab ..	612	983·6	—3·3	981·2	101·5	+8·6	112	20	70·6	+3·9	57	30	78·4	100·0	59·0	66·3	8·3	—4·6	6·9	26	—20	11
Lyallpur ..	605	983·6	—3·1	981·2	99·5	+6·6	108	19, 20	66·9	+3·0	59	1	74·9	98·3	59·8	65·8	10·8	—1·9	6·8	39	—10	11
Montgomery ..	558	985·5	—2·7	983·3	100·7	+5·0	111	19	67·4	+0·8	57	1	72·9	99·5	61·0	70·1	13·0	—2·5	12·0	45	—14	30
Leiah ..	490	988·8	..	985·3	102·9	..	113	20	67·7	..	55	28	76·0	101·1	60·2	69·5	10·7	..	10·4	37	..	17
Multan ..	413	991·3	—2·1	988·0	102·7	+7·4	111	19	69·9	+2·4	61	28	75·2	101·9	63·7	76·9	14·9	—1·4	20·2	48	—6	30
Fort Abbas ..	475	988·7	..	985·7	104·7	..	111	20	67·0	..	59	1	75·7	101·8	58·6	69·4	9·3	..	10·9	31	..	15
Bahawalpur ..	384	991·9	—2·9	988·8	101·5	+5·1	110	19	67·3	+1·9	61	1, 21	74·5	100·9	59·3	67·3	10·7	—5·2	7·8	37	—16	11
Khanpur ..	297	994·9	—2·9	991·8	104·8	+6·1	111	20	67·7	+3·0	58	14	73·6	103·1	61·1	80·7	12·8	—0·4	25·4	54	+8	35
KASHMIR—																						
Srinagar ..	5,205	841·4	—0·8	838·5	72·7	+5·9	85	20	45·8	+1·2	42	4 days	52·5	70·3	48·1	55·9	9·9	—0·7	9·4	74	—14	41
Gulmarg ..	8,709	Closed during winter months.																				
Dras ..	10,059	706·2	—1·9	703·7	43·7	+2·3	54	20					27·8	41·9	27·0	38·0	4·6	—0·1	6·1	89	+2	75
Leh ..	11,529	668·4	—1·8	664·6	56·8	+2·4	66	18	29·6	—0·7	25	1	33·4	54·3	28·0	36·4	3·6	—0·6	1·8	57	+4	13
Skardu ..	7,505	772·7	..	759·5	67·8	+5·0	77	20	45·3	+2·9	39	29	49·5	64·7	42·1	46·9	6·5	—0·6	4·8	55	—10	23
Gilgit ..	4,890	853·3	..	849·0	75·6	+3·4	88	19	53·4	+0·7	48	25, 28	59·7	73·7	49·9	53·4	8·4	—0·6	5·9	49	—10	25
Misgar ..	10,190	700·4	..	697·4	56·5	..	67	17,18,19	32·6	..	27	6	38·7	53·4	33·0	38·6	4·6	..	3·4	60	..	25
N. W. F. PROVINCE—																						
Peshawar ..	1,175	966·6	—2·7	963·6	92·3	+7·1	101	18, 20	64·3	+3·8	59	1. 2. 29	72·4	87·2	59·1	64·7	11·0	—2·6	10·6	42	—17	19
Bannu ..	1,264	962·2	..	959·8	94·1	+5·7	104	19	69·2	+7·1	61	1	74·1	92·6	58·4	64·2	9·1	—3·8	8·0	36	—18	15
Miranshah ..	3,026	905·7	..	902·4	88·6	+10·3	98	18	61·2	+4·0	45	6	68·8	85·9	53·4	59·6	7·7	—1·9	6·8	33	—19	17
D. I. Khan* ..	570	988·5	0	984·9	98·3	+5·7	109	28	67·4	+2·2	59	29	74·7	97·4	59·4	66·4	10·6	—5·3	7·9	36	—23	13
BALUCHISTAN—																						
Fort Sandeman	4,614	858·4	—0·2	855·5	84·5	+4·2	95	20	58·7	+4·2	52	1	64·5	82·9	50·2	(b) 59·1	6·5	—1·4	(b) 7·3	33	—31	(b) 19
Loralai ..	4,699	854·3	..	851·9	82·9	..	92	18	53·5	..	43	1	58·4	81·2	44·8	53·2	4·8	..	2·6	29	..	8
Sibi ..	441	991·1	—1·0	987·7	103·8	+6·1	111	18,19,20	73·7	+3·6	61	1	80·0	102·9	62·0	69·3	10·9	+1·2	9·4	32	—2	13
Quetta ..	5,490	831·2	—1·4	829·4	76·9	..	88	19	44·0	..	36	22	49·6	74·5	43·8	58·2	7·5	—1·5	10·5	64	0	36
Chaman ..	4,311	868.0	+0·2	866·9	81·5	+2·9	95	19	57·3	+1·3	45	21	63·5	80·4	50·9	62·1	7·8	—0·8	11·4	39	—7	33
Kalat ..	6,616	800·4	+1·0	799·0	72·8	+1·8	84	19, 30	41·0	—2·5	30	22	51·4	70·5	39·5	48·0	4·0	—4·9	3·4	33	—24	14
Dalbandin ..	2,785	916·7	+1·1	913·9	91·1	+1·9	102	18, 19	57·6	—0·3	46	22	63·1	90·2	52·0	65·8	8·9	—0·1	11·7	45	—1	25
Nokkundi ..	2,229	933·9	..	931·5	93·3	+3·1	108	19	64·3	+1·2	51	21	68·6	92·0	52·7	63·6	7·1	—3·7	8·5	31	—15	18
Las Bela ..	292	998·0	—1·1	993·3	105·9	+8·2	112	17, 18	64·9	+0·1	55	2	71·2	104·1	65·6	86·5	19·0	—3·0	35·1	73	+1	50
Ormara ..	15	..	..	..	92·2	+2·6	103	15, 24	72·9	—0·2	63	1	77·5	89·2	73·2	76·1	25·7	+0·1	24·9	82	—5	53
Pasni ..	10	1008·0	—1·0	1005·2	94·5	+3·8	104	23	68·0	+0·2	60	1	72·9	88·8	67·4	74·5 (b)	20·4	—3·1	12·4 (b)	76	—8	50 (b)
Panjgur ..	3,177	903·8	+0·9	901·5	89·2	+0·7	100	19, 30	58·9	—0·3	51	22	64·0	87·7	52·6	65·0	8·9	—3·5	12·1	43	—21	28
Jiwani (R) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
SIND—																						
Jacobabad ..	186	999·7	—1·2	996·1	104·5	+4·9	114	20	69·1	—1·6	59	1	76·3	103·6	60·7	71·2	11·2	—5·4	11·3	37	—12	16
Sukkur ..	221	998·3	—2·0	995·2	101·7	+3·5	108	4 days	70·1	+1·7	57	1	76·9	101·3	63·7	70·4	14·4	—0·8	11·3	46	—8	17
Pad Idan ..	153	1000·9	..	997·6	104·6	..	113	20	66·6	..	54	2	75·0	103·8	61·3	69·2	13·6	..	8·8	42	..	12
Umarkot ..	55	1004·1	..	1000·7	105·4	..	113	16	70·4	..	64	1	75·0	104·9	70·5	82·0	23·5	..	26·7	80	..	37
Hyderabad ..	96	1002·9	+0·1	1000·3	106·1	+4·3	113	17	71·5	—0·4	65	2	75·8	104·1	67·9	71·7	19·6	+1·9	11·7	66	+9	17
Karachi (Manora)	13	1006·7	—1·7	1004·7	87·1	+1·7	108	16	75·4	+1·2	69	1, 2	77·2	83·5	73·3	77·2	26·1	0	23·7	83	—4	75
Badin ..	31	1005·8	—1·7	1002·7	104·7	+4·3	115	16	70·9	+0·8	62	1	74·3	101·7	70·4	76·0	23·5	+1·0	19·3	82	+11	30

(R) Register not received.

(b) Mean of 29 days.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION
											8 hrs. I.S.T.									17 hrs. I.S.T.									
Mean 8 hours I.S.T.	Departure from normal.	Mean 17 hours 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
																													PUNJAB, SOUTH WEST—
1·4	—1·4	2·2	0	—1·92	0	..	0	—2·1	5·6	+0·3	4	6	5	4	0	0	3	1	7	1	4	2	3	5	6	6	3	0	Khushab.
0·8	—3·1	0·8	0	—0·47	0	..	0	—1·3	2·1	—0·4	3	3	0	2	5	1	4	3	9	4	1	1	1	2	6	7	6	2	Lyallpur.
0;2	—1·8	0·5	0	—0·34	0	..	0	—0·9	1·8	—2·0	1	3	2	4	2	2	0	7	9	0	3	0	3	1	8	4	6	5	Montgomery.
0	..	0·3	0	..	0	..	0	..	5·2	..	8	0	1	0	1	1	3	16	0	1	2	2	7	2	4	6	6	0	Leiah.
0·6	—1·5	0	0	—0·27	0	..	0	—0·8	3·0	+1·1	14	1	1	0	7	0	1	1	5	7	2	0	0	11	2	2	2	4	Multan.
0·4	..	0·8	0	..	0	..	0	..	6·5	..	0	3	1	6	6	9	0	1	4	2	0	1	1	3	6	11	6	0	Fort Abbas.
0	—2·3	0·1	0	—0·18	0	..	0	—0·5	3·6	+0·6	4	3	0	0	4	6	3	1	9	3	1	0	1	0	9	8	5	3	Bahawalpur.
0·1	—1·7	0·1	0	—0·25	0	..	0	—0·5	5·2	+0·5	0	11	0	1	1	16	0	0	1	0	10	0	0	0	18	0	2	0	Khanpur.
																													KASHMIR—
2·8	—2·3	6·1	0·37	—2·38	0·15	4	1	—6·8	2·7	—0·5	1	0	1	11	4	2	0	2	9	0	2	1	2	2	3	4	10	6	Srinagar.
																													Gulmarg
3·3	—1·6	6·6	1·89	—2·20	0·67	21	5	—3·0	0·6	—0·8	0	1	0	0	0	0	0	0	29	1	0	0	0	0	1	1	2	25	Dras.
3·5	—1·7	5·8	0·53	+0·30	0·14	28	2	+1·2	4·6	+1·9	0	14	3	0	5	1	0	0	7	1	1	3	0	3	7	12	2	1	Leh.
3·4	—2·0	4·0	0·34	—0·63	0·15	21	2	—0·5	6·2	+1·4	0	1	0	0	3	0	6	2	18	0	1	0	1	10	10	7	0	1	Skardu.
5·0	—0·6	6·1	0·86	—0·10	0·35	21	3	+0·4	1·0	—0·3	0	0	0	0	1	1	0	0	28	1	1	0	2	1	0	3	0	22	Gilgit.
5·1	..	5·6	0·28	..	0·09	6	0	..	5·8	..	1	2	9	2	0	3	4	9	0	0	1	14	7	0	2	3	3	0	Misgar.
																													N. W. F. PROVINCE—
2·4	—2·2	4·8	0	—1·76	0	..	0	—3·8	5·3	+3·1	1	0	0	8	0	5	3	1	3	5	8	5	1	0	3	2	5	1	Peshawar.
1·3	—0·8	3·4	0	—0·98	0	..	0	—2·5	4·9	..	1	0	0	0	1	0	6	19	3	2	3	3	13	2	0	4	3	0	Bannu.
0·5	—1·6	4·2	0·06	—1·57	0·06	6	0	—3·9	6·3	1·1	0	0	0	0	0	0	9	3	18	0	2	16	1	0	0	5	3	3	Miranshah.
0·2	—2·5	1·1	0	..	0	..	0	..	2·6	+0·7	2	4	0	0	0	0	1	3	8	3	3	5	4	0	0	1	1	1	D. I. Khan.*
																													BALUCHISTAN—
0·7	—1·8	3·1	0·09	—0·85	0·09	6	0	—3·1	4·2	+1·1	2	2	1	1	2	5	4	3	10	6	0	1	2	1	4	7	9	0	Fort Sandeman.
1·0	..	2·6	0	—0·95	0	..	0	—2·4	6·6	..	0	0	0	0	0	6	19	3	2	0	0	0	10	4	8	4	4	0	Loralai.
0·4	—2·0	0·9	0	—0·11	0	..	0	—0·4	5·6	+1·8	6	3	1	0	1	1	3	5	10	0	0	0	5	11	2	8	4	0	Sibi.
0·5	—2·1	2·0	0	..	0	..	0	..	4·8	+1·6	3	3	0	1	3	2	0	0	18	5	3	0	0	2	2	5	12	1	Quetta.
0·7	—2·3	2·8	0	—0·77	0	..	0	—2·0	5·9	+0·2	0	4	2	17	2	3	1	1	0	0	0	0	0	0	9	0	21	0	Chaman.
0·3	—2·0	2·0	0	—0·56	0	..	0	—1·8	7·3	+2·0	4	0	0	2	19	1	0	3	1	4	2	0	0	1	2	7	14	0	Kalat.
0·9	—1·5	2·6	0	—0·30	0	..	0	—0·7	4·6	—0·3	3	4	1	3	0	0	1	0	18	1	3	2	6	2	3	4	3	6	Dalbandin.
1·3	—1·1	2·0	0	—0·35	0	..	0	—0·4	8·0	+0·7	13	3	1	0	0	2	0	9	2	4	1	1	2	3	4	3	12	0	Nokkundi.
0	—1·8	0·3	0	—0·54	0	..	0	—1·2	3·1	+0·2	3	2	0	1	0	1	1	4	18	0	1	1	4	11	6	4	2	1	Las Bela.
0·9	—1·4	0·3	0	—0·60	0	..	0	—0·8	13·0	+2·0	0	0	0	0	0	9	12	1	8	0	0	0	0	0	13	15	2	0	Ormara.
1·1	—0·7	0·5	0	—0·40	0	..	0	—0·5	8·9	+1·3	0	1	1	1	0	1	13	13	0	0	0	0	0	1	14	15	0	0	Pasni.
0·3	—1·3	1·0	0	—0·39	0	..	0	—0·8	4·9	—0·5	5	14	5	1	0	1	1	2	1	7	0	2	1	1	5	6	8	0	Panjgur.
																													Jiwani (R)
																													SIND—
0·4	—1·1	0·2	0	—0·07	0	..	0	—0·5	7·0	+1·6	2	1	4	3	2	2	4	6	5	1	0	1	5	2	7	10	4	0	Jacobabad.
0·1	—1·5	0	0	—0·10	0	..	0	—0·4	3·5	—0·4	3	1	3	3	1	2	0	1	11	9	0	0	0	4	2	7	6	2	Sukkur.
0·1	..	0·1	0	..	0	..	0	..	5·4	..	2	1	2	10	3	1	1	5	5	2	0	0	4	4	4	5	4	7	Pad Idan.
0·8	..	1·1	0	..	0	..	0	..	6·9	..	1	1	0	2	12	12	1	0	1	1	1	0	0	2	12	10	4	0	Umarkot.
0·2	—1·3	1·0	0	—0·07	0	..	0	—0·2	5·6	—0·8	1	0	0	0	10	11	1	1	6	1	2	2	1	9	10	3	2	0	Hyderabad.
0·8	—1·8	0·9	0	—0·15	0	..	0	—0·2	9·4	—0·3	1	2	0	0	0	7	12	6	2	0	0	0	0	0	16	14	0	0	Karachi (Manora).
0·6	—0·9	0·4	0	0	0	..	0	0	6·3	..	2	0	0	0	2	17	7	2	0	0	1	0	1	2	11	8	4	3	Badin.

H32DGOB

*Observations only for 18 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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
RAJPUTANA, WEST—																						
Sri Ganganagar	580	985·6	..	982·5	101·8	+6·4	109	18,19,20	65·6	+3·6	55	1	76·5	99·4	58·8	67·1	9·1	—2·4	8·0	31	—14	12
Bikaner ..	734	980·4	—1·2	977·5	102·3	..	108	18,20	71·6	..	58	1	77·3	102·2	58·6	69·5	8·5	..	9·9	27	..	15
Phalodi ..	783	979·9	..	978·4	102·3	..	108	17	74·5	..	63	1	76·5	101·5	..	..	..	..	..	..	..	..
Jodhpur ..	736	981·8	0	978·3	101·5	+2·1	109	16	73·9	+3·1	65	1	78·2	100·4	62·8	67·8	12·5	+1·9	8·5	39	+4	13
Barmer ..	638	984·9	—1·4	981·7	103·6		110	16	75·3	+1·0	65	1	79·6	102·2	66·0	70·0	15·7	—2·9	10·5	48	—12	15
RAJPUTANA, EAST—																						
Sikar ..	1,406	958·6	..	955·5	100·8	..	106	14,15	70·6	..	54	1	77·3	99·2	60·3	66·7	10·3	..	7·7	32	..	12
Jaipur ..	1,431	958·5	—1·5	955·3	100·0	+1·8	105	15,20	70·7	+1·9	57	1	80·8	98·2	62·9	66·0	11·6	+0·3	7·3	32	+1	12
Ajmer ..	1,593	953·6	—1·2	950·2	98·1	+0·8	105	15	73·7	+2·2	58	1	82·8	86·7	67·1	69·7	17·0	+4·5	15·0	44	+11	24
Kotah ..	843	978·3	—1·2	974·6	103·0	+2·7	109	15	77·4	+1·6	68	1	82·6	101·4	66·1	69·1	16·2	+5·7	11·9	39	+11	14
Brijnagar ..	1,053	971·4	—1·5	967·6	101·2	+0·7	108	15	72·7	+2·6	63	1	78·0	100·4	64·2	67·0	14·2	+3·2	7·4	44	+12	12
Rajsamand ..	1,850	945·0	..	942·1	95·6	..	104	15	73·0	..	69	5 days	77·0	93·5	64·9	68·9	15·6	..	13·0	51	..	27
GUJARAT—																						
Deesa* ..	466	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhuj	343	996·6	—0·8	993·8	99·2	—0·6	108	15	73·5	+2·2	67	1	77·1	96·7	69·6	71·1	21·3	+0·5	14·6	68	+10	26
Dwarka ..	37	1007·3	—1·5	1005·3	85·8	+0·7	94	18	77·2	+0·8	73	1	78·5	83·7	74·4	76·3	27·4	+0·2	27·4	81	—5	70
Jamnagar ..	60	1007·3	—0·6	..	94·7	—0·9	105	15,16	73·7	+3·4	67	10	81·3	..	73·3	..	24·4	+0·8	..	68	—7	..
Rajkot ..	432	993·5	—1·2	990·3	98·8	—3·0	108	15	71·5	+2·0	64	1	75·7	97·0	69·9	70·5	22·4	+1·9	13·5	74	+8	26
Veraval ..	26	1007·2	—1·9	1004·8	89·0	..	103	14	73·4	..	67	7	77·0	83·3	72·0	77·4	24·5	..	29·4	75	—2	77
Surat ..	39	1007·2	—1·2	1004·5	95·1	—4·0	109	2,14	75·5	+1·8	68	19	79·5	91·6	72·8	76·8	24·5	+0·9	24·8	72	+7	54
Bhavnagar ..	55	1006·5	—1·3	1003·0	96·7	—5·3	107	14,15	73·4	—0·1	70	1, 7, 10	76·7	95·5	67·6	71·9	19·1	+0·8	16·2	62	+9	32
Ahmedabad ..	163	1003·3	—0·7	999·3	98·7	—5·1	109	15	75·4	+0·9	70	27	78·5	96·8	69·1	72·7	19·9	+2·4	16·6	62	+11	31
Dohad ..	1,093	972·1	..	969·3	98·9	—2·5	109	14	74·9	+0·8	70	19, 24	77·9	96·4	66·5	69·5	17·0	+2·8	12·4	53	+11	22
Baroda ..	115	1004·8	..	1001·0	98·6	—4·3	111	14, 15	73·1	+4·3	65	7	77·3	96·2	70·6	73·1	22·5	+6·1	17·5	72	+22	34
CENTRAL INDIA, WEST—																						
Neemuch ..	1,626	953·2	—0·8	950·2	98·5	—0·6	105	14, 15	72·0	+1·1	64	1	77·2	96·7	66·3	72·4	17·6	+4·7	17·2	57	+20	33
Indore ..	1,823	946·8	—0·9	943·4	96·9	—2·7	103	14	70·0	+0·2	62	30	75·6	95·8	64·0	67·3	15·7	+2·4	11·2	53	+16	21
Bhopal ..	1,643	952·5	—0·8	948·9	99·2	0	106	14	72·9	+1·6	64	1	79·2	97·1	65·5	67·8	15·9	+6·8	11·3	47	+20	19
Guna ..	1,571	954·2	—1·4	951·8	102·2	+0·6	107	7 days	71·1	+4·2	58	1	76·3	98·2	63·1	66·5	14·4	+4·6	9·4	48	+19	14
Gwalior ..	681	982·9	..	979·4	104·6	..	110	15, 21	78·2	..	65	1, 2, 3	87·2	102·6	64·0	67·3	9·9	..	6·9	23	..	11
Madhosagar ..	757	980·4	..	976·8	102·9	..	110	5	78·6	..	70	1, 2, 29	85·2	100·7	65·6	70·3	12·7	..	11·5	31	..	18
CENTRAL INDIA, EAST—																						
Nowgong ..	750	981·1	—1·2	977·0	102·8	+1·0	108	15, 21	72·1	+2·0	61	2	81·4	101·4	65·0	69·2	13·7	+0·6	9·8	37	0	14
Sutna ..	1,041	970·6	—1·6	967·3	102·7	+2·2	108	22	72·7	+1·2	61	1, 2	81·2	99·9	64·9	69·7	13·7	+1·9	11·1	38	+6	17
Umaria ..	1,506	955·9	..	952·8	100·5	+1·6	105	13, 19	72·2	+3·5	59	1, 2	81·0	98·0	63·3	68·2	11·9	+0·8	10·1	37	+6	19
BERAR—																						
Akola ..	925	976·6	—0·6	971·7	103·9	—1·6	109	13, 14	76·1	+1·2	67	30	82·1	98·3	68·1	70·9	17·2	+5·4	13·4	47	+16	21
Amraoti ..	1,213	967·2	—0·1	963·5	102·9	—1·4	107	12, 13	77·2	+0·8	71	30	82·1	101·3	65·8	70·9	14·3	+1·9	12·0	30	+8	14

* Data doubtful hence not entered.

Cloud amount (tenths of sky).			Rainfall inches.				Number of rainy days, (0·10" or more)s		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION
											8 hrs. I. S. T.										17 hrs. I. S. T.									
Mean 8 hours I.S.T.	Departure from normal.	Mean 17 hours 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	SE	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
																													RAJPUTANA, WEST—
0	—1·9	0·1	0	—0·30	0	..	0	—0·9	4·8	—0·7	0	3	3	0	4	11	0	0	9	0	0	0	0	0	8	6	8	8	Sri Ganganagar.
0·3	—1·4	0·5	0	—1·90	0	..	0	—0·5	4·1	—0·6	0	0	0	1	0	12	1	2	14	1	1	0	0	0	10	9	9	0	Bikaner.
0·6	..	1·4	0·02	—0·10	0·02	4	0	—0·3	10·2	..	0	0	2	0	10	14	3	0	1	1	1	1	1	4	6	11	4	1	Phalodi.
1·2	—0·9	1·8	0	—0·13	0	..	0	—0·5	3·9	—2·9	0	4	0	0	1	8	7	1	9	2	1	0	2	1	8	8	6	2	Jodhpur.
1·1	—0·5	1·3	0	—0·19	0	..	0	—0·4	6·5	+0·7	1	2	0	1	5	8	5	3	5	1	2	0	1	5	9	8	3	1	Barmer.
																													RAJPUTANA, EAST—
1·2	..	1·4	0	..	0	..	0	..	4·8	..	0	0	0	7	0	13	3	0	7	0	0	0	1	0	5	15	9	0	Sikar.
1·7	—0·1	2·0	0	—0·17	0	..	0	—0·5	5·7	+1·1	1	0	1	0	0	1	10	2	15	1	0	0	0	1	4	17	4	3	Jaipur.
1·0	—0·7	1·6	0	—0·15	0	..	0	—0·4	7·5	+3·0	0	0	0	0	0	9	10	0	11	1	0	0	1	0	14	12	2	0	Ajmer.
2·0	+0·2	2·8	0	—0·20	0	..	0	—0·5	4·6	+1·9	0	1	0	0	0	7	10	1	11	0	0	1	0	0	5	11	7	6	Kotah.
2·2	+0·8	2·6	0	—0·27	0	..	0	—0·5	5·4	+1·9	1	0	1	3	3	5	6	5	6	3	2	0	1	0	6	9	6	3	Brijnagar.
2·4	..	2·9	0·09	..	0·05	18	0	..	6·9	..	1	0	0	2	3	4	9	7	4	4	0	2	1	1	2	10	7	3	Rajsamand.
																													GUJARAT—
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Deesa*.
1·4	+0·2	1·5	0	—0·07	0	..	0	—0·1	7·0	—0·4	0	0	0	0	2	8	6	0	14	0	0	1	1	3	10	10	1	4	Bhuj.
3·0	+0·6	2·1	0	—0·03	0	..	0	0	11·5	+1·9	7	2	0	0	1	5	8	7	0	1	0	0	1	0	4	18	6	0	Dwarka.
4·0	+2·4	..	0	—0·02	0	..	0	0	7·9	—3·1	0	0	0	0	0	13	13	0	4	..	..	..	..	..	..	..	..	..	Jamnagar.
3·3	+1·0	2·8	2·20	+2·17	1·15	17	2	+1·9	9·6	+1·5	2	0	1	1	2	7	8	5	4	1	2	2	2	1	4	8	7	3	Rajkot.
4·4	+2·3	3·6	5·43	+5·43	4·91	17	2	+2·0	14·0	..	8	1	1	0	0	4	4	11	1	1	1	0	0	1	6	15	6	0	Veraval.
5·2	+3·3	4·1	5·88	+5·85	3·85	19	3	+2·0	5·8	+1·6	1	1	0	2	5	7	1	1	11	1	0	0	1	3	11	3	9	1	Surat.
3·2	+1·6	3·0	13·23	+13·13	12·07	18	3	+2·7	6·2	+0·5	2	1	0	1	4	8	10	2	2	2	4	5	5	5	5	2	2	0	Bhavnagar.
4·2	+2·8	2·9	1·04	+0·99	0·85	18	2	+1·9	3·4	—0·5	1	2	2	1	2	5	2	9	6	1	1	0	1	2	7	6	5	7	Ahmedabad.
4·2	+2·6	2·9	0·29	+0·27	0·22	18	1	+1·0	12·2	+6·5	2	2	2	3	3	6	11	0	1	4	1	1	0	1	8	14	0	1	Dohad.
4·2	+3·1	3·1	3·28	+3·28	2·81	18	2	+2·0	3·1	—0·2	1	2	0	3	1	7	4	1	11	3	3	1	1	2	5	6	4	5	Baroda.
																													CENTRAL INDIA, WEST—
3·3	+1·9	3·9	0·06	—0·06	0·03	6, 18	0	—0·3	7·3	+1·4	2	1	0	0	9	11	1	6	0	6	1	0	0	9	8	4	2	Neemuch.
2·6	+0·9	3·3	0·47	+0·34	0·35	18	2	+1·7	4·4	+0·6	2	1	0	4	0	6	11	2	4	3	1	0	2	1	7	8	3	0	Indore.
2·4	+0·7	3·4	0·19	—0·03	0·18	18	1	+0·8	5·0	+1·2	0	0	0	1	0	6	9	3	11	0	0	1	2	1	5	12	5	4	Bhopal.
1·7	+0·7	2·0	0	—0·29	0	..	0	—0·5	6·2	+2·6	0	0	0	2	0	7	3	4	14	0	1	0	3	0	8	7	6	5	Guna.
1·9	..	2·5	0	..	0	..	0	..	4·4	..	0	0	0	1	3	1	13	4	8	4	0	0	0	0	1	7	14	4	Gwalior.
1·6	..	2·5	0·02	..	0·02	28	0	..	6·9	..	0	2	0	0	2	13	10	1	2	1	0	0	1	0	4	9	15	0	Madhosagar.
																													CENTRAL INDIA, EAST—
2·0	—0·1	2·0	0·01	—0·16	0·01	6	0	—0·3	3·8	+1·5	0	2	0	0	9	8	6	1	4	0	2	0	0	1	4	17	5	1	Nowgong.
2·0	+0·1	2·3	0	—0·28	0	..	0	+0·7	4·3	+0·6	0	0	0	0	0	10	13	1	6	0	0	0	0	0	8	14	7	1	Sutna.
2·0	—0·4	2·5	0	—0·46	0	..	0	—0·9	4·0	+0·5	1	0	2	0	5	6	9	0	7	6	2	1	0	1	2	15	3	0	Umaria.
																													BERAR—
3·6	+1·7	3·1	0·14	—0·06	0·14	16	1	—0·5	6·4	+1·9	0	1	0	0	0	4	11	9	5	3	4	0	0	3	2	5	10	3	Akola.
3·6	+1·7	3·6	0·03	—0·31	0·03	16	0	—0·8	7·1	+2·5	0	4	0	1	5	19	1	0	0	0	2	0	3	0	10	0	15	0	Amraoti.

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 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
C. P., WEST—																						
Khandwa ..	1,044	972·3	—0·9	967·7	103·2	—2·2	110	14	74·7	+1·0	69	30	81·0	100·9	65·7	69·3	14·7	+3·3	10·2	41	+10	15
Hoshangabad ..	992	974·3	—0·7	969·7	101·4	—0·4	107	14	74·0	+0·5	67	14, 30	77·7	99·7	64·2	68·8	14·4	+3·8	10·2	44	+13	17
Saugor ..	1,808	946·5	—0·9	943·1	98·8	—0·9	105	14, 15	75·0	+1·4	69	1	80·4	95·7	62·1	65·0	11·6	+2·2	8·7	33	+6	15
Jubbulpore ..	1,289	963·7	—0·7	959·6	100·6	0	106	14	70·4	+2·0	61	2, 30	80·8	98·1	64·9	69·7	13·9	+1·9	11·9	39	+5	19
Seoni ..	2,027	939·9	—0·6	936·6	99·1	—0·4	103	13, 14	71·7	+1·1	67	2	82·4	96·0	65·6	69·6	14·7	+2·7	13·9	40	+7	25
Nagpur ..	1,022	972·6	—1·2	968·3	104·1	—0·4	107	4 days	78·3	+1·1	71	30	83·7	102·5	66·2	70·1	14·1	—0·8	10·5	36	+2	15
C. P., EAST—																						
Gondia ..	1,026	973·1	..	968·9	102·4	..	105	6 days	75·2	..	69	2, 30	83·4	100·9	67·2	70·6	15·5	..	11·8	41	..	18
Pendra ..	2,040	938·6	—1·3	935·3	97·8	+2·4	102	22	74·6	+3·5	66	1	84·2	95·3	64·9	67·5	13·1	+0·9	11·6	32	—2	20
Champa ..	805	979·9	..	975·1	105·6	..	109	22	77·5	..	71	2, 30	84·3	103·8	66·4	69·4	14·0	..	10·5	36	..	13
Raipur ..	970	974·5	—0·9	970·3	103·9	+1·1	107	21, 29	79·1	+2·8	72	2	87·6	102·9	69·2	70·8	16·0	+1·3	11·2	35	—2	16
Titilagarh ..	691	983·1	..	978·0	105·9	..	109	22,23,29	80·6	..	73	3, 4	85·8	103·6	71·4	72·1	19·7	..	12·9	47	..	17
Kanker ..	1,318	963·1	—1·0	958·8	102·3	+2·6	104	10 days,	75·5	+2·3	68	3	86·6	99·3	70·0	74·3	17·5	—0·1	17·6	40	—7	29
Chanda ..	634	986·4	—0·6	981·2	105·1	—0·3	108	4 days	77·9	+2·0	70	30	86·2	103·9	71·5	76·2	19·7	+2·7	17·4	47	+7	26
Jagdalpur ..	1,815	946·9	—1·5	942·1	101·8	+2·6	105	28	73·9	+3·1	66	3	83·2	98·4	70·2	70·0	20·0	—2·0	13·5	53	—6	21
KONKAN—																						
Dahanu ..	15	1008·0	..	1005·7	89·8	..	94	14,15,16	75·2	..	71	8, 30	78·8	85·3	74·9	79·3	27·8	..	31·5	82	..	75
Bombay ..	25	1007·5	—1·5	1004·9	89·0	—0·1	99	15	77·1	+1·0	72	19	80·5	85·3	75·3	77·2	27·5	+0·3	28·4	78	0	69
Alibag ..	23	1008·7	—1·0	..	88·1	+0·5	101	15	75·5	+0·2	71	26	80·0	..	74·4	..	26·6	+0·9	..	76	+4	..
Harnai ..	66	1005·8	..	1003·8	85·6	..	90	7	77·9	..	67	19	80·8	83·7	76·4	79·2	29·1	..	32·1	81	..	81
Devgad ..	117	1005·3	..	1002·5	89·9	..	93	11, 14	79·0	..	75	16, 26	81·7	85·9	76·0	78·3	28·1	..	29·6	77	..	70
Marmagao ..	202	1002·7	—0·4	999·5	88·3	+0·7	93	14	79·9	+0·9	74	16	83·8	85·4	76·7	77·5	28·3	+0·3	28·5	71	—7	69
Honavar ..	85	1007·3	..	1004·4	90·0	..	92	6, 13	76·8	..	72	20	81·0	86·6	76·5	78·5	29·1	..	29·7	80	..	70
BOMBAY, DECCAN—																						
Jalgaon ..	660	986·3	..	982·0	104·2	..	111	12,13,14	76·0	..	69	1	80·6	103·2	70·0	75·1	20·3	..	17·0	57	..	24
Malegaon ..	1,432	960·1	—0·9	956·2	100·4	—2·8	108	14	70·5	—0·4	64	26	78·7	97·4	67·5	70·5	18·0	+3·2	13·3	56	+15	23
Ahmednagar ..	2,154	936·6	—0·9	932·3	97·2	—3·1	103	13, 30	69·5	—0·3	61	25	76·7	94·6	64·7	69·2	20·6	+6·1	13·9	53	+19	27
Poona ..	1,834	947·3	—0·8	943·6	96·1	—4·8	105	11, 13	69·1	+0·8	62	27	74·4	92·5	67·5	70·1	20·1	+4·3	13·5	70	+13	33
Sholapur ..	1,570	956·2	—0·1	951·3	101·4	—2·1	107	29	71·8	—3·5	61	16, 19	79·5	99·3	67·3	70·8	17·8	+2·8	14·2	53	+12	23
Miraj ..	1,817	947·6	—1·1	943·7	98·0	—1·2	104	11	70·9	+0·9	64	27	76·5	93·9	68·9	71·1	21·1	+1·0	16·7	69	+4	32
Bijapur ..	1,950	943·3	—0·6	939·1	98·1	—2·6	104	13	73·8	—0·7	68	20	78·4	96·7	68·5	72·3	19·7	+1·1	17·0	61	+7	30
Belgaum ..	2,562	923·7	—0·7	920·7	91·4	—4·4	99	11	66·9	—0·3	63	27	71·6	85·9	67·5	70·2	21·4	+3·0	18·9	81	+14	46
Gadag ..	2,131	938	—0·5	933·7	98·1	—0·7	103	12,29,30	71·7	—0·7	65	20, 22	76·9	95·3	70·4	75·7	22·8	+1·1	22·5	73	0	40
HYDERABAD, NORTH—																						
Aurangabad ..	1,905	945·3	—0·5	941·0	96·5	—2·8	105	13	72·9	—0·8	63	10	79·1	96·0	66·9	71·6	17·7	+6·1	16·5	55	+21	39
Parbhani ..	1,350	961·9	..	956·9	102·5	..	108	13	74·8	..	69	12	80·8	99·7	71·1	74·8	22·0	..	19·2	66	..	39
Bidar ..	2,178	935·8	..	931·4	97·7	—1·1	102	20	76·7	+1·3	72	4 days	81·9	96·2	69·0	70·3	18·8	+0·5	14·6	51	+1	26
Nizamabad ..	1,350	965·9	—0·7	961·2	103·6	—1·0	108	12	78·0	+1·7	73	30	82·9	101·0	68·0	70·8	16·6	—1·3	11·1	44	—1	18
Peddapalli (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Cloud amount (tenths of sky).			Rainfall inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.									
Mean 8 hours I.S.T.	Departure from normal.	Mean 17 hours 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
																													C. P., WEST—
3·4	+1·9	3·8	0	—0·11	0	..	0	—0·3	5·1	—0·1	1	1	2	1	3	7	8	3	4	4	0	1	0	5	1	10	8	1	Khandwa.
4·8	+3·2	4·8	0·53	+0·40	0·30	19	2	+1·7	3·8	+1·3	2	1	5	0	2	10	5	1	4	3	1	1	0	2	6	10	5	2	Hoshangabad.
2·6	+0·9	3·4	0·05	—0·16	0·03	19	0	—0·5	9·4	—1·1	0	3	2	3	3	12	5	2	0	1	1	1	0	0	10	13	4	0	Saugor.
2·4	+0·8	2·9	0	—0·32	0	..	0	—0·8	4·4	+2·0	0	1	1	5	0	7	7	0	9	4	0	1	2	3	6	7	5	2	Jubbulpore.
2·9	+1·0	2·7	0·38	—0·22	0·15	18	1	—0·7	3·6	+0·2	5	2	0	3	1	2	2	5	10	8	3	0	3	1	3	6	5	1	Seoni.
2·9	+0·6	2·6	0·04	—0·56	0·03	15	0	—1·3	3·8	—1·3	8	0	1	0	4	0	7	7	3	4	1	2	1	0	2	15	4	1	Nagpur.
																													C. P., EAST—
0·9	..	1·8	0	..	0	..	0	..	3·6	..	6	8	0	3	4	3	0	4	2	7	1	1	0	1	4	5	9	2	Gondia.
1·3	—1·2	2·0	0·02	—0·95	0·01	14, 15	0	—2·1	5·3	+1·0	4	0	1	0	0	1	3	14	7	10	3	1	0	0	1	4	8	3	Pendra.
1·9	..	2·5	0	..	0	..	0	..	5·2	..	8	5	0	1	0	2	7	4	3	3	1	0	1	1	2	8	13	1	Champa.
0·9	—1·2	2·5	0	—0·64	0	..	0	—1·7	4·3	+0·2	0	2	0	1	0	2	2	3	20	4	9	0	0	0	5	1	6	5	Raipur.
1·8	..	2·5	0·24	..	0·24	20	1	..	2·8	..	1	0	0	5	7	4	2	0	11	5	2	1	1	0	1	7	9	4	Titilagarh.
4·4	+1·4	4·8	0·96	—0·21	0·85	16	2	—0·3	4·3	+0·8	0	0	0	0	0	3	6	1	20	6	0	0	0	0	2	4	13	5	Kanker.
2·5	+0·4	3·5	0	—0·78	0	..	0	—1·8	4·7	+1·8	0	1	0	4	0	4	0	11	10	0	7	1	1	0	8	0	5	8	Chanda.
1·9	—0·3	3·5	1·54	—0·24	1·28	16	2	—1·5	4·7	+1·7	0	1	0	2	0	16	0	7	4	0	3	0	2	0	11	0	11	3	Jagdalpur.
																													KONKAN—
6·7	..	4·7	4·82	..	2·36	18	5	..	8·6	..	3	1	13	8	1	1	2	1	0	6	1	0	0	1	6	13	3	0	Dahanu.
4·9	+2·0	3·6	2·52	+2·49	1·47	18	5	15·0	7·1	0	1	3	5	3	2	4	2	1	9	13	0	0	0	0	2	8	7	0	Bombay.
4·9	+2·0	..	1·94	+1·93	0·33	17,19	6	+6·0	7·3	+0·5	4	4	7	3	1	0	2	0	9	..	..	..	..	..	..	..	..	..	Alibag.
..	..	..	2·40	..	0·64	17	5	..	9·7	..	3	4	4	5	4	2	3	5	0	1	0	0	0	3	7	12	7	0	Harnai.
5·0	..	4·9	1·67	..	0·93	16	3	..	11·2	..	2	8	7	4	1	2	3	3	0	0	0	0	0	2	2	7	19	0	Devgad.
4·5	+0·2	4·0	1·13	—0·19	0·71	16	3	+2·2	9·2	+2·7	5	8	4	2	2	3	4	2	0	0	0	0	0	2	3	15	1	0	Marmagao.
5·7	..	6·1	2·10	+1·36	1·22	8	4	+2·9	2·4	..	0	2	9	2	2	0	2	0	13	0	0	0	1	2	2	12	11	2	Honavar.
																													BOMBAY, DECCAN—
3·7	..	3·8	0·09	+0·02	0·09	16	0	—0·2	8·7	..	0	0	0	2	5	5	9	6	3	1	1	0	1	4	2	10	11	0	Jalgaon.
2·9	+1·5	4·9	0·23	+0·11	0·16	15	1	+0·7	6·1	—0·2	0	0	0	1	2	4	10	6	7	2	4	3	0	2	3	10	5	1	Malegaon.
2·6	+1·1	4·2	2·12	+1·72	1·10	16	5	+3·9	5·9	—0·2	0	0	0	0	0	3	0	26	1	0	5	0	3	0	4	0	18	0	Ahmednagar.
4·1	+2·4	4·8	1·16	+0·57	0·73	15	3	+1·7	3·1	—3·3	0	0	1	1	1	2	10	0	15	0	0	2	2	2	2	14	1	7	Poona.
3·7	+1·7	4·3	0·35	— 0·18	0·14	5	2	+0·8	7·3	+0·9	2	4	3	4	0	3	3	10	1	7	4	1	5	1	8	2	1	1	Sholapur.
3·6	+1·4	5·2	0·80	—1·19	0·80	4	1	—2·1	7·4	+1·4	4	1	2	1	2	4	5	5	6	0	3	5	3	3	2	12	2	0	Miraj.
4·0	+2·0	4·9	0·35	—0·50	0·25	16	2	+0·2	6·0	+1·4	7	0	3	1	3	3	8	5	0	6	1	1	4	4	1	6	6	1	Bijapur.
2·7	+0·4	4·0	1·20	—0·55	0·43	7	5	+1·7	4·5	+0·9	6	0	3	1	3	8	9	0	0	3	0	2	0	2	16	7	0	0	Belgaum.
4·5	+2·2	4·9	1·10	—0·36	0·96	15	2	—0·8	7·6	+1·5	1	3	2	0	0	11	10	3	0	1	7	7	1	0	5	7	2	0	Gadag.
																													HYDERABAD, NORTH—
2·5	+0·8	3·2	0·76	+0·52	0·42	3	2	+1·4	9·0	+1·5	4	2	3	4	3	2	7	3	2	4	4	0	1	1	2	10	6	2	Aurangabad.
3·6	..	4·4	1·00	+0·58	0·66	16	3	+1·8	..	..	0	0	0	1	2	3	16	6	2	2	2	1	1	1	3	7	11	2	Parbhani.
2·9	+0·6	4·3	0·11	—0·96	0·11	6	1	—1·5	8·5	+2·1	4	0	0	1		5	7	11	0	4	4	5	3	1	7	3	3	0	Bidar.
2·2	—0·2	2·6	0·07	—0·78	0·07	16	0	—2·0	4·0	+0·8	1	1	1	1	2	5	9	4	6	5	3	2	5	1	7	2	4	1	Nizamabad.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Peddapalli. (R)

R—Register not received.

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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
HYDERABAD, SOUTH—																						
Gulbarga ..	1,503	958·1	0	952·9	101·4	—2·0	107	11	76·8	+0·5	72	19	82·6	99·1	69·6	71·1	19·4	+1·7	14·6	53	+5	25
Raichur ..	1,311	964·4	—0·2	959·7	101·3	—1·2	106	29	78·9	+0·1	73	20	82·3	100·1	72·1	75·1	22·6	+1·3	18·4	60	+6	28
Hyderabad (Begumpet)	1,778	948·9	—0·1	944·4	101·0	+0·5	105	18	77·9	+2·8	75	2, 10,16	82·5	98·7	70·6	72·8	20·7	—0·7	16·9	55	—2	27
Hanamkonda ..	881	978·2	—1·1	973·1	104·0	+3·3	108	28	80·9	+3·8	77	2	85·4	102·3	72·3	71·9	21·3	—1·4	12·9	53	—8	19
Khammameth	67	995·9	..	986·6	105·4	..	111	28	81·9	..	75	26	86·9	104·2	75·5	76·3	25·4	..	18·1	61	..	25
MYSORE—																						
Chitaldrug ..	2,405	928·8	—0·6	924·5	95·6	—1·7	101	29	72·1	—0·8	66	20	75·2	94·0	69·3	70·3	22·1	+1·2	15·7	74	+9	29
Hassan ..	3,149	905·3	..	902·2	89·4	—3·0	95	28, 29	66·8	—0·5	61	22	70·4	85·6	66·8	70·2	21·0	—0·1	18·9	83	+9	46
Bangalore ..	3,021	909·2	—0·7	905·5	89·1 (n)	—3·4	93	6, 7, 9	70·3	+1·2	68	16, 22	74·0	89·8	68·0	67·3	20·7	—1·0	12·7	73	+1	30
Mysore ..	2,518	925·7	—0·6	921·6	91·4	—3·2	97	29	69·5	—0·9	65	22	72·7	90·0	68·8	69·2	23·5	—0·3	15·9	82	+7	35
MALABAR—																						
Mangalore ..	72	1007·4	—0·4	1004·4	89·0	—2·2	91	6	77·5	—1·0	74	20	81·7	85·9	76·5	78·5	28·8	+0·6	30·0	78	+4	70
Calicut ..	27	1008·4	—0·8	1005·5	89·1	—1·9	92	26, 27	77·5	—0·9	73	8	80·4	87·8	76·6	79·7	29·5	—0·2	31·3	83	+3	70
Palghat ..	319	998·7	..	995·0	92·7	..	98	29	76·4	..	71	2	80·7	88·1	76·1	77·3	28·9	..	27·1	82	..	61
Cochin ..	10	1009·5	—0·5	1006·5	86·8	—1·8	89	5, 14,16	78·3	—0·4	75	2 ,3, 12	82·2	85·0	77·5	79 2	30·1	+0·1	31·4	80	+2	76
Alleppey ..	12	1009·2	..	1006·4	89·8	..	93	27	78·4	..	73	12	82·2	86·3	77·9	79·4	30·7	..	31·2	82	..	73
Trivandrum ..	211	1002·4	—0·4	999·5	88·0	..	92	9, 27	76·5 (b)	..	73	12	79·0	84·9	76·0	78·0	29·3	—0·2	29·6	87	+5	72
Nagercoil ..	195	1002·6	..	999·7	90·6	..	97	27	78·2	..	74	12	80·9	86·0	75·7	77·5	28·0	..	28·3	78	..	67
MADRAS, SOUTH EAST—																						
Pamban ..	37	1007·5	—0·9	1004·3	89·3	—1·8	93	8	80·8	+1·1	73	3	84·3	85·5	78·9	79·1	31·3	0	31·1	78	—1	74
Madura ..	437	993·9	—1·1	990·0	95·0	—2·8	103	28	77·7	+1·0	72	3	82·6	92·2	76·9	79·0	29·0	+1·1	27·8	77	+6	56
Negapatam ..	31	1007·8	—1·1	1004·0	93·6	+1·6	102	27	80·2	+0·5	76	2, 16	84·4	88·6	78·7	80·1	30·9	+0·2	31·2	77	+1	69
Trichinopoly* ..	295	999·3	—0·8	995·0	96·4	—4·2	103	27, 28	78·0	0	74	2, 3	82·6	94·3	76·0	77·8	27·7	+0·1	25·0	73	+3	48
Coimbatore ..	1,341	963·7	—0·8	959·9	91·2	—5·3	95	27, 29	72·9	—0·7	70	22	76·6	87·8	72·9	75·4	25·9	—1·1	24·4	83	+3	55
Salem ..	913	977·8	—1·1	973·0	97·6	—2·6	104	29	77·4	+0·9	73	15	80·0	94·4	74·1	74·8	26·1	—1·6	23·6	75	+1	38
Cuddalore ..	39	1007·3	—1·4	1003·5	94·3	+2·1	105	27	80·3	+2·6	76	2	83·5	88·1	77·7	80·7	29·8	—1·4	32·4	77	—1	72
Vellore ..	703	984·7	—0·9	980·2	98·9	+0·1	107	28	79·1	+2·9	74	6	83·7	97·0	76·8	77·8	28·4	+1·4	23·8	72	—1	41
Madras ..	51	1006·7	—1·3	1002·9	96·7	+1·2	105	27	80·5	+2·4	77	14	85·4	89·7	79·4	80·1	31·6	+2·0	30·7	76	+2	65
Arogyavaram ..	2,299	932·3	..	928·3	94·3	..	100	29	73·9	..	69	2, 6	79·0	91·6	69·6	69·7	20·9	..	15·9	63	..	33
MADRAS, DECCAN—																						
Cuddapah ..	428	994·5	—0·1	988·7	104·0	—0·8	110	29	81·7	+0·8	76	16	88·8	100·4	74·4	76·7	22·5	—3·1	20·4	49	—9	32
Bellary ..	1,473	959·0	—0·3	954·0	100·5	—2·2	105	29	77·8	+0·4	72	21	81·5	98·9	69·9	71·5	19·8	0	13·9	54	+1	22
Kurnool ..	923	977·4	—0·2	971·9	102·3	—1·3	108	29	78·3	—0·7	73	16, 20	84·2	101·4	72·0	73·0	21·3	—0·3	14·8	54	0	22
Rentichintala ..	348	996·1	..	990·9	105·5	+4·0	111	28	82·2	+3·0	76	2	87·3	103·5	75·4	75·3	24·6	+0·3	17·1	57	—3	24
Anantapur ..	1,148	969·7	..	964·1	100·9	..	106	29	77·9	..	70	1	82·3	99·6	71·8	72·6	21·9	..	15·1	58	..	23
MADRAS COAST, NORTH—																						
Nellore ..	66	1005·4	—1·7	1001·5	101·3	+1·9	110	27,28,29	80·6	+3·2	77	1	86·6	95·0	78·1	80·2	29·0	—0·7	28·4	68	—6	53
Ongole ..	38	1006·5	..	1002·2	99·7	..	110	23, 27	80·9	..	76	2	86·6	94·8	78·5	80·4	29·6	..	29·0	70	..	55
Masulipatam ..	10	1007·8	—2·0	1003·6	96·5	+2·3	108	4 days	81·1	+3·4	76	1, 2	86·1	92·2	79·7	80·3	31·8	—0·1	29·9	76	—3	60
Cocanada ..	26	1007·7	—1·4	1003·0	96·2	+0·1	109	25	80·8	+2·3	77	2	85·9	92·4	79·9	80·4	32·2	+1·3	30·6	76	0	60
Vizagapatam	126	1003·6	—1·7	999·9	90·6	+1·0	101	24	81·0	+2·3	74	21	85·9	87·3	78·0	80·3	29·2	+1·0	32·1	70	—2	73
Calingapatam ..	19	1007·0	—1·7	1003·1	93·4	+0·9	107	28	80·7	+2·5	76	2	83·2	88·2	78·7	80·7	31·5	+1·1	33·3	81	+6	71

(n)—mean of 17 days. (b) mean of 29 days.

* Pressure and cloud observation from aerodrome site (Ht. 295 ft.) other observations from cantonment

Cloud amount (tenths of sky).			Rainfall inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I. S. T.										17 hrs. I. S. T.									
Mean 8 hours I.S.T.	Departure from normal.	Mean 17 hours I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hrs.	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
																													HYDERABAD, SOUTH—
2·2	+0·4	3·3	0·62	—0·21	0·51	16	1	—1·1	9·4	+3·0	4	5	1	3	2	2	5	3	5	4	4	3	5	2	5	4	3	0	Gulbarga.
2·8	+0·7	4·8	0·42	—0·21	0·24	18	2	+0·6	8·0	+2·0	1	0	1	7	2	3	4	12	0	0	4	5	9	1	2	0	9	0	Raichur.
2·3	—0·3	2·9	0·05	—1·12	0·03	16	0	—1·9	7·3	+2·7	2	1	0	3	0	1	9	5	9	3	4	3	7	0	3	5	5	0	Hyderabad (Begumpet.)
2·5	—0·8	2·6	0	—0·91	0	..	0	—1·6	7·3	+1·4	3	0	0	7	8	2	4	6	0	4	5	1	4	5	1	5	3	2	Hanamkonda.
2·7	..	2·5	0	..	0	..	0	..	5·7	..	0	0	0	16	2	0	5	4	3	2	0	0	14	0	2	5	7	0	Khammameth.
																													MYSORE—
5·1	+2·1	5·6	0·02	—0·95	0·02	10	0	—2·0	7·0	+2·7	0	0	3	2	0	10	15	0	0	1	6	6	4	0	5	5	2	1	Chitaldrug.
5·0	—0·4	5·4	1·45	—0·75	0·58	5	3	—1·2	6·6	+2·3	0	1	3	6	0	8	7	5	0	0	2	2	6	0	11	5	4	0	Hassan.
4·8	+1·5	4·4	0·32	—1·29	0·24	25	1	—1·6	7·1	+2·8	0	0	2	3	2	1	13	5	4	4	4	8	4	1	6	2	1	0	Bangalore.
6·9	+2·7	7·4	1·47	—0·83	0·73	10	3	—1·6	6·7	+1·9	0	3	1	2	0	7	14	0	3	1	5	8	2	0	3	10	0	1	Mysore.
																													MALABAR—
5·8	+1·4	5·8	3·03	+1·50	1·68	6	5	+2·7	5·9	+0·9	4	6	11	5	0	0	0	1	3	1	0	0	1	1	2	10	15	0	Mangalore.
5·3	+0·4	6·0	5·88	+2·30	2·54	8	8	+3·8	8·5	+1·8	4	17	7	1	1	0	0	0	0	1	0	0	0	1	6	13	9	0	Calicut.
4·3	..	4·2 (b)	3·12	..	0·81	1	6	..	6·0	..	0	1	5	3	0	3	17	1	0	0	0	2	1	0	4	21	2	0	Palghat.
6·4	+1·7	5·9	6·61	+1·67	1·99	2	7	+0·3	7·5	+2·2	1	10	10	3	0	0	1	4	1	1	1	0		0	1	13	10	1	Cochin.
7·4	..	6·1	9·78	..	4·60	12	9	..	7·7	..	2	8	9	4	0	0	1	6	0	0	0	0	1	2	3	8	16	0	Alleppey.
4·6	—0·3	4·3	3·89	—0·66	1·05	12	7	+0·1	5·9	+1·6	15	4	0	1	1	0	0	7	2	0	1	0	0	1	4	12	11	1	Trivandrum.
5·4	..	5·7	3·95	..	1·90	2	5	..	7·9	..	5	1	0	0	0	0	5	17	2	0	1	0	0	0	11	14	1	3	Nagercoil.
																													MADRAS, SOUTH-EAST—
5·8	+2·3	5·0	7·02	+5·18	2·64	11	6	+2·8	7·9	+1·8	3	0	2	4	10	7	4	6	0	0	1	2	3	19	4	1	0	0	Pamban.
5·1	0	5·2	10·30	+8·14	4·51	12	7	+3·9	2·8	—0·1	3	4	1	0	0	0	4	8	10	0	3	4	4	4	3	1	0	11	Madura.
6·1	+1·4	5·3	1·65	+0·54	0·78	14	4	+2·7	6·4	+0·1	0	1	2	2	2	9	9	2	3	0	2	3	7	8	7	3	0	0	Negapatam.
4·8	+1·0	5·0	3·61	+1·81	1·45	13	5	+3·0	3·9	+0·4	1	4	0	1	1	3	14	3	3	0	1	2	3	5	11	5	1	2	Trichinopoly.*
4·5	+0·6	4·6	3·56	+1·98	1·55	13	7	+3·8	6·0	+3·4	1	3	2	1	10	10	1	0	2	0	1	2	3	12	12	0	0	0	Coimbatore.
4·8	+1·4	5·7	0·45	—1·48	0·43	13	1	—2·6	5·0	+1·1	0	3	7	0	4	11	2	0	3	0	0	6	4	7	9	1	0	3	Salem.
5·5	+1·3	5·5	0·43	—0·55	0·16	12	3	+1·9	7·4	+2·3	0	1	1	2	4	16	2	1	3	0	1	3	24	2	0	0	0	0	Cuddalore.
4·9	+2·1	6·1	0·33	—0·67	0·24	14	1	—0·5	4·9	+1·2	1	3	1	0	3	4	2	8	8	2	5	4	8	2	3	2	0	4	Vellore.
4·9	+0·7	3·7	1·03	+0·42	0·87	14	2	+1·1	11·3	+0·2	0	1	1	5	6	16	1	0	0	0	0	4	25	0	1	0	0	0	Madras.
5·3	..	5·6	0·33	..	0·17	18	2	..	5·4	..	4	0	1	4	8	0	0	11	2	6	3	8	9	0	0	0	3	1	Arogyavaram.
																													MADRAS, DECCAN—
2·3	—0·5	3·5	0·01	—0·56	0·01	16	0	—1·1	5·5	—1·5	0	0	3	4	0	0	13	0	10	0	1	13	4	0	0	1	4	7	Cuddapah.
5·9	+3·3	6·0	0·31	—0·53	0·31	15	1	—0·9	4·4	+0·5	1	0	2	0	0	0	1	13	13	2	1	9	3	2	5	1	2	5	Bellary.
3·6	+1·2	4·0	1·10	+0·43	0·93	16	2	+0·5	5·4	+0·7	2	1	3	3	3	3	5	8	2	2	3	9	3	1	1	3	5	3	Kurnool.
1·8	—3·7	1·6	0·06	—1·13	0·06	19	0	—2·7	6·4	—0·2	0	0	0	8	6	6	7	2	1	1	1	8	5	2	6	2	3	2	Rentichintala.
4·2	..	4·3	0·61	—0·03	0·39	9	2	+0·7	7·0	..	0	0	1	4	2	5	13	2	3	2	5	4	4	0	2	3	2	8	Anantapur.
																													MADRAS COAST, NORTH—
4·9	+1·1	4·7	0·20	—0·28	0·15	14	1	+0·4	5·8	+0·2	1	0	2	6	6	2	6	2	5	0	0	10	15	1	0	3	1	0	Nellore.
4·3	..	2·8	0	..	0	..	0	..	6·3	..	1	1	0	12	4	4	7	0	1	0	0	3	21	1	1	3	1	0	Ongole.
3·7	—0·6	2·2	0·07	—0·62	0·07	19	0	—0·9	7·4	+1·6	1	1	2	9	5	4	3	2	3	1	0	0	15	11	1	1	1	0	Masulipatam.
3·7	—1·4	1·7	0·70	+0·06	0·70	19	1	0	7·4	+2·3	0	1	0	4	0	21	2	2	0	0	0	0	12	5	11	1	1	0	Cocanada.
3·5	—0·9	3·0	0·09	—0·62	0·09	18	0	—1·3	5·8	+0·3	2	1	0	0	3	5	12	3	0	0	1	0	1	20	8	0	0	0	Visagapatam.
5·2	+1·9	5·1	0	—0·76	0	..	0	—1·5	10·7	+2·4	0	0	0	0	2	14	13	1	0	0	0	0	0	14	16	0	0	0	Calingapatam

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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN—																						
Shillong ..	4,921	848·3	—1·1	845·5	75·8	+1·7	80	9	59·1	+2·1	48	30	68·4	66·1	58·9	59·1	13·2	+0·6	14·4	56	—1	58
Cherrapunji ..	4,309	868·1	—0·5	864·6	72·4	+1·1	76	3, 4	60·6	+1·7	54	30	66·4	68·3	62·4	63·3	17·7	+1·4	17·9	80	+3	77
Aijal ..	3,599	890·3	..	886·1	83·6	..	90	14	61·7	..	53	30	69·4	76·6	63·9	66·9	18·1	..	18·7	74	..	62
Darjiling ..	7,432	774·8	—1·0	772·7	63·4	+2·2	69	27	50·7	+1·9	42	30	56·5	55·8	52·7	54·1	12·1	+1·0	13·6	80	+5	90
Kalimpong ..	3,965	878·4	—0·2	876·6	72·4	—1·7	77	28, 29	57·5	—2·0	50	6	61·5	65·1	58·9	60·7	16·0	+1·5	16·3	85	+17	77
Katmandu ..	4,388	865·9	..	862·7	85·7	+1·8	91	26, 28	53·6	+1·1	47	12	59·6	80·9	55·6	65·7	13·5	+2·7	15·7	78	+20	47
Muktesar ..	7,592	770·8	—1·6	769·7	71·5	—1·6	77	16, 18	54·0	+3·7	38	29	58·1	67·3	43·8	49·5	4·6	—1·4	5·7	30	—10	28
Mussooree ..	6,699	794·9	..	794·6	73·8	+4·6	81	14, 15	56·6	+3·8	41	29	65·6	68·0	~~43·4~~ 48·4	49·8	6·4	—1·8	5·7	27	—20	25
Simla ..	7,224	780·8	—0·4	780·0	69·6	+3·7	77	20	55·1	+4·5	39	29	62·4	67·1	45·6	49·0	4·3	—1·6	5·4	24	+12	25
Murree ..	7,113	783·7	—0·1	782·9	69·3	+4·0	80	20	52·8	+5·9	43	8	58·3	67·8	45·0	50·5	5·5	—1·5	6·4	34	—16	26
Wana ..	4,456	860·0	..	857·2	83·4	+6·7	93	19, 20	54·1	+4·5	47	1	60·4	81·8	49·5	57·7	7·5	—1·0	6·7	45	—15	20
Cherat ..	4,272	866·5	—2·0	865·2	81·2	+9·1	92	20	63·1	+7·3	55	27	66·4	79·9	51·6	56·9	7·1	—1·7	6·6	32	—23	23
Parachinar ..	5,673	825·5	—0·1	824·1	75·8	+7·1	86	17	51·3	+4·4	44	27	55·3	71·2	45·3	56·6	6·6	—1·6	10·3	49	—10	30
Drosh ..	4,806	854·2	—0·4	850·6	75·4	+6·5	87	18	53·6	+5·2	47	1	56·1	71·7	46·8	52·7	7·2	—1·5	6·5	48	—21	26
Abu ..	3,945	880·0	—0·1	878·3	84·9	+0·6	93	15	67·9	—0·4	59	22	72·4	83·4	56·7	61·4	9·3	+0·9	9·7	37	+6	26
Pachmarhi ..	3,528	893·4	—0·3	890·6	90·0	—1·9	95	14	68·4	0·4	60	1, 30	74·5	89·0	60·8	64·0	12·6	+2·4	10·2	45	+13	24
Mahabaleshwar	4,534	862·3	—1·3	860·7	80·1	—5·3	92	12	64·0	—2·1	57	25, [illegible]	66·2	75·2	59·1	65·7	14·2	+4·1	17·7	66	+27	62
Mercara ..	3,781	884·7	—1·2	882·7	77·7	—6·0	84	12	63·2	—0·7	60	1, 4, 22	66·6	76·7	64·4	69·8	19·8	+0·3	22·1	89	+9	71
Ootacamund	7,364	780·3	—0·3	778·7	70·4	—1·1	75	6, 7, 29	50·5	—1·0	45	16	55·4	65·3	52·8	58·5	12·7	+2·1	14·3	83	+23	69
Coonoor ..	5,730	826·5	..	..	73·6	—1·0	79	9, 29	56·6	+0·1	52	4	66·1	..	59·2	..	14·7	+0·2	..	69	+3	..
Kodaikanal ..	7,688	771·5	—0·1	770·0	65·9	—2·3	71	30	54·3	+1·2	50	9	58·3	60·9	52·9	56·8	11·7	+1·1	14·3	72	+11	80
CEYLON—																						
Colombo ..	24	1009·2	—0·4	1006·1	87·6	—1·2	89	8, 15, 28	77·4	+1·5	73	2,7	80·5	84·7	76·5	77·7	29·3	—0·6	29·3	88	—7	72
Trincomalee ..	24	1008·0	—0·5	1003·9	89·4	—2·3	96	27	78·7	+1·1	75	12	80·2	87·7	74·9	79·2	27·2	—2·7	30·2	77	—8	67
Hambantota ..	61	1007·1	—0·8	1003·6	88·6	+0·8	92	20	76·7	+0·6	73	1 1, 12	79·2	83·8	76·9	78·8	30·5	+1·5	31·4	90	+1	79
Mannar ..	12	1008·7	..	1005·6	88·2	..	90	5, 8, 9	79·7	..	75	12	82·3	85·5	78·3	79·5	31·2	..	31·7	83	..	75
AFGHANISTAN—																						
Jalalabad ..	1,950	940·7	..	937·7	89·9	..	101	18	59·6	..	53	1	65·7	86·7	60·5	74·8	16·2	..	..	76	..	57
Kabul ..	5,955	820·3	..	818·4	72·4	+7·1	82	17	45·2	+2·5	33	27	52·2	68·6	43·9	52·0	6·9	—0·3	7·3	52	—8	32
Kandahar ..	3,462	900·3	..	897·9	84·2	..	97	18	48·0	..	41	20, 22	53·6	82·1	48·2	62·4	9·3	..	24·6	67	..	30

Cloud amount (tenths of sky)			Rainfall inches				Number of rainy days, (0·10″ or more)		Wind velocity, miles per hour		Wind direction—Number of winds from—																	STATION
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hours I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hrs	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
																													HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN.—
2·8	—1·2	4·0	6·33	+1·23	1·68	22	8	—1·2	7·0	+1·8	3	0	0	0	6	15	0	1	5	4	0	0	0	3	16	1	3	3	Shillong.
5·9	—0·7	3·6	47·30	+21·67	13·00	8	21	+5·0	8·8	+2·2	0	2	1	0	10	14	3	0	0	2	1	1	0	4	18	3	0	1	Cherrapunji.
4·5	..	3·1	5·55	..	1·95	30	10	..	7·4	..	1	1	4	0	1	17	1	1	4	0	0	0	1	0	27	1	0	1	Aijal.
7·0	+2·1	6·9 (d)	2·46	—1·68	0·62	16	8	+0·5	7·1	+1·4	1	2	11	3	0	3	7	1	2	0	0	1	1	2	4	16	3	0	Darjiling.
3·6	+0·3	6·1	2·45	—0·28	0·68	14	6	+0·2	6·8	—1·1	3	1	0	3	1	0	1	7	14	1	0	0	15	3	0	0	8	3	Kalimpong.
2·6	+1·0	3·9	1·18	+0·17	0·65	19	4	+0·8	1·1	—0·2	0	0	1	0	0	0	1	0	28	3	0	1	0	0	0	11	0	15	Katmandu.
0·9	—1·9	0·9	0·20	—1·21	0·20	29	1	—2·3	9·0	+2·3	0	0	2	1	0	1	14	9	3	0	0	1	0	0	9	17	3	0	Muktesar.
0·7	—2·2	1·2	0·42	—0·91	0·23	29	2	—1·8	3·2	—2·2	5	9	3	3	3	0	0	0	7	0	2	0	4	12	9	1	1	1	Mussooree.
0·4	—3·0	1·4	0·27	—1·54	0·14	29	2	—2·1	2·5	—1·4	6	7	0	3	4	1	0	0	9	4	1	0	2	10	7	1	3	2	Simla.
2·7	—1·2	4·3	0·82	—3·31	0·76	8	1	—6·1	6·2	+0·2	2	7	7	2	0	0	5	4	3	0	2	3	4	0	1	8	11	1	Murree.
0·4	—2·4	2·2	0·17	—1·20	0·15	6	1	—2·8	5·4	..	1	0	0	0	0	0	2	2	25	1	2	4	5	7	3	4	3	1	Wana.
1·2	—2·2	1·5	0·09	—2·69	0·05	8	0	—4·7	11·5	+3·3	24	0	1	0	2	0	2	0	1	17	1	1	0	8	0	0	2	1	Cherat.
1·9	—1·7	5·6	0·38	—3·61	0·15	4	1	—7·7	4·6	+1·8	16	1	0	1	0	1	1	2	8	1	1	5	9	5	1	7	0	1	Parachinar.
3·8	—0·1	6·5	0·34	—3·78	0·14	8	1	—7·1	5·0	+2·0	0	1	4	6	0	2	1	0	16	2	3	2	3	0	7	5	3	5	Drosh.
2·2	+0·3	2·4	0·05	—0·12	0·05	18	0	—0·5	6·0	+0·1	3	2	0	0	5	4	4	1	11	1	2	0	2	4	10	5	2	4	Abu.
4·4	+2·2	4·9	0·30	—0·07	0·24	18	1	+0·1	3·0	—1·2	2	2	1	0	2	5	10	4	4	2	0	0	0	2	2	15	7	2	Pachmarhi.
5·0	+2·9	5·1	7·14	+5·96	2·11	18	9	+7·5	5·1	—1·9	0	9	3	2	0	10	0	6	0	0	1	0	2	1	12	0	14	0	Mahabaleshwar.
4·6	0	4·9	3·07	+0·51	1·02	3	6	+0·9	5·9	+2·7	0	4	5	0	1	0	5	5	10	0	1	2	2	2	0	9	9	5	Mercara.
4·1	—0·4	6·5	9·33	+6·29	3·31	13	10	+3·5	3·9	+0·6	3	7	4	2	3	0	0	0	11	8	8	6	3	2	0	1	0	2	Ootacamund.
6·6	+1·9	..	10·74	+4·87	5·09	13	7	+0·1	4·5	+1·3	3	0	4	1	3	0	0	1	18	..	..	..	..	..	..	..	..	..	Coonoor.
5·0	+1·7	6·8	14·28	+9·46	3·44	13	8	+0·3	9·9	+2·4	3	5	4	7	2	0	0	4	5	5	6	5	9	2	0	0	0	3	Kodaikanal.
																													CEYLON—
6·7	+0·6	7·5	5·48	—3·95	1·20	6	11	+0·1	..	..	0	0	5	11	3	5	6	0	0	1	1	0	0	1	12	15	0	0	Colombo.
5·3	+1·4	5·6	4·46	+2·44	1·95	11	5	+1·7	..	..	0	3	0	1	6	16	2	0	2	0	2	9	5	0	13	1	0	0	Trincomalee.
7·1	+2·7	7·4	5·33	+1·56	3·28	11	3	—3·2	..	..	4	0	0	0	1	17	2	5	1	0	1	0	1	9	17	1	1	0	Hambantota.
5·2	..	5·3	3·19	..	1·41	12	5	..	..	..	0	0	4	4	14	8	0	0	0	0	1	0	1	14	10	3	1	0	Mannar.
																													AFGHANISTAN—
2·6	..	4·7	0·05	..	0·05	30	0	..	3·6	..	1	0	0	1	0	10	12	1	5	0	5	3	1	1	6	5	1	8	Jalalabad.
2·4	—1·3	4·8	0·08	—3·22	0·04	3,6	0	—6·3	—4·2	+1·9	2	1	0	2	4	6	6	5	4	6	12	0	4	1	1	0	3	3	Kabul.
0·8	..	1·4	0·01	..	0·01	4	0	..	2·1	..	0	0	0	0	0	0	0	1	29	0	0	0	0	0	19	1	2	8	Kandahar.

(d) Mean of 27 days.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED A

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 4 hrs. G.M.T.	Departure from normal	Mean 12 hrs. G.M.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 4 hrs. G.M.T.	Mean 12 hrs. G.M.T.	Mean 4 hrs. G.M.T.	Mean 12 hrs. G.M.T.	Mean 4 hrs. G.M.T.	Departure from normal	Mean 12 hrs. G.M.T.	Mean 4 hrs. G.M.T.	Departure from normal	Mean 12 hrs. G.M.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
IRAN—																						
Charbar ..	25	1011·6	..	1011·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jask	13	1008·7	..	1006·6	87·0	+0·4	93	18, 20	73·5	+1·1	67	10	79·3	85·3	70·5	76·4	21·2	—1·5	26·9	62	—6	66
Bandar Abbas	29	1008·7	..	1005·5	92·4	..	98	18	70·5	..	65	9	80·7	90·5	69·4	74·1	19·2	..	21·7	56	..	45
Bushire ..	131	1006·8	..	1005·3	88·6	..	99	15, 27	67·7	..	61	1, 8	78·9	83·0	68·0	71·2	18·4	..	20·5	55	..	55
Ispahan (R) ..	5,817	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Meshed ..	3,104	898·9	..	896·6	74·3	+5·0	93	16	43·4	—1·5	31	20	59·8	70·0	49·8	54·8	8·3	—0·9	8·7	48	—17	38
Seistan ..	..	957·3	..	953·1	..	..	..	..	59·2	+1·1	49	21	69·8	86·3	56·3	62·1	10·0	—3·3	9·5	40	—20	22
ARABIA—																						
Bahrain ..	8	1009·4	..	1008·1	86·4	+3·6	96	28	72·4	+3·0	65	8	73·1	84·1	72·0	77·1	24·6	+3·3	28·6	78	+3	72
Muscat ..	15	1008·8	..	1006·8	88·4	+0·1	97	24, 30	79·6	+0·9	74	5, 8	84·2	84·5	76·7	79·9	28·0	+5·8	32·9	71	+9	81
Sharjah ..	25	1009·3	..	1007·6	89·5	+4·2	109	28	65·0	+0·7	57	9	78·6	85·3	67·3	75·4	17·8	+0·1	25·1	69	+3	62

(R) Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2·30 HRS. G.M.T.) AT 4TH CLASS STATIONS—APRIL 1947

STATION	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 8 hrs. I.S.T. °F	Mean wet bulb temperature 8 hrs. I.S.T. °F	Vapour pressure mbs.		Relative humidity %		Mean cloud amount 8 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 8 hrs. I.S.T.	Departure from normal	Mean 8 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 8 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	94·4	+4·6	98	22, 27	65·9	—0·4	59	30	79·7	70·9	21·7	—0·2	62	—12	..	5·38	+1·77	2·00	30	5	—2·2	..	..
BENGAL—																							
Pabna	100·3	+3·5	106	7	75·3	+3·7	65	2, 3	83·6	77·8	29·8	+2·3	77	+2	..	3·19	+0·14	1·72	23	4	—0·5	..	..
KASHMIR—																							
Jammu	98·4	+8·4	107	20	73·9	+5·0	62	1	80·9	61·1	9·6	—2·1	28	—15	1·4	0	—1·29	0	..	0	—2·6	N2E	..
Kargil	61·5	+3·8	73	20	42·6	+5·7	34	1	45·5	41·2	7·2	+1·3	72	+4	2·0	0·67	—1·03	0·30	21	3	—0·6	N17E	..
MYSORE—																							
Balehonnur ..	85·8	—1·5	92	29	65·8	—0·3	58	30	70·1	68·0	22·6	+0·3	88	—1	..	1·56	—1·99	0·71	15	4	—2·5	..	..
TIBET—																							
Yatung (Chumbi) ..	58·3	+1·2	65	27	36·2	+1·3	29	5 days	48·1	47·2	10·7	+2·9	96	+11	4·4	1·92	—1·99	0·52	29	7	—3·4	..	
IRAN—																							
Zahidan	80·3	+2·2	95	19	52·8	+2·7	40	21	69·3	50·1	5·6	—7·4	21	—45	1·2	0·16	—0·05	0·08	10	0	—1·1	N32E	7·7

Cloud amount (tenths of sky)			Rainfall inches				Number of rainy days, (0·10″ or more)		Wind velocity, miles per hour		Wind direction—Number of winds from :—																	STATION
											4 hrs. G. M. T.									12 hrs. G. M. T.								
Mean 4 hrs. G.M.T.	Departure from normal	Mean 12 hours G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hrs	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
																													IRAN—
(b) 0	—1·3	0	0	—0·17	0	..	0	—0·5	..	..	2	7	8	0	0	0	4	8	0	0	0	0	0	9	15	4	1	0	Charbar.
0·8	—1·0	0·1	0	—0·24	0	..	0	—0·5	8·3	0	2	7	9	1	0	0	8	3	0	0	0	0	1	2	17	10	0	0	Jask.
0·9	..	1·2	0	..	0	..	0	..	..	..	3	13	0	0	1	1	0	4	8	0	0	0	9	16	5	0	0	0	Bandar Abbas.
1·5	..	2·5	0	..	0	..	0	..	8·1	..	2	5	4	3	1	0	3	12	0	0	0	0	0	1	14	8	6	1	Bushire.
																													Ispahan (R).
3·6	—1·1	4·6	0·07	—1·80	0·07	19	0	—4·9	1·4	—0·5	4	0	2	0	2	1	0	0	21	1	1	5	2	1	2	1	0	17	Meshod.
2·1	+0·2	3·2	0	—0·13	0	..	0	—0·6	7·4	+1·1	0	0	0	0	0	0	0	20	10	0	0	0	0	0	0	0	12	18	Seistan.
																													ARABIA—
1·5	—1·9	1·1	0	—0·46	0	..	0	—1·0	5·8	—2·8	4	0	2	2	0	3	6	5	8	14	7	5	1	0	0	0	3	0	Bahrain.
0·1	—1·5	0	0	—0·34	0	..	0	—0·8	4·6	+0·7	1	0	0	0	0	0	8	11	10	0	0	1	0	1	0	4	4	20	Muscat.
0·2	—2·0	0	0	—0·08	0	..	0	—0·3	7·6	+0·4	0	0	5	9	6	7	2	1	0	4	0	0	0	0	2	9	15	0	Sharjah.

(b) Mean of 29 days.

TABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2-30 HRS. G.M.T.) AT 5TH CLASS STATIONS—APRIL 1947

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 hrs.	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 (R)							Kashmir ..	Sonamarg ..	3·20	—6·73	0·94	21	8	—4·5
									Gurez ..	4·45	—2·30	0·70	29	11	—0·7
Bengal	Bankura ..	0	—1·25	0	..	0	—2·7	Baluchistan ..	Harnai ..	0	—0·75	0	..	0	—1·9
	Rajshahi ..	0·81	—0·84	0·40	22	3	+0·4	Rajputana East ..	Udaipur ..	0·09	—0·02	0·09	18	0	—0·2
	Sirajganj ..	2·19	—1·06	0·90	23	5	+0·2	Bombay, Deccan ..	Khandala ..	4·12	+3·81	0·55	20	6	+5·3
	Rangpur ..	5·42	+2·34	2·07	19	5	+0·6	Madras, Southeast	Palamcottah ..	8·37	+5·89	2·95	12	6	+2·3
	Cooch Behar ..	2·38	—3·27	1·23	22	5	—2·3	Sikkim	Lachung ..	3·43	—2·60	0·63	13	10	—4·4
Bihar	Muzaffarpur ..	1·05	+0·57	0·85	20	2	+1·1								
	Chapra ..	0	—0·32	0	0	0	—0·7								
	Arrah ..	0	—0·25	0	0	0	—0·5								
United Provinces, West.	Meerut ..	0	—0·37	0	..	0	—0·8								
Punjab East and North.	Dharampore ..	0·06	—1·32	0·06	29	0	—2·7								
	Kyelang ..	1·37	..	0·69	20	2	..								
	Dalhousie ..	0	—2·99	0	..	0	—5·7								

(R) Register not received.

Monthly Means of Upper Winds.

Note.—Data upto 9·0 Km. a.s.l. are given under Table A and data above 9·0 Km. under Table B. In Tables A & B,

n represents the number of observations,

V represents the mean speed in m/sec irrespective of direction,

v represents the resultant mean velocity in m/sec.,

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

For the co-ordinates of the stations for which data have been published in these tables and other particulars, please refer to the introduction to the Monthly Weather Report, January 1947. The data for the following stations mentioned therein have not been included in this issue :—

1. Jhelum 2. Minicoy 3. Sharjah. 4. Lahore.

The data for Deolali, Lat. 19° 53′ N. Long. 73° 49′ E., Ht. 576 metres a. s. l. have been included.

Table A—Monthly mean directions and velocities of Upper Winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	AHMEDABAD												ALLAHABAD											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface ..	30	1·9	1·1	232	30	1·1	0·3	217	30	3·0	1·7	221	30	1·8	1·1	268	30	1·7	0·8	255	30	4·3	3·7	
0·15 a. g. ..	30	8·7	4·2	261	30	7·5	2·5	304	30	5·3	2·5	229	30	8·6	5·1	296	30	9·0	6·9	272	30	7·2	6·6	
0·6 a. s. l.	30	8·7	4·7	274	29	10·2	4·1	316	30	5·6	2·6	235	30	9·5	6·8	317	30	10·4	7·4	297	30	7·8	7·2	
1·0 „ ..	26	6·7	5·2	278	27	9·4	3·5	312	30	5·6	2·7	241	30	9·8	7·6	309	30	9·7	7·7	307	29	7·8	7·3	
1·5 „ ..	25	5·5	3·7	268	23	6·6	2·9	268	30	6·2	2·4	263	22	8·2	7·0	298	30	10·6	9·1	307	27	7·7	7·4	
2·0 „ ..	24	5·1	3·2	271	21	5·5	2·2	268	29	6·8	2·1	260	15	8·3	7·2	292	26	11·7	11·1	305	24	8·0	7·7	
2·5 „ ..	19	5·5	3·0	263	19	6·0	2·8	260	27	6·6	3·1	282	6	7·4	7·4	286	17	10·6	10·0	298	23	9·0	8·4	
3·0 „ ..	17	6·5	3·8	261	18	7·2	2·7	270	27	7·6	3·8	278	3	4·5	4·5	135	13	9·9	9·5	304	20	10·2	9·7	
4·0 „ ..					16	9·0	4·1	263	24	9·5	8·0	267					4	7·9	7·4	298	13	12·8	12·6	
5·0 „ ..					11	10·4	5·0	240	21	11·2	8·9	275					2	12·3	12·3	275	8	14·5	13·9	
6·0 „ ..					6	10·7	9·0	243	17	14·7	12·3	273					2	14·7	14·5	271	6	15·7	15·3	
7·5 „ ..					2	15·0	14·7	243	3	18·3	17·7	259									3	19·2	18·7	
9·0 „ ..									1	18·0	18·0	240												

Height in km.	AMBALA												ANANTAPUR								ASANSOL			
	0100				0700				1600				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface ..	30	2·4	1·1	351	30	1·5	0·6	325	30	3·5	2·2	295	30	2·6	1·5	243	30	2·6	1·4	65	30	1·7	0·9	
0·15 a. g. ..	30	8·6	5·7	343	30	5·6	2·6	338	30	6·5	4·5	285	30	8·1	5·9	246	30	4·9	2·5	74	29	6·2	2·8	
0·6 a.s.l. ..	30	9·0	6·3	338	30	6·5	4·1	328	30	7·2	4·9	286	30	8·9	6·2	256	30	4·8	2·0	75	29	7·6	3·0	
1·0 „ ..	30	8·8	6·5	329	30	7·5	5·7	324	30	7·6	5·7	293	30	8·9	3·0	280	30	4·7	1·8	58	25	7·9	4·5	
1·5 „ ..	30	9·2	6·8	319	30	8·1	6·3	320	30	7·8	6·4	296	30	9·3	1·2	176	30	5·6	1·9	80	16	7·8	6·1	
2·0 „ ..	28	8·1	7·3	314	29	9·2	7·9	311	29	7·8	6·2	295	30	8·4	5·7	100	30	6·9	2·4	93	5	6·3	6·1	
2·5 „ ..	19	7·8	6·7	299	26	10·2	8·7	304	26	7·8	6·1	293	30	9·1	7·4	90	29	8·4	3·3	89	2	6·7	6·0	
3·0 „ ..	12	8·1	7·0	297	23	10·5	8·9	300	26	8·1	6·1	291	29	10·7	7·9	80	29	8·7	3·5	88	1	12·5	12·5	
4·0 „ ..					16	12·6	10·4	292	23	8·1	7·5	298	24	9·4	5·7	75	25	7·2	3·6	81				
5·0 „ ..					7	8·3	8·2	287	21	9·9	9·1	293	21	8·7	5·2	82	22	6·6	2·9	72				
6·0 „ ..					6	9·8	9·7	283	18	12·3	11·5	291	19	7·9	2·8	92	20	7·7	4·9	71				
7·5 „ ..					3	16·7	16·7	257	11	18·8	17·7	281	14	10·0	5·3	81	13	8·1	6·1	65				
9·0 „ ..									6	19·7	18·1	280	10	4·8	1·5	85	8	7·6	4·2	100				

Table A—Monthly mean directions and velocities of Upper Winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	ASANSOL												BAHRAIN										
	0700				1100				1600				0100				0700				1600		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface ..	30	1·3	0·5	230	30	1·9	1·0	259	30	2·2	1·0	287	30	2·7	1·0	57	30	2·3	1·2	340	30	3·3	2·3
0·15 a. g. ..	30	5·3	3·6	244	30	4·5	3·2	264	30	4·6	2·9	280	29	6·6	2·7	59	30	6·8	2·7	318	30	6·1	4·2
0·6 a. s. l. ..	29	7·3	4·6	266	28	4·0	3·0	269	30	5·3	3·7	285	29	6·9	3·9	2	30	7·6	3·9	355	30	6·3	2·8
1·0 „ ..	27	8·1	5·3	283	27	4·9	3·7	277	30	5·1	4·3	284	29	6·8	4·3	341	30	7·1	3·9	346	30	6·7	3·5
1·5 „ ..	23	8·1	7·0	294	22	6·5	5·5	279	29	5·5	5·0	284	27	6·9	5·0	309	28	6·2	3·9	314	28	6·6	4·3
2·0 „ ..	13	6·8	6·3	305	9	6·8	6·4	290	26	5·9	5·1	282	20	8·1	6·1	306	25	7·1	5·3	303	27	7·9	6·1
2·5 „ ..	8	7·1	6·5	293	2	6·7	6·7	288	22	7·9	7·4	286	4	7·0	5·6	306	14	7·0	5·9	306	27	9·5	7·2
3·0 „ ..	5	9·1	8·7	276	1	2·5	2·5	270	21	10·0	9·1	294	1	3·0	3·0	290	9	7·6	6·4	284	27	10·0	8·2
4·0 „ ..	3	12·5	12·5	306					14	13·1	13·0	297					1	7·5	7·5	275	21	11·4	10·0
5·0 „ ..									8	15·3	15·1	288					1	13·5	13·5	300	17	11·9	10·8
6·0 „ ..									3	12·7	12·6	283									9	10·5	9·5
7·5 „ ..									1	16·5	16·5	300									2	14·0	11·5
9·0 „ ..																							

Height in km.	BALASORE				BANGALORE								BAREILLY								BHOPAL		
	0700				0700				1600				0700				1600				0100		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface ..	30	4·6	3·9	224	30	3·0	1·4	273	30	3·3	1·2	84	30	0·5	0·0	319	30	3·8	3·3	293	29	4·5	2·5
0·15 a. g. ..	29	8·3	7·3	230	30	5·4	2·4	264	29	5·5	2·1	77	30	8·2	4·9	297	30	7·7	6·9	291	29	9·3	5·5
0·6 a. s. l. ..	28	9·2	6·3	251									30	10·0	7·5	309	30	8·3	7·4	292	29	9·1	5·3
1·0 „ ..	28	8·2	5·0	264	30	4·6	2·1	261	29	5·2	1·6	79	30	10·9	9·6	304	30	8·5	7·7	295	29	8·4	5·9
1·5 „ ..	27	6·3	4·5	277	27	7·2	2·2	295	29	5·8	2·5	70	30	11·0	10·3	300	30	8·3	7·7	294	27	7·1	5·7
2·0 „ ..	24	5·8	4·9	289	26	7·1	3·1	65	29	6·1	2·8	83	29	11·8	11·4	297	29	8·1	7·7	292	11	5·5	5·1
2·5 „ ..	20	5·2	4·5	292	25	6·9	4·8	71	26	5·6	2·7	58	23	11·9	11·4	297	27	9·3	9·1	293	6	4·2	3·2
3·0 „ ..	17	5·9	5·3	292	23	7·1	4·6	67	18	6·4	4·3	60	22	13·5	13·2	297	26	10·6	10·4	293	2	6·3	6·0
4·0 „ ..	10	7·9	7·5	303	18	7·1	4·8	85	8	9·6	7·5	74	9	10·9	10·5	288	24	13·6	13·2	288			
5·0 „ ..	8	10·9	9·6	309	14	6·4	4·0	98	2	10·3	10·0	83	4	9·6	9·4	291	17	14·6	14·0	291			
6·0 „ ..	4	9·0	7·3	308	11	7·1	4·6	75	2	11·3	11·3	70	4	9·0	8·9	283	12	19·1	17·8	294			
7·5 „ ..					9	9·2	7·8	82	2	9·5	9·5	76					5	22·0	19·5	283			
9·0 „ ..					4	7·5	6·6	94									1	22·0	22·0	260			

Table A—Monthly mean directions and velocities of Upper winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	BHOPAL								BHUJ												BIKANER			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	3·2	2·5	278	30	3·4	2·7	290	30	2·0	1·8	242	30	1·2	1·0	230	30	3·3	2·5	239	30	2·3	1·7	230
0·15 a.g. ..	30	7·2	3·5	294	30	6·4	4·2	277	30	7·3	6·6	261	30	6·5	4·8	269	30	5·8	4·4	249	30	7·6	4·5	232
0·6 a.s.l. ..	30	6·7	3·5	293	30	5·7	4·0	277	30	10·0	8·3	274	30	10·1	7·8	292	30	6·2	4·6	248	30	9·7	4·9	278
1·0 „ ..	30	7·7	4·2	307	30	6·0	4·2	279	30	6·9	4·9	277	30	8·1	5·5	298	30	4·9	3·7	261	30	8·9	5·6	290
1·5 „ ..	29	7·3	4·4	304	28	5·8	3·7	271	29	6·0	3·3	277	28	6·5	3·5	287	30	4·7	3·2	281	29	8·1	5·8	281
2·0 „ ..	23	6·6	5·1	291	22	6·5	4·8	272	26	7·3	2·4	267	28	6·1	2·8	283	30	5·2	2·9	280	27	7·6	6·0	285
2·5 „ ..	21	6·1	4·7	294	16	6·6	4·8	282	14	7·0	1·9	43	28	7·7	2·7	282	30	6·0	2·5	281	23	6·5	4·3	290
3·0 „ ..	16	7·7	6·2	280	16	8·1	6·3	284	8	7·9	3·2	339	26	7·7	2·4	282	30	7·2	2·6	272	21	7·1	4·9	284
4·0 „ ..	10	8·1	6·7	276	12	8·9	7·9	289	2	11·7	1·3	18	19	7·5	2·9	263	26	7·7	5·9	269	17	7·8	5·3	279
5·0 „ ..	5	8·5	7·0	286	8	8·8	8·0	291					13	10·1	8·2	260	21	10·7	7·8	280	10	6·1	3·9	285
6·0 „ ..	1	5·5	5·5	320	5	12·0	8·0	301					9	11·5	10·4	261	15	11·7	10·9	268	5	6·5	5·8	268
7·5 „ ..					1	12·0	12·0	200					5	16·8	16·1	275	4	15·1	14·5	265	1	9·0	9·0	270
9·0 „ ..					1	15·5	15·5	270					4	18·8	18·3	259	1	24·0	24·0	275				

Height in km.	BIKANER				BOGRA												BOMBAY							
	1600				0700				1100				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	3·7	2·9	260	30	2·1	1·4	135	30	2·3	0·8	154	30	3·4	1·1	271	30	2·2	0·9	234	30	2·0	0·9	143
0·15 a.g. ..	30	7·0	5·5	256	29	6·3	4·2	148	30	4·9	2·7	149	30	7·5	2·7	271	29	5·7	1·8	277	29	4·4	0·6	74
0·6 a.s.l. ..	30	6·6	5·2	257	25	7·0	4·7	204	30	4·8	3·0	178	29	5·8	3·4	249	29	6·5	1·4	306	29	6·5	0·5	27
1·0 „ ..	28	6·4	4·6	258	19	6·8	4·4	253	27	5·4	3·5	226	27	5·8	4·4	251	27	6·8	1·0	292	27	6·4	0·9	8
1·5 „ ..	26	6·6	5·0	265	17	7·6	6·9	279	22	8·4	7·1	255	25	7·1	6·3	257	25	5·8	1·3	298	25	7·0	1·2	322
2·0 „ ..	24	6·9	4·7	277	15	8·4	7·7	278	14	8·8	8·5	268	24	8·8	8·3	264	20	5·4	1·5	258	24	5·8	0·7	239
2·5 „ ..	22	5·6	3·9	267	9	8·7	7·8	283	4	10·5	10·0	257	19	10·8	10·5	267	6	4·1	0·6	219	19	5·3	1·0	176
3·0 „ ..	21	6·7	4·2	271	7	11·1	10·6	293	3	11·2	10·3	279	18	12·6	12·1	272	3	4·2	1·1	320	18	4·3	1·7	108
4·0 „ ..	19	8·7	5·5	274	5	14·5	13·8	288					13	19·6	18·8	281					15	6·7	2·8	150
5·0 „ ..	18	11·6	7·9	263	1	7·0	7·0	320					9	23·5	23·1	285					6	7·8	2·3	246
6·0 „ ..	13	12·4	10·2	260	1	11·5	11·5	320					4	21·6	21·5	293					4	9·4	6·9	260
7·5 „ ..	3	19·7	16·7	281									2	25·3	25·2	302					2	14·3	13·5	242
9·0 „ ..	1	25·0	25·0	340																	1	8·5	8·5	255

Table A—Monthly mean directions and velocities of Upper winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	BOMBAY				CALCUTTA																CHHOR			
	1600				0100				0700				1100				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	6·1	4·3	278	30	6·5	3·5	197	30	3·1	2·9	202	30	3·6	2·9	203	30	3·8	2·9	194	30	2·4	1·9	20
0·15 a. ground	29	5·5	3·4	279	29	10·8	10·1	204	29	6·5	6·0	209	30	5·4	4·4	207	30	6·5	5·1	198	30	7·6	4·9	22
0·6 a. s. l.	29	5·7	2·4	273	27	14·0	12·9	224	30	8·7	7·5	230	30	5·8	4·6	225	30	6·8	4·9	212	28	8·9	5·6	26
1·0 „	28	5·7	1·4	266	24	12·0	9·1	238	30	8·7	6·0	248	30	6·3	4·7	252	30	6·1	4·1	252	28	8·0	5·3	26
1·5 „	27	5·2	0·9	239	23	9·2	6·2	262	27	6·8	5·1	273	27	6·4	5·0	267	30	6·2	5·1	276	28	7·3	4·3	26
2·0 „	25	4·7	1·0	214	19	8·8	7·9	285	24	6·9	5·1	284	21	6·3	5·5	287	29	7·5	6·9	285	28	7·3	4·3	26
2·5 „	24	4·0	1·2	177	12	9·7	8·4	288	16	7·0	6·3	286	14	7·6	6·9	286	28	8·4	8·0	286	24	7·6	3·4	26
3·0 „	24	4·5	1·7	148	9	9·9	8·4	277	15	9·6	8·6	283	12	9·5	8·7	280	27	9·8	9·5	290	22	8·4	3·2	27
4·0 „	24	4·4	1·2	105	1	16·0	16·0	295	6	14·0	13·4	302					25	17·0	14·4	297	16	6·7	2·0	29
5·0 „	21	5·6	1·4	314					3	16·3	16·0	300					17	17·2	15·5	299	13	8·8	5·5	26
6·0 „	18	6·3	2·6	297					1	13·0	13·0	300					9	15·1	14·7	287	9	9·5	7·3	26
7·5 „	5	9·1	6·1	271													2	12·5	12·5	287	4	13·6	13·4	25
9·0 „	1	21·0	21·0	255																	2	22·3	21·5	23

Height in km.	CHHOR				CHITTAGONG																COCHIN			
	1600				0100				0700				1100				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	3·3	2·8	261	30	1·4	1·1	157	30	1·8	1·6	146	30	2·9	2·2	201	30	2·6	2·0	223	30	2·3	6·6	31
0·15 a. ground	30	4·7	4·1	238	28	6·0	5·3	174	30	5·0	4·7	161	29	5·4	5·0	198	29	5·9	5·0	217	27	3·9	2·3	32
0·6 a. s. l.	30	4·7	3·9	236	28	7·7	7·0	193	28	7·0	6·5	195	27	5·5	5·0	193	29	6·5	5·6	203	27	4·9	2·6	29
1·0 „	28	4·4	3·1	243	26	6·7	5·9	206	26	6·7	5·8	216	22	4·9	4·0	201	28	5·5	4·5	212	27	4·4	1·9	28
1·5 „	28	4·8	3·3	252	24	6·0	4·8	244	24	6·5	5·7	253	16	6·3	5·5	234	27	5·3	4·4	242	25	4·4	1·4	29
2·0 „	27	5·5	3·3	249	22	6·4	5·5	260	23	6·2	5·6	272	15	7·1	6·2	253	26	5·6	4·6	264	19	5·0	1·3	6
2·5 „	26	7·0	4·0	263	14	6·3	5·3	284	21	6·7	5·9	285	12	8·9	8·1	269	25	7·1	6·3	272	15	6·1	3·1	7
3·0 „	26	8·1	4·4	264	13	7·5	6·9	295	20	8·2	7·5	295	9	8·9	7·9	274	24	8·1	7·3	283	12	7·3	4·2	5
4·0 „	21	9·6	6·4	264	3	7·4	7·2	282	14	9·7	8·9	299					24	10·6	10·0	296	4	3·1	2·5	7
5·0 „	18	11·1	9·5	272					10	11·3	10·5	300					23	13·4	12·3	284	2	2·0	0·9	8
6·0 „	12	12·2	10·2	272					6	12·1	10·8	278					22	13·9	13·4	279				
7·5 „	7	16·4	15·0	271					1	13·5	13·5	255					13	14·9	14·0	281				
9·0 „	4	22·6	21·1	263													9	16·1	15·2	286				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	COCHIN								COOCH BEHAR												CUTTACK			
	0700				1600				0700				1100				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·8	1·4	52	30	5·0	3·6	291	30	2·7	2·4	82	30	2·5	2·1	106	30	1·6	0·7	49	30	2·3	2·1	206
0·15 a. ground	30	3·4	2·0	33	29	5·5	4·0	283	27	6·8	6·3	84	29	5·0	4·4	101	29	3·6	1·4	62	30	7·2	6·5	207
0·6 a. s. l.	30	5·5	2·8	317	29	6·1	4·1	289	25	8·0	7·0	111	28	6·2	4·8	117	28	4·2	0·8	137	25	9·1	8·5	226
1·0 „	29	5·8	3;0	314	27	5·2	1·9	302	23	6·3	4·8	129	26	5·8	4·1	138	28	5·2	2·9	218	25	7·5	6·1	237
1·5 „	28	5·5	0·7	323	25	5·0	0·6	80	14	4·2	1·5	193	17	4·8	3·0	190	25	6·6	5·9	243	23	5·8	4·3	270
2·0 „	27	6·4	1·0	90	19	5·3	2·7	102	10	3·6	2·1	212	6	3·8	3·5	216	24	9·5	9·0	254	21	5·8	4·6	294
2·5 „	25	7·3	4·5	80	18	6·4	4·2	79	8	4·8	3·4	248					21	10·3	9·8	258	16	6·5	5·5	311
3·0 „	25	8·8	6·9	78	17	6·6	4·3	77	6	5·5	4·3	269					18	11·1	9·8	262	9	7·3	7·0	325
4·0 „	23	7·0	4·8	80	15	5·6	2·9	98	2	8·7	8·4	269					12	10·7	10·1	283	1	7·0	7·0	275
5·0 „	18	6·3	4·1	81	11	6·6	5·1	81									7	13·1	12·5	282				
6·0 „	16	7·4	5·7	83	10	7·3	5·2	66									3	14·8	14·4	285				
7·5 „	7	7·8	5·6	78	7	7·1	6·7	52																
9·0 „	7	6·0	3·5	76	2	6·0	5·7	65																

Height in km.	CUTTACK												DALBANDIN											
	0700				1100				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·4	1·3	216	30	1·5	1·1	223	30	3·2	2·8	183	29	1·4	1·2	40	30	1·0	0·7	45	30	1·6	0·4	280
0·15 a. ground	29	5·1	4·5	215	30	4·0	2·5	225	30	6·7	5·6	190	29	5·6	3·4	45	30	4·3	2·2	61	29	3·7	0·2	157
0·6 a. s. l.	28	8·6	7·1	243	30	4·7	3·2	246	30	5·8	4·7	206												
1·0 „	25	8·2	6·3	255	30	5·9	4·5	271	30	4·3	3·0	249	29	5·6	3·4	46	30	4·3	2·2	61	29	3·7	0·2	157
1·5 „	22	6·2	4·9	282	28	6·0	4·0	274	30	4·3	3·1	295	29	5·5	2·2	43	30	5·7	2·3	7	29	3·2	1·2	267
2·0 „	20	5·7	4·5	298	24	5·4	3·6	304	30	5·7	4·8	304	29	5·1	1·8	29	30	6·3	3·3	351	29	3·1	0·8	319
2·5 „	20	6·3	4·9	308	14	4·5	4·0	294	29	6·7	6·0	306	29	5·3	0·7	15	30	7·2	4·0	327	29	3·8	3·3	287
3·0 „	17	6·0	4·9	323	9	6·2	5·3	308	29	7·6	6·8	308	24	5·6	2·1	344	29	8·1	5·7	316	29	5·0	2·4	310
4·0 „	11	6·5	5·8	333					25	9·0	8·4	309	11	10·3	3·1	269	21	10·9	4·9	305	21	8·0	4·9	296
5·0 „	9	8·8	8·1	296					18	10·1	9·5	292					14	13·4	4·9	272	20	9·8	5·0	286
6·0 „	6	9·7	9·3	271					17	12·3	11·0	290					10	13·7	12·8	260	19	15·1	11·1	276
7·5 „	3	8·5	8·4	235					14	11·7	10·4	279					5	21·4	20·7	255	11	23·9	17·3	284
9·0 „	2	13·7	12·6	263					9	9·4	8·8	262									6	23·3	22·3	265

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level.

APRIL 1947

Height in km.	DEOLALI				DROSH								FORT SANDEMAN								GADAG			
	0800				0700				1600				0800				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	22	1·9	1·3	233	30	1·2	0·8	87	30	2·0	0·1	316	30	2·1	0·9	267	30	2·8	2·2	260	30	3·8	2·3	249
0·15 a. ground	22	5·6	1·8	227	30	2·2	1·7	51	27	3·5	0·5	300	30	3·9	1·9	245	28	4·8	3·4	255	30	5·9	3·3	268
0·6 a. s. l.	22	3·1	1·8	223																				
1·0 „	22	8·3	1·9	293																	30	7·1	2·2	300
1·5 „	22	8·8	2·4	307									30	3·6	1·6	248	28	4·3	2·9	255	30	8·0	0·7	264
2·0 „	20	7·4	1·1	206	30	3·0	2·6	36	27	3·6	0·7	259	30	3·6	2·0	288	28	4·4	3·3	247	28	7·8	2·9	118
2·5 „	18	6·6	1·9	192	30	5·7	5·4	19	27	3·2	0·7	219	30	5·5	3·6	303	28	4·5	3·2	245	27	8·2	5·0	104
3·0 „	18	6·0	3·1	190	30	6·7	5·8	12	27	3·1	1·7	190	30	7·3	5·2	304	28	5·8	4·2	243	25	8·5	5·5	104
4·0 „	12	7·0	2·0	238	29	4·9	2·3	18	24	3·6	2·0	194	27	8·3	6·7	280	21	6·8	5·2	272	19	7·3	3·7	80
5·0 „	8	6·9	4·6	300	26	5·4	1·4	254	21	4·4	1·4	232	14	9·6	8·5	273	10	11·9	10·2	282	12	5·0	2·2	27
6·0 „	6	7·9	6·7	323	19	7·3	5·8	279	15	7·5	4·3	284	9	8·8	8·2	266	5	13·5	11·4	278	12	5·5	3·5	65
7·5 „	4	9·4	8·9	300	15	8·8	7·9	261	10	11·5	9·9	276	5	13·1	12·7	258	2	21·7	19·9	266	8	7·4	5·5	55
9·0 „	2	9·0	7·4	255	14	13·9	12·5	267	8	19·3	18·3	273	1	6·5	6·5	275					4	3·1	0·8	61

Height in km.	GADAG				GAYA																GOPALPUR			
	1600				0100				0700				1100				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	V	D	n	V	v	D	n	V	v	D
Surface.	30	4·7	0·8	220	30	2·2	0·9	177	30	2·0	1·3	194	30	3·5	3·0	288	30	4·4	4·1	301	30	5·4	5·1	205
0·15 a. ground	30	6·2	0·6	144	30	7·1	2·7	283	30	6·3	4·3	242	30	5·6	4·6	288	30	7·8	7·2	299	30	7·3	6·8	215
0·6 a. s. l.					30	8·5	4·5	304	30	7·8	5·5	289	30	6·6	5·7	290	30	8·0	7·6	295	30	6·2	4·7	247
1·0 „	30	6·1	0·7	144	30	8·5	7·1	300	30	8·1	6·7	296	29	6·3	5·5	288	30	8·5	8·1	295	30	6·0	4·6	261
1·5 „	30	6·5	0·4	189	27	8·7	8·3	294	29	9·1	8·2	298	24	6·4	6·0	290	28	9·0	8·6	292	29	4·7	2·3	285
2·0 „	29	6·1	0·6	173	17	8·7	8·4	290	26	10·0	9·0	276	19	8·1	7·8	287	25	8·6	8·3	288	25	4·0	1·8	336
2·5 „	22	6·3	1·4	124	9	9·8	9·6	292	19	10·7	10·0	293	12	10·5	10·4	287	18	8·1	7·6	282	23	4·8	3·1	353
3·0 „	17	7·0	1·8	107	6	8·9	8·5	287	14	10·4	10·0	289	8	10·8	10·5	284	16	9·2	8·9	287	23	5·7	4·2	354
4·0 „	12	6·2	3·3	85					6	10·2	9·7	295					12	11·2	10·8	286	19	5·2	4·3	348
5·0 „	7	5·6	3·9	76					1	13·0	13·0	310					9	15·4	14·2	291	15	5·5	4·4	319
6·0 „	4	7·6	4·6	99													7	16·0	15·4	288	9	6·5	4·9	283
7·5 „	1	8·0	8·0	5													2	17·5	16·7	279				
9·0 „																	1	25·0	25·0	260				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	GOPALPUR				GORAKHPUR								HYDERABAD (Begumpet)											
	1600				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	9·8	9·7	186	30	1·9	0·1	228	30	3·3	2·6	282	30	3·8	1·5	232	30	3·2	1·4	315	30	3·3	0·5	194
0.15 a. ground	30	12·4	12·2	197	30	7·9	2·0	321	30	6·7	5·4	288	30	7·6	3·0	233	30	6·6	3·7	310	30	5·1	0·8	135
0·6 a. s. l.	30	6·5	6·1	196	29	9·3	4·4	296	30	7·3	6·3	284	30	5·7	2·3	229	30	4·3	1·9	311	30	4·5	0·9	174
1·0 „	30	4·2	2·9	198	28	9·2	6·6	296	27	8·4	7·5	282	30	7·9	2·1	230	30	9·4	4·2	316	30	5·7	0·7	93
1·5 „	28	4·4	1·4	279	23	9·1	8·0	305	23	8·1	7·7	280	30	6·3	0·2	326	30	8·3	1·8	337	30	5·4	0·7	89
2·0 „	26	4·8	2·9	328	20	10·7	9·7	297	20	9·1	8·9	281	30	6·4	0·8	41	29	6·2	1·7	60	30	5·1	1·1	42
2·5 „	26	5·7	4·8	325	14	9·9	9·5	295	19	10·9	10·6	288	29	6·6	1·3	30	29	6·0	2·1	60	30	5·4	1·1	32
3·0 „	25	7·4	6·6	326	10	11·1	10·8	296	16	12·4	12·1	289	27	6·3	2·0	21	29	6·3	1·9	70	29	5·8	1·7	36
4·0 „	18	7·4	7·0	324	4	11·3	11·1	297	11	13·6	13·4	297	3	5·3	1·0	36	29	6·4	2·6	61	24	5·1	1·6	356
5·0 „	10	5·7	4·9	292	1	9·5	9·5	300	3	14·2	13·5	302					27	6·4	1·9	11	21	6·4	1·7	3
6·0 „	6	6·3	6·1	265					2	19·7	19·3	309					27	7·3	1·4	336	18	7·2	3·5	356
7·5 „	2	5·5	5·1	203					1	7·0	7·0	270					16	6·5	2·8	320	17	7·7	3·4	348
9·0 „	1	6·0	6·0	215													4	4·3	2·3	203	15	7·2	2·9	321

Height in km.	JACOBABAD												JAMSHEDPUR											
	0100				0700				1600				0700				1100				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	3·1	1·6	278	30	2·8	0·9	358	30	2·3	1·3	277	30	1·4	0·9	270	30	1·9	1·3	244	30	2·8	2·2	269
0.15a. ground	29	7·5	4·3	276	29	7·1	3·4	350	30	4·0	2·0	281	30	3·0	2·2	261	30	3·1	2·2	262	30	4·4	3·4	268
0·5 a. s. l.	29	6·5	3·8	283	29	7·7	4·5	331	30	4·3	2·2	266	30	5·0	3·4	257	30	3·7	2·5	270	30	4·9	4·0	275
0·1 „	29	5·6	3·6	276	29	7·0	4·3	320	30	4·4	2·4	270	30	6·9	4·5	279	30	5·0	3·7	285	30	5·0	4·3	279
1 5 „	29	5·1	3·5	272	29	6·3	3·5	303	29	4·1	2·3	270	30	7·5	5·8	291	30	5·8	4·4	297	30	5·1	4·3	282
2·0 „	21	4·3	2·7	245	27	5·8	3·2	283	29	4·9	3·0	260	28	8·1	6·7	291	26	6·8	5·3	291	30	5·4	4·7	284
2·5 „	1	3·0	3·0	50	23	5·1	2·7	277	29	5·4	2·9	267	24	9·0	7·9	289	10	6·3	5·5	276	30	6·1	5·5	287
3·0 „	1	2·0	3·0	25	20	6·5	3·3	278	28	6·9	4·3	283	19	8·2	7·3	285	8	7·1	6·4	287	30	7·0	6·6	290
4·0 „					15	6·1	3·0	308	28	10·0	8·0	280	7	8·6	8·0	275					28	9·2	8·8	295
5·0 „					10	7·3	2·6	272	19	11·0	8·7	270	3	9·8	9·2	301					21	12·8	12·0	291
6 0 „					6	11·7	8·6	288	15	12·7	10·9	264	2	15·5	14·4	287					19	14·7	13·8	281
7·5 „									4	17·1	13·7	258									8	17·7	16·3	280
9·0 „																					3	17·8	15·3	317

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	JHARSUGUDA												JHELUM											
	0100				0700				1600															
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·9	0·3	129	30	1·7	0·4	115	30	1·8	1·3	288												
0·15 a. ground	30	6·3	1·4	315	30	5·6	0·4	120	30	3·6	2·2	283												
0·6 a. s. l.	30	7·1	3·0	306	30	6·3	2·0	289	30	4·2	2·5	293												
1·0 „	30	6·6	4·0	302	30	7·1	4·3	308	30	4·3	2·8	285												
1·5 „	30	5·7	4·1	291	30	7·1	5·3	308	30	4·5	3·2	285												
2·0 „	29	5·5	4·4	289	30	7·2	6·0	294	29	5·0	4·0	292												
2·5 „	26	6·1	5·3	290	30	7·9	7·0	293	29	6·1	5·2	296												
3·0 „	15	7·1	6·0	289	30	9·1	8·3	295	29	7·0	6·5	298												
4·0 „	1	7·0	7·0	305	28	9·6	8·8	296	28	8·8	8·3	304												
5·0 „					23	10·2	9·4	302	28	10·9	10·0	289												
6·0 „					16	11·2	9·9	296	27	11·7	10·7	283												
7·5 „					8	11·1	10·9	273	19	12·9	11·4	287												
9·0 „					4	10·7	10·3	276	11	17·1	16·1	270												

Height in km.	JIWANI								JODHPUR												JUBBULPORE			
	0900				1500				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	19	3·3	2·0	275	22	6·0	5·4	230	30	3·1	2·1	252	30	2·8	2·1	254	30	4·6	3·3	249	30	2·0	1·4	24
0·15 a. ground									30	11·7	8·3	246	30	8·4	5·3	246	30	7·1	5·7	248	28	6·1	4·0	24
0·6 a. s. l.	30	7·7	4·8	298	30	5·7	3·4	255	30	11·9	9·0	246	30	9·2	5·9	265	30	6·1	5·3	250	28	6·8	4·1	25
1·0 „	27	7·5	4·9	305	29	4·8	2·6	268	29	10·1	8·2	247	30	8·4	5·9	263	30	6·7	5·3	251	28	8·1	5·3	29
1·5 „	22	5·8	4·4	313	28	4·3	2·2	303	25	7·3	5·3	264	30	7·9	5·3	261	30	7·4	6·1	257	28	8·0	6·2	30
2·0 „	22	4·8	3·2	314	27	5·7	3·5	311	20	5·4	3·0	254	26	8·3	4·3	262	28	7·9	6·0	254	28	7·3	6·1	30
2·5 „	21	5·8	2·7	338	26	4·6	2·4	304	11	5·9	2·5	267	19	7·4	3·8	260	26	8·0	5·7	263	28	8·0	6·5	29
3·0 „	19	4·8	0·8	211	25	5·2	2·2	304	7	6·0	1·7	321	18	8·1	4·7	281	24	8·7	6·2	257	27	9·4	7·9	28
4·0 „													14	9·8	5·8	269	19	10·8	7·0	260	16	11·3	10·5	28
5·0 „													8	12·6	7·5	260	14	12·3	6·3	276	11	11·6	10·7	29
6·0 „													2	19·2	15·7	283	9	15·4	14·8	280	9	14·2	13·2	29
7·5 „																	2	17·7	17·6	289	3	23·5	20·5	28
9·0 „																								

Table A—Monthly mean directions and velocities of Upper winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	JUBBULPORE				KARACHI												KHANPUR							
	1600				0100				0700				1600				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·7	1·7	282	30	2·5	2·2	247	30	2·1	1·7	268	30	5·5	5·0	235	30	2·9	1·2	273	30	3·6	2·3	264
0·15 a. ground	27	4·5	2·9	272	30	6·5	6·0	267	30	6·7	5·7	285	30	6·7	5·9	244	30	8·0	4·2	287	30	5·0	3·5	265
0·6 a. s. l.	27	4·5	3·0	269	30	11·2	10·6	272	28	9·1	7·7	306	29	6·6	5·2	265	30	9·4	5·6	291	29	5·7	4·1	255
1·0 „	27	5·0	3·5	280	30	9·7	8·9	268	28	9·3	7·9	306	29	5·8	4·1	268	29	8·4	5·5	297	27	6·2	5·0	247
1·5 „	27	5·1	4·4	292	30	8·4	6·3	273	28	7·9	5·4	297	29	5·7	3·0	275	27	6·7	5·0	286	25	6·0	4·6	248
2·0 „	27	6·2	5·2	284	29	7·6	4·4	277	26	6·3	3·7	289	29	6·3	3·0	277	26	6·7	5·1	283	25	6·9	4·8	242
2·5 „	27	7·8	6·9	287	24	7·9	4·0	277	26	7·1	4·2	276	29	7·5	3·8	280	25	5·6	4·1	281	24	6·4	4·9	241
3·0 „	27	8·9	8·0	284	18	7·3	2·6	318	24	7·7	3·7	282	29	8·4	4·6	276	25	5·4	3·6	295	23	6·4	4·2	258
4·0 „	22	11·6	10·6	283	1	3·5	3·5	255	17	9·8	2·9	278	28	10·3	7·1	265	24	6·4	5·1	289	23	8·6	7·0	262
5·0 „	15	13·3	12·1	278					10	9·1	8·1	242	22	11·7	8·9	276	22	8·9	6·9	275	20	11·1	9·3	256
6·0 „	8	18·7	17·6	272					6	15·2	14·7	257	15	13·9	11·5	273	8	16·9	16·3	255	17	15·1	13·9	255
7·5 „	3	23·6	22·7	272					1	24·5	24·5	245	6	22·0	19·2	268					9	21·5	20·2	247
9·0 „													1	28·5	28·5	240					1	38·0	38·0	245

Height in km.	MADHOSAGAR											
	0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	3·0	2·5	259	30	2·2	2·0	250	30	4·3	3·6	286
0·15 a ground	30	8·1	4·8	280	30	7·2	5·0	266	30	7·8	7·0	288
0·6 a. s. l.	30	9·2	5·5	290	30	9·0	6·1	291	30	7·5	6·8	288
1·0 „	30	8·9	6·4	292	29	9·0	6·7	299	30	7·0	6·3	288
1·5 „	29	7·7	6·9	292	29	8·5	7·3	304	30	6·9	6·0	282
2·0 „	23	7·1	6·7	290	25	8·0	7·1	302	30	8·0	7·1	285
2·5 „	19	8·9	8·5	291	23	8·7	7·7	300	28	7·6	6·9	283
3·0 „	12	8·2	7·5	285	19	9·0	7·3	301	27	9·0	8·1	282
4·0 „					14	9·1	8·0	281	23	12·3	11·3	285
5·0 „					9	10·8	9·5	272	18	14·4	13·5	279
6·0 „					6	11·9	10·3	287	12	17·6	16·3	281
7·5 „					3	20·0	18·7	281	5	22·6	20·2	283
9·0 „									1	35·0	35·0	240

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	MADRAS												MALEGAON CAMP											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	2·9	2·6	181	30	2·0	1·6	204	30	4·5	3·8	128	30	3·1	2·4	280	30	1·5	1·2	272	30	3·5	1·4	291
0·15 a. ground	30	6·6	5·9	182	30	6·1	4·9	203	30	5·4	4·5	136	30	7·3	5·1	292	29	5·8	3·7	284	30	5·2	2·5	284
0·6 a. s. l.	30	7·1	6·2	184	30	8·1	5·7	214	30	4·5	2·0	158	30	7·3	5·1	292	29	5·8	3·7	284	30	5·2	2·5	284
1·0 „	30	5·6	3·7	186	30	6·5	3·9	205	29	4·2	0·6	203	30	8·2	4·4	298	29	7·5	3·0	301	30	4·5	1·7	278
1·5 „	29	4·9	1·9	139	30	6·0	2·5	81	29	5·3	0·9	70	30	7·8	2·0	291	29	6·8	1·7	311	30	5·2	1·6	259
2·0 „	28	6·5	3·2	75	28	8·3	5·5	63	29	7·2	4·1	66	29	5·8	0·4	204	29	6·0	1·3	232	30	5·7	1·3	239
2·5 „	21	8·3	5·0	54	28	9·4	7·7	58	27	7·9	5·8	53	26	6·0	1·4	180	28	5·8	1·5	216	28	4·7	1·0	237
3·0 „	8	5·3	3·3	14	25	8·4	7·1	57	27	8·4	6·4	45	19	5·2	1·9	205	27	6·0	1·8	234	27	4·9	1·4	214
4·0 „	2	6·0	5·7	57	19	7·2	5·8	82	25	6·9	5·1	49	7	5·0	3·3	265	25	6·6	2·3	249	23	5·7	2·5	265
5·0 „					15	5·9	5·0	86	22	5·8	4·6	59					20	7·3	3·3	281	17	6·4	3·7	209
6·0 „					12	6·3	4·6	89	20	6·3	4·8	63					16	8·5	5·7	293	15	8·4	6·5	293
7·5 „					5	3·2	1·5	138	9	7·6	6·0	71					7	8·3	4·6	289	11	10·1	8·5	280
9·0 „					2	2·5	2·3	47	5	5·5	4·8	69					1	8·0	8·0	60	9	10·0	9·0	268

Height in km.	MANGALORE												MASULIPATAM											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	29	3·2	1·7	3	30	2·8	2·0	80	30	5·0	3·9	278	30	2·0	1·5	189	30	0·7	0·3	209	30	4·0	2·9	160
0·15 a. ground	29	5·0	2·4	337	30	3·8	1·8	54	30	6·4	5·1	277	30	7·5	6·3	190	30	5·7	4·4	199	30	6·1	4·3	166
0·6 a. s. l.	29	5·7	2·5	320	30	4·9	2·3	317	30	6·0	3·9	279	30	8·4	5·8	204	30	7·5	5·1	209	30	4·7	2·6	210
1·0 „	27	5·5	2·1	317	30	5·3	2·3	314	30	4·8	1·6	275	29	6·6	3·4	217	29	7·2	3·9	226	29	4·5	1·1	233
1·5 „	19	6·1	1·4	318	29	6·6	0·7	347	24	4·0	1·0	40	29	5·8	0·3	262	28	5·7	0·4	249	29	5·1	1·5	14
2·0 „	12	6·5	0·8	104	27	7·7	1·9	116	24	5·7	3·1	95	29	6·1	1·2	42	28	6·4	1·7	25	30	5·9	2·5	31
2·5 „	8	7·3	1·6	138	20	8·5	4·2	119	22	7·9	4·5	96	24	6·0	2·7	17	27	6·2	3·2	24	30	7·0	4·0	44
3·0 „	5	8·5	3·5	155	17	8·8	4·4	115	21	9·9	6·3	87	20	5·9	3·1	43	27	7·0	4·6	33	30	7·7	4·9	44
4·0 „					12	8·3	5·1	151	15	7·1	3·2	89	6	4·9	1·7	47	25	6·6	4·5	49	29	6·0	4·3	32
5·0 „					10	6·6	3·2	111	13	6·7	2·6	99					22	4·8	3·1	48	29	5·2	2·4	23
6·0 „					7	8·6	5·7	51	12	7·0	3·8	68					18	6·1	3·0	55	29	5·1	1·8	34
7·5 „					3	9·0	5·9	65	6	6·6	3·2	75					13	6·0	3·2	50	23	5·3	1·4	12
9·0 „					2	2·3	1·9	244	2	3·0	1·3	235					11	6·1	2·4	39	19	5·3	1·5	419

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	MINICOY								MULTAN												NAGERCOIL			
									0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.									30	1·3	0·6	230	30	1·4	0·5	318	30	1·7	0·9	258	30	5·1	4·3	300
0·15 a. ground									30	7·7	3·3	226	30	7·0	2·5	277	29	3·8	1·5	256	30	8·3	7·2	305
0·6 a. s. l.									30	8·5	4·7	240	30	7·7	2·6	295	29	3·7	1·5	252	30	10·5	8·8	303
1·0 „									30	7·9	5·1	239	30	7·6	1·9	289	29	3·9	1·4	262	30	7·5	4·6	302
1·5 „									29	7·4	4·8	252	30	7·3	2·8	281	30	4·8	2·0	244	30	6·4	1·9	303
2·0 „									28	7·7	5·8	250	30	6·7	3·6	279	28	4·2	2·7	253	30	6·8	2·5	64
2·5 „									26	7·1	4·9	254	29	6·9	4·3	287	28	5·3	3·4	260	30	7·2	4·4	64
3·0 „									23	6·5	3·6	262	28	6·7	4·2	295	28	6·3	4·3	262	30	7·7	5·0	60
4·0 „									2	5·3	4·5	235	24	6·5	3·4	300	26	8·7	6·7	271	18	6·9	3·4	53
5·0 „													18	8·3	6·9	281	23	12·3	10·6	273	8	6·6	2·1	55
6·0 „													13	10·9	9·4	274	18	15·5	14·6	271	6	6·2	5·5	80
7·5 „													6	12·2	10·8	285	10	24·3	21·4	266				
9·0 „													2	23·5	23·3	253	4	20·7	18·5	282				

Height in km.	NAGERCOIL								NAGPUR												NEW DELHI			
	0700				1600				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	3·4	3·0	305	30	6·3	5·4	267	30	2·1	1·6	306	30	2·1	1·6	311	30	2·0	1·1	313	30	1·9	1·3	261
0·15 a. ground	30	7·2	6·4	304	30	8·5	7·8	273	30	7·1	3·9	322	30	6·7	4·5	323	30	4·3	2·3	298	29	7·5	4·3	314
0·6 a. s. l.	30	9·7	8·1	304	30	8·5	7·0	284	30	7·4	4·0	324	30	7·9	5·1	324	30	5·0	2·9	302	29	8·6	5·7	321
1·0 „	30	8·1	5·6	301	30	6·8	5·0	311	30	7·3	4·2	317	30	7·3	4·1	323	30	4·6	3·0	294	28	7·7	5·9	311
1·5 „	30	5·9	1·3	302	30	5·6	3·2	350	29	5·9	3·5	316	30	5·5	2·2	301	30	4·5	2·7	290	25	8·1	7·0	295
2·0 „	29	5·5	2·3	60	30	5·4	2·7	28	28	4·8	3·2	294	29	4·8	2·4	292	30	4·9	3·2	294	10	6·7	5·8	291
2·5 „	29	6·9	4·3	55	29	6·7	4·3	48	17	4·7	3·5	267	28	4·7	2·7	286	30	5·5	3·5	284	7	7·9	7·3	283
3·0 „	29	7·6	5·4	55	27	7·2	4·3	54	7	4·6	2·9	265	27	5·0	3·9	269	28	5·3	3·6	287	3	9·7	8·8	277
4·0 „	28	5·7	2·7	57	25	6·1	2·7	34					20	5·7	4·1	276	24	7·3	5·6	297				
5·0 „	26	5·5	2·9	76	24	4·9	3·1	67					15	6·8	4·3	277	19	10·0	8·3	291				
6·0 „	20	6·1	4·3	73	23	5·7	4·3	65					7	8·3	3·2	277	18	11·2	9·2	279				
7·5 „	17	3·7	2·0	98	20	4·1	2·0	80					2	9·7	8·4	265	9	12·1	10·6	287				
9·0 „	17	4·9	3·8	71	16	4·7	3·8	69					2	15·5	15·3	297	6	9·9	8·7	255				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	NEW DELHI								PESHAWAR												POONA			
	0700				1600				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	2·2	1·7	247	30	5·4	4·6	285	30	2·5	1·4	259	30	1·7	0·9	200	30	3·1	2·1	5	30	1·4	0·8	25
0·15 a. ground	30	7·1	5·3	275	30	6·7	5·5	293	30	3·7	2·6	297	30	2·8	1·2	318	30	4·1	3·0	12	28	4·8	3·0	26
0·6 a. s. l.	30	7·8	5·8	302	30	7·7	6·5	295	30	3·8	2·7	305	30	3·6	2·2	323	30	4·2	3·1	9	28	3·2	2·2	26
1·0 „	30	7·3	5·9	306	29	7·1	5·9	294	29	3·5	1·9	310	30	4·7	2·9	342	30	4·3	3·1	352	29	6·7	3·6	28
1·5 „	28	7·7	6·0	305	28	6·1	5·5	291	29	3·6	2·0	315	30	5·2	4·3	318	30	4·2	2·4	323	28	7·3	2·6	30
2·0 „	24	8·7	7·9	302	27	6·5	5·7	288	29	3·9	1·9	289	29	5·8	4·8	317	30	5·0	2·8	289	26	5·6	0·3	8
2·5 „	19	8·7	8·0	301	27	7·5	6·9	285	28	4·8	2·8	281	29	4·8	3·3	311	30	6·1	3·7	273	23	4·6	1·0	12
3·0 „	14	8·7	7·8	295	27	9·0	8·1	282	27	6·0	4·6	269	29	4·8	3·2	295	26	6·5	4·8	255	18	4·5	1·9	15
4·0 „	11	7·1	6·4	274	19	10·7	9·5	285	14	8·9	6·4	265	27	7·1	4·3	280	25	7·5	5·8	270	3	3·0	1·8	34
5·0 „	4	12·4	12·3	263	16	13·8	13·2	285	1	6·5	6·5	260	19	8·8	6·7	293	20	8·9	7·1	282				
6·0 „					13	17·3	17·0	283					9	9·4	8·4	292	14	8·4	7·8	269				
7·5 „					5	21·6	21·0	284									8	12·4	11·8	262				
9·0 „					1	27·5	27·5	275									4	15·1	14·8	281				

Height in km.	POONA								PORT BLAIR								QUETTA							
	0700				1600				0600				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	0·3	0·1	270	30	12·9	1·8	275	30	1·6	1·2	262	30	3·1	1·3	250	30	2·8	1·6	246	30	1·5	1·1	223
0·15 a. ground	30	3·0	1·4	255	29	5·1	2·8	275	26	4·3	2·9	256	29	7·9	1·5	248	29	4·3	2·7	275	29	3·2	1·7	242
0·6 a. s. l.	30	1·3	0·7	260	29	3·7	2·2	275	27	4·3	1·7	257	27	4·4	1·6	279								
1·0 „	30	6·2	0·9	313	29	5·7	3·1	272	27	3·9	1·4	253	25	3·5	1·4	300								
1·5 „	29	7·5	1·3	322	30	5·3	2·9	265	25	3·6	0·3	145	22	3·7	1·4	333								
2·0 „	26	5·6	0·7	88	30	4·7	2·2	243	22	3·4	1·3	63	19	4·1	0·8	359	29	5·2	3·5	296	29	4·2	2·1	304
2·5 „	25	4·7	1·1	140	27	4·8	1·6	200	20	4·3	2·5	86	14	4·1	1·1	26	29	6·0	5·0	305	29	5·9	4·5	309
3·0 „	24	4·2	1·9	145	25	5·3	2·2	157	20	4·4	2·9	85	11	2·6	0·8	32	23	5·8	4·8	291	28	7·5	6·7	302
4·0 „	21	4·4	0·8	79	20	5·3	1·9	81	16	5·1	3·1	96	6	3·3	1·3	293	4	6·6	5·9	242	24	8·9	6·7	277
5·0 „	19	6·0	0·9	337	17	4·1	1·2	38	11	6·2	3·2	100	5	3·5	1·5	19					17	8·4	6·5	265
6·0 „	13	7·1	1·9	9	13	6·0	1·4	329	8	6·4	4·0	78	4	4·6	4·4	27					9	9·0	8·0	256
7·5 „	9	7·0	3·4	319	8	6·3	4·1	323					3	4·8	4·5	46					5	15·1	14·7	254
9·0 „	6	5·8	4·7	275	1	2·0	2·0	290					3	3·5	3·5	45					3	23·6	21·1	271

138 B

~~139A~~

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	QUETTA				RAIPUR												RAJSAMAND							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	5·3	4·6	292	30	1·8	0·5	254	30	2·1	1·3	277	30	2·6	2·0	317	30	2·9	2·2	279	30	2·3	1·3	273
0·15 a ground	29	7·4	6·5	285	30	7·0	2·8	303	30	6·1	3·9	290	30	4·8	3·4	307	29	6·7	5·4	226	30	5·7	3·5	264
0·6 a. s. l.					30	7·5	3·7	307	30	8·0	4·8	308	30	5·3	3·8	307								
1·0 „					30	6·8	4·2	312	30	7·9	4·8	318	30	5·4	3·9	305	29	7·3	5·7	274	30	6·5	4·0	284
1·5 „					28	5·9	4·6	304	30	6·1	4·5	309	30	4·4	3·8	295	30	6·4	4·9	288	29	5·4	3·8	298
2·0 „	29	7·7	6·7	288	27	5·4	4·1	292	28	5·6	4·4	302	28	5·3	4·4	292	30	6·4	4·3	286	27	5·9	3·7	288
2·5 „	29	6·8	5·7	291	24	6·0	4·1	288	25	5·9	4·7	299	24	5·9	5·0	298	28	6·5	3·9	265	25	6·1	3·2	278
3·0 „	26	6·1	5·0	293	8	6·6	5·4	292	23	6·7	4·8	294	20	6·7	6·0	306	21	6·3	3·7	259	23	6·6	4·3	269
4·0 „	23	6·7	4·4	280					14	8·3	7·6	316	14	7·8	7·2	306	4	6·1	0·7	115	20	8·8	5·7	263
5·0 „	19	8·9	6·7	275					8	8·7	8·0	300	9	7·5	6·9	297	2	5·3	5·1	288	12	10·0	7·1	277
6·0 „	15	12·0	9·7	266					3	7·5	6·6	268	7	12·0	10·4	292					7	11·2	10·7	269
7·5 „	8	13·9	13·8	272					2	9·3	9·3	258	4	13·2	10·4	298					3	10·8	10·2	289
9·0 „	3	23·5	22·6	281					1	15·0	15·0	260	1	16·0	16·0	300								

Height in km.	RAJSAMAND				SAHARSA												SHARJAH							
	1600				0700				1100				1600											
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	3·7	2·0	284	30	1·9	1·6	68	30	2·7	1·3	72	30	1·9	0·7	289								
0·15 a. ground	30	5·7	2·8	264	29	7·7	3·4	82	30	4·7	2·2	75	30	5·3	2·9	301								
0·6 a s. l.					28	9·2	1·7	246	30	5·8	1·5	74	30	6·9	4·4	290								
1·0 „	30	5·6	3·1	261	27	8·5	5·3	272	27	7·7	4·6	271	29	8·2	6·3	278								
1·5 „	30	5·5	3·6	264	18	7·9	6·5	285	20	8·5	6·7	272	23	8·4	7·5	273								
2·0 „	30	5·7	4·0	264	16	9·2	8·2	291	13	8·7	7·7	275	19	11·0	10·6	281								
2·5 „	30	6·7	4·8	261	12	10·7	10·3	290	9	9·3	8·8	287	16	12·9	12·4	286								
3·0 „	29	7·9	6·1	267	9	12·3	11·3	288	6	14·0	13·7	287	13	13·9	13·7	293								
4·0 „	25	9·4	7·9	269	5	15·6	15·2	293					9	15·2	14·7	289								
5·0 „	21	13·1	11·2	273	1	17·5	17·5	295					3	11·0	10·6	298								
6·0 „	19	15·5	14·2	279									1	16·0	16·0	275								
7·5 „	9	18·5	17·8	279																				
9·0 „	2	24·0	20·8	277																				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	SHARJAH				TEZPUR																TRICHINOPOLY			
					0100				0700				1100				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.					30	1·8	1·6	78	30	2·0	1·9	81	30	2·5	2·5	85	30	1·9	1·7	84	30	3·0	1·3	241
0·15 a. ground					18	8·5	7·7	78	27	8·6	8·4	78	28	7·3	7·1	79	30	6·6	5·9	80	30	5·2	2·4	210
0·6 a. s. l.					16	6·4	4·2	105	27	7·3	6·8	91	28	5·7	5·3	87	30	5·3	3·5	89	30	6·1	3·1	212
1·0 „					15	5·3	1·3	146	27	5·5	1·9	113	25	5·4	2·2	133	30	4·6	2·1	215	30	5·4	2·5	213
1·5 „					14	5·4	3·2	244	25	6·9	4·2	250	22	7·7	5·5	247	29	6·1	5·4	240	28	4·5	1·1	188
2·0 „					9	7·2	4·9	260	19	8·3	6·9	258	20	9·9	9·2	245	25	10·6	10·4	247	26	5·7	3·3	64
2·5 „					5	4·9	3·1	263	13	8·9	7·0	257	14	8·5	7·4	252	19	11·4	11·1	248	26	7·2	5·1	64
3·0 „					4	4·1	3·5	252	9	7·6	5·4	257	10	7·9	6·8	251	16	11·7	11·1	248	24	8·4	6·2	64
4·0 „									5	5·0	3·4	251					8	8·7	6·6	251	4	1·9	0·6	10
5·0 „									3	4·7	3·4	259					6	8·2	5·5	287	1	1·5	1·5	120
6·0 „									2	5·5	3·7	264					4	7·6	4·0	279				
7·5 „									1	14·5	14·5	335					1	8·5	8·5	300				
9·0 „									1	19·5	19·5	305												

Height in km.	TRICHINOPOLY								TRIVANDRUM				VENGURLA											
	0700				1600				0700				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·3	2·4	265	30	2·7	1·5	232	30	2·3	2·0	357	30	0·7	0·2	251	30	0·9	0·2	147	30	4·3	3·6	260
0·15 a. ground	30	6·4	4·5	269	30	4·3	1·9	205	30	5·2	4·2	350	29	3·6	1·5	334	30	4·0	0·9	74	30	5·9	4·8	271
0·6 a. s. l.	30	7·7	4·3	262	30	4·9	1·5	205	30	7·1	5·9	325	29	5·8	3·0	339	30	6·1	1·1	271	30	6·3	3·9	272
1·0 „	29	6·1	2·8	263	30	4·9	1·0	210	29	7·4	5·4	315	25	6·3	3·0	319	26	7·5	1·7	352	27	4·8	2·8	288
1·5 „	28	4·9	0·3	74	30	4·5	0·7	74	28	5·9	3·1	323	17	5·6	2·3	340	20	7·5	2·5	57	23	4·4	1·8	40
2·0 „	28	6·4	4·3	74	26	4·5	1·9	32	28	5·5	2·3	52	12	6·1	3·4	80	16	6·0	3·3	65	22	5·1	2·7	81
2·5 „	27	8·5	6·7	72	26	6·9	4·9	53	25	6·4	3·8	62	5	8·1	2·1	123	15	7·1	4·5	93	22	7·7	4·3	90
3·0 „	27	8·9	6·9	65	24	8·1	6·5	49	25	6·6	4·3	55	2	6·3	5·7	95	14	8·1	5·6	101	22	8·5	6·1	94
4·0 „	23	7·4	5·3	74	20	6·6	5·3	46	17	6·1	2·3	55					8	6·7	5·3	91	22	7·5	6·9	80
5·0 „	17	6·4	5·2	84	16	5·1	4·4	57	12	4·1	3·5	89					3	6·3	3·3	31	19	6·7	5·6	71
6·0 „	14	6·0	5·2	73	14	7·0	6·3	47	10	5·1	4·8	73					2	6·0	3·3	110	14	6·1	2·2	72
7·5 „	11	6·1	4·9	80	10	6·5	6·0	61	6	3·3	2·5	54					1	10·0	10·0	95	5	5·9	4·9	23
9·0 „	8	5·4	4·5	78	10	6·3	5·8	73	3	3·8	3·3	79					1	6·0	6·0	130	2	5·0	4·4	322

138 D
~~1390~~

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

APRIL 1947

Height in km.	VERAVAL												VIZAGAPATAM											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D		V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	6·1	3·6	298	30	5·1	2·6	320	30	7·9	5·3	271	30	1·9	1·8	250	30	1·4	1·1	255	30	3·5	3·3	189
0·15 a. ground	29	8·4	6·2	305	28	7·4	5·0	320	28	8·8	6·5	267	29	7·5	7·2	244	30	6·2	5·7	260	30	6·9	6·5	199
0·6 a. s. l.	29	7·7	4·7	309	28	8·1	4·8	315	27	6·2	3·9	274	28	9·5	8·9	243	29	8·7	7·6	260	30	5·7	4·9	225
1·0 „	24	6·5	1·7	319	27	5·9	3·2	305	23	5·0	2·9	320	26	6·4	5·3	251	28	7·5	5·9	246	29	4·1	2·8	227
1·5 „	20	4·8	1·1	260	24	5·3	2·1	300	24	5·6	1·9	342	26	4·7	1·8	242	25	4·7	2·2	261	29	4·7	1·2	18
2·0 „	17	5·6	2·5	241	21	5·5	2·5	284	24	6·1	1·8	342	24	4·3	1·7	37	22	4·4	1·2	15	27	5·2	2·7	20
2·5 „	8	5·6	3·3	191	20	5·6	2·2	251	22	6·0	0·6	278	18	5·6	4·3	29	18	5·9	3·4	38	26	5·8	4·1	7
3·0 „	8	6·3	4·2	196	19	7·2	3·7	238	20	6·0	1·1	254	11	6·5	5·1	15	18	6·6	4·4	30	26	7·0	5·7	4
4·0 „					19	8·9	4·5	232	18	7·0	2·7	242	1	6·5	6·5	5	13	6·3	5·1	16	26	5·1	4·5	354
5·0 „					13	9·6	3·0	249	16	7·4	4·7	271					9	4·7	2·9	21	25	5·9	4·1	345
6·0 „					10	10·1	7·6	283	15	9·0	7·0	265					8	6·2	2·2	18	23	6·1	3·3	304
7·5 „					7	13·8	10·1	263	8	12·6	11·6	252					7	6·1	2·2	271	18	7·4	4·1	295
9·0 „					4	8·6	3·9	267	7	15·0	13·7	242					4	6·1	4·2	249	16	7·7	5·4	280

Table B—Monthly mean directions and velocities of upper winds

Winds above 9 km. above sea level

APRIL 1947

Height in km.	n	V	v	D
AMBALA				
10·0 ..	1	24·5	24·5	310
ANANTAPUR				
10·0 ..	1	3·5	3·5	135
11·0 ..	1	8·5	8·5	160
CHHOR				
10·0 ..	1	23·0	23·0	245
CHITTAGONG				
10·0 ..	2	21·3	20·3	302
11·0 ..	2	23·0	21·3	301
12·0 ..	2	23·7	23·0	307
13·0 ..	1	25·0	25·0	275
COCHIN				
10·0 ..	2	8·0	8·0	89
11·0 ..	2	7·0	7·0	97
12·0 ..	1	12·0	12·0	95
CUTTACK				
10·0 ..	8	10·5	10·1	270
11·0 ..	5	11·3	10·4	273
12·0 ..	3	10·5	9·9	264
13·0 ..	2	7·3	6·1	273
14·0 ..	2	6·3	4·5	278
DALBANDIN				
10·0 ..	1	16·0	16·0	250
DROSH				
10·0 ..	5	17·8	16·3	274
11·0 ..	4	21·0	20·0	269

Height in km.	n	V	v	D
HYDERABAD				
10·0 ..	11	5·4	2·2	305
11·0 ..	9	5·4	2·8	285
12·0 ..	7	5·1	4·3	253
13·0 ..	6	5·3	3·5	255
14·0 ..	4	7·0	4·3	222
15·0 ..	3	7·2	5·4	185
16·0 ..	2	12·5	12·3	199
17·0 ..	2	15·0	14·7	200
18·0 ..	2	14·3	14·1	208
19·0 ..	2	19·5	19·3	212
20·0 ..	1	18·5	18·5	215
MADHOSAGAR				
10·0 ..	4	43·5	43·5	330
MADRAS				
10·0 ..	1	3·5	3·5	85
11·0 ..	1	6·0	6·0	80
12·0 ..	1	9·5	9·5	125
13·0 ..	1	4·5	4·5	105
14·0 ..	1	8·5	8·5	85
15·0 ..	1	11·0	11·0	90
MALEGAON				
10·0 ..	1	22·0	22·0	260
MASULIPATAM				
10·0 ..	11	4·4	1·6	273
11·0 ..	7	6·1	1·3	335
12·0 ..	6	6·2	2·1	5
13·0 ..	4	4·4	0·6	284
14·0 ..	2	5·0	2·5	184

Height in km.	n	V	v	D
NAGERCOIL				
10·0 ..	14	6·4	4·3	75
11·0 ..	14	8·5	7·7	86
12·0 ..	13	10·6	9·7	89
13·0 ..	13	11·6	10·7	94
14·0 ..	10	14·4	12·3	107
15·0 ..	10	17·9	17·7	106
16·0 ..	7	25·1	23·4	104
17·0 ..	6	23·1	21·8	94
18·0 ..	3	26·0	25·2	87
19·0 ..	2	20·5	20·5	105
20·0 ..	1	29·0	29·0	100
21·0 ..	1	19·0	19·0	120
22·0 ..	1	37·0	37·0	120
NAGPUR				
10·0 ..	2	9·5	5·9	262
NEW DELHI				
10·0 ..	1	43·0	43·0	270
POONA				
10·0 ..	1	2·0	2·0	290
PORT BLAIR				
10·0 ..	2	3·3	2·2	63
11·0 ..	2	4·5	4·5	67

Height in km.	n	V	v	D
TRICHINOPOLY				
10·0 ..	7	5·6	5·1	70
11·0 ..	5	7·0	6·1	92
12·0 ..	4	9·6	7·9	80
13·0 ..	2	7·3	7·0	80
14·0 ..	2	12·7	12·5	97
15·0 ..	1	16·5	16·5	110
16·0 ..	1	15·0	15·0	106
17·0 ..	1	15·0	15·0	106
18·0 ..	1	21·0	21·0	96
19·0 ..	1	17·5	17·5	140
20·0 ..	1	10·5	10·5	120
VENGURLA				
10·0 ..	2	4·5	3·1	269
11·0 ..	1	2·0	2·0	230
12·0 ..	1	1·5	1·5	130
VERAVAL				
10·0 ..	1	24·0	24·0	220
VIZAGAPATAM				
10·0 ..	9	5·5	4·2	297
11·0 ..	5	6·4	4·2	230
12·0 ..	3	6·0	3·4	258
13·0 ..	2	3·7	2·8	40
14·0 ..	2	6·0	1·5	340
15·0 ..	1	11·0	11·0	350
16·0 ..	1	7·5	7·5	360
17·0 ..	1	8·0	8·0	10
18·0 ..	1	10·5	10·5	60
19·0 ..	1	9·0	9·0	60

H32DGOB—325—4-11-52—G1PS

Registered No. B-3097

INDIA WEATHER REVIEW, 1947

Monthly Weather Report

MAY

Published by authority of the Government of India.

Chief features :—(1) A temporary advance of the Arabian Sea branch of the southwest monsoon into the Comorin area and the neighbourhood on the 29th May, (2) fairly widespread thunderstorm-rain over Assam, and (3) sub-normal thunderstorm activity in the Peninsula.

Northeast India had fairly good thunderstorm activity during the month especially in the last week when rainfall was widespread in Assam and east Bengal. Bihar and the United Provinces reported local thunderstorms on about ten days in the month. According to press reports, violent thunderstorms in Assam on a day in the first week caused severe damage to about 50 boats which capsized with passengers and cargo in the river Surma in the Sunamganj area. Many houses collapsed and a large number of trees were uprooted.

Thunderstorms occurred locally in Malabar throughout the month except for comparative brief spells. However, the thunderstorm activity in Mysore, the Konkan, southeast Madras and the Bombay Deccan, was considerably below the normal for the month.

During the month six western disturbances and a low pressure area affected northwest India. The low pressure area formed over the southwest Punjab on the 1st and while moving northeastwards across the Punjab hills gave local to widespread showers in Kashmir on the first four days of the month and in the North-West Frontier Province and the Punjab hills on the 2nd and 3rd. The first western disturbance gave scattered light showers in Baluchistan and local showers in the North-West Frontier Province and Kashmir on the 11th. The next four disturbances were feeble and caused local showers in the North-West Frontier Province and Kashmir. The last western disturbance was responsible for local duststorms and dust-raising winds in the North-West Frontier Province, the Punjab and the west United Provinces on the 27th and 28th. According to press reports, trees and telegraph and telephone poles were uprooted on the 27th evening at Cawnpore. Isolated showers were also reported from the rest of the country during the month.

Throughout the month day temperatures were appreciably above normal over the country, especially in the Punjab, the United Provinces and Central India.

The total rainfall of the month was normal in Assam, Kashmir and the Bombay Deccan and in slight defect in Bengal, Chota Nagpur, Bihar and the east United Provinces. It was in moderate defect in the Bay Islands, Baluchistan, the west Central Provinces and Mysore and in large defect elsewhere except in Gujarat where no rain fell. Averaged over the plains of India, the month's rainfall was 35% in defect.

The maximum temperature was normal in northeast India, the United Provinces, Baluchistan, Gujarat, west Central India, the west Central Provinces, and in the Peninsula outside south Hyderabad and above normal elsewhere.

The minimum temperature was above normal in the east and north Punjab, the North-West Frontier Province and the east Central Provinces and normal elsewhere.

The mean relative humidity was below normal in the North-West Frontier Province, Baluchistan and west Rajputana and normal elsewhere.

The mean cloud amount was above normal in Chota Nagpur and the west Central Provinces and below normal in the Punjab, Rajputana, west Central India, north Hyderabad and the Madras Deccan. Elsewhere it was normal.

Table I contains the divisional and sub-divisional means of rainfall, temperature and humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

N. B.—**The Indian Standard Time used in this publication is 5 hrs. 30 mins. in advance of G. M. T.**

POONA 5:
The 14th July, 1947.

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

Errata to India Weather Review, 1947

Monthly Weather Report

May.

Station	Page Number	Column	For	Read
-	139	Para.6,line 4	Av raged	Averaged
Hyderabad	141	1	Do. o suth	Do. South
Sandheads	142	19	+.04	+0.4
Comilla	143	28	1-13	-1.13
Gulmarg	147	53	Gulmarrg	Gulmarg
-	149	37 & 39, to 41	Blank, W, W, S	E, S, SW, W
Amraoti	149	34	+.14	+ 1.4
Bidar	151	26	.0	6.0
Hyderabad	152	1	Hyderaabd	Hyderabad
Pabna	156	13	+.07	+ 0.7
Kargil	156	23	Calve	Calm
Balehonnur	156	22	-50	-5.0

—	Rainfall.				Departure from normal of				
							8 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.	"	"	"		°	°	mbs.	%	
1. Assam ..	11·36	12·36	—1·00	—8	+1·0	+0·5	+0·3	—3	—0·3
2. Bengal ..	7·36	8·41	—1·05	—12	+0·6	+0·9	+1·0	0	+0·5
3. Orissa ..	1·04	2·93	—1·89	—65	+1·6	+1·9	+0·9	0	+0·3
4. Bihar ..	1·78	2·03	—0·25	—12	+1·6	+0·7	+1·2	+1	+0·2
5. United Provinces.	0·35	0·70	—0·35	—50	+1·6	+1·3	+0·6	—1	—0·2
6. Punjab ..	0·09	0·56	—0·47	—84	+4·6	+2·3	—0·5	—2	—0·3
7. North-West Frontier Province.	0·10	0·73	—0·63	—86	+2·2	+2·9	—1·8	—6	+0·1
8. Sind ..	0·05	0·15	—0·10	—67	+2·0	—0·3	—1·4	—2	—0·2
Sub-division.									
1. Bay Islands..	8·12	15·13	—7·01	—46	+2·3	+1·5	+1·3	+1	+0·9
2. Assam ..	11·36	12·36	—1·00	—8	+1·0	+0·5	+0·3	—3	—0·3
3. Bengal ..	7·36	8·41	—1·05	—12	+0·6	+0·9	+1·0	0	+0·5
4. Orissa ..	1·04	2·93	—1·89	—65	+1·6	+1·9	+0·9	0	+0·3
5. Chota Nagpur	1·81	2·10	—0·29	—14	+1·6	+0·6	+1·8	+2	+1·0
6. Bihar ..	1·76	1·99	—0·23	—12	+1·7	+0·8	+0·7	0	—0·5
7. United Provinces, East.	0·56	0·75	—0·19	—25	+1·5	+1·3	+0·9	0	—0·1
8. Do. do. West	0·14	0·64	—0·50	—78	+1·7	+1·4	+0·2	—2	—0·3
9. Punjab, East and North.	0·21	0·84	—0·63	—75	+4·6	+3·7	—0·8	—3	—0·4
10. Do. South-west.	0·01	0·37	—0·36	—97	+4·6	+1·3	—0·3	—1	—0·3
11. Kashmir ..	1·26	1·22	+0·04	+3	+2·4	+1·1	—0·5	—3	—0·2
12. North-West Frontier Province.	0·10	0·73	—0·63	—86	+2·2	+2·9	—1·8	—6	+0·1
13. Baluchistan..	0·12	0·18	—0·06	—33	+0·5	—0·4	—2·2	—6	—0·1
14. Sind ..	0·05	0·15	—0·10	—67	+2·0	—0·3	—1·4	—2	—0·2
15 Rajputana, West.	0·04	0·39	—0·35	—90	+3·0	+1·2	—2·6	—8	—0·5
16. Do. East ..	0·06	0·55	—0·49	—89	+2·1	+1·9	—1·7	—5	—0·3
17. Gujarat ..	0	0·33	—0·33	—100	+0·1	+0·2	+1·3	+5	—0·4

—	Rainfall.				Departure from normal of				
							8 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.	"	"	"		°	°	mbs.	%	
9. Rajputana ..	0·05	0·47	—0·42	—89	+2·5	+1·6	—2·1	—6	—0·4
10. Bombay ..	0·56	1·02	—0·46	—45	+0·8	0	+0·5	+3	—0·4
11. Central India	0·03	0·50	—0·47	—94	+2·1	+0·9	+0·8	+2	—0·3
12. Central Provinces and Berar.	0·30	0·81	—0·51	—63	+2·0	+1·9	—0·2	—2	+0·7
13. Hyderabad ..	0·29	0·95	—0·66	—69	+2·2	+1·6	+0·4	—1	—0·5
14. Mysore ..	3·18	4·29	—1·11	—26	+1·7	+1·2	+0·9	+4	0
15. Madras ..	1·08	3·13	—2·05	—65	—0·1	+1·0	+0·7	0	—0·3
Mean of India	1·38	2·12	—0·74	—35	+1·8	+1·2	+0·1	—1	—0·1
Sub-division—contd.									
18. Central India, West.	0·03	0·55	—0·52	—95	+1·7	+1·5	0	+2	—0·3
19. Do. do East	0·03	0·42	—0·39	—93	+2·6	+0·1	+1·9	+2	—0·2
20. Berar ..	0·03	0·47	—0·44	—94	+2·1	+0·9	+0·7	+1	—0·1
21. Central Provinces, West.	0·39	0·56	—0·17	—30	+1·8	+1·1	—0·7	—2	+1·1
22. Do do. East	0·29	1·24	—0·95	—77	+2·2	+3·1	0	—2	+0·5
23. Konkan ..	0·11	2·09	—1·98	—95	+0·4	+0·2	—0·3	—2	—0·8
24. Bombay Deccan	1·38	1·30	+0·08	+6	+1·7	—0·3	0	+1	—0·3
25. Hyderabad, North.	0·11	0·77	—0·66	—86	+1·8	+1·7	—0·8	—5	—0·9
26. Do.o Suth ..	0·47	1·13	—0·66	—58	+2·5	+1·4	+1·3	+1	—0·3
27. Mysore ..	3·18	4·29	—1·11	—26	+1·7	+1·2	+0·9	+4	0
28. Malabar ..	2·97	8·98	—6·01	—67	+1·1	+1·6	+0·9	—1	—0·5
29. Madras South-east.	0·92	2·16	—1·24	—57	—0·6	+0·9	+1·2	+2	+0·2
30. Dc. Deccan	0·74	1·81	—1·07	—59	+1·7	+1·1	—0·4	—5	—1·1
31. Do. Coast, North.	0·24	1·70	—1·46	—86	—1·2	+0·8	+0·4	+2	—0·3

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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 ..	261	1001·1	+1·4	998·1	89·0	+2·3	92	10,12, 18	76·5	+1·5	73	24	83·5	82·9	79·0	78·0	31·8	+1·3	30·5	82	+1	80
Assam																						
Dibrugarh	348	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sibsagar	317	996·0	+0·2	992·7	87·7	+2 5	96	4 days	72·3	+1·1	65	1	79·7	83·1	74·7	76·3	27·1	—0·3	27·8	79	—8	72
Tezpur	258	999·2	+0·3	994·7	88·7	+1·9	99	19	73·0	+0·7	67	1	78·4	83·7	73·8	75·8	26·4	—0·3	26·8	81	—3	69
Gauhati	182	1001·3	+0·7	996·5	88·3	+0·6	99	19	72·9	+0·5	66	1, 4	79·6	85·0	75·0	76·1	27·6	+0·7	26·7	81	—1	66
Dhubri	115	1003·7	+1·0	999·6	86·6	+0·8	97	20	73·9	+0·9	67	5	78·6	85·1	75·0	77·6	29·1	+1·8	28·9	84	—1	71
Silchar	96	1004·9	+0·7	1000·6	88·7	0	97	18	73·7	+1·1	67	4, 5	79·6	84·9	75·0	77·0	27·6	—0·5	28·0	81	—2	70
Srimangal ..	69	1005·1	+0·5	1001·0	90·1	—1·0	98	18	73·1	+0·9	66	5	79·2	85·3	75·9	78·5	28·9	+0·2	30·1	86	+4	74
Bengal																						
Cox's Bazar ..	38	1006·5	+0·9	1003·7	91·7	+2·9	96	21	77·5	+1·6	79	24	85·9	85·3	79·6	79·2	31·6	+0·5	31·3	75	—5	76
Chittagong ..	87	1004·2	+0·2	1001·1	90·2	+1·3	95	4 days	77·3	+1·8	69	5	84·6	85·2	78·7	78·9	30·8	+0·7	30·8	76	—3	75
Noakhali (*R*) ..	22																					
Comilla	29	1006·1	+0·6	1002·3	91·4	+0·3	97	11, 17, 19	76·6	+1·7	69	5	84·3	87·0	79·1	79·7	31·7	+1·0	31·2	79	+2	72
Brahmanbaria ..	32	1005·9	..	1001·9	90·8	—1·2	98	17, 18	75·9	+3·1	68	5	83·1	86·3	78·7	79·1	31·5	+2·8	30·7	82	+6	72
Narayanganj (*R*) ..	26																					
Mymensingh	62	1005·0	+0·4	1000·6	99·5	+1·2	99	19	75·3	+1·1	68	5, 7	81·8	87·1	77·6	80·1	30·5	+2·1	31·9	82	+2	73
Faridpur	46	1004·6	+0·5	1000·6	90·0	—1·7	95	11, 19	74·7	—0·2	68	11	81·2	87·1	78·5	77·2	31·9	+0·6	27·3	78	—2	71
Barisal (*R*) ..	11																					
Khulna (*R*) ..	16																					
Jessore	26	1005·2	+0·6	1000·7	94·8	+0·9	105	10	75·2	—0·6	69	13	84·4	91·1	81·0	83·2	34·5	+2·7	35·1	85	+5	71
Satkhira	16	1005·4	+0·8	1001·6	95·3	—0·1	100	9,10,13	76·2	—1·2	69	24	86·1	90·0	81·2	81·3	34·1	+1·3	32·6	80	+2	69
Dum Dum ..	33	1004·2	..	1000·1	96·9	..	103	9, 13	79·5	..	73	3	85·7	92·1	79·8	80·7	33·1	..	30·5	76	..	61
Calcutta	21	1004·5	+0·3	1000·4	97·0	+1·4	103	9, 13	80·4	+2·9	73	3	86·0	92·0	81·1	82·2	33·9	+2·5	33·1	79	+2	65
Saugor Island ..	10	1005·1	+0·5	1001·7	90·7	—0·3	92	15, 16	82·3	+1·7	73	25	87·2	87·1	81·7	81·9	34·5	+1·2	35·6	78	0	80
Sandheads ..	28	1004·8	+0·6	1000·9	..	..	..	..	..	..	..	..	85·4	85·8	83·9	84·3	34·4	+·04	39·8	93	+11	94
Midnapore ..	149	999·8	+0·3	995·2	102·3	+2·4	109	9, 11, 18	80·3	+1·6	75	4 days	86·0	95·8	79·4	81·6	31·3	+1·2	30·5	73	+1	54
Burdwan	106	1001·3	+0·3	996·6	98·8	+0·7	107	10	78·5	+1·0	73	6, 17	84·5	95·9	79·2	79·1	31·6	+1·2	26·1	79	+2	46
Krishnagar ..	48	1003·6	+0·4	999·4	96·3	—0·4	106	9	76·2	—0·4	71	15	84·4	92·2	80·0	81·2	32·9	+2·3	31·3	82	+4	62
Asansol ..	414	990·5	+0·6	986·0	102·6	+0·4	111	5	79·5	+1·3	73	6	86·3	97·5	75·4	76·5	30·9	+3·1	26·1	73	+7	49
Berhampore ..	62	1003·5	+0·5	998·5	98·5	+1·4	105	9	76·5	—0·2	70	1	84·8	92·5	78·3	79·6	28·4	—1·4	30·1	74	—2	56
Bogra	63	1003·9	+0·3	999·3	92·6	+0·2	99	17	74·3	0	62	5	81·7	88·5	76·5	78·4	28·9	+0·3	28·6	78	0	64
Malda	103	1002·3	+0·7	997·4	95·2	—0·2	102	9	75·5	+0·2	68	6	83·6	91·9	77·2	79·1	28·8	+0·3	27·9	74	0	56
Dinajpur	123	1001·9	+0·5	997·3	93·8	+2·0	102	9	74·6	+0·4	68	6	81·3	90·6	75·6	78·4	27·7	+0·3	27·7	77	—1	58
Jalpaiguri ..	271	997·6	+0·5	993·0	88·8	—0·7	96	19	73·3	+0·7	68	1, 5	79·1	86·1	73·7	76·3	25·9	—1·2	26·4	77	—5	63
Orissa																						
Balasore ..	65	1002·7	+0·4	998.7	93·2	+2·1	107	31	80·8	+2.0	75	10	87·4	91·1	80·3	81·1	32·1	+1·2	31·7	73	0	65
Chandbali ..	20	1004·8	+1·0	1000·7	100·5	+3·1	108	11	80·9	+1·7	74	20	86·7	93·3	80·8	81·0	33·1	+1·3	30·4	77	+1	58
Puri	20	1005·2	+0·9	1001·5	88·5	—1·1	90	4 days	82·9	+1·8	78	22	85·1	85·7	81·7	81·5	35·4	+1·4	34·9	85	+1	83
Gopalpur	56	1003·7	+0·7	1000·0	89·6	—0·7	99	12	81·1	+1·0	79	10, 13	84·5	84·2	81·2	81·8	34·8	+1·3	36·0	86	+4	90
Cuttack	87	1002·0	—0·1	997·7	102·5	+1·1	110	13, 15	81·9	+2·0	74	20	87·3	94·5	80·1	79·3	31·9	+0·8	27·3	73	0	50
Angul	455	989·6	+0·7	984·4	107·1	+3·6	115	24	81·5	+2·5	76	8	87·6	100·8	77·7	75·9	27·9	—0·6	19·1	63	—6	30
Sambalpur ..	486	987·7	—0·1	983·0	110·3	+3·8	116	24,25	83·5	+2·3	73	1	90·5	107·5	76·7	75·9	25·0	+1·0	16·2	52	+1	20

(*R*)—Register not received.

Clouds amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																				STATION.
											8 hrs. I. S. T.										17 hrs. I. S. T.										
8 hrs. I. S. T.	Departure from normal	Mean 17 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 Island
9	+6·9	8·0	8·12	—7·01	2·66	24	9	—7·3	5·5	—3·1	0	0	1	0	0	9	16	4	1	6	1	0	0	1	6	13	8	2	Port Blair.
																													Assam.
	..	..	8·60	—3·40	2·10	29	13	—2·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Dibrugarh.
1	—1·5	3·3	10·24	—1·82	1·70	6	15	—0·6	2·8	+0·4	5	9	5	2	3	3	1	1	2	3	4	3	2	4	5	3	1	1	Sibsagar.
5	—1·0	4·0	10·00	—0·65	2·85	27	12	—3·3	2·3	—0·5	1	5	13	3	0	0	0	0	9	0	2	12	0	1	1	1	0	14	Tezpur.
5	0·3	5·3	10·17	+0·88	1·78	31	12	—1·5	2·7	+0·8	2	8	4	6	2	4	1	3	1	3	10	6	4	0	4	2	2	0	Gauhati.
0	+0·8	7·0	11·86	—3·93	3·95	27	12	—3·5	4·7	—1·0	1	14	9	1	3	2	0	0	1	0	8	4	0	3	5	1	1	9	Dhubri.
2	0	4·9	16·31	—0·11	2·31	28	15	—1·4	1·7	+0·3	0	7	4	11	2	0	1	0	6	1	5	1	3	0	1	5	10	5	Silchar.
4	+0·2	5·8	17·34	+1·55	6·41	31	16	+0·7	3·7	—0·1	3	7	3	6	8	2	0	1	1	2	6	0	7	7	4	3	2	0	Srimangal.
																													Bengal.
5	0	4·2	12·42	—0·32	3·40	25	8	—2·5	1·7	—2·4	0	0	0	9	7	0	1	0	14	0	0	1	5	4	6	2	0	13	Cox's Bazar.
7	+0·2	4·2	8·97	—1·45	2·69	25	9	—1·8	7·7	+0·3	0	0	4	13	7	0	0	0	7	1	1	1	2	12	11	1	1	1	Chittageng.
																													Noakhali (*R*).
3	+1·5	6·3	11·26	1—13	2·21	24	14	+2·2	7·4	+2·3	0	1	1	3	18	1	1	0	6	0	1	1	4	20	1	1	0	3	Comilla.
2		4·8	13·81	+2·02	3·78	24	9	—2·7	4·2	..	0	0	3	3	23	1	0	0	1	0	0	0	9	12	2	0	0	8	Brahmanbaria.
																													Narayanganj (*R*).
1	—0·5	4·9	11·54	—0·92	3·11	27	12	—1·0	3·3	+0·7	0	1	14	4	1	0	0	0	11	0	0	11	7	0	0	0	1	12	Mymensingh.
3	+1·2	5·0	7·74	—1·88	1·42	22	11	0	7·4	0	0	1	1	11	11	1	0	1	5	0	1	2	13	11	0	0	1	3	Faridpur.
																													Barisal (*R*).
																													Khulna (*R*).
	—1·7	4·4	12·39	+4·27	5·54	22	10	+0·9	6·5	+3·0	1	1	0	6	21	2	0	0	0	0	0	1	10	13	4	0	0	3	Jessore.
	+1·1	5·8	9·93	+3·06	3·83	22	11	+2·8	5·3	+1·4	1	0	0	6	19	0	0	1	4	1	0	3	2	21	2	0	0	2	Satkhira.
	..	4·9	7·10	..	4·16	22	8	..	..	..	0	0	2	3	17	7	0	0	2	0	0	1	2	22	6	0	0	0	Dum Dum.
	+0·1	5·0	5·33	+0·34	2·22	22	7	+0·1	4·9	—0·1	0	1	1	1	7	16	3	0	2	0	0	0	3	13	13	1	0	1	Calcutta.
	—0·5	5·6	3·18	—1·34	1·26	25	3	—2·5	21·2	+7·7	0	0	0	0	9	22	0	0	0	0	0	0	0	20	11	0	0	0	Sangor Island.
	—0·9	3·4	0·30	—1·67	0·22	25	1	—2·2	..	..	0	0	0	1	9	21	0	0	0	0	0	0	0	14	17	0	0	0	Sandheads.
	+2·6	7·4	2·91	—1·83	0·66	26	7	+0·1	6·9	+2·6	0	0	0	0	19	10	0	0	2	0	0	3	2	23	2	0	0	1	Midnapore.
	—0·2	4·5	3·99	—1·97	1·22	20	7	—0·2	7·0	+3·8	1	1	3	6	5	12	1	1	1	1	1	6	8	7	6	0	0	2	Burdwan.
	+0·7	4·8	6·83	+0·12	1·39	3	14	+6·1	5·8	+0·2	0	2	3	7	12	3	0	1	3	0	0	1	11	11	2	1	2	3	Krishnagar.
	0·1	3·7	3·14	+0·21	0·81	20	3	—1·4	..	..	1	0	5	11	2	2	1	0	9	1	0	2	9	3	1	1	2	12	Asansol
	0·4	4·6	3·03	—2·30	0·81	28	7	—0·3	2·9	—0·9	0	0	6	14	10	1	0	0	0	2	0	7	6	13	1	0	0	2	Berhampore.
	0·1	5·2	4·96	—3·44	1·17	3	8	—1·6	3·2	+0·4	0	1	21	4	2	1	0	0	2	0	2	13	6	5	2	0	0	3	Berna.
	0·6	3·1	3·11	—1·49	1·01	6	5	—0·6	4·8	—0·8	0	2	12	6	8	1	0	2	0	1	4	13	8	3	0	1	0	1	Malda.
	0	4·6	5·29	—2·05	1·20	31	10	+1·3	1·4	—2·0	0	9	5	2	1	0	0	0	14	1	6	3	4	1	0	1	0	15	Dinajpur.
	—1·0	5·3	5·76	—6·06	1·63	31	10	—3·1	4·3	+1·8	4	7	13	0	1	2	1	0	3	3	8	12	6	3	0	1	0	1	Jalpaiguri.
																													Orissa.
	+2·3	6·4	2·28	—2·35	1·23	9	3	—2·9	8·7	+3·0	0	0	0	1	14	15	0	0	1	0	1	1	9	13	4	1	2	0	Balasore.
	0	2·8	2·21	—3·37	0·96	21	3	—2·4	11·5	+1·4	0	0	0	2	22	7	0	0	0	0	0	0	2	27	0	1	1	0	Chandbali.
	+0·2	4·2	1·20	—1·66	0·84	22	2	—1·2	19·3	+6·0	0	0	0	0	4	26	1	0	0	0	0	0	0	3	26	2	0	0	Puri.
	+1·0	5·5	0·18	—1·95	0·18	22	1	—2·1	24·4	+11·6	0	0	0	0	9	22	0	0	0	0	0	0	0	9	22	0	0	0	Gopalpur.
	+0·1	4·7	1·80	—1·77	1·00	26	2	—3·2	6·3	+2·5	0	0	0	0	9	11	1	0	10	0	0	0	2	14	13	0	1	1	Cuttack.
	0	5·9	0·70	—1·65	0·26	25	3	—1·7	9·4	+3·8	1	3	6	8	1	0	1	1	10	0	2	5	10	6	2	2	1	3	Angul.
	+0·6	4·8	0·14	—0·94	0·10	10	1	—1·3	4·8	+1·5	0	1	7	3	10	4	0	0	6	3	1	0	0	2	9	7	5	4	Sambalpur.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
Chota Nagpur																						
Jamshedpur	423	990·0	+0·8	985·3	104·2	+1·3	110	5, 17	81·1	+1·9	73	26	88·2	100·1	77·6	76·7	27·5	+1·2	20·7	61	0	
Chaibasa	742	979·3	+0·5	974·3	106·1	+2·1	112	19	81·0	+1·8	74	27	87·2	100·6	78·7	79·2	29·6	+3·6	24·2	68	+6	
Ranchi	2,150	933·1	+0·5	929·3	99·3	+0·7	106	30, 21	74·1	—1·2	67	20, 26	85·8	94·1	71·0	70·5	19·3	+0·1	16·1	51	+1	
Hazaribagh ..	2,006	937·6	+0·8	933·6	101·7	+2·3	107	31	76·1	+0·6	67	6	86·1	94·8	71·9	69·7	20·5	+2·1	13·9	51	+3	
Daltonganj ..	725	978·9	—0·1	974·2	107·7	+1·5	113	4 days	78·6	—0·1	67	1	91·0	104·3	73·9	74·1	20·8	+1·9	15·1	41	—2	
Dhanbad	839	975·6	..	..	98·8	..	107	5	78·1	..	69	25	86·0	..	76·0	..	26·1	..	..	63	..	
Bihar																						
Purnea	124	1001·5	+0·5	996·6	95·2	+0·4	104	20	74·4	0	66	8	82·8	91·9	75·4	78·8	26·7	—0·4	27·7	70	—5	
Darbhanga ..	161	999·6	+0·5	995·0	97·8	+1·6	105	19	75·8	+0·3	68	11	84·0	94·8	75·4	78·4	26·2	+0·8	25·6	67	0	
Motihari ..	218	997·5	+0·6	992·7	95·3	—3·8	103	18	75·0	+0·3	64	8	85.5	91.5	75.4	78.6	25.5	—0.7	27.4	61	—5	
Patna	173	998·3	+0·3	993·7	101·9	+1·6	108	16	78·5	+0·4	73	5, 7	85·6	99·0	75·2	77·6	25·1	0	22·5	60	—1	
Dehri	..	991·7	..	986·7	107·3	..	115	31	80·7	..	71	6	88·9	103·7	73·9	74·1	21·7	..	15·3	48	..	
Gaya	365	991·0	+0·2	986·6	107·0	+2·4	115	31	81·7	+1·9	71	6	90·8	103·5	74·1	73·6	21·0	+1·4	14·6	44	+5	
Naya Dumka ..	489	987·8	0	984·0	101·1	+2·1	110	10	78·4	+1·1	72	30	85·2	96·2	77·1	75·9	28·1	+1·8	19·2	69	+4	
Sabour	122	1000·7	+0·8	995·7	100·4	+2·1	107	17	77·0	+1·3	68	6	85·5	96·4	76·2	77·6	26·5	+0·8	23·6	64	—3	
U. P. East																						
Gonda	360	992·2	..	987·4	103·6	+0·9	109	18	78·9	+1·1	70	6, 7	85·8	102·2	72·5	74·9	21·2	+0·7	17·2	51	+1	
Gorakhpur ..	254	995·2	+0·8	990·6	102·2	+1·1	109	19	78·5	+1·6	71	6	85·1	100·7	73·8	76·4	23·4	—0·9	20·0	57	—4	
Benares	250	994·6	—0·2	990·5	107·0	+1·6	115	31	80·5	+1·3	69	6	88·1	105·8	77·3	80·7	27·1	+5·5	24·3	59	+11	
Allahabad (Bamrauli)	322	992·8	+0·2	988·2	108·6	+1·5	115	31	82·1	+2·2	72	6	90·1	107·3	72·0	73·0	18·7	+0·4	12·2	39	0	
Fatehpur	375	990·2	..	986·0	109·4	+2·2	115	18	81·7	+1·2	68	6	89·4	107·3	73·3	77·2	20·8	+0·5	18·2	45	=2	
Cawnpore ..	414	989·2	+0·2	985·3	108·3	+2·1	115	18	80·3	—0·1	69	6, 7	88·7	106·9	70·9	73·8	17·8	0	13·5	39	—1	
Lucknow	371	990·7	0	988·5	106·9	+1·5	111	18	80·3	+2·0	69	6, 7	88·3	104·6	73·9	77·3	22·0	+1·9	19·6	49	+3	
Bahraich	407	999·5	+0·9	986·0	103·4	+1·1	108	14,17,18	78·1	+0·9	67	7	86·8	102·0	72·7	75·2	21·1	—0·9	17·7	49	—5	
U. P. West																						
Jhansi	824	975·4	—0·6	971·7	110·3	+1·8	117	22,23	84·7	+1·3	68	6	91·3	109·5	67·3	70·4	12·0	—3·7	7·8	24	—9	
Agra	553	984·1	—0·3	981·0	109·5	+3·3	116	21,22,24	81·2	+3·0	68	6	88·4	106·6	69·3	74·4	15·9	+2·0	14·4	35	+5	
Mainpuri	516	985·8	+0·4	981·7	103·9	—3·5	117	24	78·7	+0·5	65	6	89·1	106·9	72·7	78·4	20·0	+2·4	20·2	42	+2	
Aligarh	615	982·0	..	978·6	108·9	+3·6	115	5 days	79·3	—0·1	65	6	88·2	105·9	68·7	70·5	15·2	+0·5	9·4	34	0	
Bareilly	568	983·8	—0·1	974·7	106·5	+3·4	112	18,19	79·0	+1·9	67	6	88·9	103·2	71·8	73·5	19·0	—1·5	14·7	41	—8	
Roorkee	899	972·6	—0·3	968·6	102·8	+0·6	111	19	75·9	+1·9	64	5	83·5	102·9	68·7	71·9	17·3	+1·3	12·6	38	+4	
Dehra Dun ..	2,239	929·8	+0·7	926·5	98·7	+2·7	106	18	71·5	+1·4	55	6	82·9	96·1	66·3	68·7	15·2	+0·2	12·6	39	—8	
Punjab East and North																						
New Delhi ..	714	978·2	—0·7	974·7	106·7	+1·9	114	22	79·1	+0·3	65	6	88·0	104·3	67·9	71·7	14·4	—2·1	11·7	33	—6	
Hissar (*R*) ..	725																					
Ambala (*R*) ..	892																					
Ludhiana	812	971·9	—0·4	972·3	108·7	+4·6	117	20	77·9	+2·2	63	5	88·1	106·5	70·6	77·7	17·6	+2·3	19·0	41	0	
Lahore	702	974·3	—0·3	971·5	108·1	+4·4	117	23	75·3	+3·1	64	6	85·3	107·1	70·0	72·3	18·0	+2·5	11·3	46	+7	
Sialkot	830	974·1	—0·4	971·4	108·6	+6·4	115	6 days	80·0	+5·7	67	4, 5	88·4	104·4	68·0	73·1	13·8	—1·5	14·5	29	—12	
Rawalpindi ..	1,671	946·9	—0·5		103·5	+5·8	113	4 days	74·5	+5·8	64	4, 7	83·3	100·5	63·7	67·6	12·2	—2·0	9·7	33	—3	

(*R*) Register not received.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs I. S. T.									17 hrs. I. S. T.									
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													Chota Nagpur.
2·9	—0·6	5·4	2·55	—0·58	0·95	26	6	+0·9	4·9	+0·7	0	2	8	2	0	2	10	4	3	1	4	7	2	1	7	4	4	1	Jamshedpur.
6·5	—3·4	5·0	3·55	+0·81	2·21	25	5	—0·2	2·7	+0·1	3	1	0	1	2	15	0	0	9	1	5	1	8	3	2	2	6	3	Chaibasa.
2·0	—0·7	4·5	1·75	—0·37	1·05	20	2	—2·1	..	..	0	0	1	0	12	0	1	0	17	7	1	2	0	6	0	1	1	13	Ranchi.
4·7	+1·7	5·3	1·06	—0·90	0·80	20	2	—1·4	5·7	—1·4	2	1	1	3	11	8	2	1	2	4	1	2	1	4	2	2	12	3	Hazaribagh.
2·8	+1·1	4·8	0·15	—0·42	0·15	29	1	—0·3	3·3	—1·1	3	2	6	5	1	0	1	0	13	4	3	1	1	0	1	8	11	2	Daltonganj.
..	..	..	2·25	..	1·08	20	4	..	6·0	..	1	5	7	6	5	5	1	1	0	..	..	..	..	..	..	..	..	..	Dhanbad.
																													Bihar
4·3	+0·1	1·5	4·22	+0·04	1·74	28	6	+0·5	4·6	+1·2	0	6	19	1	1	1	1	1	1	2	7	14	2	0	1	1	0	4	Purnea.
2·5	—0·5	1·5	3·84	+1·33	2·21	28	5	+1·5	5·9	+1·5	0	4	22	3	0	0	1	0	1	2	3	16	3	0	1	2	2	2	Darbhanga.
2.2	0	1.5	1.59	—1.05	0.60	25	4	+0.2	3.9	—1.1	0	1	25	1	1	0	1	0	2	0	1	7	0	0	0	1	1	21	Motihari
2·2	0	1·7	1·58	+0·18	0·96	20	2	—0·3	6·1	+1·0	0	14	10	3	0	1	2	0	1	1	13	5	0	0	0	3	2	7	Patna.
1·0	..	2·3	0·26	—0·37	0·15	11	2	+0·8	4·0	..	0	3	8	7	3	6	0	1	3	3	11	1	0	0	1	0	10	5	Dehri.
2·1	+0·1	2·1	0·08	—0·85	0·03	20,30	0	—1·7	7·1	+1·1	1	4	9	7	5	3	0	0	2	4	7	3	1	0	0	1	14	1	Gaya.
1·9	—1·5	2·6	1·73	—1·88	0·76	30	4	—1·1	4·5	+1·5	0	4	0	14	0	4	0	0	9	0	8	0	13	0	5	0	2	3	Naya Dumka.
3·6	—1·1	2·0	1·27	—0·88	0·54	6	4	+0·4	6·3	—0·6	3	2	15	9	1	0	1	0	0	1	7	9	5	1	0	1	7	0	Sabour.
																													U. P. East
1·8	—0·1	0·5	1·01	—0·02	0·93	28	1	—0·9	4·3	—0·8	1	1	22	1	0	0	5	0	1	0	3	11	2	1	0	6	4	4	Gonda.
1·8	+0·1	0·8	1·19	—0·19	0·62	25	2	—0·5	4·6	+1·7	0	8	14	3	0	2	2	1	1	0	4	6	5	2	0	7	3	4	Gorakhpur.
1·6	—0·2	0·5	0·75	+0·22	0·75	6	1	—0·1	5·7	+1·8	0	8	12	3	1	3	3	0	1	11	1	0	0	0	0	8	9	2	Benares.
2·9	+1·1	2·0	0·09	—0·54	0·09	6	0	—1·2	5·0	+0·3	0	5	11	2	4	5	2	0	2	9	4	2	0	0	2	4	10	0	Allahabad (Bamrauli).
0·6	—1·0	1·5	0·35	+0·21	0·35	6	1	+0·4	2·9	—1·1	0	2	2	7	1	3	1	2	13	5	3	3	0	0	3	2	12	3	Fatehpur.
0·9	0	1·7	0·41	+0·09	0·25	6	2	+1·0	7·4	..	3	1	7	7	2	4	5	0	2	10	2	2	2	0	0	7	7	1	Cawnpore.
1·3	—0·2	0·8	0	—0·77	0	..	0	—1·3	2·8	+0·3	1	3	13	2	5	0	3	1	3	2	0	4	0	4	4	8	3	6	Lucknow.
1·4	—0·1	0·6	0·68	—0·53	0·68	28	1	—1·1	6·0	+2·5	0	1	12	9	1	1	1	3	3	0	0	3	7	0	6	3	4	8	Bahraich.
																													U. P. West.
0·5	—1·0	2·3	0	—0·37	..	..	0	—1·0	3·5	—0·8	1	1	0	0	1	7	8	2	11	1	0	0	0	1	5	15	6	3	Jhansi.
1·9	+0·5	2·0	0·06	—0·32	0·03	5,6	0	—1·1	3·1	—1·4	0	0	1	1	5	6	4	2	12	3	0	0	0	1	5	6	10	6	Agra.
1·4	—0·4	2·2	0·19	—0·32	0·12	6	1	—0·2	2·9	+0·2	0	0	2	11	2	6	6	3	1	2	1	0	1	1	4	8	12	2	Mainpuri.
1·1	+0·2	2·1	0·04	—0·37	0·03	31	0	—1·2	4·4	—0·8	0	1	7	5	1	1	7	2	7	5	1	3	0	1	3	5	10	3	Aligarh.
1·1	—0·7	1·5	0·01	—0·65	0·01	5	0	—1·5	4·0	+1·1	1	1	9	10	2	2	1	1	4	5	0	2	2	0	2	8	8	4	Bareilly.
1·3	—0·3	1·3	0·11	—0·65	0·10	5	1	—0·7	4·3	+1·1	1	0	0	23	0	0	0	0	7	0	4	0	10	0	3	2	12	0	Roorkee.
1·8	—0·6	3·0	0·65	—0·80	0·21	28	4	+1·0	2·3	0	0	0	0	1	1	4	6	1	18	3	0	1	2	2	3	10	5	5	Dehra Dun.
																													Punjab Eastand North
1·2	—0·5	2·8	0·21	—0·31	0·13	6	1	—0·6	5·4	..	1	1	6	3	3	6	6	1	4	7	2	3	2	0	3	5	9	0	New Delhi.
																													Hissar. (*R*).
																													Ambala. (*R*).
1·4	—0·1	1·1	0·47	—0·06	0·46	5	1	—0·5	2·5	+0·3	1	6	0	11	0	7	0	0	6	0	4	2	2	0	4	3	15	1	Ludhiana.
1·3	—0·6	1·3	0	—0·59	0	..	0	—1·3	3·0	—0·7	1	5	4	3	0	0	2	0	16	1	4	4	2	1	0	9	7	3	Lahore.
1·4	—0·1	2·0	0·42	—0·57	0·30	3	2	0	3·3	+1·0	3	18	6	1	0	0	0	1	2	1	13	1	2	0	6	2	5	1	Sialkot.
1·8	—0·3	4·0	0·22	—1·03	0·10	4	1	—1·5	3·8	—1·2	8	5	5	2	1	1	4	2	3	2	1	1	1	2	6	7	9	2	Rawalpindi.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
Punjab South West																						
Khushab	612	976·8	—5·2	973·4	108·5	+4·8	118	23	77·1	+0·8	61	4	87·0	106·8	67·5	73·2	14·2	—0·5	13·0	35	—2	17
Lyallpur	605	980·8	—1·1	978·1	110·5	+8·1	116	23	77·0	+3·1	66	5	86·0	105·8	67·1	70·2	14·1	—0·3	9·3	34	—3	13
Montgomery ..	558	982·9	—0·4	980·1	108·5	+3·1	117	25,26	77·6	+0·7	67	5	84·0	106·2	68·1	73·3	16·3	—4·8	13·0	40	—13	17
Leiah	490	986·4	..	981·1	110·3	..	119	5 days	77·4		67	3	86·7	108·5	69·2	73·5	16·4	..	12·8	37	..	19
Multan	413	991·5	+3·2	984·8	109·8	+5·0	120	25	80·0	+2·6	68	3	84·7	108·7	72·5	83·3	22·2	+2·1	27·5	55	+5	32
Fort Abbas ..	475	983·8	..	982·5	111·2	..	119	4days	80·3	..	70	6, 8	84·7	109·5	64·9	70·7	12·4	..	8·2	31	..	10
Bahawalpur ..	384	988·1	—0·8	985·4	109·4	+3·2	118	26	77·6	+1·7	70	8	84·6	108·6	67·9	73·1	15·8	—4·7	11·7	38	—11	14
Khanpur	297	991·6	+0·6	988·3	111·8	+3·2	119	24	77·2	—0·9	69	6	83·4	110·9	74·6	88·9	24·9	+6·7	35·1	66	+20	40
Kashmir																						
Srinagar	5,205	841.4	+1·1	838·4	78·6	+1·6	90	26	53·1	+2.2	43	4	60·6	74·5	55·7	60·9	13·5	—0·3	13·6	75	—6	49
Gulmarg (*R*) ..	8,709																					
Dras	10,059	706·2	+1·8	704·4	60·8	+2·8	69	17,18, 24	14·3	-20.0	5	4, 5	45·2	56·1	40·4	46·1	7·0	+0·2	7·5	70	—2	52
Leh	11,529	669·7	+2·3	666·2	64·2	+0·5	74	18	37·5	+0·4	30	6, 12	46·1	61·1	36·1	41·3	4·1	—0·3	2·8	42	+1	18
Skardu	7,505	762·9	..	759·3	75·4	+2·8	84	18,19, 27	51·5	+2·1	43	3	57·0	72·0	48·8	52·1	8·8	—0·1	6·2	57	—1	25
Gilgit	4,890	852·1	..	851·4	86·1	+3·8	94	15	62·2	—3·8	51	5	63·9	82·4	53·5	60·1	10·2	—1·7	9·9	57	—1	32
Misgar	10,190	701·4	..	698·9	64·2	..	73	23	40 3	..	29	2	46·8	60·0	38·9	43·3	5·6		4·4	53	..	28
N.W.F. Province																						
Peshawar ..	1,175	964·3	—0·2	960·5	100·2	+3·2	111	23,24	73·5	+3·1	60	4	82·9	98·5	66·4	70·2	14·8	+0·7	12·1	40	+1	22
Bannu ..	1,264	959·9	..	957·6	98·5	—1·3	112	26	76·8	+5·3	62	4	82·2	106·9	65·7	68·4	14·0	—0·4	6·4	40	—2	14
Miranshah ..	3,026	904·1	..	901·8	96·3	+3·4	107	24,26	70·8	+1·4	57	5	77·6	92·9	61·5	67·6	12·1	—0·8	12·9	39	—2	25
D. I. Khan ..	570	983·0	—0·4	979·6	107·1	+3·6	117	26	76·7	+2·0	69	5	86·2	106·2	65·7	70·4	12·4	—6·8	9·3	30	—20	12
Baluchistan																						
Fort Sandeman (*R*)..	4,614																					
Loralai ..	4,699	852·8	..	850·5	90·9	..	99	24	60·7	..	46	6	68·6	88·2	51·4	58·0	6·2	..	4·5	27	..	10
Sibi ..	441	987·3	+0·2	983·7	112·0	+2·8	121	25	80·6	—0·7	63	6	90·3	109·7	65.8	70·6	10·6	—2·0	8·0	23	—8	9
Quetta ..	5,490	830·7	—0·6	829·4	85·3	..	92	16,26	51·3	..	36	6	63.7	82·1	55·3	62·1	11·8	—0·7	11·9	60	+5	33
Chaman ..	4,311	866·5	+0·3	865·7	90·5	+0·1	99	17,28	65·9	+0·8	54	9	74·1	88·6	58·4	69·6	10·6	—1·1	16·6	37	+3	39
Kalat ..	6,616	799·9	+1·2	798·3	80·3	—2·7	87	5days	47·8	—4·2	39	4, 5	62·0	52·3	47·7	52·3	6·0	—4·6	4·4	33	—12	17
Dalbandin ..	2,785	914·1	+0·9	911·6	99·4	—0·9	107	15,26, 31.	66·1	+0·1	50	6	73·8	97·7	59·1	71·8	11·4	—1·0	15·9	40	+7	27
Nokkundi ..	2,229	931·3		929·1	101·7	—0·7	110	15,17	74·9	+0·4	65	5, 6	81·2	100·3	57·8	65·0	6·8	—8·7	6·5	19	—22	11
Las Bela ..	292	995·2	+0·4	990·5	110·5	+4·5	120	25	73·1	—0·5	63	6	80·6	108·0	74·7	87·6	26·5	—3·2	35·1	76	—2	43
Ormara ..	15	..	..	..	96·2	+3·5	108	22	79·7	+0·2	71	7	82·8	93·0	76·9	77·9	28·8	—1·8	25·9	77	—9	51
Pasni ..	10	1005·5	+0·6	1002·7	96·5	+2·2	108	21	75·2	+1·0	69	6	79·6	90·9	76·0	80.8	29·2	0	31·5	84	0	66
Panjgur ..	3,177	902·1	+1·3	900·3	97·7	—0·2	103	4days	67·1	—1·1	56	6	73·0	95·4	58·8	70·6	11·4	—4·2	15·2	39	—16	27
Jiwani ..	13																					
Sind																						
Jacobabad ..	186	995·8	—0·3	992·5	112·3	+1·2	120	26	77·3	—2·5	66	5	86·0	111·3	68·1	73·1	15·3	—8·4	10·8	37	—13	11
Sukkur ..	221	994·7	—0·2	991·5	108·5	+1·1	116	24	78·7	—0·9	69	5	83.3	107·7	70·1	75·2	19·4	—1·5	15·1	50	—6	18
Pad Idan ..	153	997·1	..	994·0	112·5	..	119	24	77·0	..	69	11	85·1	111·1	69·2	71·7	17·1	..	8·9	42	..	9
Umarkot ..	55	1001·2	..	997·7	110·2	..	118	24	77·1	..	70	6, 7	82·4	109·1	78·4	86·2	31·3	..	28·5	83	..	34
Hyderabad ..	96	999·9	—0·5	997·0	111·1	+4·1	120	24	79·1	+0·9	73	6	83·4	108.1	74·5	76·6	25·0	+1·4	16·9	65	+3	21
Karachi (Mancra) ..	13	1004·5	—0·5	1002·3	87·8	—0·8	92	23	80·0	+1·0	75	7, 8	81·4	86·5	78·4	80·9	31·8	+0·7	33·6	87	—1	78
Badin ..	51	1003·2	+0·2	1000·2	108·5	+4·6	117	21, 22	78·2	—0·1	71	6,7,8	81·3	103·4	76·8	78·0	29·4	+0·8	21·0	81	+7	28

R) Register not received.

Clouds amount, (tenths of sky)			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from : —																	STATION.
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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.	8 hrs. I. S. T.									17 hrs. I. S. T									
											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
																													Punjab South West
1·2	—0·4	2·3	0	—0·76	0	..	0	—1·6	5·5	0	1	9	5	2	1	0	3	1	9	2	4	3	5	6	4	2	2	3	Khushab.
1·1	—1·3	2·2	0	—0·43	0	..	0	—1·2	2·3	—0·5	1	5	3	2	3	2	0	2	13	0	3	3	5	2	9	1	2	6	Lyallpur.
1·5	+0·4	1·1	0·09	—0·27	0·06	11	0	—1·1	2·3	—2·0	0	5	0	14	4	1	0	1	6	0	3	0	6	4	7	6	0	5	Montgomery.
0·3	..	1·3	0	..	0		0	..	6·1	..	4	4	1	0	0	2	3	15	2	2	3	2	5	5	5	5	4	0	Leiah.
2·1	+1·1	1·3	0	—0·33	0		0	—0·7	3·4	+1·3	8	0	0	0	8	0	0	4	11	3	0	0	0	11	7	3	0	7	Multan.
1·7	..	3·9	0	..	0		0	..	6·8	..	2	1	4	4	6	11	1	0	2	2	0	0	1	2	7	15	4	0	Fort Abbas.
0·1	—1·3	0·7	0	—0·18	0		0	—0·5	3·5	—0·1	3	1	4	2	8	6	0	1	6	2	2	1	0	0	12	6	4	4	Bahawalpur.
0·2	—0·5	0·3	0	—0·17	0		0	—0·4	5·2	—0·2	0	2	0	0	0	28	0	0	1	0	2	0	0	0	28	0	1	0	Khanpur.
																													Kashmir
3·5	—0·1	6·8	2·23	—0·15	1·05	4	5	—0·4	2·2	—0·6	2	2	1	8	4	0	0	2	12	3	2	0	4	1	2	1	6	12	Srinagar.
																													Gulmarrg (R)
0·4	+0·7	6·2	3·37	+0·95	1·09	4	6	+0·6	3·1	—0·4	0	0	0	0	0	0	1	0	30	2	0	0	1	1	4	14	3	6	Dars
3·8	—0·6	6·7	0·08	—0·14	0·03	13	0	+0·7	3·0	+0·2	1	5	1	1	4	3	1	0	15	1	2	1	2	1	9	14	1	0	Leh.
3·7	—0·6	4·3	0·58	—0·21	0·21	3	3	+1·0	6·8	+1·7	0	0	0	1	0	3	7	1	19	0	0	1	1	8	10	7	4	0	Skardu.
0·0	—0·6	6·5	1·05	+0·09	0·21	18	9	—2·5	1·2	+0·2	0	0	0	0	0	1	0	0	30	0	3	0	2	0	3	0	0	23	Gilgit.
1	..	6·0	0·51	..	0·29	2	2	..	6·1	..	0	2	10	4	1	0	4	10	0	1	0	9	11	1	0	5	4	0	Misgar.
																													N.W.F. Province
0·7	—0·4	5·7	0·11	—0·66	0·06	2	0	—2·0	5·1	+2·5	2	0	0	6	6	4	1	2	10	6	13	2	2	1	2	2	3	0	Peshawar.
0·9	+0·6	3·0	0·07	—0·54	0·07	4	0	—1·5	5·2	..	3	1	0	2	0	1	2	12	10	0	0	3	16	3	0	1	5	3	Bannu.
0·8	+0·5	4·9	0·20	—0·94	0·18	18	1	—1·4	3·2	—2·4	1	0	1	1	0	0	4	1	23	0	1	12	5	5	3	2	3	0	Miranshah.
1·0	—0·3	2·0	0·01	—0·38	0·01	17	0	—1·0	3·0	+0·9	4	14	0	0	0	0	0	5	8	0	8	4	8	3	1	1	0	6	D. I. Khan.
																													Baluchistan
																													Fort Sandeman (*R*)
2·5	..	3·8	0·22	—0·38	0·11	9	1	—0·3	5·6	..	0	0	0	0	0	4	20	6	1	0	0	3	6	7	5	3	7	0	Loralai.
2·5	+0·3	2·3	0·21	+0·07	0·15	9	1	+0·5	5·0	+0·3	4	1	0	0	3	1	1	8	13	1	2	0	3	9	3	9	4	0	Sibi.
2·3	+0·1	2·9	0·46	..	0·30	9	1	..	4·2	..	2	2	0	0	1	1	0	0	25	8	2	2	1	2	4	5	4	3	Quetta.
2·4	+0·1	2·4	0·15	+0·02	0·15	9	1	+0·6	6·2	+0·5	0	2	0	18	2	5	0	1	3	0	0	0	1	0	12	0	18	0	Chaman.
2·0	0	2·3	0·23	+0·03	0·15	8	1	+03	7·0	+1·5	2	1	0	1	24	0	0	1	2	4	1	1	1	1	3	5	15	0	Kalat.
3·7	—0·4	3·5	0	—0·07	0	..	0	—0·2	5·4	+0·4	0	1	0	1	0	0	1	2	26	3	3	0	1	0	7	5	6	6	Dall andin.
1·2	—0·1	1.5	0	—0·02	0	..	0	0	9·2	0	11	4	4	3	0	1	1	7	0	9	0	2	0	1	2	2	15	0	Nokkundi.
2·0	—1·7	0·5	0·14	—0·28	0·14	3	1	+0·1	3·7	+0·3	3	0	2	4	3	2	0	1	16	0	0	2	8	12	5	1	3	0	Las Bela.
1·3	—0·2	0·3	0	0	0	..	0	0	16·9	+4·7	0	0	0	0	0	10	19	0	2	0	0	0	0	0	18	13	0	0	Ormara.
1·4	—0·7	0·7	0	—0·01	0	..	0	0	9·9	+1·8	0	0	0	1	0	1	11	18	0	0	0	0	0	0	14	15	2	0	Pasni.
2·7	0	1·3	0	—0·11	0	..	0	—0·3	6·0	+0·8	7	9	2	1	1	0	2	2	7	5	1	0	1	1	4	9	10	0	Panjgur.
																													Jiwani.
																													Sind
1·9	+0·3	1·3	0·12	—0·02	0·12	4	1	+0·6	7·8	+2·8	3	1	5	10	2	1	0	6	3	1	0	0	3	8	7	6	5	1	Jacobabad.
1·0	+0·5	0·5	0·14	0	0·14	3	1	+0·8	3·4	—0·5	4	2	0	10	3	5	0	2	5	4	0	0	1	9	7	5	3	2	Sukkur.
1·3	..	0·7	0	0	0	..	0	..	6·2	..	2	2	2	8	4	2	5	1	5	0	2	0	4	5	5	7	2	6	Pad Idan.
1·4	..	0·5	0	0	0	..	0	..	9·7	..	0	0	0	0	8	23	0	0	0	0	0	0	0	2	17	11	1	0	Umarkot.
1·6	0	0·9	0	—0·19	0	..	0	—0·4	7·7	—1·1	0	0	0	1	12	16	1	1	0	2	1	1	0	4	12	9	2	0	Hyderabad.
1·0	—1·2	0·8	0	—0·06	0	..	0	—0·1	11·4	—0·2	0	0	0	0	0	10	18	1	2	0	0	0	0	0	17	14	0	0	Karachi (Manora)
1·0	—0·5	0	0	—0·22	0	..	0	—0·2	9·5	..	0	0	0	0	0	22	8	1	0	0	1	0	0	0	17	9	4	0	Badin.

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, Millibar.			Relative humidity %	
		Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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
Rajputana West																					
Sri Ganganagar ..	580	982·2	..	979·5	109·8	+2·1	118	25,26	76·0	+1·0	64	6	88·6	107·4	66·7	70·9	12·5	—1·6	9·3	29	—5
Bikaner ..	734	978·0	—0·2	975·4	109·9	..	116	21,22, 25	82·9	..	71	6	87·6	109·4	65·1	75·9	11·0	..	15·3	25	..
Phalodi ..	800	976·1	..	975·1	109·6	..	116	21,22, 23	81·0	..	74	7	83·5	108·5	77·1	..	28·9	..	..	74	..
Jodhpur ..	736	979·5	+1·4	976·0	108·8	+3·4	116	21	81·7	+2·3	75	2	85·9	107·2	69·0	70·2	16·5	—0·8	8·5	40	—5
Barmer ..	638	982·6	+0·5	978·9	110·0	+3·6	118	21	80·3	+0·3	76	17	85·1	108·7	71·6	74·2	20·3	—5·5	13·2	51	—13
Rajputana East																					
Sikar ..	1,406	956·2	..	952·9	108·3	..	115	21,22	80·2	..	69	8	87·3	105·9	67·2	69·5	13·7	..	8·1	31	..
Jaipur ..	1,431	956·0	—0·5	952·6	107·4	+1·8	115	22	79·1	+2·2	71	6,7	87·8	104·6	66·7	68·4	12·8	—2·2	7·3	29	—8
Ajmer ..	1,593	951·0	—0·4	947·6	105·2	+2·3	112	22	83·2	+3·0	71	8	88·5	103·7	72·4	73·3	20·7	+0·7	14·2	45	+3
Kotah ..	843	975·6	—0·2	971·8	110·0	+2·4	116	4 days	86·2	+1·7	74	7	92·9	107·7	70·3	72·5	15·1	+0·2	11·3	29	—3
Brijnagar ..	1,053	968·7	+0·1	964·6	108·8	+1·8	115	20,21, 22	81·0	+0·6	72	1,2	87·8	107·3	68·4	69·5	14·9	—5·6	7·5	34	—12
Rajsamand ..	1,850	942·9	..	939·9	102·5	..	108	26	81·0	..	73	6	86·2	99·0	68·8	71·4	17·0	..	15·0	41	..
Gujarat																					
Deesa (*R*) ..	466																				
Bhuj	343	994·8	+0·5	991·7	103·0	+2·1	111	22	77·3	+0·5	72	6	81·3	99·7	75·6	74·2	27·6	+1·1	17·3	76	+9
Dwarka	37	1005·5	—0·3	1003·8	88·1	+0·1	90	19, 20, 31	81·1	+0·5	79	5 days	82·4	86·5	78·7	80·6	31·8	+0·7	33·0	84	—2
Jamnagar ..	69	1005·0	+0·4	..	97·9	+0·4	107	24	78·0	+1·3	74	1, 2	83·5	..	79·6	..	32·6	+3·7	..	83	+9
Rajkot	432	991·9	—0·2	988·3	106·2	+1·3	112	22, 23, 24	75·4	+0·2	70	1	80·4	103·4	76·0	73·8	28·5	+2·1	15·2	81	+9
Veraval	26	1006·6	—0·5	1004·4	88·6	..	96	4	77·6	..	71	4 days	81·4	85·8	79·5	83·0	33·4	..	37·4	91	+6
Surat	39	1006·4	0	1003·6	95·5	—1·8	104	2, 3, 4	79·3	+0·4	74	1	83·5	91·7	77·6	82·8	29·5	+1·5	34·2	76	+7
Bhavnagar ..	55	1007·4	—0·1	1001·2	104·6	—0·6	110	20, 21	76·8	—1·3	73	1,2	80·7	102·8	73·6	75·6	25·2	—0.1	17·8	70	+6
Ahmedabad ..	163	1001·6	—0·1	998·7	105·4	—1·4	109	20, 21	79·0	—0·2	76	29 2, 6, 10	82·3	103·4	74·8	75·6	26·1	+0·9	17·6	69	+5
Dohad	1,093	979·3	..	966·6	104·0	+1·0	110	20, 21	78·8	+0·1	72	12	82·3	101·8	72·4	72·9	22·6	—1·3	14·4	61	—2
Baroda .. .	115	1003·4	..	999·0	104·2	—0·4	111	20	77·9	+0·2	69	3	82·8	102·3	76·5	76·6	28·3	+2·8	19·6	74	+7
Central India West																					
Neemuch	1,626	951·1	+0·1	947·7	106·0	+2·6	114	22	79·2	+1·8	74	6	84·7	103·9	73·1	78·3	23·1	+2·0	22·6	58	+8
Indore	1,823	944·8	—0·3	941·3	103·9	+1·0	112	21, 22	76·9	+0·6	70	6	82·6	102·6	68·7	70·3	18·2	—1·3	12·1	49	0
Bhopal	1,643	950·1	+0·1	946·3	106·6	+2·2	114	21, 22	80·7	+1·7	72	6	87·0	104·9	67·1	69·2	14·6	0	9·6	34	0
Guna	1,571	952·1	+0·6	948·7	107·5	+1·2	114	21, 22, 23	79·4	+1·9	69	6	86·7	105·9	66·3	70·0	13·8	—0·8	10·4	32	0
Gwalior	681	979·8	0	977·2	111·1	..	118	21, 22, 23	81·5	..	69	6	95·7	108·5	68·9	70·2	12·0	..	7·9	22	..
Madhosagar ..	757	977·3	..	973·6	110·6	..	118	22	83·9	..	70	6	93·0	106·6	70·5	73·1	15·3	..	12·6	29	..
Central India, East																					
Nowgong	750	978·1	—0·2	973·9	109·9	+2·4	117	24	78·8	—0·6	69	1	91·1	107·1	73·2	79·2	19·8	+3·2	21·2	41	+5
Sutna	1,041	967·9	—0·4	964·1	109·4	+3·6	116	24	79·9	+0·1	70	1, 2	89·3	106·3	68·5	71·9	14·3	+1·0	11·1	30	—3
Umaria	1,506	953·4	..	949·4	107·3	+1·8	113	22, 23	79·9	+0·9	65	1	90·6	104·9	69·0	70·2	15·9	+1·5	11·1	32	+3
Berar																					
Akola	925	974·2	—0·2	969·1	110·5	+2·3	118	22	81·5	+0·2	65	6	87·9	108·3	69·6	71·9	16·4	—0·9	10·1	36	—3
Amraoti	1,213	964·9	—0·4	959·9	109·5	+1·9	116	21, 22, 23	82·4	+1·7	75	1	87·9	107·2	72·0	78·4	19·6	+2·3	20·0	43	+5

R—Register not received

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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		SE	W	W	S	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
																													Rajputana West
0·3	—0·2	0·6	0·04	—0·19	0·04	11	0	—0·8	4·4	—2·3	0	1	3	5	1	8	0	2	11	0	0	0	0	0	9	9	4	9	Sri Ganganagar.
0·3	—0·8	0·6	0·06	—0·53	0·04	10	0	—1·3	2·8	—3·5	1	0	0	4	1	16	0	1	8	0	1	0	0	0	17	3	9	1	Bikaner.
1·0	..	1·5	0	—0·35	0	..	0	—0·8	11·9	..	0	0	1	3	13	11	3	0	0	3	0	0	0	9	15	2	2	0	Phalodi.
0·5	—0·7	1·0	0·03	—0·38	0·03	10	0	—1·1	5·9	—4·8	0	0	2	0	1	15	10	0	3	1	0	0	0	0	9	15	6	0	Jodhpur.
0·5	—0·4	0·7	0·06	—0·29	0·06	10	0	—0·7	8·1	+1·2	0	0	0	2	2	13	7	2	5	0	0	0	0	2	14	9	2	4	Barmer.
																													Rajputana East
1·0	..	2·3	0·02	..	0·01	5,29	0	..	5·3	..	0	1	4	4	0	18	4	0	0	1	1	0	1	0	4	18	6	0	Sikar.
1·2	—0·1	1·9	0·06	—0·51	0·06	11	0	—1·6	5·2	—0·2	3	0	0	2	1	1	9	9	6	2	1	0	0	2	4	13	8	1	Jaipur.
1·1	—0·1	1·3	0·07	—0·57	0·07	11	0	—1·5	9·0	+2·5	0	1	0	0	1	14	13	0	2	0	0	0	0	0	17	14	0	0	Ajmer.
0·5	—0·6	1·3	0·05	—0·42	0·05	11	0	—1·0	5·7	+1·6	0	0	0	0	0	2	19	6	4	3	2	1	0	1	3	16	5	0	Kotah.
0·6	—0·4	2·0	0·10	—0·25	0·10	11	1	+0·1	6·2	+1·0	1	1	1	3	2	6	10	3	4	4	1	0	0	0	6	13	7	0	Brijnagar.
0·5	..	2·0	0·07	..	0·07	11	0	..	8·4	..	2	1	2	0	2	8	8	6	2	3	1	0	2	1	1	11	11	1	Rajsamand.
																													Gujarat.
																													Deesa (*R*).
0·2	—1·1	0·3	0	—0·06	0	..	0	—0·3	10·3	—0·6	0	0	0	0	1	17	12	0	1	0	0	0	0	0	10	19	1	1	Bhuj.
2·4	—0·5	2·2	0	—0·02	0	..	0	—0·1	13·8	+2·4	0	0	0	0	0	8	16	7	0	0	0	0	0	0	8	18	5	0	Dwarka.
3·3	+1·3	..	0	—0·30	0	..	0	—0·3	11·2	—3·6	0	0	0	0	0	15	16	0	0	..	..	..	..	..	..	..	..	..	Jamnagar.
1·5	—1·2	1·1	0	—0·50	0	..	0	—0·6	13·5	+2·2	0	0	0	0	4	11	11	5	0	0	0	0	0	2	6	11	12	0	Rajkot.
3·6	+0·6	2·6	0	—0·28	0	..	0	—0·3	14·0	..	4	0	0	0	2	7	8	9	1	0	0	0	0	0	8	21	2	0	Veraval.
3·5	—0·2	1·1	0	—0·24	0	..	0	—0·3	7·0	+0·4	2	1	0	1	9	10	1	0	7	2	0	0	0	3	25	1	0	0	Surat.
0·4	—1·9	0·5	0	—0·41	0	..	0	—0·7	6·6	—0·6	1	0	0	0	9	11	9	1	0	1	0	1	3	4	8	11	3	0	Bhavnagar.
1·1	—0·9	0·8	0	—0·39	0	..	0	—0·7	4·1	—0·8	1	0	0	0	4	10	7	4	5	0	0	0	1	2	10	11	5	2	Ahmedabad.
1·2	—0·5	0·3	0	—0·66	0	..	0	—0·5	16·0	+7·5	0	0	1	1	1	12	15	1	0	0	0	0	0	0	10	20	1	0	Dohad.
2·0	+0·2	0·1	0	—0·29	0	..	0	—0·5	5·0	—0·8	0	0	0	0	3	16	5	2	5	3	0	0	0	1	10	8	8	1	Baroda.
																													Central India, West
0·8	—0·2	3·5	0·04	—0·55	0·04	11	0	—1·2	8·6	+0·3	2	1	1	0	1	9	13	4	0	0	4	0	1	0	10	10	6	0	Neemuch.
0·7	—0·6	2·9	0·09	—0·42	0·09	15	0	—1·3	5·4	—0·2	1	1	0	1	0	3	21	3	1	2	2	0	1	1	3	16	6	0	Indore.
1·3	+0·2	3·0	0	—0·57	0	..	0	—1·2	6·5	+1·0	0	0	1	1	0	6	13	7	3	0	0	0	0	1	6	15	5	4	Bhopal.
0·5	—0·5	1·4	0	—0·54	0	..	0	—1·2	6·8	+1·2	1	0	0	3	0	11	6	2	8	1	0	0	0	1	7	9	7	6	Guna.
1·4	..	3·0	0·21	..	0·21	6	1	..	3·7	..	1	0	0	1	3	4	9	4	9	6	3	0	0	0	3	4	13	2	Gwalior.
1·4	..	3·4	0·24	..	0·19	6	1	..	7·0	..	0	0	0	1	2	7	12	5	4	6	3	0	0	1	7	6	6	2	Madhosagar.
																													Central India, East
1·4	—1·0	2·5	0·09	—0·28	0·09	27	0	—1·0	4·1	+1·3	0	1	0	0	2	14	6	1	7	7	1	0	0	0	7	7	7	2	Nowgong.
2·9	+0·9	3·2	0	—0·47	0	..	0	—1·3	4·3	—0·2	0	1	3	3	2	7	7	2	6	2	2	1	0	0	5	10	11	0	Sutna.
1·9	—0·6	3·2	0	—0·43	0	..	0	—0·7	3·7	+0·2	1	0	1	2	5	5	11	0	6	5	1	0	0	0	2	16	6	1	Umaria.
																													Berar
1·6	—0·6	3·3	0	—0·41	0	..	0	—1·0	8·1	+0·8	0	0	0	0	2	1	18	8	2	3	2	1	0	0	0	9	15	1	Akola.
2·4	+0·4	4·2	0·06	—0·46	0·06	14	0	—1·3	7·2	+·14	0	3	0	1	0	25	0	2	0	2	4	0	2	0	10	1	12	0	Amraoti.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
C. P., West																						
Khandwa	1,044	970·5	—0·1	965·6	109·4	+2·5	117	22	82·1	+1·0	71	14	87·6	106·5	71·0	72·1	18·4	+0·3	12·1	41	—2	15
Hoshangabad ..	992	971·6	—0·2	966·5	108·1	+1·2	115	21, 22, 23	81·0	0	68	1	86·1	105·7	67·9	71·8	15·1	—0·5	10·2	33	—2	13
Saugor	1,808	943·7	—0·4	940·2	105·9	+1·3	113	22	81·8	+2·5	72	6	86·6	102·9	65·1	67·2	12·4	—1·0	8·3	29	—2	12
Jubbulpore ..	1,289	961·0	+0·1	956·8	108·4	+3·0	114	21, 22, 23	77·7	+0·4	65	1	89·5	105·4	67·7	70·8	13·3	—1·1	10·1	28	—4	13
Seoni	2,027	937·7	+0·3	934·0	105·7	+2·1	112	23	78·2	+1·9	68	1	89·2	102·1	68·1	70·8	15·0	+0·9	13·0	33	+1	19
Nagpur	1,022	969·9	—0·4	965·8	109·9	+1·2	117	23, 24	83·8	+1·1	76	1, 11	90·5	106·6	68·3	71·1	13·7	—2·7	9·9	29	—5	13
C. P., Eas																						
Gondia ..	1,026	(c) 971·1	..	(b) 966·5	(c) 107·8	..	115	23	(c) 82·3	..	72	1	(c) 89·7	(b) 106·7	(c) 73·3	(b) 77·9	20·5	..	19·5	(c) 43	..	(b) 24
Pendra ..	2,040	936·1	—0·3	932·5	104·5	+4·2	110	24	81·1	+3·8	73	1, 2	90·1	101·8	69·3	72·1	16·0	+0·6	14·8	32	—4	21
Champa ..	805	977·3	..	972·2	110·5	..	117	25	82·8	..	73	1	91·8	108·2	71·4	72·3	17·0	..	10·8	33	..	14
Raipur	970	972·1	+0·7	967·4	109·6	+2·3	116	24	85·4	+3·3	77	1, 9	93·5	108·7	69·8	72·0	14·2	—3·0	9·6	29	—7	13
Titilagarh ..	691	981·0	..	976·0	109·0	..	115	24,25, 26	85·3	..	77	1	92·9	106·8	75·0	74·8	21·5	..	14·9	41	..	19
Kanker	1,318	961·1	+1·2	956·9	106·1	+1·7	112	24	83·1	+3·8	69	1	91·4	104·0	73·9	76·2	20·7	+1·2	18·1	41	—2	25
Chanda	634	983·9	+0·3	978·6	110·4	+1·0	116	23	83·2	+1·1	70	1	91·7	109·1	74·7	78·3	21·6	+2·3	19·0	43	+7	23
Jagdalpur ..	1,815	945·4	+0·8	941·5	103·0	+1·6	111	25	78·0	+3·3	69	1	84·7	95·5	72·2	72·4	21·9	—1·3	17·8	55	—3	33
Konkan																						
Dahanu	15	1007·5	..	1005·2	91·9	..	95	1, 2	78·1	..	69	7	82·3	89·4	78·7	82·3	32·0	..	34·7	84	..	73
Bombay	35	1007·3	—0·2	1004·5	91·1	0	93	19,30, 31	80·1	+0·5	76	10	83·1	88·4	77·6	79·4	29·8	+0·4	30·4	77	0	66
Alibag	23	1008·5	+0·9	..	89·3	+0·4	91	26,27, 28	78·5	—0·6	75	10,12	82·6	..	77·4	..	28·6	—0·5	..	78	+3	..
Harnai	66	1005·7	..	1003·3	87·0	..	90	4 days	80·5	..	75	19,20	82·8	85·5	78·1	80·2	30·7	..	32·9	80	..	79
Devgad	117	1005·1	..	1002·2	91·5	..	94	27	81·5	..	74	19	84·0	88·3	77·9	79·9	29·9	..	31·1	75	..	68
Marmagao ..	202	1002·7	+0·8	999·2	89·2	+0·9	90	10days	81·0	+0·6	72	19	85·3	86·9	77·5	78·3	28·7	—0·8	29·3	69	—9	67
Honavar	85	1006·9	..	1004·0	91·5	..	93	22,23, 24	80·3	..	76	10,18	83·6	88·7	78·3	80·1	30·5	..	31·3	78	..	67
Bombay Deccan																						
Jalgaon	660	984·4	..	979·8	110·3	..	118	21	80·9	..	74	24	85·8	108·6	73·1	75·3	22·6	..	16·3	53	..	17
Malegaon	1,432	958·7	—0·2	954·5	106·8	+1·8	111	21	74·7	—0·4	71	6 days	85·1	104·4	68·8	72·6	16·7	—3·4	13·0	41	—9	17
Ahmednagar ..	2,154	935·3	—0·3	930·9	104·3	+2·4	109	21	72·6	+0·5	67	26,27	81·5	102·1	69·9	70·4	15·5	—2·4	12·4	43	—1	19
Poona	1,834	946·6	0	942·9	100·3	+1·5	107	8	71·8	—0·6	65	12	78·0	96·1	69·2	72·6	20·8	+0·3	17·8	63	+2	31
Sholapur	1,570	954·6	+0·1	949·5	107·4	+2·7	111	26	77·4	+0·4	71	8	82·4	104·3	69·8	72·6	19·9	+1·1	14·3	52	+1	20
Miraj	1,817	947·1	+0·2	942·5	101·3	+2·1	106	8	72·5	0	68	18	76·6	97·1	72·0	74·9	24·9	+0·9	20·5	80	+5	37
Bijapur	1,950	942·9	+0·5	938·5	102·6	+1·0	105	25,28, 29	72·1	—2·4	65	21	79·9	100·4	71·1	71·9	22·5	+1·4	15·1	64	+2	24
Belgaum	2,562	923·5	+0·2	920·4	92·5	—0·7	100	1	68·4	0	65	12,14, 15	72·3	85·5	69·4	73·5	23·2	+1·4	23·3	86	+8	57
Gadag	2,131	936·6	—0·1	933·0	100·8	+2·5	105	6	72·9	+0·3	69	14, 17	77·2	97·0	72·2	78·7	25·0	+1·0	26·1	77	0	46
Hyderabad North																						
Aurangabad ..	1,905	943·7	—0·1	939·2	105·9	+2·4	110	21,23	76·8	+1·0	71	12,27	83·4	103·7	68·8	75·7	18·2	+1·0	18·9	47	0	26
Parbhani	1,350	959·5	..	954·5	109·8	..	114	21,24, 25	78·9	..	72	10	86·9	107·1	70·2	73·8	18·6	..	13·4	40	..	17
Bidar	2,178	933·9	..	929·7	102·0	+0·7	107	26	80·5	+3·0	77	17	87·1	100·7	71·7	71·3	20·2	—0·4	14·2	47	—7	23
Nizamabad ..	1,250	963·6	—0·3	959·2	108·9	+2·3	113	24	82·6	+1·2	77	1,14	88·1	106·7	69·6	72·9	16·3	—3·1	12·4	37	—7	15
Peddapalli (R) ..																						

(b) — mean of 29 days.
(c) — mean of 19 days.

(R) Register not received.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION.
											8 hrs. I. S. T.									17 hrs I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													C. P., West
2·3	+0·9	4·3	0·38	+0·07	0·22	23	2	+1·3	7·3	—0·7	1	1	0	0	0	2	26	1	0	4	1	1	0	0	3	13	9	0	Khandwa.
1·9	+0·4	4·2	1·25	+0·05	1·19	29	1	—0·2	4·2	+1·0	0	1	2	0	7	8	11	0	2	4	2	2	0	1	5	13	3	1	Hoshangabad.
3·5	+1·8	4·5	0·03	—0·39	0 03	15	0	—1·1	10·3	+1·2	1	1	1	4	1	14	7	2	0	3	2	1	0	0	9	7	9	0	Saugor.
1·7	+0·2	3·1	0·06	—0·56	0·06	26	0	—1·4	4·6	+1·6	0	0	2	4	4	2	15	0	4	4	3	1	2	2	5	7	6	1	Jubbulpore.
5·2	+3·2	6·1	0·32	+0·44	0·24	9	1	+0·7	3·8	0	6	3	0	0	5	6	4	4	3	5	4	1	2	4	5	7	3	0	Seoni.
2·7	+0·1	4·0	0·30	—0·46	0·27	9	1	—1·0	3·6	—3·0	4	2	0	0	11	2	6	3	3	9	2	3	1	2	2	9	2	1	Nagpur.
																													C. P., East
(c) 1·0	..	(b) 1·7	0·19	..	0·19	9	.1		(c) 3·4		2	1	0	9	4	7	3	2	0	5	2	1	1	1	4	7	8	0	Gondia.
2·7	+0·3	3·6	0·02	—0·82	0·02	16	0	—2·1	5·2	+0·4	1	2	1	3	8	2	3	8	3	14	2	0	1	2	2	4	6	0	Pendra.
3·3	..	5·3	0·72	..	0·52	15	2	..	5·1	..	2	1	6	4	2	3	5	4	4	2	2	0	3	1	5	6	11	1	Champa.
2·6	0	3·8	0·33	—0·56	0·33	9	1	—1·1	4·9	—0·2	0	1	0	0	2	10	0	10	8	0	0	0	0	0	10	2	13	6	Raipur.
3·2	..	4·5	0·32	..	0·19	12	2	..	4·5	..	0	0	0	7	13	8	2	0	1	1	0	2	3	4	6	7	6	2	Tidilagarh.
6·3	+2·4	6·6	0	—1·49	0	..	0	—2·7	6·1	+1·6	0	0	0	1	1	9	5	1	14	0	0	0	1	0	9	9	6	6	Kanker.
2·5	0	4·5	0·32	—0·29	0·32	9	1	—0·4	4·0	0	0	3	0	10	2	7	0	5	4	0		0	6	0	1	0	18	4	Chanda.
3·0	—0·4	5·6	0·78	—1·58	0·32	28	2	—2·8	6·1	+2·4	0	0	0	0	1	23	0	3	4	0	1	0	3	0	17	1	7	2	Jagdulpur.
																													Konkan
5·8	..	2·8	0	..	0	..	0	..	9·5	..	1	0	11	10	4	2	2	1	0	1	0	0	0	0	8	20	2	0	Dahanu.
3·8	—0·3	1·7	0	—0·65	0	..	0	—0·8	5·1	—1·6	2	1	1	0	2	4	3	3	15	3	0	0	0	0	0	8	20	0	Bombay.
3·5	—0·9	..	0	—1·04	0	..	0	—0·8	6·7	—1·6	3	3	4	5	2	3	2	2	7	..	..	..	..	..	..	..	..	..	Alibag.
3·8	..	2·2	0·32	..	0·32	19	1	..	8·3	..	6	4	4	4	2	3	4	4	0	0	0	0	0	0	9	16	6	0	Harnai.
6·0	..	3·6	0·37	..	0·21	18	2	..	10·1	..	2	3	3	3	3	4	3	10	0	0	0	0	0	0	0	9	22	0	Devgad.
4·1	—1·3	3·0	0·36	—2·88	0·30	19	1	—1·0	7·7	+0·5	1	2	2	1	1	4	13	7	0	0	0	0	0	0	2	19	10	0	Marmagao.
6·4	..	4·6	0·07	—3·35	0·07	18	0	—3·9	2·5	..	0	0	3	4	3	0	0	1	20	0	0	0	0	0	1	25	4	1	Honavar.
																													Bombay Deccan
2·3	..	3·0	0	—0·41	0	..	0	—0·9	11·9	..	0	1	0	0	0	0	21	9	0	2	1	0	1	2	0	11	14	0	Jalgaon.
1·1	—0·6	1·6	0·26	—0·47	0·26	16	1	—0·2	7·1	—1·6	1	0	0	0	1	5	11	9	4	6	4	0	0	0	1	6	13	1	Malegaon.
1·3	—0·5	2·5	0·25	—0·66	0·12	17	1	—0·6	6·5	—1·3	0	1	0	3	0	4	0	23	0	0	4	0	1	1	1	0	24	0	Ahmednagar.
2·3	—0·2	3·0	0·62	—0·44	0·62	18	1	—0·7	3·9	—5·2	0	0	0	0	0	1	15	2	13	1	0	1	0	1	1	23	4	0	Poona.
3·1	+0·3	4·8	2·04	+1·15	0·84	8	4	+2·1	7·2	+1·0	3	0	1	0	0	5	4	17	1	6	2	0	3	0	5	5	8	2	Sholapur.
2·8	—0·6	3·8	2·57	+0·68	1·02	18	6	+3·1	8·5	+0·4	0	0	0	0	0	7	15	4	5	2	0	4	1	1	3	16	4	0	Miraj.
2·2	—0·8	3·8	1·34	+0·22	0·98	21	2	—0·2	7·0	+0·3	0	0	0	0	0	12	11	8	0	3	3	2	2	1	1	10	9	0	Bijapur.
2·5	—1·5	2·8	4·23	+1·93	2·08	19	4	—0·3	4·9	+0·2	1	0	0	0	2	27	1	0	0	1	0	1	0	4	22	3	0	0	Belgaum.
5·2	+1·4	5·5	1·10	—0·99	0·57	19	3	—1·1	8·9	+0·4	0	0	0	0	0	14	15	2	0	1	0	1	1	0	7	15	5	1	Gadag.
																													Hyderabad North
0·3	—1·8	1·4	0	—0·72	0	..	0	—1·3	10·4	+0·5	6	1	0	0	1	3	18	2	1	9	3	0	0	0	1	14	4	0	Aurangabad.
2·5	..	4·0	0·33	—0·43	0·17	9	1	—0·4	..	..	1	1	2	1	0	2	17	5	2	3	4	2	1	1	0	10	9	1	Parbhani.
2·8	—0·2	.. 0	0·09	—0·83	0·04	18	0	—2·4	8·0	+0·1	2	1	2	0	3	6	9	8	0	1	3	7	4	1	0	7	6	2	Bidar.
2·0	—0·7	3·1	0·03	—0·65	0·03	17	0	—1·4	4·2	—0·1	0	1	0	3	4	9	7	2	5	5	4	0	4	2	2	5	6	3	Nizamabad.
																													Peddapalli (R).

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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
Hyderabad South																						
Gulbarga	1,503	956·3	0	951·1	106·6	+1·7	111	28	79·7	+1·1	73	9	84·7	103·8	71·1	72·3	20·7	+0·2	14·2	50	—4	
Raichur	1,311	962·9	0	958·0	105·5	+1·8	109	26,29	81·5	+2·4	75	11	84·9	103·7	75·0	77·3	25·0	+1·7	19·8	62	+3	
Hyderaabd (Begumpet).	1,778	947·1	+0·6	942·7	105·8	+2·7	109	4 days	81·1	+1·4	78	4 days	86·6	102·4	72·3	75·2	21·3	—0·7	18·6	50	—3	
Hanamkonda ..	881	976·4	+0·5	971·3	108·1	+3·6	114	25,26, 27	82·5	+0·3	78	4 days	86·7	105·8	75·6	73·6	25·4	+3·9	13·5	59	+9	
Khammameth ..	367	994·3	..	988·7	107·9	..	117	25	81·8	..	77	9	87·5	105·8	80·2	82·0	31·9	..	26·5	72	..	
Mysore.																						
Chitaldrug ..	2,405	928·2	+0·1	924·0	97·4 (c)	+2·3	100	6	73·1 (a)	+1·2	70	11,14	76·2	96·1	70·8	71·4	23·5	+0·7	16·2	76	+2	
Hassan	3,149	905·2	..	902·1	91·1	+1·5	95	1,5	69·1	+1·5	67	14	73·0	83·2	69·4	71·8	23·1	+1·1	22·0	84	+6	
Bangalore ..	3,021	908·8	+0·3	905·2	93·5	+2·3	96	6	71·2	+2·3	67	24,27	74·6	90·6	70·1	69·5	23·3	+1·0	16·1	80	+4	
Mysore	2,518	925·4	+0·4	921·4	92·5	+0·6	96	5,6	70·5	+0·6	67	23,24	74·5	91·4	70·3	71·9	23·6	+0·5	18·8	81	+3	
Malabar.																						
Mangalore ..	72	1007·1	+0·2	1003·9	90·5	—0·3	92	8, 9, 14	81·0	+2·2	75	19	84·4	88·3	78·2	79·4	30·1	+0·8	30·3	75	—2	
Calicut	27	1008·2	0	1005·4	92·6	+2·5	95	7	79·8	+1·6	75	18	82·7	90·3	78·2	81·5	31·0	+0·7	30·0	81	—2	
Palghat	319	998·3	..	994·3	95·2	..	98	1,3	78·5	..	73	26	82·3	90·7	78·1	78·9	30·9	..	28·4	82	..	
Cochin	10	1009·2	0	1006·1	88·5	+1·0	90	6, 28, 29	79·3	+1·1	75	10,17 18	83·6	86·6	79·1	80·4	32·1	+1·7	32·7	82	—1	
Alleppey	12	1008·9	..	1006·1	91·3	..	93	26,29	79·6	..	73	30	83·2	88·3	79·9	80·9	33·3	..	32·9	86	..	
Trivandrum ..	211	1002·2	+0·2	999·4	89·8	..	92	27	77·8	..	75	30	81·1	86·1	77·8	78·9	31·0	+0·6	30·5	86	+2	
Nagarcoil ..	195	1002·5	..	999·7	92·5	..	95	5 days	79·3	..	76		82·7	87·3	77·2	78·6	29·4	..	29·4	77	..	
Madras South East																						
Pamban	37	1007·1	+0·6	1004·1	91·5	—0·2	93	8 days	82·6	+1·5	81	4 days	85·8	86·7	79·6	80·0	31·8	—0·8	32·0	76	—6	
Madura	437	993·5	+0·6	989·3	99·6	+0·8	103	14,15	78·9	+0·9	70	30	85·2	96·3	78·5	80·7	30·2	+4·2	28·7	73	+7	
Negapatam ..	31	1007·2	+0·8	1003·6	95·0	—2·3	101	15, 30	81·1	+0·4	77	31	86·9	89·2	80·0	81·0	31·9	+1·9	32·4	73	+1	
Trichinopoly* ..	295	998·8	+1·1	994·1	100·9	—0·5	105	14,25	79·3	+0·1	68	17, 30	85·4	93·0	77·5	79·3	28·6	+1·8	25·7	69	+3	
Coimbatore ..	1,341	963·0	+0·1	959·5	94·5	+0·1	97	3,4,8	75·0	+1·4	70	10	79·0	90·1	74·6	75·8	27·2	—0·1	24·0	80	—1	
Salem	913	977·3	+0·3	972·3	101·0	+1·7	105	15	79·4	+2·4	74	30	82·8	97·8	75·3	75·4	26·5	—1·2	19·9	69	—5	
Cuddalore ..	39	1006·8	+1·0	1002·7	95·0	—2·8	104	24	81·1	+0·7	75	17	84·5	88·8	78·9	81·7	31·1	+0·9	33·7	77	+6	
Vellore	703	983·7	+1·2	978·9	102·2	+0·4	106	23, 28	80·2 (b)	+1·2	76	2	85·1	99·3	77·7	79·1	29·1	+2·3	24·8	70	+4	
Madras	51	1005·9	+1·1	1001·8	99·0	—2·3	107	24, 25	81·9	+0·2	79	6, 16	86·9	91·5	78·9	80·3	30·1	+2·0	30·2	69	+6	
Arogyavaram ..	2,299	931·4	..	927·4	98·3	..	102	26	76·5	..	70	15	82·1	94·8	71·5	70·7	22·1	..	15·8	59	..	
Madras Deccan.																						
Cuddapah ..	428	992·8	+0·2	987·1	108·1	+2·5	112	29	84·9	+1·7	73	29	92·7	105·1	76·7	76·8	24·1	—1·9	18·7	46	—11	
Bellary	1,473	957·9	0	952·9	102·9	+0·8	106	29	79·7	+2·0	73	11,12	84·2	100·7	72·5	72·7	22·0	+0·3	14·7	55	—3	
Kurnool	923	975·9	+0·1	970·4	106·3	+1·8	109	28,30	81·8	+0·8	75	11	87·1	104·4	74·0	74·6	22·8	—0·9	15·7	52	—6	
Rentichintala ..	348	994·2	..	989·1	108·7	+1·8	116	26	83·7	—0·5	76	11	89·5	104·9	76·7	76·5	26·6	+0·8	18·2	54	—2	
Anantapur ..	1,148	968·6	..	963·2	104·1	..	107	5 days	81·9	..	74	17	84·9	102·7	73·7	74·0	23·4	..	15·5	58	..	
Nadras Coast, North																						
Nellore	66	1004·1	+0·4	1000·2	103·7	—0·5	112	24,27	80·5	—1·3	71	16	88·1	94·2	79·7	82·1	30·8	+2·4	31·9	69	+6	
Ongole	38	1004·9	..	1001·0	100·6	..	112	25	81·5	..	73	14	87·5	92·7	79·9	82·4	31·3	..	33·1	71	..	
Masulipatam ..	10	1006·6	+1·0	1002·6	97·0	—2·5	111	25	82·9	+1·2	79	4	87·4	90·9	80·8	81·4	32·9	—0·7	32·3	74	—1	
Cocanada	26	1006·5	+1·3	1002·3	97·8	—1·4	107	25	82·4	+0·7	75	31	88·2	91·7	81·1	81·6	32·9	+0·5	32·4	73	—1	
Vizagapatam ..	126	1002·6	+1·3	999·2	91·9	—0·1	97	22	33·1	+1·7	81	5 days	87·1	88·3	79·5	81·3	30·9	0	33·3	72	0	
Calingapatam ..	19	1005·8	+1·1	1002·2	92·8	—1·5	97	15	82·2	+1·5	79	11,28	84·8	88·6	79·7	81·3	32·3	—0·3	33·1	79	+4	

(a)—mean of 30 days (b)—mean of 29 days. (c)—mean of 28 days.

*Pressure and cloud observation refer to aerodrom

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I. S. T.									17 hrs I. S. T.									
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													Hyderabad South
2·4	—0·2	3·5	0·50	—0·62	0·28	9	2	—0·4	8·5	+0·2	1	2	0	1	2	7	9	9	0	2	3	4	2	1	9	5	5	0	Gulbarga.
2·7	—0·2	4·8	0·07	—1·00	0·07	11	0	—2·3	8·6	+0·4	0	2	1	0	1	9	10	8	0	1	2	3	7	1	3	4	10	0	Raichur.
3·0	—0·8	4·6	1·31	+0·22	1·31	22	1	—1·3	6·8	+0·4	0	3	2	2	3	3	10	7	1	4	8	5	5	1	2	1	4	1	Hyderabad (Begumpet).
3·9	+0·1	3·9	0	—1·22	0	..	0	—2·0	7·2	+0·9	0	1	1	13	12	1	2	1	0	4	6	3	7	2	2	2	5	0	Hanamkonda.
3·0	..	2·8	0·19	..	0·19	14	1	..	7·0	..	0	0	3	20	5	0	2	1	0	0	1	5	17	1	4	0	2	1	Khammameth.
																													Mysore
4·5	—0·7	4·8	0·77	—2·17	0·46	17	2	—2·4	6·9	+0·8	0	0	0	0	0	12	18	0	1	2	4	6	1	0	1	11	5	1	Chitaldrug.
3·8	—1·0	6·0	2·48	—2·10	0·55	21	8	+0·8	7·5	+2·2	0	0	0		0	14	8	5	0	0	0	0	3	0	11	11	4	0	Hassan.
6·0	+1·1	5·4	2·52	—1·64	0·91	27	5	—1·6	7·0	+1·5	0	0	0	0	0	2	22	6	1	4	4	7	2	1	2	5	4	2	Bangalore.
6·6	+0·9	7·3	4·94	—0·65	1·33	24	8	+0·1	6·1	0	0	0	0	0	1	5	19	2	4	0	4	5	1	2	5	11	3	0	Mysore.
																													Malabar.
5·0	—1·1	3·8	1·11	—5·07	0·75	19	3	—3·7	5·2	—0·3	8	4	8	1	0	0	0	4	6	0	0	0	0	0	0	12	19	0	Mangalore.
6·1	—0·1	5·5	1·29	—7·99	0·76	13	3	—5·7	8·3	+1·3	7	12	6	0	0	0	0	6	0	0	0	1	0	0	1	18	11	0	Calicut.
4·8	..	5·3	1·48	..	0·91	10	2	..	6·8	..	0	0	0	0	0	4	25	2	0	0	0	0	0	0	4	22	5	0	Palghat.
7·3	+1·1	6·6	7·11	—4·57	2·28	21	6	—6·3	7·2	+1·9	1	4	13	6	0	0	1	0	6	0	0	0	0	0	1	18	12	0	Cochin.
8·2	..	6·4	10·07	..	3·45	30	8	..	6·5	..	2	6	9	3	1	0	0	3	7	0	0	0	0	0	2	8	21	0	Alleppey.
4·6	—2·1	6·2	2·39	—6·39	0·83	3	4	—6·1	5·4	+0·3	15	7	2	2	0	0	0	5	0	0	3	0	0	0	6	13	9	0	Trivandrum.
5·7	..	6·3	2·34	..	0·82	3	5	..	8·7	..	0	0	0	0	0	3	17	10	1	0	0	0	0	0	12	17	2	0	Nagarcoil
																													Madras South East
4·5	+1·1	3·7	0	—0·97	0	..	0	—1·7	9·5	—0·6	0	1	0	3	17	10	0	0	0	0	0	0	5	18	8	0	0	0	Pamban.
4·9	—0·5	6·0	2·39	—0·35	1·73	30	4	—0·7	3·3	—1·0	1	3	4	0	1	2	6	3	11	1	1	4	8	4	1	1	0	11	Madura.
6·4	+1·6	4·8	0·02	—1·55	0·01	16,20	0	—1·8	7·6	+1·2	0	0	0	0	9	16	3	1	2	0	0	1	9	10	8	3	0	0	Negapatam.
4·1	—0·1	4·3	2·89	—0·42	1·54	17	2	—2·1	4·4	—0·2	0	0	0	0	9	8	9	2	3	1	2	2	2	9	7	2	4	2	Trichinopoly.*
3·3	—0·9	5·2	0·23	—2·24	0·13	10	1	—3·5	6·4	+2·6	0	1	0	0	13	13	0	0	4	1	1	0	1	13	14	1	0	0	Coimbatore.
4·5	+0·2	5·6	1·18	—3·42	0·42	30	3	—4·1	4·8	+1·2	0	0	2	0	6	17	4	0	2	0	1	3	2	6	6	4	0	9	Salem.
5·1	+1·0	5·1	0·81	—0·19	0·81	17	1	—0·3	9·3	+4·0	0	0	0	0	8	21	1	1	0	0	0	1	27	3	0	0	0	0	Cuddalore.
3·3	0	4·9	0·38	—1·91	0·23	23	2	—1·8	4·9	+1·1	1	1	0	0	3	6	4	7	9	0	0	1	8	12	6	2	1	1	Vellore.
3·7	—0·6	3·1	0.02	—1·01	0·02	15	0	—1·1	13·9	+2·1	0	0	0	7	9	13	1	1	0	0	0	0	30	0	0	0	1	0	Madras.
5·2	..	5·7	0·22	..	0·22	15	1	..	4·8	..	1	0	0	0	7	3	5	5	10	6	4	6	3	2	2	2	4	2	Arogyavaram.
																													Madras Deccan.
2·5	—1·5	3·2	0·50	—1·01	0·50	17	1	—1·6	4·8	—1·3	0	0	0	2	1	0	19	1	8	1	0	7	4	0	0	2	3	14	Cuddapah.
5·4	+1·2	5·3	1·85	—0·04	1·73	11	1	—2·3	3·8 (a)	—2·2	0	0	1	0	0	0	10	5	15	1	1	3	0	1	1	4	11	9	Bellary.
3·6	—0·3	4·8	0·43	—0·65	0·34	29	1	—1·5	7·6	+0·8	1	1	0	2	3	5	12	6	1	4	4	6	5	1	2	2	7	9	Kurnool.
1·5	—3·8	2·9	0·22	—2·30	0·10	31	1	—1·8	7·1	—0·8	0	0	0	7	6	15	2	0	1	1	1	2	12	3	11	0	1	0	Rentichintala
3·3	..	3·0	0·68	—1·36	0·38	11	2	—1·7	7·3	..	0	0	0	0	0	5	24	2	0	2	9	1	0	1	1	0	4	13	Anantapur.
																													Madras Coast, North
2·9	—1·9	2·9	1·10	+0·01	1·00	16	2	+0·6	6·6	+1·0	1	0	0	3	21	1	0	1	4	0	0	5	22	4	0	0	0	0	Nellore.
4·3	..	3·0	0·45	..	0·37	14	1	..	8·3	..	0	0	0	12	12	3	1	0	3	0	0	9	21	1	0	0	0	0	Ongole.
4·4	—0·2	2·0	0	—1·32	0	..	0	—2·0	9·9	+3·3	0	0	0	8	16	4	2	1	0	0	0	0	8	21	2	0	0	0	Masulipatam.
5·5	0	1·7	0	—1·54	0	..	0	—2·5	8·2	+2·5	0	0	0	2	1	27	1	0	0	0	0	0	7	7	16	0	1	0	Cocanada.
5·1	—0·8	3·7	0·03	—1·97	0·03	22	0	—2·7	8·1	+2·5	0	0	2	1	2	21	5	0	0	0	0	1	0	16	14	0	0	0	Vizagapatam.
5·9	+1·5	6·1	0·07	—2·49	0·04	23	0	—3·2	14·3	+5·6	0	0	0	0	11	17	2	1	0	0	0	0	0	8	23	0	0	0	Calingapatam.

site and other observations refer to cantonment site.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
Hill Stations Excluding Kashmir and Baluchistan																						
Shillong	4,921	848·3	+0·6	845·4	74·8	+0·8	79	20	59·0	—0·1	49	1	69·1	69·9	62·6	64·0	16·8	+0·1	17·1	70	—1	72
Cherrapunji ..	4,309	867·3	+0·6	864·7	71·7	—0·4	79	18,19	61·8	+0·8	57	5	67·9	68·6	64·5	66·1	19·4	+0·5	20·9	84	+2	88
Aijal	3,599	889·1	..	886·5	80·4	..	87	15	63·0	..	56	5	71·4	74·0	66·7	68·5	21·7	..	21·6	79	..	78
Darjiling	7,432	775·5	+0·5	772·8	66·0	+3·1	74	20	53·5	+1·1	49	1,4, 11	58·1	59·9	56·0	57·5	14·5	+0·3	15·1	89	..	87
Kalimpong.. ..	3,965	877·4	+0·7	875·0	77·2	+2·6	82	19,20	62·7	0	58	11	66·7	70·1	63·5	57·1	18·9	—0·3	21·5	86	+4	85
Katmandu	4,388	865·5	..	862·2	87·8	+2·5	94	14,16	60·3	—0·1	55	1	68·5	82·1	62·6	67·0	17·0	—0·7	16·7	73	+3	46
Muktesar	7,592	771·6	+0·1	769·9	75·3	+2·2	83	18	57·1	+1·3	46	4,5,6	62·9	68·9	51·1	54·6	8·7	0	9·5	45	—3	41
Mussooree	6,699	795·6	..	794·6	76·8	+0·3	82	18,19	61·2	+2·6	42	6	68·7	72·4	54·2	56·3	9·1	—0·7	9·7	39	—9	37
Simla	7,224	781·2	+0·8	780·2	75·8	+2·6	85	21	60·7	+3·0	41	5	69·4	71·8	52·0	54·4	6·6	—1·6	8·1	31	—7	33
Murree	7,113	784·1	+0·9	783·3	76·8	+1·7	86	4 days	58·6	+3·0	43	4	65·9	73·7	52·2	55·7	10·8	+2·3	8·9	40	—2	35
Wana	4,456	858·8	..	856·4	90·8	+1·9	101	25	60·7	+0·7	49	5	68·9	88·3	53·8	61·5	8·2	—1·9	7·6	49	+6	20
Cherat	4,272	866·3	+0·3	865·9	91·4	+6·1	102	4 days	75·1	+8·7	49	6	73·7	87·2	58·6	65·6	11·0	+0·8	12·6	41	—1	30
Parachinar ..	5,673	824·9	+0·8	824·0	80·4	+0·9	95	26	58·9	+3·3	48	4, 5	65·2	79·0	52·9	56·7	9·2	—0·6	7·8	45	—2	26
Drosh	4,806	853·3	+1·2	849·3	83·1	+1·6	96	26	60·9	+1·9	47	11	64·5	80·7	53·5	57·7	9·8	—1·3	7·2	49	—9	24
Abu	3,945	877·8	—0·4	875·1	90·5	+2·6	99	22	74·3	+3·4	65	3	78·4	85·9	65·1	66·8	15·7	+4·0	14·7	37	—2	29
Pachmarhi	3,528	891·7	+0·3	888·8	97·3	+1·5	104	21,22, 23	76·7	+1·6	64	1	83·9	95·9	64·5	67·8	12·8	—0·7	11·8	33	—5	21
Mahabaleshwar ..	4,534	862·3	+0·5	860·5	85·7	+1·9	90	8, 19	65·9	+1·1	60	14	69·6	80·4	57·1	69·9	10·9	—2·9	20·7	45	—11	60
Mercara	3,781	884·5	—0·3	882·3	79·5	—0·6	83	7	66·1	+1·6	62	19	69·0	78·0	67·4	71·2	22·3	+1·7	23·3	92	+5	72
Ootacamund ..	7,364	780·7	+1·0	778·9	74·0	+3·6	78	23,24, 26	51·9	—0·6	48	11, 16	57·9	66·3	54·4	60·2	13·1	+0·6	15·6	82	+15	74
Coonoor	5,730	826·4	..	..	76·3	0	79	14,16, 29	57·5	—1·5	53	4	70·1	..	61·3	..	15·3	+0·7	..	61	+1	..
Kodaikanal ..	7,688	771·8	+1·1	770·2	69·9	+1·5	74	24,25,	55·1	+0·4	51	16	61·1	63·3	54·7	58·8	12·4	+0·5	15·3	68	+2	77
Ceylon																						
Colombo	24	1009·1	+0·2	1006·2	88·1	+0·4	89	12days	77·0	—0·6	73	29	80·5	15·4	77·2	78·4	30·4	—0·4	30·0	86	—2	72
Tricomalee ..	24	1008·0	+1·4	1004·8	92·8	—0·4	96	13, 15	79·0	+0·7	76	17, 29	82·1	88·1	76·6	79·6	28·8	—0·6	30·6	77	—5	67
Hambantota ..	61	1006·8	0	1004·8	88·8	+2·0	90	9 days	76·9	—0·4	72	20	80·6	84·1	77·3	79·3	30·5	+0·4	31·9	86	—3	80
Mannar	12	1008·3	..	1005·5	89·5	..	91	12, 14, 15	80·5	..	73	17	84·2	86·6	79·7	80·3	32·6	..	32·5	81	..	75
Afghanistan																						
Jalalabad	1,950	938·1	..	935·2	96·4	..	107	23	69·4	..	54	4	77·6	94·0	71·7	82·7	24·2	..	33·6	74	..	62
Kabul	5,955	819·7	..	817·7	80·1	+1·9	91	26,27	51·7	+0·6	41	4, 5	60·3	76·1	50·9	57·6	9·1	+0·2	9·5	54	+6	34
Kandahar	3,462	896·9	..	894·6	90·7	..	97	4 days	56·3	..	45	6	64·8	92·5	55·8	66·7	11·6	..	11·9	56	..	31

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION.
											8 hrs. I. S. T									17 hrs. I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													Hill Stations Excluding Kashmir and Baluchistan
5·8	—0·4	7·0	22·13	+10·84	3·22	29	19	+1·7	4·9	+1·2	3	1	0	0	3	9	1	1	13	0	0	1	1	3	9	3	3	11	Shillong.
6·0	—1·3	5·8	63·86	+13·42	9·00	27	20	—2·0	6·8	+1·3	3	7	0	3	3	13	1	1	0	1	4	1	2	5	13	5	0	0	Cherrapunji.
3·9	..	5·0	13·85	..	2·31	29	12	..	6·4	..	0	1	7	4	3	9	3	1	3	1	0	1	5	0	18	4	2	0	Aijal.
7·0	0	7·7 (a)	4·79	—4·84	1·65	23	11	—3·4	6·2	+1.4	1	2	10	2	0	3	10	2	1	1	1	1	1	1	4	20	0	1	Darjiling.
5·3	+0·1	6·9	3·87	—2·40	1·39	22	10	—1·8	6·7	—0·1	2	1	1	6	2	0	2	11	6	2	0	1	15	5	0	1	6	1	Kalimpong.
4·3	—1·3	5·6	4·01	—1·09	1·22	22	9	—1·5	1·5	+0·1	0	1	0	0	0	0	0	0	30	3	0	3	0	2	1	7	3	12	Katmandu.
0·9	—1·6	4·0	1·22	—1·08	0·43	5	4	—1·1	8·8	+1·8	0	1	1	2	2	4	13	7	1	0	2	1	1	0	11	12	4	0	Muktesar.
1·9	—0·9	3·7	1·56	—0·11	0·58	30	4	—0·3	3·0	—3.0	7	6	1	3	5	3	0	0	6	2	6	0	5	5	8	1	0	4	Mussooree.
1·6	—1·0	3·1	1·61	—0·92	0·57	5	5	—0·2	2·5	—1·3	3	9	1	3	6	1	0	0	8	7	3	1	1	5	6	3	4	1	Simla.
3·1	+0·6	5·7	2·57	—0·05	1·26	4	9	+4.2	7.5	+2.3	2	7	4	4	0	0	6	5	3	0	5	4	1	0	1	9	11	0	Murree.
1·1	—0·8	4·1	0·70	—0·12	0·48	10	2	—0·3	3·7	..	0	0	1	0	1	0	0	0	29	1	2	4	6	2	3	5	2	6	Wana.
1·6	—0·5	3·5	0·36	—1·29	0·20	4	2	—0·7	11·0	+3·1	18	1	1	0	4	1	1	2	3	14	1	0	2	8	2	2	2	0	Cherat.
1·8	—0·5	5·2	1·37	—0·94	0·42	19	3	—3·7	4·5	+1·5	2	1	1	1	0	0	1	6	19	2	5	5	12	0	3	2	0	2	Parachinar.
2·8	+0·3	6·1	2·27	+0·36	1·27	11	6	+1·5	5·3	+1·8	9	2	5	7	1	1	0	0	15	3	4	1	0	1	13	6	1	2	Drosh.
0·3	—0·7	1·0	0	—0·93	0	..	0	—1·3	5·9	—1·4	4	1	0	0	1	4	12	3	6	0	0	2	0	5	10	9	4	1	Abu.
3·9	+1·4	5·4	0·01	—0·61	0·01	11	0	—1·6	3·6	—1·7	3	3	1	1	1	2	10	9	1	6	1	0	0	0	2	13	9	0	Pachmarhi.
2·3	—1·3	3·1	0·38	—1·22	0·22	19	2	—0·4	3·8	—4·7	6	5	0	1	0	4	1	14	0	1	0	0	0	0	6	3	21	0	Mahabaleshwar.
5·3	—1·1	4·8	3·02	—2·19	1·29	18	5	—3·5	5·8	+2·0	0	2	3	0	0	2	7	5	12	0	0	1	0	0	4	14	10	2	Mercara.
3·7	—1·2	6·7	2·26	—4·03	0·66	16	8	—4·0	3·2	+0·5	3	7	7	1	0	0	0	0	13	11	9	7	0	0	0	0	2	2	Ootacamund.
6·1	+0·9	..	1·41	—2·76	0·63	16	3	—4·7	4·4	+1·1	0	0	1	7	2	0	0	0	21	..	..	..	..	..	..	..	..	..	Coonoor.
4·1	—0·4	6·8	2·42	—3·95	0·77	28	7	—3·6	6·6	—0·5	5	10	5	3	1	0	0	3	4	4	6	3	10	0	0	0	2	6	Kodaikanal.
																													Ceylon
6·8	—0·6	6·5	18·01	+4·77	7·06	29	14	—0·1	..	..	0	1	2	10	6	5	2	1	4	0	0	0	0	4	24	3	0	0	Colombo.
4·0	—0·3	5·6	2 .3	—0·55	1·82	20	3	—0·4	..	..	0	0	0	0	8	21	2	0	0	0	0	19	1	2	6	2	1	0	Trincomalee.
6·8	+1·9	7·5	4·31	—0·34	2·91	29	6	—0·8	..	..	1	0	0	0	0	14	13	2	1	0	0	1	0	3	27	0	0	0	Hambantota.
5·4	..	4·7	1·52	..	1·44	17	1	..	..	..	0	0	0	1	21	9	0	0	0	0	0	0	0	14	16	1	0	0	Mannan.
																													Afghanistan
2·5	..	5·1	0·30	..	0·29	2	1	..	3·4	..	0	2	1	0	0	4	14	2	8	1	6	4	3	2	5	2	3	5	Jalalabad.
3·4	+1·1	5·4	1·35	+0·50	0·63	2	3	+0·5	3·7	+1·4	1	0	1	2	6	9	5	2	5	7	7	2	4	2	2	1	2	4	Kabul.
1·8	..	2·0	0·56	..	0·50	9	1	..	1·8	..	0	0	1	1	0	0	0	1	28	0	0	0	0	0	13	0	7	11	Kandahar.

(a)—Mean of 30 days.

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at station level in Millbars.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, Millibars.			Relative humidity, %		
		Mean 4 hrs. G. M. T.	Departure from normal.	Mean 12 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 4 hrs. G. M. T.	Mean 12 hrs. G.M.T.	Mean 4 hrs. G. M. T.	Mean 12 hrs. G.M.T.	Mean 4 hrs. G. M. T.	Departure from normal.	Mean 12 hrs. G. M. T.	Mean 4 hrs. G. M. T.	Departure from normal.	Mean 12 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Iran																						
Charbar ..	25	1005·7	..	1003·3	..	..	..	..	76·0	—1·9	63	2, 3	79·6	87·9	76·5	79·5	29·9	—0·2	30·4	86	+10	69
Jask	13	1005·7	..	1003·5	92·5	—0·2	99	16	79·5	+1·3	76	13	85·3	90·2	76·4	79·0	26·9	—0·2	29·0	66	—2	60
Bandar Abbas ..	29	1005·9	..	1002·9	98·7	..	107	31	76·5	..	73	8, 18, 19	86·9	96·0	75·0	78·0	24·1	..	24·6	56	..	44
Bushire	131	1003·9	..	1002·2 (a)	95·3	..	108	31	73·5	..	65	4	83·5	90·1 (a)	69·7	72·8 (a)	17·9	..	19·3 (a)	48	..	42 (a)
Ispahan (R)																						
Meshed	5,817	897·6	..	894·7	81·3	+1·3	94	22	49·1	—5·3	41	3	67·7	78·2	55·7	62·3	10·3	—1·8	12·6	48	—13	40
Seistan	3,104	954·2	..	950·7	..	..	..	..	67·6	+0·6	57	4	78·4	95·3	61·0	66·5	11·2	—4·3	10·3	35	—15	19
Arabia																						
Bahrain	28	1006·8	..	1005·4	91·5	—0·2	103	15	78·2	+0·1	71	7	83·9	89·1	77·7	81·0	29·9	+2·3	32·6	75	+5	7
Muscat	15	1005·8	..	1004·4	95·8	—0·5	105	26	85·4	—0·3	80	8	89·0	91·8	80·9	82·2	32·5	+6·4	33·6	70	+14	6
Sharjah	25	1006·9	..	1005·1	94·2	+1·1	103	3, 31	71·9	—0·2	66	20	82·5	90·5	72·3	78·8	23·2	+0·1	29·2	60	—2	5

(a) Mean of 30 days. (c) Mean of 28 days (j) Mean of 21 days.
(R) Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 HRS, G. M. T.) AT 4TH CLASS STATIONS—MAY 194

STATION.	Maximum temperature, °F.				Minimum temperature, °F.				Mean dry bulb temperature 8 hrs. I. S. T. °F.	Mean wet bulb temperature 8 hrs. I. S. T. °F.	Vapour, pressure, millibrs		Relative Humidity, %		Mean cloud amount 8 hrs. I. S. T.	Rainfall, inches.				Number of rainy days, (0·10² or more)		Wind.	
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.			Mean 8 hrs. I. S. T.	Departure from normal.	Mean 8 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 8 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	..	..	..	..	70·6	—0·8	63	1	82·1	75·5	27·2	+1·0	73	—8	..	5·22	—1·25	2·17	23	11	+0·3	..	.
Bengal																							
Pabna	96·0	+1·2	103	9	76·0	+1·6	70	3	83·6	78·9	31·7	+·07	81	+1	..	5·20	—2·15	0·98	3	9	—0·8	..	.
Kashmir																							
Jammu	105·0	+5·1	114	18,24	81·0	+2·8	61	4	88·7	66·0	12·0	—2·0	26	—11	2·6	0·58	—0·35	0·35	4	2	—0·2	N22E	.
Kargil	71·3	+0·5	80	17,18	50·7	+2·6	40	2	55·1	47·3	9·9	+2·4	58	+2	2·7	0·91	—0·07	0·37	2	3	+0·6	Calve	.
Mysore																							
Balehonnur ..	86·4	+1·8	91	6	67·5	+0·4	62	11	79·6	70·4	24·5	+1·3	..	..	6·5	5·21	+1·66	1·22	5	10	—50	..	.
Tibet																							
Yatung (Chumbi) ..	63·5	+2·7	70	21, 22	38·0	—4·3	30	1	53·2	52·3	12·9	+2·2	95	+9	6·5	3·17	—0·89	0·50	8	11	0	..	.
Iran																							
Zahidan	88·9	—0·5	96	15	61·3	+2·5	48	5	76·8	54·8	6·8	—11·7	21	—44	1·2	0	—0·09	0	..	0	—0·4	N35E	8

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																		STATION.
											4 hrs. G. M. T.										12 hrs. G. M. T.									
Mean 4 hrs. G. M. T.	Departure from normal.	Mean 12 hrs. G. M. 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
																													Iran
(j) 1·2	+0·3	(j) 0·9	0	0	0	..	0	..	..	..	0	4	1	5	2	0	3	3	3	0	0	0	2	7	6	5	1	0	Charbar.
1·4	+0·7	1·5	0	—0·01	0	..	0	0	8·7	+0·4	2	1	9	0	0	0	10	9	0	0	0	0	2	2	12	15	0	0	Jask.
2·7	..	2·8	0·07	..	0·05	3	0	..	..	..	6	7	1	0	2	1	6	2	6	0	1	0	5	15	9	0	5	0	Bandar Abbas.
2·2	..	(a) 1·4	0	..	0	..	0	..	8·6	..	5	5	3	3	0	1	3	11	0	0	0	0	1	2	13	9	5	0	Bushire.
																													Ispahan. (*R*)
3·9	0	4·5	0·38	—0·92	0·33	17	1	—2·5	1·3	—0·1	0	0	2	1	0	0	1	0	27	0	0	5	2	0	0	1	0	23	Meshed.
2·4	+1·1	2·1	0·06	+0·03	0·06	8	0	—0·2	(c) 11·0	+2·3	0	0	0	0	0	0	0	25	6	0	0	0	0	0	0	0	23	8	Seistan
																													Arabia
2·1	0	1·5	0·56	+0·52	0·26	6	3	+2·9	5·5	—2·6	3	2	1	1	1	2	8	10	3	13	4	3	2	0	0	0	8	1	Bahrain.
0·4	—0·4	0·6	0	0	0	..	0	0	4·4	+0·7	1	0	0	0	0	0	7	4	19	0	0	0	0	0	0	6	7	18	Muscat.
1·4	+0·2	1·5	0	0	..	..	..	..	7·8	+0·8	1	1	2	5	10	9	1	1	1	6	0	0	0	0	2	10	13	0	Sharjah.

TABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 HRS. G. M. T.) AT 5TH CLASS STATIONS—MAY 1947.

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 ..	116·08	..	15·94	31	27	..	Baluchistan ..	Harnai ..	0·40	—0·10	0·40	9	1	+0·1
Bengal	Bankura ..	2·85	—1·22	1·26	20	7	+1·4	Rajputana East ..	Udaipur ..	0	—0·72	0	..	0	—1·5
	Rajshahi ..	6·80	+1·31	2·93	5	7	—0·4	Bombay, Deccan ..	Khandala ..	0·10	—0·69	0·10	19	1	—0·3
	Sirajganj ..	11·27	+3·19	4·25	28	(b) 12	..	Madras Southeast ..	Palamcottah ..	1·25	—0·38	0·85	1	2	—0·5
	Rangpur ..	8·34	—2·49	2·36	28	11	—0·5	Sikkim	Lachung ..	12·41	+6·16	1·21	22	25	+8·4
	Cooch Behar ..	9·22	—7·55	3·38	31	12	—3·5								
Bihar	Muzaffarpur .	3·06	+1·08	1·36	28	5	+1·9								
	Chapra ..	0·72	—0·58	0·72	6	1	—0·8								
	Arrah ..	0·86	—0·37	0·86	6	1	—0·8								
United Provinces West	Meerut ..	0·05	—0·55	0·05	5	0	—1·5								
Punjab East and North	Dharampore ..	0·49	—1·45	0·20	5	7	—3·6								
	Kyelang ..	4·32	+2·01	1·97	4	4	—1·6								
	Dalhousie ..	0·97	—2·02	0·42	5	3	—2·7								
Kashmir ..	Sonamarg ..	5·50	+0·40	1·50	3	11	+1·2								
	Gurez ..	5·10	+0·62	0·90	2	11	+1·9								

(b) Total for 29 days.

Monthly Means of Upper Winds

NOTE :—Data upto 9·0 Km. a.s. l. are given under Table A and data above 9·0 Km. under Table B. In Tables A & B

n represents the number of observations,
V represents the mean speed in m/sec. irrespective of directions,
v represents the resultant mean velocity in m/sec., and
D represents the direction of the resultant mean wind in degrees East of North.

For the co-ordinates of the stations for which data have been published in these tables and other particulars, please refer to the introduction to the Monthly Weather Report, January 1947. In addition to the data for stations mentioned therein the data for Deolali—Lat. 19° 53′ N., Long. 73° 49′ E. Ht. 576 metres a.s. l. have been included. The data for the following stations mentioned there *have not* been included :—

1. Bahrein, 2. Drosh, 3. Jhelum, 4. Jiwani, 5. Khanpur, 6. Lahore, 7. Miniboy, 8. Multan, 9. Peshawar.

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	AHMEDABAD												ALLAHABAD											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·3	1·5	243	31	1·7	1·1	238	31	3·7	2·9	238	31	1·9	1·2	76	31	1·7	1·1	106	31	2·6	1·9	320
0·15 a ground	31	8·8	7·4	262	31	6·9	5·2	252	31	6·9	5·2	261	31	7·9	4·5	84	30	6·4	3·1	129	30	4·9	3·9	331
0·6 a. s. l.	31	10·7	10·0	277	30	10·5	8·8	295	31	6·5	5·9	254	31	8·2	3·9	84	30	6·0	3·3	164	30	4·6	3·7	327
1·0 ,,	31	8·7	8·4	278	28	10·5	9·9	301	31	6·0	5·9	258	29	5·3	1·7	353	31	5·3	2·7	231	30	5·1	4·0	328
1·5 ,,	31	7·1	6·6	276	27	8·5	7·9	285	31	6·8	6·4	266	28	6·6	4·8	318	30	6·1	4·2	279	29	5·9	5·0	306
2·0 ,,	25	5·7	4·5	277	27	7·8	6·8	284	31	6·9	6·3	269	23	7·6	6·7	306	30	8·5	7·4	296	27	7·6	6·6	299
2·5 ,,	15	5·1	3·2	295	23	6·5	5·2	267	30	7·3	5·9	272	11	9·7	9·1	303	28	10·0	8·8	302	27	8·9	8·1	291
3·0 ,,	14	5·1	2·5	294	20	6·1	3·9	241	29	7·4	6·2	271	5	10·7	8·7	305	25	11·1	9·9	303	26	10·2	9·2	288
4·0 ,,					13	8·5	6·0	236	26	6·7	4·6	267					16	11·0	9·5	306	21	10·5	9·4	288
5·0 ,,					8	7·1	4·7	290	26	8·2	4·9	281					7	9·7	7·9	319	15	10·0	8·9	292
6·0 ,,					7	9·8	7·2	298	23	8·7	5·9	305					5	12·0	6·8	297	13	11·7	10·1	300
7·5 ,,									3	10·2	10·1	293					1	8·5	8·5	10	4	8·4	6·3	329
9·0 ,,																								

Height in km.	AMBALA												ANANTAPUR								ASANSOL			
	0100				0700				1600				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	3·2	1·1	128	31	4·0	2·9	110	31	2·9	0·4	292	31	4·1	3·9	263	31	2·2	1·2	348	31	1·9	1·3	14
0·15 a ground.	31	6·4	2·1	112	31	7·1	5·6	116	31	5·0	0·7	271	31	10·6	10·4	255	31	4·3	2·7	344	29	6·2	4·7	18
0·6 a. s. l.	31	5·9	1·3	81	31	8·0	5·9	115	31	4·8	1·0	254	31	12·4	12·2	259	31	4·3	2·8	340	29	8·3	6·7	18
1·0 ,,	31	5·1	2·0	347	31	6·7	2·7	151	31	4·7	1·8	257	31	10·3	8·9	278	31	4·7	2·9	336	26	6·9	4·7	20
1·5 ,,	29	5·9	4·1	310	30	5·9	0·9	249	30	5·2	3·6	266	31	8·5	5·4	303	31	4·2	2·5	331	22	5·6	2·9	23
2·0 ,,	28	7·8	6·5	294	30	6·5	3·6	300	29	6·1	5·2	279	31	7·5	3·2	9	31	4·7	2·8	350	14	6·2	4·3	26
2·5 ,,	17	8·7	8·2	302	24	8·3	8·1	308	27	7·3	6·7	292	31	7·6	4·6	54	31	5·9	3·5	19	6	6·3	4·8	30
3·0 ,,	13	10·8	10·4	297	18	9·6	9·1	316	26	9·7	9·1	306	29	8·4	7·2	63	30	7·3	5·6	44	3	6·7	6·1	33
4·0 ,,	1	17·0	17·0	245	12	12·5	10·3	317	23	14·1	13·1	310	28	11·3	10·6	52	29	7·8	6·6	67	1	6·5	6·5	36
5·0 ,,					7	11·9	9·8	330	17	14·5	12·9	308	23	11·0	8·7	62	28	7·4	5·0	64				
6·0 ,,					5	11·5	9·6	312	13	18·7	17·5	318	20	7·1	3·9	88	26	5·3	2·0	48				
7·5 ,,					2	17·5	17·1	316	5	17·8	16·1	328	15	7·1	2·9	124	19	5·6	1·4	99				
9·0 ,,									3	15·8	14·9	332	14	6·1	4·3	164	12	6·6	3·1	164				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	ASANSOL											
	0700				1100				1600			
	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·9	1·5	134	31	1·6	0·8	137	31	1·9	0·5	179
0·15 a ground.	30	4·3	2·4	147	31	3·5	1·9	149	29	4·4	1·5	163
0·6 a. s. l.	29	6·2	3·4	214	31	4·5	1·9	151	29	4·4	1·5	174
1·0 „	26	6·8	4·4	236	27	4·8	1·1	210	28	4·4	1·2	210
1·5 „	22	6·9	5·2	261	21	6·0	4·0	252	27	4·3	3·0	288
2·0 „	18	6·1	4·5	269	9	5·7	4·7	275	21	6·8	6·3	291
2·5 „	14	5·7	4·3	274	5	4·5	3·6	284	18	9·5	9·2	294
3·0 „	10	5·4	3·4	288	3	7·3	7·3	301	18	10·8	10·2	293
4·0 „	3	6·0	5·5	329					10	10·0	9·5	296
5·0 „	3	6·0	5·7	10					5	7·8	6·8	307
6·0 „	3	5·8	5·2	35					4	7·0	4·9	308
7·5 „	2	3·3	3·2	278					4	12·8	11·9	264
9·0 „	2	8·5	4·6	267					3	14·7	14·0	249

Height in km.	BALASORE				BANGALORE								BAREILLY								BHOPAL			
	0700				0700				1600				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	6·3	6·0	214	31	3·6	3·3	260	31	3·1	0·7	318	31	2·0	1·5	83	31	2·0	1·2	290	31	4·8	3·2	283
0·15 a ground.	31	8·7	8·5	211	31	6·4	6·0	260	31	4·9	1·1	318	31	7·0	4·5	103	30	5·2	3·5	292	31	10·4	8·0	290
0·6 a. s. l.	30	9·7	9·1	224	..	..	..	..	..	..	..	..	31	8·0	4·4	154	30	5·2	3·4	296	31	10·2	7·6	286
1·0 „	24	8·0	7·3	238	31	5·3	5·0	255	31	5·0	1·3	302	31	6·3	1·9	169	30	5·3	3·8	290	31	10·5	8·4	296
1·5 „	22	7·0	5·9	253	22	6·5	4·4	295	31	5·1	2·3	4	31	5·5	2·2	280	31	5·1	4·5	289	30	9·1	7·7	295
2·0 „	20	5·7	5·2	270	20	5·3	2·6	4	31	5·6	2·6	14	31	6·8	5·8	296	30	7·1	6·8	294	11	5·6	4·3	294
2·5 „	14	4·4	3·9	289	19	7·3	6·1	35	27	6·1	3·0	24	31	9·4	8·5	301	28	8·7	8·3	295	2	7·5	6·3	295
3·0 „	10	4·9	4·4	292	15	9·0	7·9	45	19	6·0	4·3	32	30	10·1	9·3	304	28	9·9	9·0	295				
4·0 „	9	7·6	7·0	304	9	10·9	10·8	71	7	7·1	6·2	59	24	11·9	11·0	301	25	11·7	11·0	299				
5·0 „	7	6·6	5·0	298	6	8·2	7·5	70	6	9·6	8·4	64	17	11·9	10·2	305	20	12·7	12·0	301				
6·0 „	3	11·5	11·3	293	2	4·0	3·3	150	4	7·8	5·3	55	9	12·3	11·1	322	13	15·2	14·4	297				
7·5 „	1	16·0	16·0	280	1	6·0	6·0	140	2	7·5	2·0	6	1	4·5	4·5	5	4	10·1	9·5	313				
9·0 „	1	12·0	12·0	265	1	5·0	5·0	150					1	7·0	7·0	320	2	12·5	12·5	337				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	BHOPAL								BHUJ												BIKANER			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	4·0	2·6	295	31	4·9	3·7	293	30	2·8	2·7	234	31	3·0	2·8	231	31	5·0	4·7	249	31	3·1	2·2	225
0·15 a ground	31	9·3	6·7	293	31	7·0	5·2	288	30	9·9	9·2	251	31	9·2	8·5	250	31	7·8	7·5	255	31	7·7	4·8	215
0·6 a. s. l.	31	8·0	5·7	292	31	6·5	4·7	289	30	15·6	15·3	275	31	15·0	14·2	282	31	9·2	8·9	265	31	9·3	6·0	262
1·0 „	31	12·5	9·6	314	31	8·7	5·2	289	30	11·7	11·5	281	31	12·4	11·9	285	31	9·3	9·1	273	31	8·2	5·9	272
1·5 „	31	10·6	8·2	319	31	8·2	6·8	291	27	8·8	8·1	279	30	11·4	10·6	283	30	8·4	7·9	278	31	7·3	5·7	268
2·0 „	25	8·6	6·1	316	21	8·7	7·2	292	22	7·7	6·1	269	25	10·2	8·8	278	30	7·5	6·8	278	28	6·9	5·9	263
2·5 „	11	6·2	4·0	274	13	9·4	7·6	295	13	7·0	3·8	261	20	8·1	6·5	275	29	6·7	5·7	279	19	5·9	4·9	268
3·0 „	8	5·9	3·3	239	9	9·9	8·0	319	6	4·6	1·5	25	13	8·1	3·7	233	29	7·1	5·5	266	17	6·5	5·5	273
4·0 „	2	4·0	3·6	218	5	6·1	4·3	292	1	3·5	3·5	95	10	4·5	1·6	269	28	6·4	4·1	268	11	6·6	5·5	296
5·0 „	1	9·5	9·5	245	4	7·7	4·8	246					10	6·7	4·1	283	21	6·8	2·9	286	8	9·7	8·5	291
6·0 „					3	8·5	5·6	290					9	8·1	5·8	278	17	8·9	5·4	304	4	8·7	8·0	288
7·5 „					1	6·0	6·0	270					4	16·1	15·1	278	10	10·9	8·7	289	1	7·0	7·0	268
9·0 „					1	6·5	6·5	265					2	13·5	11·8	287	2	5·0	4·9	295	1	8·0	8·0	275

Height in km.	BIKANER				BOGRA												BOMBAY							
	1600				0700				1100				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	n	D	n	V	v	D
Surface.	31	3·3	2·5	255	31	1·9	1·5	108	31	2·0	1·3	116	31	2·0	1·3	121	31	1·8	1·2	241	31	1·5	0·7	200
0·15 a ground.	31	6·3	5·2	258	30	4·9	4·1	123	31	3·9	2·6	119	31	5·1	3·5	130	31	4·2	2·9	255	31	3·3	1·3	217
0·6 a. s. l.	31	5·9	4·8	259	24	5·9	3·3	174	28	4·7	2·3	158	31	5·1	3·8	160	30	4·5	2·4	283	31	4·8	1·6	288
1·0 „	31	6·0	5·3	255	22	5·5	2·9	205	20	5·4	2·8	211	29	5·1	4·0	194	25	4·9	3·2	332	24	7·3	4·4	329
1·5 „	31	6·0	5·3	250	21	5·9	4·0	246	13	7·4	4·3	262	28	6·5	5·2	234	15	6·6	5·7	335	22	8·0	7·2	340
2·0 „	29	6·5	5·8	250	18	6·9	5·5	259	7	6·9	6·2	263	20	7·9	7·1	268	8	7·9	5·5	314	17	6·5	5·2	334
2·5 „	27	6·7	5·9	252	16	10·2	8·7	277	4	9·0	9·0	259	20	9·1	8·4	272	3	7·2	5·2	286	12	5·2	0·9	337
3·0 „	27	7·6	6·6	253	13	9·9	8·7	284	2	8·5	8·3	265	19	10·4	9·5	282					10	4·6	0·7	130
4·0 „	20	6·1	4·6	260	7	11·1	8·1	301					15	11·6	9·8	293					8	4·1	1·7	91
5·0 „	17	5·8	3·6	275	4	7·1	3·2	77					10	9·9	5·6	283					3	7·2	2·2	208
6·0 „	15	6·2	4·5	294	2	8·5	3·5	16					7	12·8	8·8	287					1	10·0	10·0	10
7·5 „	4	8·0	5·9	327	1	8·5	8·5	240					4	9·1	7·0	270								
9·0 „													2	17·5	17·5	285								

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	BOMBAY 1600				CALCUTTA 0100				CALCUTTA 0700				CALCUTTA 1100				CALCUTTA 1600				CHHOR 0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	4·9	4·3	274	31	3·5	3·0	170	31	3·1	2·8	188	31	4·3	4·0	194	31	4·1	3·6	183	31	3·2	3·1	218
0·15 a. ground	31	5·3	4·5	269	31	10·5	9·2	175	31	6·6	6·0	192	30	6·8	6·5	196	31	7·5	7·2	187	31	8·6	8·1	221
0·6 a. s l.	31	5·5	3·7	306	30	12·7	11·7	202	27	9·4	8·9	211	30	7·2	7·0	201	30	7·7	7·3	193	27	10·2	8·5	269
1·0 „	30	6·4	5·4	330	28	11·0	9·7	212	18	6·9	6·5	223	27	7·0	6·6	217	28	6·5	6·0	210	27	8·6	6·9	277
1·5 „	28	6·3	5·3	340	25	8·9	6·1	258	18	5·2	4·3	239	20	6·5	5·8	231	24	5·6	4·7	253	25	7·7	5·9	271
2·0 „	26	6·2	4·4	329	19	8·3	5·9	288	18	5·4	4·4	267	14	5·5	5·1	254	24	6·4	5·8	283	23	6·4	4·6	271
2·5 „	23	5·9	2·1	311	16	8·8	7·4	295	16	5·5	4·8	284	12	6·9	6·5	275	22	7·7	7·3	296	21	5·8	3·6	276
3·0 „	23	5·7	1·6	215	12	10·6	9·0	303	16	7·1	6·9	302	10	7·1	6·9	277	22	9·5	8·7	296	19	6·4	3·3	296
4·0 „	19	5·2	1·8	212	2	13·3	10·3	292	8	11·1	10·3	319	1	12·0	12·0	310	20	11·2	10·6	297	12	4·8	0·9	299
5·0 „	18	4·8	2·8	285					5	6·2	6·2	296					13	9·6	8·5	292	10	4·6	2·5	280
6·0 „	12	5·6	4·2	293					1	5·0	5·0	305					13	10·7	10·1	286	6	6·9	5·0	254
7·5 „	6	7·8	6·9	308													8	12·0	10·3	265	4	9·6	8·7	265
9·0 „	3	8·7	8·4	330													5	17·3	15·8	247				

Height in km.	CHHOR 1600				CHITTAGONG 0100				CHITTAGONG 0700				CHITTAGONG 1100				CHITTAGONG 1600				COCHIN 0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	4·9	4·4	243	31	1·1	0·9	149	31	1·1	1·0	146	31	2·4	2·0	212	31	2·5	1·7	235	31	1·7	0·7	333
0·15 a ground.	29	6·8	6·2	236	29	4·6	3·4	164	31	5·5	5·1	154	29	5·5	4·7	202	30	6·3	4·1	228	26	2·7	1·8	299
0·6 a. s. l.	29	6·5	5·8	239	28	6·5	5·7	198	29	6·9	6·2	183	26	5·7	5·2	199	30	6·1	4·2	223	26	4·1	3·5	296
1·0 „	29	7·2	6·5	240	26	6·1	5·5	211	27	5·9	5·1	190	17	5·0	4·0	200	29	5·5	3·8	229	25	4·0	3·6	296
1·5 „	26	6·8	6·3	243	22	5·6	4·3	232	26	5·0	3·7	230	12	4·0	2·6	235	26	4·9	3·5	240	23	3·1	2·2	288
2·0 „	24	7·0	6·2	244	21	6·4	4·7	258	23	6·0	4·3	260	12	4·3	3·2	263	25	6·3	5·0	259	20	3·5	1·3	61
2·5 „	20	6·0	4·5	250	15	6·4	5·3	275	22	6·2	4·8	282	7	4·6	3·2	274	24	6·7	5·8	278	15	5·2	4·1	53
3·0 „	19	5·9	4·1	251	12	7·8	7·2	295	21	7·2	6·5	292	6	5·2	3·7	281	24	7·0	6·4	293	14	6·4	5·6	63
4·0 „	16	5·4	3·2	265	4	8·5	7·8	300	18	9·6	8·2	300					21	8·5	7·1	301	3	4·2	3·6	89
5·0 „	12	6·1	4·9	291					11	9·5	7·1	285					19	8·9	7·4	289	2	6·0	5·4	271
6·0 „	7	10·3	8·6	272					8	5·4	3·6	272					16	10·4	9·1	273	1	5·5	5·5	295
7·5 „	2	10·5	10·5	294					5	9·4	6·0	289					7	11·2	10·7	267				
9·0 „									3	17·0	15·7	269					5	12·4	11·0	254				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	COCHIN								COOCH BEHAR												CUTTACK			
	0700				1600				0700				1100				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·5	0·9	61	31	5·0	3·5	281	31	1·9	1·2	79	31	2·1	1·2	111	31	1·3	0·7	109	31	3·1	3·0	190
0·15 a ground.	31	2·4	1·4	85	31	6·3	5·9	288	29	4·8	4·4	87	26	4·5	3·8	111	29	3·0	1·5	117	30	7·5	7·5	197
0·6 a. s. l.	31	4·0	3·3	302	31	6·2	5·9	292	27	6·1	4·7	101	26	5·2	4·4	106	29	3·9	2·0	143	23	9·2	8·9	223
1·0 „	31	4·1	3·3	293	31	4·7	4·4	295	24	5·1	3·7	101	20	4·6	2·5	107	28	4·3	2·1	178	23	7·3	6·9	226
1·5 „	29	3·1	1·9	302	31	3·1	2·0	348	21	4·8	1·0	110	14	4·2	1·7	138	26	5·0	2·3	226	22	4·5	3·6	257
2·0 „	26	3·7	1·1	329	31	4·5	3·0	27	17	5·1	1·3	251	8	3·4	1·0	161	22	6·2	4·4	261	18	4·5	3·2	290
2·5 „	22	7·0	5·3	77	25	6·3	5·0	59	15	5·8	2·3	264	3	2·8	0·8	298	20	6·9	4·6	257	15	5·4	4·4	313
3·0 „	21	9·1	8·3	72	23	8·7	8·1	66	14	6·6	3·4	274	1	3·0	3·0	70	16	7·1	5·5	278	11	5·3	4·7	323
4·0 „	19	10·5	9·4	73	21	8·5	8·0	67	8	6·5	4·8	297					14	7·3	4·8	287	1	4·0	4·0	350
5·0 „	16	6·9	5·9	67	16	5·0	3·7	72	4	4·9	1·7	292					8	7·6	3·9	294				
6·0 „	13	5·8	4·3	88	13	5·0	3·9	102	3	7·2	1·3	117					5	8·2	4·1	280				
7·5 „	6	6·3	3·0	139	8	4·9	3·9	136	2	9·7	3·2	217					2	9·7	6·3	248				
9·0 „	2	7·0	3·7	210	4	8·3	5·0	196									1	26·0	26·0	260				

Height in km.	CUTTACK												DALBANDIN											
	0700				1100				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n		v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·6	2·5	204	31	3·0	2·8	208	31	4·5	4·3	193	31	2·8	1·2	294	31	0·9	0·2	289	31	3·4	1·6	293
0·15 a ground.	31	6·9	6·6	200	31	6·9	6·5	205	30	8·5	8·3	192	26	4·9	2·6	353	31	3·8	1·0	352	30	5·5	1·8	284
0·6 a. s. l.	27	8·0	6·5	222	31	7·2	6·7	215	30	6·5	5·8	204												
1·0 „	23	7·4	5·5	252	29	6·5	5·5	247	30	4·3	3·3	247	26	4·9	2·6	353	31	3·8	1·0	352	30	5·5	1·8	284
1·5 „	21	6·9	5·9	267	25	7·3	6·4	279	29	4·7	3·9	287	26	5·8	3·9	333	31	6·6	4·0	351	30	5·9	2·5	300
2·0 „	21	5·8	5·2	265	14	6·6	5·6	275	27	5·5	4·6	304	26	6·6	4·3	331	31	7·9	2·0	325	29	5·3	2·4	313
2·5 „	20	4·7	4·1	276	10	4·6	4·1	272	27	5·9	5·3	314	25	9·5	5·8	324	31	10·2	6·3	330	26	4·8	3·0	288
3·0 „	19	4·5	3·7	309	8	4·1	3·6	299	27	5·9	5·5	319	15	8·8	3·7	327	26	9·2	7·3	313	21	5·0	3·4	316
4·0 „	13	4·9	2·9	346					26	6·3	5·9	315	5	13·3	12·5	287	19	10·6	9·0	292	15	6·6	5·3	314
5·0 „	11	5·2	4·2	315					22	7·6	6·9	297					11	9·4	7·3	281	11	11·5	7·5	302
6·0 „	6	5·9	5·7	278					21	8·0	7·5	278					9	9·8	8·4	277	8	8·8	5·9	290
7·5 „	2	8·7	8·7	222					15	9·6	8·7	266					2	11·7	11·7	282	6	15·2	14·5	289
9·0 „									11	11·1	9·4	241					1	8·0	8·0	280	2	14·0	13·9	250

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	DEOLALI												FORT SANDEMAN								GADAG			
	0700												0700				1600				0700			
	n	V	v	D									n	V	v	D	n	V	v	D	n	V	v	D
Surface.	25	3·5	3·0	243									31	1·6	1·2	234	31	2·3	1·7	256	31	5·5	5·1	245
0·15 a ground.	25	6·6	5·8	245									31	3·3	2·5	230	28	3·8	3·0	250	31	7·9	7·4	246
0·6 a. s. l.	25	4·2	3·8	244																				
1·0 „	25	8·1	6·8	307																	31	8·1	6·5	307
1·5 „	25	8·7	7·9	333									31	2·8	2·1	231	28	3·5	2·6	254	30	6·5	5·3	347
2·0 „	25	7·4	5·0	336									31	3·2	2·0	269	28	3·8	3·1	246	30	5·5	3·6	355
2·5 „	25	6·4	2·1	341									31	4·9	3·5	287	28	4·0	3·2	249	29	5·5	3·1	21
3·0 „	24	6·0	0·5	52									31	6·1	4·6	303	28	4·9	3·9	249	27	5·5	3·4	50
4·0 „	14	5·4	3·4	164									28	5·9	4·7	278	21	7·5	6·1	242	22	7·3	6·8	73
5·0 „	10	6·9	4·2	299									23	7·5	5·8	274	11	8·5	6·3	255	17	4·8	3·3	59
6·0 „	9	8·0	6·9	318									15	7·8	6·1	287	7	7·9	6·7	277	14	3·7	2·2	43
7·5 „	2	6·3	6·3	294									8	9·7	6·8	271	5	8·6	7·5	285	11	2·7	0·7	86
9·0 „	2	8·5	6·4	289									2	9·3	3·8	76	2	8·7	8·4	254	4	4·6	0·9	120

Height in km.	GADAG				GAYA																GOPALPUR			
	1600				0100				0700				1100				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	3·2	1·8	303	31	3·0	2·2	77	31	2·6	1·7	93	31	2·3	0·4	56	31	3·2	1·7	334	31	8·9	8·8	207
0·15 a ground.	31	4·3	2·2	301	31	7·0	4·6	100	31	5·8	3·4	120	31	3·8	0·5	105	31	5·7	3·1	339	31	12·2	11·8	213
0·6 a. s. l.					31	6·5	3·7	122	31	6·8	3·6	169	31	4·2	0·5	150	31	6·2	3·6	330	31	7·5	7·1	228
1·0 „	31	4·9	2·5	309	31	5·1	1·3	180	31	5·8	2·3	208	31	4·1	1·1	255	31	5·1	3·4	321	31	5·5	4·9	242
1·5 „	31	5·2	3·1	326	31	5·8	2·6	280	31	5·9	2·9	273	29	4·9	2·9	270	30	4·7	3·8	300	31	4·9	4·1	277
2·0 „	30	4·7	3·1	336	25	7·1	6·2	296	31	7·0	5·4	295	27	6·2	4·1	279	30	6·3	5·7	287	28	4·1	2·2	286
2·5 „	27	4·1	1·9	15	18	8·1	6·9	302	30	9·1	7·7	297	18	8·4	6·1	289	30	8·5	7·7	280	26	3·3	2·2	319
3·0 „	24	5·0	3·2	38	15	8·1	6·5	306	27	10·2	9·1	297	14	10·3	8·3	285	27	10·7	10·0	280	24	3·8	2·7	347
4·0 „	20	5·7	4·2	68	1	13·0	13·0	265	15	11·1	9·7	303	1	2·5	2·5	300	25	12·5	11·0	279	17	4·9	4·2	6
5·0 „	16	6·7	5·1	45					5	9·4	8·3	310					19	5·2	13·3	278		4·6	3·9	313
6·0 „	15	6·3	3·8	40					4	8·3	5·5	301					10	10·9	8·0	278	7	3·1	1·9	257
7·5 „	9	4·3	2·1	351					2	5·7	5·7	244					6	9·7	6·1	273				
9·0 „	2	6·5	5·0	311					2	10·7	3·7	274					5	12·8	11·8	251				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	GOPALPUR				GORAKHPUR								HYDERABAD											
	1600				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	13·3	13·0	199	31	2·2	1·6	84	31	1·8	0·4	192	31	3·4	2·0	177	31	3·1	0·9	266	31	2·7	0·8	4
0·15 a ground.	31	16·1	16·1	204	31	7·9	6·1	88	31	4·8	1·1	156	31	6·8	4·5	178	31	6·1	2·9	261	31	3·8	0·8	1
0·6 a. s. l.	31	7·8	7·1	217	31	9·8	7·6	112	31	5·0	1·0	151	31	4·9	3·3	190	31	4·5	1·5	260	31	3·8	0·5	1
1·0 ,,	31	4·7	4·0	233	31	7·9	4·7	115	31	5·1	1·0	179	31	8·7	5·7	176	31	9·0	4·3	294	31	3·9	1·6	
1·5 ,,	30	4·1	4·1	282	31	6·6	1·2	252	31	5·4	2·0	258	31	6·9	3·9	190	31	8·7	3·8	312	31	4·5	1·8	
2·0 ,,	30	4·3	3·4	303	29	6·7	3·8	293	29	7·9	5·7	272	31	4·7	1·7	229	31	6·9	2·3	318	31	4·8	1·7	
2·5 ,,	27	4·1	3·4	321	27	9·6	8·1	291	25	9·8	9·4	285	31	4·6	0·7	326	31	5·5	1·7	359	29	4·6	2·3	
3·0 ,,	24	4·7	3·5	330	25	11·8	10·7	292	24	12·1	11·7	289	30	4·9	3·1	356	31	5·1	2·6	42	28	4·7	2·8	35
4·0 ,,	17	5·5	3·9	342	12	12·8	12·2	298	22	13·9	12·7	288	4	5·6	5·1	13	31	7·3	5·5	38	16	4·9	2·6	
5·0 ,,	10	5·9	3·7	305	6	15·4	14·2	301	17	13·9	12·7	288					30	7·6	5·5	47	6	4·6	1·7	32
6·0 ,,	5	5·5	4·5	265	2	8·3	5·5	242	13	12·3	10·6	285					28	8·4	4·7	27	6	4·7	0·5	32
7·5 ,,	2	6·0	6·0	245					3	9·0	7·6	278					12	6·1	2·2	252	4	5·0	3·9	34
9·0 ,,																	7	3·8	0·5	215	3	3·5	2·8	28

Height in km.	JACOBABAD												JAMSHEDPUR											
	0100				0700				1600				0700				1100				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	3·6	2·0	233	31	2·7	0·5	31	31	2·3	1·1	268	31	1·5	0·2	357	31	2·1	1·0	223	31	2·7	0·8	13
0·15 a ground.	31	7·5	3·7	243	31	6·7	1·8	5	31	3·9	1·5	252	31	3·2	0·6	296	31	2·9	1·2	226	31	4·5	1·1	14
0·6 a. s. l.	31	7·9	4·2	263	31	7·3	4·9	334	31	3·8	2·1	264	31	5·2	4·3	227	31	3·2	2·2	227	31	3·9	0·6	22
1·0 ,,	31	7·4	4·4	272	31	6·9	4·9	327	31	3·7	2·2	269	30	7·4	5·8	229	31	4·8	3·7	247	31	3·9	1·6	25
1·5 ,,	26	5·8	3·8	262	30	6·0	4·0	310	30	3·8	2·5	273	29	7·4	5·8	255	31	5·0	4·0	264	31	4·1	2·7	28
2·0 ,,	15	5·0	4·0	264	29	6·0	4·0	297	30	4·6	3·3	273	29	7·0	6·0	271	26	4·9	4·3	272	31	5·4	1·4	29
2·5 ,,					28	6·1	4·1	289	30	5·3	3·9	277	27	6·6	5·5	288	17	5·9	5·1	286	30	6·6	5·8	28
3·0 ,,					21	6·2	2·8	276	28	5·9	4·4	281	22	7·8	7·1	296	12	6·3	5·8	290	28	8·5	7·7	29
4·0 ,,					14	4·5	1·3	274	25	7·4	5·5	282	12	9·0	8·6	301					18	9·5	9·0	29
5·0 ,,					8	6·1	1·1	292	22	9·2	6·5	290	7	10·0	9·1	293					15	11·4	10·3	29
6·0 ,,					5	7·5	5·5	242	18	10·5	7·4	289	4	8·6	5·0	264					12	11·2	10·1	28
7·5 ,,									3	14·9	10·3	292									3	17·0	17·0	27
9·0 ,,									1	19·5	19·5	350												

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	JHARSUGUDA																			
	0100				0700				1600											
	n	V	v	D	n	V	v	D	n	V	v	D								
Surface.	31	2·6	1·1	140	31	1·5	1·0	143	31	1·6	1·2	284								
0·15 a ground.	31	7·5	3·9	175	31	5·0	3·4	172	31	3·4	2·3	276								
0·6 a. s. l.	31	8·5	5·0	200	31	6·1	4·5	227	31	3·6	2·5	290								
1·0 „	31	8·6	5·7	213	31	7·9	5·9	251	31	3·8	3·0	272								
1·5 „	31	6·2	4·0	258	31	6·9	4·8	272	31	4·5	3·8	276								
2·0 „	30	5·9	4·1	286	31	6·7	5·5	301	31	4·9	4·3	278								
2·5 „	24	6·5	5·9	303	31	7·1	6·2	307	31	5·3	4·7	285								
3·0 „	10	7·7	7·2	295	31	7·3	6·9	307	31	6·1	5·6	295								
4·0 „	2	6·5	6·5	282	29	8·5	7·8	309	29	7·5	6·5	300								
5·0 „					25	8·8	7·5	304	24	8·1	6·9	292								
6·0 „					18	9·1	7·5	293	23	10·0	8·9	277								
7·5 „					11	12·1	11·5	274	17	14·9	13·9	267								
9·0 „					3	11·0	10·9	286	11	18·4	16·2	245								

Height in km.	JODHPUR												JUBBULPORE			
	0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	4·0	3·0	253	31	3·2	2·4	245	31	5·3	4·8	250	31	2·5	1·6	242
0·15 a ground	31	12·6	9·5	245	31	8·5	7·3	227	31	8·4	7·6	242	29	7·4	4·5	236
0·6 a. s. l.	31	14·1	11·1	258	31	10·2	8·2	246	31	7·7	6·7	244	29	8·1	5·2	245
1·0 „	29	12·9	11·0	255	31	10·3	7·9	252	31	8·1	7·5	239	29	9·5	6·0	290
1·5 „	19	9·5	8·0	271	30	9·8	7·9	252	29	8·9	8·2	241	29	8·4	6·0	308
2·0 „	10	7·4	6·8	267	23	8·3	6·3	262	26	8·9	8·0	248	29	6·8	5·1	311
2·5 „	4	6·1	6·1	278	20	9·2	7·3	262	21	8·9	7·8	243	29	7·6	5·3	312
3·0 „	2	5·7	5·7	242	11	7·6	5·0	236	17	9·9	8·5	231	29	8·1	5·5	306
4·0 „					5	6·9	5·3	281	12	7·5	5·7	239	12	8·6	6·7	325
5·0 „					1	7·0	7·0	310	9	8·3	7·0	277	9	12·3	9·3	329
6·0 „									6	11·9	9·8	278	6	15·2	8·6	305
7·5 „									2	9·7	9·7	293	2	14·0	12·0	17
9·0 „													1	11·5	11·5	300

Table A — Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	JUBBULPORE				KARACHI											
	1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·7	2·0	290	31	4·5	4·3	259	31	3·8	3·6	255	31	6·9	6·7	244
0·15 a ground.	30	6·0	3·6	295	30	7·9	7·4	266	31	7·3	6·9	267	31	7·8	7·5	249
0·6 a. s. l.	30	6·2	4·2	294	27	15·4	15·3	275	30	10·6	10·0	291	31	9·9	9·6	272
1·0 „	30	6·0	4·5	293	26	15·2	14·9	276	28	11·2	10·5	299	31	8·9	8·5	281
1·5 „	30	6·4	5·0	299	25	14·9	13·9	272	28	10·6	9·7	294	31	8·1	7·4	288
2·0 „	30	7·4	5·9	300	15	11·6	10·4	273	25	9·4	8·3	294	31	8·2	7·1	293
2·5 „	30	8·1	6·9	296	9	9·1	7·8	268	16	8·8	6·6	299	29	7·6	6·5	303
3·0 „	29	9·4	8·1	295	7	11·8	9·4	271	11	8·4	6·1	280	29	8·4	6·9	305
4·0 „	24	12·0	10·2	297					6	4·5	2·1	285	24	7·9	5·5	293
5·0	12	13·2	10·4	281					2	11·7	6·3	272	16	6·4	4·4	300
6·0 „	7	12·3	11·4	298					2	15·3	12·9	254	15	7·8	5·6	284
7·5 „	4	12·9	11·9	291									5	12·7	9·0	271
9·0 „	4	17·7	17·7	280									1	16·5	16·5	315

Height in km.	MADHO SAGAR (Gwalior)										
	0100				0700				1600		
	n	V	v	D	n	V	V	D	n	V	v
Surface.	3	0·3	0·3	270	31	2·0	1·5	245	31	4·3	3·0
0·15 a ground.	3	7·2	7·0	265	31	6·6	4·8	265	31	7·8	6·2
0·6 a. s. l.	3	9·5	9·3	279	31	9·8	6·4	287	31	6·9	5·5
1·0 „	3	9·0	8·9	279	31	10·7	8·2	299	31	7·0	5·7
1·5 „	3	7·2	7·1	269	28	9·4	7·3	311	31	6·7	5·6
2·0 „	2	5·7	4·9	266	28	8·6	7·6	310	28	6·7	5·6
2·5 „	2	7·0	6·2	280	26	8·8	8·1	307	27	7·5	6·2
3·0 „	1	7·5	7·5	315	18	8·6	7·9	312	27	8·4	6·9
4·0 „					17	10·2	9·0	304	21	9·6	7·9
5·0 „					9	7·3	5·1	293	15	11·3	9·4
6·0 „					6	8·2	4·5	296	12	13·3	12·0
7·5 „									10	15·9	13·8
9·0 „									3	20·5	20·4

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	MADRAS												MALEGAON											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	4·2	3·9	187	31	3·6	2·9	201	31	5·7	5·0	155	31	4·3	4·2	273	31	2·8	2·7	270	31	3·9	3·2	314
0·15 a ground.	31	8·2	7·7	190	31	7·3	6·4	202	31	7·8	7·1	159	31	9·1	8·7	290	31	6·8	6·5	296	31	6·6	5·4	314
0·6 a. s. l.	31	9·7	9·2	198	31	10·1	8·6	215	31	5·5	4·4	201	31	9·1	8·7	290	31	6·8	6·5	296	31	6·6	5·4	314
1·0 ,,	31	6·6	6·1	207	31	8·3	6·8	227	31	4·7	3·1	247	31	11·1	10·8	314	31	8·7	8·4	320	31	6·6	5·4	305
1·5 ,,	31	4·1	2·0	209	31	5·0	2·2	221	31	4·9	3·3	280	31	9·7	9·1	329	31	9·5	8·6	332	31	6·1	4·8	308
2·0 ,,	30	4·1	2·2	38	31	4·6	2·2	58	31	5·1	2·7	26	29	7·0	5·6	333	31	7·8	6·1	334	31	5·6	4·3	308
2·5 ,,	24	5·8	4·5	44	31	6·3	5·4	49	31	5·8	4·9	53	26	10·0	1·7	320	30	7·1	3·0	331	31	5·1	3·6	305
3·0 ,,	14	5·8	5·3	62	30	7·9	7·4	52	31	6·6	5·7	58	23	7·0	1·2	277	30	7·7	1·6	283	31	5·2	2·8	291
4·0 ,,	3	7·3	7·0	67	27	8·6	7·9	54	30	6·7	5·8	59	10	7·9	3·6	283	28	7·3	2·7	245	27	6·6	1·6	262
5·0 ,,					22	6·6	5·3	81	28	5·4	2·9	92					20	5·9	2·5	300	23	6·9	2·8	278
6·0 ,,					22	4·8	2·8	66	29	4·9	1·8	104					20	7·9	5·4	306	21	8·1	2·7	288
7·5 ,,					4	7·5	2·3	102	21	6·5	2·8	155					15	9·9	7·9	308	15	8·6	3·5	273
9·0 ,,					1	6·0	6·0	150	16	6·9	2·5	193					11	12·2	9·7	295	12	8·1	5·5	259

Height in km.	MANGALORE												MASULIPATAM											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·9	2·1	314	31	1·9	1·2	53	31	4·8	4·5	282	31	2·6	2·4	184	31	1·9	1·7	194	31	4·4	4·1	177
0·15 a. ground	30	3·6	2·9	309	31	2·7	1·9	14	31	6·1	5·9	285	31	8·7	8·2	187	31	6·9	6·3	199	31	6·2	6·1	175
0·6 a.s. l.	30	3·6	2·9	297	31	3·6	3·3	311	31	5·8	5·1	274	29	9·4	8·7	196	30	10·3	9·5	203	31	4·8	4·0	204
1·0 ,,	28	3·6	2·3	266	30	4·0	3·7	294	31	3·4	2·1	304	28	5·4	4·0	200	29	8·7	7·4	208	31	4·3	2·9	232
1·5 ,,	20	4·1	2·4	237	24	4·2	2·6	286	29	3·0	1·8	352	28	3·9	1·3	212	28	5·1	3·2	193	31	4·1	1·8	260
2·0 ,,	10	3·1	0·9	303	20	3·9	1·0	345	28	4·5	3·2	22	28	3·7	0·2	21	27	4·4	1·1	160	31	4·1	1·5	334
2·5 ,,	2	3·7	0·8	59	19	4·5	3·5	74	27	5·5	4·6	51	26	4·2	1·5	57	24	4·9	2·1	53	31	4·9	2·8	34
3·0 ,,	2	3·5	3·3	49	17	7·3	7·0	74	26	6·6	5·9	68	17	4·8	3·0	51	23	5·9	4·1	39	30	5·3	4·2	46
4·0 ,,					14	9·8	9·6	67	23	8·0	7·4	85	1	8·5	8·5	110	19	6·5	6·0	34	31	5·8	4·8	53
5·0 ,,					8	7·4	6·1	65	21	6·1	4·3	70					15	5·0	3·7	47	31	4·7	1·3	40
6·0 ,,					5	4·1	1·2	297	21	4·7	2·9	66					12	4·1	2·0	53	31	4·5	0·5	286
7·5 ,,					4	6·7	5·3	20	11	5·4	2·6	52					8	4·7	0·4	211	26	5·1	2·9	261
9·0 ,,					2	8·3	6·9	26	5	7·1	3·0	36					7	5·6	5·0	255	18	6·2	4·2	216

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	NAGERCOIL 0100			
	n	V	v	
Surface.	31	4·3	3·9	29
0·15 a ground.	31	8·4	8·2	29
0·6 a. s. l.	31	10·2	10·6	29
1·0 ,,	31	7·9	7·7	29
1·5 ,,	31	5·6	4·7	29
2·0 ,,	30	4·3	1·5	
2·5 ,,	29	5·1	3·8	
3·0	29	5·5	4·6	
4·0 ,,	13	4·9	3·7	
5·0 ,,	6	6·3	1·7	11
6·0 ,,	3	4·5	2·9	
7·5 ,,				
9·0 ,,				

Height in km.	NAGERCOIL 0700				NAGERCOIL 1600				NAGPUR 0100				NAGPUR 0700				NAGPUR 1600				NEW DELHI 0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface.	31	2·9	2·6	284	31	6·8	6·3	256	31	2·1	0·9	281	31	2·0	1·1	290	31	2·1	0·5	324	31	1·1	0·3	
0·15 a ground.	31	6·9	6·6	294	31	9·3	9·1	262	30	6·9	3·0	280	31	6·6	3·7	287	31	4·6	1·7	283	31	5·7	1·1	
0·6 a. s. l.	31	9·0	8·8	297	31	8·4	7·9	281	30	7·5	3·2	278	31	8·4	4·8	300	31	4·6	1·7	277	31	5·9	2·0	
1·0 ,,	31	7·8	7·6	292	31	6·7	6·3	296	30	8·1	3·3	279	31	8·9	5·7	316	31	4·8	1·9	285	31	5·8	3·9	
1·5 ,,	31	5·5	4·4	295	30	5·1	4·3	322	30	6·3	3·4	299	31	6·7	4·7	306	31	4·9	2·5	288	30	6·5	5·7	
2·0 ,,	31	3·6	1·2	347	30	4·9	3·1	345	19	5·0	4·0	305	31	4·5	2·8	314	31	5·1	2·5	290	20	6·7	6·1	
2·5 ,,	31	4·7	3·0	54	30	5·1	3·4	37	4	5·6	3·3	252	31	4·2	2·4	335	28	5·2	2·7	297	5	9·6	9·2	
3·0 ,,	31	5·9	5·1	63	30	5·7	4·5	53					27	5·0	2·3	334	27	5·6	2·6	308				
4·0 ,,	31	6·0	5·1	72	30	6·1	5·4	70					21	6·4	3·0	341	20	5·9	3·8	314				
5·0 ,,	30	4·6	2·2	65	30	5·7	2·9	70					13	8·8	3·9	331	13	7·1	5·8	312				
6·0 ,,	30	6·0	2·3	85	24	6·4	1·4	70					5	10·4	4·8	327	11	8·6	5·6	320				
7·5 ,,	24	5·5	1·7	130	22	6·7	2·1	90									5	10·9	6·1	302				
9·0 ,,	21	6·1	1·2	84	20	6·1	1·3	98									1	11·0	11·0	40				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	NEW DELHI																POONA			
	0700				1600												0100			
	n	V	v	D	n	V	v	D									n	V	v	D
Surface.	31	2·1	1·5	257	31	4·7	3·0	320									31	1·7	1·7	263
0·15 a ground.	31	4·9	2·7	261	31	6·2	3·5	324									31	6·0	5·8	265
0·6 a. s. l.	31	6·1	4·2	287	31	6·5	4·0	322									31	4·3	4·1	259
1·0 „	30	6·4	5·4	293	30	7·2	5·3	317									31	7·7	7·2	294
1·5 „	29	6·1	5·2	297	28	6·8	5·3	309									31	8·0	7·4	323
2·0 „	26	6·1	5·7	300	27	6·7	5·1	295									31	6·3	4·5	344
2·5 „	22	7·2	5·9	293	25	7·3	6·2	283									30	6·0	2·3	30
3·0 „	16	7·1	6·2	292	24	8·4	6·9	279									20	5·9	1·5	90
4·0 „	8	8·9	8·6	294	20	10·1	9·3	287									7	4·4	2·3	241
5·0 „	4	9·5	8·4	296	18	11·4	10·3	293												
6·0 „	1	9·0	9·0	275	14	12·9	11·0	298												
7·5 „					6	15·6	14·5	279												
9·0 „					2	23·0	23·0	271												

Height in km.	POONA								PORT BLAIR								QUETTA							
	0700				1600				0600				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	0·4	0·4	277	31	2·7	2·5	80	31	1·9	1·7	258	31	4·2	3·3	269	31	3·3	2·1	227	31	1·8	1·3	207
0·15 a ground.	31	8·1	3·7	261	31	5·6	4·8	284	30	4·9	3·8	254	30	5·9	4·3	262	31	4·7	3·1	263	31	3·2	1·6	231
0·6 a. s. l.	31	2·4	2·0	259	31	3·6	3·2	283	30	6·2	4·4	267	31	6·3	4·5	266								
1·0 „	31	7·2	6·0	310	31	6·4	5·5	284	30	5·4	3·2	264	30	5·3	3·2	270								
1·5 „	31	8·4	6·9	341	31	5·6	4·9	295	29	4·3	2·3	270	28	4·7	2·1	290								
2·0 „	31	6·4	4·3	355	31	5·1	3·7	313	27	3·9	0·9	313	19	4·1	1·5	319	31	5·7	4·2	286	31	3·9	2·4	270
2·5 „	31	5·6	1·9	35	30	5·0	1·9	325	25	3·9	1·2	17	16	4·2	1·1	311	30	7·2	6·0	296	31	6·6	5·2	294
3·0 „	31	5·7	1·5	95	29	5·6	0·3	52	23	4·4	2·4	48	13	4·7	1·3	323	27	6·9	6·2	297	30	8·7	7·3	297
4·0 „	28	5·9	2·3	141	26	6·0	1·7	80	19	4·8	1·9	55	10	5·2	2·6	334	2	7·0	7·0	273	26	9·4	7·7	297
5·0 „	21	6·7	3·1	297	21	6·7	2·0	8	13	4·3	1·8	81	5	3·6	1·3	63					15	7·3	5·6	309
6·0 „	18	7·7	6·6	321	17	6·7	4·0	295	10	5·8	2·3	74	4	4·9	3·5	27					7	7·0	6·2	306
7·5 „	9	11·5	4·9	280	13	8·4	4·9	311	5	6·4	1·6	30	1	5·0	5·0	90					2	6·0	5·9	261
9·0 „	4	9·1	4·5	324	4	9·3	3·7	296					1	6·0	6·0	95					1	12·0	12·0	265

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	QUETTA				RAIPUR												RAJSAMAND							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	5·1	4·0	287	30	2·7	1·7	234	31	2·8	2·3	245	30	2·5	1·9	293	31	3·5	3·0	270	31	2·3	1·6	27
0·15 a ground.	31	7·0	5·8	280	29	8·7	5·4	232	31	7·5	6·4	249	30	5·6	4·7	283	30	8·1	6·4	249	31	5·8	4·2	25
0·6 a. s. l.					29	9·3	6·0	246	31	10·9	9·3	254	30	5·2	4·5	279								
1·0 ,,					29	7·0	4·6	282	31	10·0	8·3	266	30	5·7	5·0	282	30	9·5	7·8	259	31	8·0	6·6	27
1·5 ,,					25	5·5	3·8	297	31	7·4	6·0	295	30	5·7	5·1	283	29	8·3	7·3	273	31	7·6	6·6	27
2·0 ,,	31	7·1	5·4	284	22	5·1	4·1	303	29	5·8	5·1	311	25	5·8	5·1	284	25	5·8	4·9	281	31	6·0	4·7	27
2·5 ,,	30	6·9	6·1	282	8	5·1	4·5	295	22	4·1	3·3	323	22	5·2	4·0	294	23	4·5	2·4	289	26	4·7	2·4	26
3·0 ,,	30	6·5	5·8	281	6	5·3	5·1	285	20	4·9	3·8	320	13	5·1	3·8	304	17	5·0	1·7	311	23	4·3	1·6	25
4·0 ,,	23	6·7	5·6	293					6	7·3	5·8	347	5	4·3	3·2	319	5	4·6	2·1	258	18	4·7	0·8	27
5·0 ,,	22	8·0	6·4	300					1	4·0	4·0	41	4	5·5	4·6	312					15	6·3	3·3	30
6·0 ,,	15	8·4	7·6	294									3	7·0	6·2	279					8	8·4	5·6	29
7·5 ,,	11	12·3	11·4	292									1	16·0	16·0	290					2	9·5	8·5	32
9·0 ,,	2	16·7	16·2	277																	1	7·0	7·0	28

Height in km.	RAJSAMAND				SAHARSA												TEZPUR							
	1600				0700				1100				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	4·0	3·3	294	31	2·5	2·1	77	31	2·8	2·4	83	31	2·9	1·1	62	31	0·9	0·6	79	31	1·0	0·8	8
0·15 a ground	30	6·5	4·5	283	29	8·2	6·9	91	30	6·5	5·8	88	31	5·0	2·4	68	23	4·9	2·3	71	27	3·8	2·5	8
0·6 a. s. l.					28	10·1	7·0	95	30	5·6	4·5	94	31	5·0	1·2	61	23	5·2	1·6	112	25	4·8	2·3	10
1·0 ,,	30	5·7	4·1	273	25	7·8	4·1	117	25	6·5	3·1	116	29	4·7	0·9	217	22	4·2	0·9	205	22	4·3	0·8	16
1·5 ,,	30	5·6	4·5	270	24	6·0	1·7	205	19	6·4	3·9	251	26	6·9	5·0	268	19	3·6	1·3	212	21	5·1	2·3	28
2·0 ,,	31	5·7	5·0	272	23	7·0	3·3	272	14	6·3	4·3	260	24	9·5	9·1	280	17	4·8	2·2	269	16	5·3	2·2	26
2·5 ,,	31	5·9	5·2	268	19	7·7	4·8	283	7	9·4	9·0	282	21	12·2	11·9	281	10	4·2	2·7	260	11	4·5	1·8	26
3·0 ,,	31	6·4	5·8	265	15	9·8	8·7	286	6	11·5	11·5	295	19	13·8	13·6	285	6	3·8	2·3	235	10	4·9	1·9	27
4·0 ,,	27	6·4	4·4	252	7	10·5	10·0	298					11	15·7	15·4	285					7	4·8	2·3	29
5·0 ,,	25	7·3	3·3	277	4	9·9	8·1	304					5	12·0	11·1	285					7	6·1	1·9	29
6·0 ,,	24	8·1	4·8	305	2	18·5	9·3	71					3	13·5	11·5	271					6	9·2	5·6	27
7·5 ,,	17	13·0	9·9	297																	2	4·0	3·9	31
9·0 ,,	7	14·6	11·6	281																	1	12·5	12·5	30

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	TEZPUR								TRICHINOPOLY												TRIVANDRUM			
	1100				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·0	0·6	102	31	0·9	0·3	159	31	3·5	2·5	221	31	3·3	2·4	237	31	3·3	2·1	201	31	1·5	1·5	357
0·15 a ground.	27	3·8	1·8	113	31	3·9	1·2	196	31	5·8	5·0	208	31	5·2	4·1	240	31	3·5	2·1	201	31	3·8	3·5	354
0·6 a. s. l.	27	3·9	1·9	120	31	3·7	1·2	225	31	6·8	6·0	215	31	5·9	5·0	255	31	3·6	2·4	203	31	5·5	5·2	316
1·0 „	27	4·2	1·5	193	31	4·5	2·3	239	31	5·3	4·0	235	31	5·3	4·7	249	31	3·5	2·2	226	31	5·3	5·0	310
1·5 „	26	4·9	1·9	235	29	5·6	4·9	243	31	3·5	1·9	265	30	3·9	2·1	244	31	3·2	1·2	246	31	4·7	3·8	308
2·0 „	22	6·2	4·5	246	27	7·2	6·8	247	30	4·0	2·8	32	29	4·3	3·4	43	30	3·5	0·9	6	31	4·4	2·0	351
2·5 „	18	5·9	4·8	258	25	8·6	7·4	251	28	6·7	6·2	49	29	7·0	6·5	49	29	5·1	3·8	38	28	5·1	3·1	55
3·0 „	16	5·4	5·7	266	24	9·1	7·8	257	27	6·8	6·4	53	29	7·9	7·8	58	27	6·5	5·6	53	26	6·3	5·3	63
4·0 „					15	8·2	6·2	265	2	7·0	6·9	56	26	8·3	7·5	64	24	7·7	7·2	58	20	6·5	5·5	67
5·0 „					12	7·0	4·5	267	1	6·0	6·0	75	25	5·9	4·4	83	20	4·7	3·3	77	15	5·1	3·1	70
6·0 „					11	9·9	7·5	261					21	5·9	3·7	99	18	5·2	2·8	105	8	4·9	0·8	299
7·5 „					7	10·7	9·6	271					16	5·9	2·9	129	10	5·5	3·3	95	2	7·0	5·7	260
9·0 „					3	15·8	13·7	264					14	4·6	2·3	129	6	6·5	1·9	75	1	8·0	8·0	230

Height in km.	VENGURLA												VERAVAL											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D		V	v	D	n	V	v	D
Surface.	31	0·6	0·4	308	31	0·5	0·1	337	31	3·7	3·5	266	31	6·1	5·1	275	31	3·9	3·0	276	31	7·1	6·6	255
0·15 a ground.	30	3·7	3·1	324	31	2·7	1·4	338	31	6·2	6·0	271	31	8·2	7·3	282	31	7·4	6·1	280	31	8·8	8·0	260
0·6 a. s. l.	30	4·4	3·8	317	31	4·2	3·2	306	31	4·9	4·0	282	29	9·1	8·3	287	28	9·3	8·2	292	29	8·3	7·5	279
1·0 „	24	5·2	2·9	323	26	5·3	3·8	313	30	4·0	2·4	336	23	8·4	7·9	293	27	9·2	8·4	298	25	7·8	6·8	299
1·5 „	21	5·1	4·6	328	17	7·4	6·2	353	27	5·5	4·1	353	14	5·9	5·3	296	23	7·7	6·5	299	25	7·1	5·7	297
2·0 „	11	4·3	1·9	358	14	6·5	4·7	23	23	5·4	3·1	350	9	5·5	2·7	278	19	6·8	4·7	298	23	6·9	5·5	291
2·5 „	7	4·6	3·2	85	14	5·5	3·3	44	23	5·1	2·0	357	6	5·8	3·0	214	16	7·0	4·2	282	23	6·8	5·4	276
3·0 „	4	6·2	5·1	84	11	5·2	3·2	69	22	4·6	1·0	66	3	4·7	1·9	135	13	7·1	4·0	283	23	6·4	4·4	253
4·0 „	1	4·5	4·5	10	6	6·5	5·2	116	18	5·5	3·8	114					8	6·8	2·6	245	22	7·3	3·4	220
5·0 „					5	4·5	4·0	64	18	4·9	2·4	79					6	5·6	3·0	262	21	7·0	3·1	271
6·0 „					4	4·4	2·8	56	16	6·1	3·9	30					4	7·7	5·2	231	21	8·8	5·2	301
7·5 „					1	0·5	0·5	170	10	6·8	3·9	23					2	5·7	4·0	310	16	10·1	7·8	290
9·0 „					1	4·0	4·0	210	4	7·9	3·1	18									10	15·4	13·2	28[illegible]

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MAY 1947

Height in km.	VIZAGAPATAM											
	0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·9	2·7	240	31	2·8	2·5	242	31	4·3	3·9	207
0·15 a ground.	31	7·9	7·5	238	31	7·9	7·8	242	31	7·9	7·6	208
0·6 a. s. l.	25	10·4	9·6	242	29	12·3	12·2	239	30	8·1	7·5	240
1·0 ,,	23	7·1	6·9	252	28	10·9	10·6	237	30	6·7	6·4	254
1·5 ,,	23	3·5	2·8	260	27	6·1	4·6	250	29	4·2	2·9	293
2·0 ,,	19	2·7	0·6	272	24	4·1	2·5	266	29	3·7	2·2	341
2·5 ,,	17	3·7	0·5	326	16	3·9	1·6	346	29	4·3	2·9	15
3·0 ,,	13	4·4	2·0	340	14	5·0	2·4	4	29	4·5	3·3	25
4·0 ,,	2	6·5	5·6	360	9	4·2	3·3	15	28	5·1	3·4	38
5·0 ,,					6	3·6	2·3	348	28	4·5	1·8	348
4·0 ,,					4	2·6	2·2	318	25	5·2	3·2	259
7·5 ,,					4	3·6	2·3	287	22	6·6	5·1	267
9·0 ,,					1	5·0	5·0	230	15	6·4	4·1	223

Height in km.	
Surface.	
0·15 a ground.	
0·6 a. s. l.	
1·0 ,,	
0·5 ,,	
1·0 ,,	
2·5 ,,	
6·0 ,,	
6·0 ,,	
7·0 ,,	
9·0 ,,	
3·5 ,,	
0·0 ,,	

Table B—Monthly mean directions and velocities of upper winds

Winds above 9 km. above sea level

MAY 1947

Ht. in km. A.S.L.	n	V	v	D
	ANANTAPUR			
10·0	5	7·9	3·0	160
11·0	3	7·3	2·9	215
	ASANSOL			
10·0	2	11·5	11·5	272
11·0	2	13·3	12·9	290
12·0	1	25·0	25·0	275
13·0	1	20·0	20·0	260
	BAREILLY			
10·0	2	13·7	13·5	338
11·0	1	20·0	20·0	345
	BHOPAL			
10·0	1	7·0	7·0	235
11·0	1	8·5	8·5	245
12·0	1	8·5	8·5	245
	BHUJ			
10·0	1	15·0	15·0	255
	BOGRA			
10·0	1	28·0	28·0	285
11·0	1	36·0	36·0	290
	CHITTAGONG			
10·0	4	14·6	12·7	257
11·0	2	16·3	15·5	251
12·0	2	17·3	17·3	230
13·0	1	22·0	22·0	235
14·0	1	23·0	23·0	230
	CUTTACK			
10·0	8	11·7	9·8	247
11·0	6	8·2	6·3	262
12·0	4	9·4	8·3	254
13·0	4	8·9	7·0	235
14·0	3	5·2	3·1	182
15·0	2	4·0	1·5	118
16·0	1	5·0	5·0	200
17·0	1	2·0	2·0	280
	DALBANDIN			
10·0	1	18·0	18·0	235
	FORT SANDEMAN			
10·0	2	12·5	12·2	250
11·0	2	20·5	19·8	254
12·0	2	27·0	27·0	268
13·0	2	28·0	28·0	266
14·0	1	21·5	21·5	260
	GADAG			
10·0	1	3·0	3·0	230
11·0	1	5·0	3·0	235
12·0	1	5·5	5·0	215
	GAYA			
10·0	4	16·5	15·2	255
11·0	3	7·3	7·0	262
12·0	2	7·3	7·1	272
13·0	2	8·5	6·7	245
14·0	2	11·3	7·6	275
15·0	1	9·5	9·5	235
16·0	1	9·0	9·0	240
17·0	1	11·0	11·0	240
18·0	1	10·0	10·0	255
	HYDERABAD (DN)			
10·0	2	4·0	3·9	265
11·0	1	4·0	4·0	200
12·0	1	3·5	3·5	225
13·0	1	3·0	3·0	240
14·0	1	1·0	1·0	20
15·0	1	2·5	2·5	90
16·0	1	10·0	10·0	115
17·0	1	19·0	19·0	120
18·0	1	23·0	23·0	120
	JHARBUGUDA			
18·0	1	22·5	22·5	220
	JUBBULPORE			
10·0	2	20·3	20·1	280
11·0	2	27·7	27·7	280
12·0	1	34·0	34·0	280
13·0	1	42·0	42·0	280
14·0	1	53·0	53·0	280
	MADHOSAGAR (Gwalior).			
10·0	1	21·5	21·5	265
	MADRAS			
10·0	10	5·3	1·0	142
11·0	9	7·1	1·7	197
12·0	7	8·3	4·8	140
13·0	3	9·0	8·9	270
14·0	2	5·5	5·5	173
15·0	2	7·5	7·4	137
16·0	2	11·3	10·8	129
	MALEGAON			
10·0	5	9·0	8·4	242
11·0	5	10·5	8·6	232
12·0	3	8·5	7·5	180
13·0	1	1·5	1·5	150
14·0	1	6·0	6·0	125
15·0	1	12·0	12·0	110
16·0	1	11·0	11·0	115
17·0	1	9·0	9·0	125
	MANGALORE			
10·0	5	7·8	0·6	298
11·0	2	5·5	4·9	155
12·0	1	5·5	5·5	150
13·0	1	8·0	8·0	90
	MASULIPATAM			
10·0	11	7·4	4·6	217
11·0	8	7·3	3·3	206
12·0	6	5·7	4·3	177
13·0	4	8·1	5·2	164
14·0	2	9·7	9·5	140
	NAGERCOIL			
10·0	16	6·9	1·3	96
11·0	12	9·2	1·5	104
12·0	11	11·3	1·6	281
13·0	10	10·8	3·1	21
14·0	8	12·1	3·8	174
15·0	5	12·9	4·4	174
16·0	5	11·9	4·5	180
17·0	4	12·1	4·1	127
18·0	3	13·8	12·0	130
19·0	2	11·0	6·8	176
20·0	2	14·3	13·0	115
21·0	2	16·5	9·1	111
22·0	1	27·0	27·0	135
	NAGPUR			
10·0	1	8·0	8·0	25
	QUETTA			
11·0	1	24·5	24·5	270
	RAJSAMAND			
10·0	2	8·0	7·9	262
11·0	1	8·5	8·5	255

Table B—Monthly mean directions and velocities of upper winds

Winds above 9 km. above sea level

MAY 1947

Ht. in kms. A.S.L.	n	V	v	D	Ht. in kms. A.S.L.	n	V	v	D	Ht. in kms. A.S.L.	n	V	v	D	Ht. in kms. A.S.L.	n	V	v	D
	TEZPUR					TRICHINOPOLY—*contd.*					VENGURLA					VIZAGAPATAM			
10·0	2	18·7	13·5	297	14·0	2	12·0	12·0	95	10·0	2	3·7	3·4	249	10·0	11	8·6	5·3	1
11·0	1	19·0	19·0	340	15·0	1	6·0	6·0	70	11·0	1	4·0	4·0	260	11·0	7	11·1	7·0	2
12·0	1	20·5	20·5	340	16·0	1	4·0	4·0	75	12·0	1	7·5	7·5	250	12·0	4	11·1	6·6	1
13·0	1	24·0	24·0	335	17·0	1	7·0	7·0	95	13·0	1	11·5	11·5	230	13·0	3	11·6	8·6	1
14·0	1	20·0	20·0	335	18·0	1	8·0	8·0	125		VERAVAL								
15·0	1	25·0	25·0	335	19·0	1	6·0	6·0	85	10·0	1	16·5	16·5	275					
	TRICHINOPOLY				20·0	1	6·5	6·5	80	11·0	1	17·5	17·5	275					
10·0	4	4·0	2·3	188	21·0	1	3·5	3·5	50	12·0	1	16·5	16·5	260					
11·0	3	5·8	3·2	172	22·0	1	6·5	6·5	85	13·0	1	20·0	20·0	270					
12·0	2	9·0	9·0	133		TRIVANDRUM				14·0	1	11·0	11·0	270					
13·0	2	10·5	10·1	121	10·0	1	7·5	7·5	245	15·0	1	12·0	12·0	290					

M/N180Gen Ob—325—3-7-51—GIPS

Registered No. B 2097

INDIA WEATHER REVIEW, 1947

Monthly Weather Report

June

Published by authority of the Government of India

Chief features.—(1) Unusually dry weather in northwest India and also marked defect of rainfall over most of the country owing to the general feebleness of the monsoon, which did not extend well into the interior of the country, (2) Two depressions in the Bay of Bengal.

The monsoon advanced into Comorin area on the 28th of May preceded by a downpour of 7" of rain in Colombo ; but its further extension northwards was delayed till the 3rd of June on which date, a feeble advance occurred over Malabar. By the next day the monsoon extended to the South Konkan, but upto the 8th, its activity remained confined to the Malabar-Kanara coast where light to moderate rain fell. During this period, widespread thunderstorms accompanied by heavy rain occurred in Assam and east Bengal.

The Bay branch of the monsoon advanced into north Bay on the 7th and a depression formed there on the next day. The depression moved northwards and crossed into Bengal by the 10th and became unimportant thereafter. It served to usher in the monsoon into Bengal and Chota Nagpur. At the same time the Arabian Sea branch also strengthened and extended into the south Deccan, and between the 9th and 12th fairly widespread rain fell over the region from the south Konkan to Chota Nagpur with locally heavy amounts in Malabar, Kanara and Chota Nagpur. For the next week the activity of the monsoon was confined to Malabar, east Bengal and Assam, while elsewhere weather was more or less dry. During this week some heavy downpours occurred in lower Assam and southeast Bengal causing disastrous floods in Sylhet and the neighbouring districts. During the next week the monsoon weakened in Bengal and Assam also.

With a fresh pulse of the monsoon in the north Bay on the 24th a depression formed there. It intensified into a cyclonic storm, crossed coast near Balasore on the 27th and moving northwestwards as a depression filled up over the east Central Provinces on the 30th. This depression revived the monsoon in northeast India and the central parts of the country and extended it into the east United Provinces. At the same time, the Arabian Sea branch of the monsoon also strengthened along Malabar and Kanara. Consequently fairly widespread rain with locally heavy falls occurred in Malabar, the south Konkan, Orissa, the Central Provinces, Central India and the east United Provinces on the last four days of the month.

Fairly widespread thundershowers occurred in Kashmir and the Punjab hills on two days in the second week in association with two western disturbances. Weather was otherwise dry in northwest India and the west United Provinces during the month.

The total rainfall of the month was in large excess in the Bay Islands, in slight to moderate excess in Kashmir and the Madras Deccan and normal in Assam, Orissa and Chota Nagpur. It was in slight to moderate defect in Bengal, Bihar, the east United Provinces, east Central India, the Central Provinces, the Konkan, Hyderabad, Mysore, Malabar, southeast Madras and the north Madras coast and in large defect elsewhere except in Sind and west Rajputana where no rain fell. Averaged over the plains of India, the month's rainfall was 34% in defect.

Maximum temperature was above normal in Bihar, the United Provinces, the Punjab, the North-West Frontier Province, Rajputana, east Central India, Berar, the Central Provinces, the Konkan, the Bombay Deccan and Hyderabad and normal elsewhere. Minimum temperature was in excess in the United Provinces, the Punjab, the North-West Frontier Province, east Rajputana, Gujarat, east Central India, Berar, the east Central Province and south Hyderabad.

Relative humidity was in defect in the west United provinces, the east and north Punjab, the North-West Frontier Province, Baluchistan, east Central India and north Hyderabad and normal elsewhere.

Cloud amount was in excess in southeast Madras and in defect in the Punjab, Baluchistan, west Rajputana, Berar, the Bombay Deccan and north Hyderabad.

Table I contains the divisional and sub-divisional means of rainfall, temperature and humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

N. B.—The Indian Standard Time used in this publication is 5 hours 30 minutes in advance of G. M. T.

POONA 5 :
The 30th August, 1947.

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

M/N19DGO.

Errata to India Weather Review, 1947, Monthly Weather Report June.

Page Number	Station	Column	For	Read
177	-	Para.6,line 4	K nkan	Konkan
	-	Para.7,Line 5	e st	east
180	Balasore	13	101825	10,18,25
181	Sibsagar	29	0	4.80
182	Hazaribagh	17	4.8	74.8
	"	18	4.6	24.6
	Motihari	16	8 0	80.0
	"	17	8 5	81.5
	"	18	3 .2	32.2
	"	19	+.2	+1.2
	"	20	3	32.8
	Cawnpore	15	10.2	103.2
	Lucknow	15	10.9	100.9
183	Dehra Dun	38	11	1
189	Raipur	53	Rajpur	Raipur
	Alibag	37	5	6
193	Kabul	39	5	2
194	Zahidan	1	Zabidan	Zahidan
195	Jask	25	1.1	-1.1
198	Anantapur	-	ANANTPUR	ANANTAPUR
208	Udaipur	1600 under D against Height 6.0 a.s.l.	23_6	236
	"	1600 under D against Height 7.5 a.s.l.	26_4	264

Division.	Rainfall.				Departure from normal of				
							8 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
	"	"	"		°	°	Mbs.	%	
Assam ..	18·46	16·71	+1·75	+10	−0·5	0	+0·4	+1	+0·5
Bengal ..	10·22	14·45	−4·23	−22	+1·2	+1·2	+0·7	0	+0·5
Orissa ..	8·67	8·37	+0·30	+4	+0·9	−0·1	+0·3	−1	+0·5
Bihar ..	4·73	7·33	−2·60	−35	+2·8	+1·5	+1·2	−2	0
United Provinces	2·63	4·88	−2·25	−46	+4·1	+2·6	−0·7	−5	+0·1
Punjab ..	0·14	1·49	−1·35	−91	+4·8	+3·4	−0·3	−5	−0·9
North-West Frontier Province	0·02	0·69	−0·67	−97	+3·5	+3·7	−2·1	−9	−0·2
Sind ..	0	0·43	−0·43	−100	+0·3	−0·5	−1·0	−1	−0·1
Rajputana ..	0·23	2·24	−2·01	−90	+2·3	+2·1	+0·4	−2	−1·0
SUB-DIVISION									
1. Bay Islands..	38·03	21·75	+1628	+75	−0·4	+0·4	−1·3	+3	+1·2
2. Assam ..	18·46	16·71	+1·75	+10	−0·5	0	+0·4	+1	+0·5
3. Bengal ..	10·23	14·45	−4·23	−22	+1·2	+1·2	+0·7	0	+0·5
4. Orissa ..	8·67	8·37	+0·30	+4	+0·9	−0·1	+0·3	−1	+0·5
5. Chota Nagpur	7·11	7·48	−0·37	−5	+1·9	+1·1	+1·2	−1	+0·5
6. Bihar ..	3·77	7·28	−3·51	−48	+3·4	+1·8	+1·3	−2	−0·3
7. United Provinces, East.	3·13	5·22	−2·09	−40	+4·2	+2·6	−0·6	−3	+0·5
8. United Provinces, West.	2·13	4·54	−2·41	−53	+4·1	+2·5	−0·7	−7	−0·3
9. Punjab, East and North.	0·21	2·33	−2·12	−91	+6·2	+5·2	−1·2	−9	−0·9
10. Punjab South-west	0·07	0·78	−0·71	−91	+3·6	+2·0	+0·4	−2	−0·9
11. Kashmir ..	1·65	1·47	+0·18	+12	+0·1	+0·5	−1·0	−3	0
12. North-West Frontier Province.	0·02	0·69	−0·67	−97	+3·5	+3·7	−2·1	−9	−0·2
13. Baluchistan	0·02	0·26	−0·24	−92	+0·5	−0·7	−2·4	−7	−0·5
14. Sind ..	0	0·43	−0·43	−100	+0·3	−0·5	−1·0	−1	−0·1
15. Rajputana, West.	0	1·53	−1·53	−100	+2·2	+1·8	+0·1	−3	−1·3

Division	Rainfall.				Departure from normal of				
							8 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
	"	"	"		°	°	Mbs.	%	
Bombay ..	4·39	9·56	−5·17	−54	+1·9	+1·6	+0·7	−1	−1·
Central India ..	2·34	5·85	−3·51	−60	+2·7	+2·2	+0·1	−2	−0·
Central Provinces and Berar.	4·54	7·64	−3·10	−41	+3·4	+2·3	+0·2	−4	
Hyderabad ..	3·22	4·98	−1·76	−35	+2·6	+2·1	+0·1	−3	−0·
Mysore ..	4·36	5·71	−1·35	−24	+0·7	+0·9	+0·6	+2	+0·
Madras ..	5·91	6·66	−0·75	−11	+0·7	+1·0	+0·5	+1	+0·
Mean of India	4·22	6·41	−2·19	−34	+2·3	+1·8	+0·2	−2	−0·
SUB-DIVISION—*contd.*									
16. Rajputana, East	0·47	2·96	−2·49	−84	+2·5	+2·4	+0·6	−1	−0·
17. Gujarat ..	0·17	4·08	−3·91	−96	+1·0	+2·0	+0·3	−2	−0·
18. Central India, West.	1·39	5·72	−4·33	−76	+1·8	+1·9	+0·5	0	−0·
19. Central India, East	3·61	6·03	−2·42	−40	+4·0	+2·6	−0·3	−6	−0·
20. Berar ..	2·63	6·04	−3·41	−56	+2·9	+3·4	+0·2	−3	−1·
21. Central Provinces, West.	4·28	7·01	−2·73	−39	+2·9	+1·9	−0·2	−5	+1·
22. Central Provinces, East.	5·62	9·02	−3·40	−38	+4·2	+2·4	+0·8	−4	−0·
23. Konkan ..	17·13	28·85	−11·72	−41	+2·3	+1·6	+1·1	−2	−0·
24. Bombay Deccan.	3·52	7·33	−3·81	−52	+2·9	+1·2	+1·1	−1	−1·
25. Hyderabad, North.	2·74	5·34	−2·60	−49	+3·8	+1·9	−0·5	−6	−1·
26. Hyderabad, South.	3·69	4·62	−0·93	−20	+2·0	+2·2	+0·6	−1	+0·
27. Mysore ..	4·36	5·71	−1·35	−24	+0·7	+0·9	+0·6	+2	+0·
28. Malabar ..	25·01	27·95	−2·94	−11	+0·8	+0·2	+0·5	+2	+0·
29. Madras, South-east.	1·23	1·57	−0·34	−22	−0·1	+1·0	+0·7	0	+1·
30. Madras, Deccan.	3·90	2·67	+1·23	+46	+1·0	+1·1	+0·5	+3	+0·
31. Madras Coast, North.	2·02	3·80	−1·78	−47	+1·7	+1·4	+0·2	−2	+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.			Relative humidity, %		
		Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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 ..	261	998·4	0	996·5	83·9	—0·4	88	4	75·4	+0·4	71	2,18	79·6	79·8	76·8	76·7	30·1	—1·3	30·0	88	+3	86
ASSAM—																						
Dibrugarh (*R*) ..	348																					
Sibsagar ..	317	991·1	—1·1	987·2	87·7	—0·9	98	9	77·4	+1·3	71	2	81·1	85·2	77·9	79·5	31·3	—0·1	31·9	87	—1	78
Tezpur ..	208	993·4	—0·9	989·6	87·9	—0·7	94	23	76·1	—0·4	69	2	80·6	85·2	77·8	79·7	31·2	+0·3	32·1	88	+1	78
Gauhati ..	162	995·1	—1·0	991·6	88·6	—0·3	94	6	76·7	+0·2	71	4	81·5	85·5	78·1	79·1	31·1	+0·5	31·0	86	+1	75
Dhubri ..	115	997·4	—0·7	994·3	85·8	+0·1	93	days 23	76·8	+0·7	69	days 1	80·1	84·1	78·0	79·3	32·0	+1·3	31·9	90	+1	80
Silchar ..	96	999·3	—0·8	995·4	87·1	—2·1	96	21,27	76·1	—0·1	70	1,2,3	79·0	84·5	77·2	78·9	31·0	—0·4	32·4	93	+6	78
Srimangal ..	69	999·5	—0·8	996·3	88·8	—1·1	95	21,27	76·0	+0·5	72	15	80·0	82·6	77·9	79·6	31·8	+0·6	32·7	91	+4	84
BENGAL—																						
Cox's Bazar ..	38	1000·9	—0·9	998·6	87·6	+1·3	94	26	76·7	+0·3	72	15	83·3	82·5	79·4	78·9	32·5	+0·7	32·2	84	—2	85
Chittagong ..	87	998·8	—1·3	996·0	86·9	0	93	26	77·4	+0·6	72	13,14	81·9	83·4	78·1	79·2	31·0	—0·2	32·3	84	0	83
Noakhali (*R*) ..	22																					
Comilla ..	29	1000·4	—1·1	997·3	89·1	+0·8	94	21	77·9	+1·1	71	16,17	82·8	83·2	79·0	81·0	32·0	—0·1	33·9	84	+1	80
Brahmanbaria ..	32	1000·1	..	997·0	89·4	—0·8	95	13	78·1	+3·5	72	2,3	82·8	85·2	79·0	80·9	32·0	+1·5	34·1	84	+4	82
Narayanganj (*R*)	26																					
Mymensingh ..	62	999·2	—1·1	995·9	88·8	+1·0	96	21	77·5	+0·6	70	2	82·2	85·9	79·6	81·2	33·4	+1·6	34·3	90	+3	82
Faridpur (*R*) ..	46																					
Barisal (*R*) ..	11																					
Khulna (*R*) ..	16																					
Jessore ..	26	999·0	—1·2	995·7	91·2	+0·5	95	21, 23,26	78·7	+0·8	72	3,4	84·8	88·8	81·3	83·5	35·7	+2·0	36·7	87	+2	79
Satkhira ..	16	999·4	—0·8	996·7	91·2	—0·6	95	20	78·7	—0·1	73	4	85·0	87·6	81·6	82·6	35·3	—1·0	35·5	86	+2	80
Dum Dum ..	33	998·4	..	995·6	93·6	..	101	16	79·3	..	73	4 17,19	84·6	87·7	80·1	81·2	33·0	..	33·2	81	..	76
Calcutta ..	21	998·8	—1·0	995·8	93·7	+1·3	99	3,16	80·7	+2·1	75	9,17	84·3	88·8	80·8	82·0	34·3	+1·4	34·2	86	+4	75
Saugor Island ..	10	998·9	—1·2	996·6	89·5	—0·1	94	23	81·3	+0·4	75	17	85·3	86·3	81·7	81·8	35·4	+1·2	35·1	85	+4	8[illegible]
Sandheads ..	28	1,000·4	+0·5	996·1	..	..	..	..	..	..	..	..	84·9	85·2	81·7	82·7	35·6	+0·9	37·0	86	+3	89
Midnapore ..	149	994·3	—0·9	991·3	97·0	+2·8	113	3	80·1	+0·9	73	18	84·2	90·3	80·0	81·3	35·1	+1·2	32·4	82	+1	66
Burdwan ..	106	995·7	—1·0	992·5	95·5	+2·0	105	2	80·2	+1·4	75	9	84·5	90·1	80·3	80·3	33·5	+1·1	30·7	82	—1	65
Krishnagar ..	48	997·9	—1·3	995·0	94·6	+1·8	99	17	78·9	+0·4	73	3	84·7	88·0	81·2	81·7	34·8	+1·7	34·0	86	+4	76
Asansol ..	414	985·7	—0·2	981·9	93·7	+0·8	112	2	79·8	+0·7	70	25	87·5	91·0	79·5	79·1	30·7	—0·6	33·4	70	—7	62
Berhampore ..	62	997·5	—1·0	994·2	95·7	+3·0	104	2	79·6	+1·1	73	4	85·5	88·7	80·5	80·6	33·3	+0·6	33·2	80	—4	70
Bogra (*R*) ..	63																					
Malda ..	103	996·3	—1·2	992·7	94·9	+3·4	103	10	79·1	+0·9	73	13	84·9	90·7	79·8	81·2	32·4	—0·1	32·0	80	—4	66
Dinajpur ..	123	996·2	—0·8	992·8	92·4	+2·9	99	16	78·1	+0·8	72	1	83·0	88·2	79·6	81·5	32·9	+1·6	33·8	86	—1	74
Jalpaiguri ..	271	991·7	—1·1	988·5	88·3	—0·3	94	27	76·6	+0·9	71	1	80·6	85·5	77·5	79·3	30·9	+0·2	31·5	87	—2	76
ORISSA—																						
Balasore ..	65	996·7	—1·3	993·9	94·7	+1·5	111	13	80·0	+0·9	75	10182[illegible]	85·3	88·5	80·7	81·6	33·7	+1·7	33·7	83	+3	75
Chandbali ..	20	998·7	—1·4	995·9	90·7	—3·2	..	..	75·5	—4·2	..	..	84·9	89·6	80·2	81·7	33·4	+0·1	33·2	81	—1	70
Puri ..	20	999·4	—0·9	996·8	88·4	—0·6	91	7	80·6	—0·3	75	10	84·2	84·9	80·8	81·1	34·3	+0·6	34·4	85	+1	85
Gopalpur ..	56	998·2	—0·9	995·4	88·5	—1·3	94	20	80·0	—0·3	75	9, 10	82·0	84·6	80·6	81·3	35·0	+1·9	34·9	86	+2	86
Cuttack ..	87	995·5	—1·5	993·5	96·8	+1·3	112	3.4	80·0	+0·4	74	10, 10	8[illegible]·0	9[illegible]·6	79·6	80·4	32·0	+0·5	30·9	77	—1	65
Angul ..	455	984·4	—0·6	980·7	100·2	+4·3	113	2,3	80·8	+1·9	74	12, 25	86·5	94·4	77·6	77·3	28·2	—1·3	24·2	67	—8	59
Sambalpur ..	486	982·	—1·0	979·2	102·2	+4·7	114	2	82·2	+1·7	75	10, 11	86·1	98·0	77·2	78·7	27·8	—0·2	24·5	67	—2	44

(*R*) Register not received.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from—																	STATION.
											8 hrs. I.S.T.									17 hrs. I.S.T.									
Mean 5 hrs. I.S.T.	Departure from normal.	Mean 17 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—
0·6	+1·2	9·7	38·03	+16·28	7·23	3	25	+3·5	16·4	+2·7	0	0	0	0	0	19	9	1	1	0	0	0	0	0	20	10	0	0	Port Blair.
																													ASSAM—
																													Dibrugarh (*R*)
8·9	+0·9	7·7	22·75	+7·62	·0	3	17	—0·1	2·8	+0·6	2	11	4	1	2	5	0	2	3	3	10	1	1	4	4	0	2	5	Sibsagar
7·6	—0·1	6·5	12·87	+0·73	·3'	13	16	0	1·5	—0·4	0	1	14	0	1	2	5	0	7	0	0	8	1	0	2	2	0	17	Tezpur.
7·6	—0·2	7·0	14·09	+1·79	3 41	15	14	—0·7	2·8	+1·4	2	9	2	1	6	4	2	3	1	1	7	4	3	2	6	2	2	3	Gauhati.
7·5	—0·1	7·8	13·91	—10·20	3·80	16	13	—5·1	4·3	0	0	6	7	4	2	4	1	0	6	1	5	10	2	5	6	1	0	0	Dhubri.
9·2	+1·6	·.6	40·33	+17·16	8·30	14	20	—1·3	1·8	·0·1	2	0	2	5	0	2	1	1	7	0	2	3	2	0	4	9	5	5	Silchar.
7·7	+1·1	7·9	19·05	+0·19	3·71	2	20	—0·1	3·8	+0·1	0	5	1	12	11	0	0	1	0	1	2	5	0	6	7	3	5	1	Srimangal.
																													BENGAL—
7·2	—0·4	7·8	37·18	+6·04	7 5	12	20	+0·9	3·0	—1·(	0	0	5	9	4	3	0	0	9	0	0	2	9	9	4	0	0	6	Cox's Bazar.
8·9	+1·4	8·9	20·23	—0·76	4·13	13	19	2·3	7·2	0·8	1	0	7	13	4	0	1	0	4	0	0	1	9	11	5	1	0	3	Chittagong.
																													Noakhali (*R*)
8·6	+1·8	8·0	18·23	—0·05	6·07	16	16	—1·1	8·5	2·7	0	0	1	12	13	0	1	0	3	2	1	0	5	16	3	0	1	2	Comilla.
6·5	..	3·7	14·15	—0·40	3·98	13	11	—5·0	4·6	..	(	0	6	5	13	1	0	0	5	0	0	0	9	13	3	0	0	5	Brahmanbaria.
																													Narayanganj (*R*)
8·3	—0·1	7·9	15·99	—1·61	2·85	12	16	—1·8	3·5	—1·0	(	0	13	4	1	0	0	0	12	0	2	6	6	2	0	0	0	14	Mymensingh.
																													Faridpur (*R*)
																													Barisal (*R*)
																													Khulna (*R*)
5·7	—1·6	6·3	7·20	—5·62	1·62	13	12	—2·0	5·4	+2·0	0	5	3	8	'0	3	0	0	1	0	0	3	9	10	3	0	0	5	Jessore.
8·2	+1·6	7·2	5·49	—6·71	1·38	9	9	—4 7	4·3	+1·0	2	2	5	6	'0	2	0	0	3	1	0	4	8	11	1	0	0	5	Satkhira.
7·6	..	7·9	6·63	..	2·07	17	9	..	..	..	1	0	8	5	6	4	0	1	5	2	0	4	8	12	2	1	0	1	Dum Dum.
8·0	+0·4	7·6	8·96	—2·73	1·72	9	12	—1·2	3·8	—0·5	0	2	3	4	5	4	2	0	10	2	0	4	6	8	5	0	1	4	Calcutta.
7·1	—1·0	6·5	6·93	—4·70	1·51	30	11	—1·1	16·5	+3·3	6	3	4	3	5	11	1	3	0	0	1	1	5	11	10	2	0	0	Saugor Island.
..	..	..	2 35	—5·52	0·50	30	8	-1·4	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	Sandheads
8·6	+2·4	8·4	6·80	—3·41	2·15	10	10	—2·4	4·9	+1·5	1	4	4	1	8	7	2	1	2	2	3	1	4	12	5	1	1	1	Midnapore.
6·9	—0·5	7·0	6·75	—3·77	2·50	9	10	—2·4	6·2	+2·	1	1	8	2	4	8	2	1	3	2	3	11	4	4	5	0	1	0	Burdwan.
7·1	0	7·8	10·26	—0·07	2·35	12	12	—0·7	4·7	—0·3	0	3	3	9	'0	2	0	1	2	0	3	2	10	11	1	0	2	1	Krishnagar.
6·3	—0·3	7 6	5·62	—3·89	1·4'	9	11	0 7	5 8	+0·5	1	0	5	8	1	3	1	0	11	2	1	4	9	1	1	3	1	8	Asansol
7·2	—0·4	6·9	4·68	—4·99	1·67	9	9	—3·3	2·4	—1·3	0	0	10	7	9	1	0	0	3	1	0	6	3	11	0	0	2	7	Berhampore.
																													Bogra (*R*)
7·5	+1·2	6·4	3·78	—6·04	1·52	12	7	—4·5	4·8	—0·6	1	4	6	8	8	2	0	0	1	0	5	11	9	4	0	0	1	0	Malda.
8·4	+0·9	7·2	5·72	—7·92	1·09	29	11	—3·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Dinajpur.
8·1	+2·1	7·4	10·74	—15·20	2·18	16	16	—3·1	4·0	+1·9	2	9	12	2	1	1	0	0	3	6	6	6	3	3	1	1	1	3	Jalpaiguri.
																													ORISSA—
0·1 (*K*)	+2·3	8 9 (*L*)	8 09	—1·08	1·49	12	14 (*K*)	+2·9	6 3 (*K*)	+1·5	4	3	0	0	8	8	0	1	6	1	0	0	8	14	5	0	0	2	Balasore
7 9	+0·6	7·5	8·12	—0·62	..	..	6	..	7·6	—0·4	3	0	0	2	6	6	1	1	1	2	1	0	3	11	2	0	0	0	Chandbali.
7 5	+0·9	8·7	12·41	+4·95	4·31	27	11	+2·9	14·2	+2·1	0	2	0	3	0	18	5	1	1	0	0	0	1	1	26	2	0	0	Puri.
5·9	+1·3	8·2	6·18	+0·72	1·83	9	7	—0·6	15·0	+4·4	0	0	3	6	8	9	0	0	4	0	0	5	4	4	14	3	0	0	Gopalpur.
7·2	+0·1	8·0	12·20	+2·25	4·05	27	10	—1·4	4·0	+1·0	0	0	1	1	4	4	6	1	13	1	1	1	0	7	7	2	0	11	Cuttack.
7 1	—0·1	7·7	6·00	—2·54	1·21	3	12	+0·4	5·4	+0·2	1	1	2	1	1	0	5	4	15	1	0	3	2	2	5	5	5	7	Angul.
5 5	0	7·4	7·13	—2·96	3·07	28	11	+0·3	6·4	+2·4	0	0	2	0	8	17	0	2	1	1	2	1	0	12	10	4	0	0	Sambalpur.

(*K*) Register not received. (*R*) Mean of 20 days. (*L*) Mean of 19 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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
CHOTA NAGPUR—																						
Jamshedpur ..	423	984·7	—1·0	981·3	98·7	+1·7	113	2	80·7	+0·7	74	., 0	83·2	92·3	79·0	79·0	3 ·7	0·9	27·5	73	0	57
Chaibasa ..	742	974·0	—0·7	970·6	100·0	+3·1	113	2,3	81·0	+1·8	72	9	86·1	92·8	79·5	81·1	31·5	—2·9	30·9	75	+3	63
Ranchi ..	2,150	928·1	—0·4	925·4	94·8	+2·8	07	2	75·0	—0·3	69	1),24, 28	82·9	87·0	75·3	74·8	26·4	+1·6	24·1	71	0	61
Hazaribagh ..	2,006	932·6	- 0·9	929·9	93·7	+2·6	108	2	77·5	+1·4	71	25	84·4	89 3	74·5	4 8	,4 6	-0·6	23·0	64	—4	55
Daltenganj ..	725	974·0	—0·9	970·2	103·5	+3·2	114	1	82·9	+2·0	73	11	90·3	97·1	79·9	77·:	25·	-0·6	22·8	54	—9	41
Dhanbad ..	839	970·6	..	..	96·6	..	111	2	79·9	..	74	25	87·1	..	77·7	..	8·1	..	..	66	..	..
BIHAR—																						
Purnea	124	995·7	—1·0	992·2	93·3	+1·9	101	16	78·2	+0·8	73	1, 13, 17	84·8	89·3	80·0	82·0	33 3	+1·8	33·9	81	—4	74
Darbhanga ..	161	994·2	—0·7	990·4	95·8	+2·9	103	16	79·4	+0·9	70	25	84·9	93·1	79·6	82 1	32 0	0 9	32·4	79	—1	62
Motihari ..	218	991·9	—1·3	988 7	92·2	—1·3	104	16	79·8	+2·0	73	24	85·8	90 2	8 0	8 5	3 ·2	+ ·2	35·3	77	—3	68
Patna ..	173	992·2	—1·7	989·2	100·6	+4·4	110	15	81·9	+2·0	74	17	87·5	95·3	79·6	7).6	30·9	0	27·4	70	—5	50
Dehri ..	352	985·9	..	982·2	104·3	..	114	1,2	84·5	..	75	0, 12	91·5	99·5	78·3	78·0	3 ·7	..	22·9	56	..	40
Gaya ..	365	985·5	—1·4	982·1	104·8	+5·3	115	2	85·6	+4·3	79	),10,12	91·8	99·3	78·4	77·4	27·4	+1·1	22·0	55	1	39
Naya Dumka ..	489	983·0	—0·6	979·2	97·0	+2·9	112	2	80·0	+1·5	70	4	85·7	90·3	80·1	79·9	32·6	-2·1	30·1	78	0	63
Sabour ..	122	994·9	—1·4	991·5	97·4	+2·9	105	1,2	80·4	+1·2	72	9	86·9	91·6	81·0	81·1	33·4	+1·6	31·4	77	—3	63
U. P. EAST—																						
Gonda ..	360	986·7	..	983·0	102·0	+4·3	110	20, 21	82·8	+2·8	74	9	86·7	99·7	78·7	78·5	29·9	:0·7	28·7	70	—2	40
Gorakhpur ..	254	989·9	—1·5	985·9	101·1	+4·2	109	16, 21	82·4	+3·2	75	10	87·0	99·2	7).6	80·4	31·2	;0·8	26·7	71	—5	43
Banaras ..	250	989·4	—1·3	982·6	106·0	+5·1	114	1,2	84·6	+2·6	80	4 d y	91·9	102·5	79·4	80·5	28·6	+0·7	25·5	57	—7	39
Allahabad (Bamrauli)	322	987·5	—0·6	983·9	106·9	+4·2	114	1, 22,23	86·3	+3·4	73	11	92·0	103·2	76·4	:6 8	23·9	—4·0	1).5	49	+10	32
Fatehpur ..	375	985·4	..	982·0	107·5	+4·5	115	22	84·8	+1·9	70	6	90·6	103·3	76·6	78·8	24·9	—2·9	22·4	13	—12	3)
Cawnpore ..	414	984·3	—0·6	980·6	107·0	+4·3	114	1, 21,22	85·8	+2·8	74	30	90 0	10 ·2	74·8	76·3	22·7	—3·5	18·7	50	—11	30
Lucknow ..	371	985·6	—1·0	982·3	105·7	+5·5	112	5 days	83·6	+1·5	72	10	88·9	10 ·9	78·4	80·5	28·4	:0·9	26 3	63	—1	43
Bahraich ..	407	985·0	—0·5	981·7	100·6	+1·9	109	21	82·4	+2·4	72	5, 6, 9	85·8	97·5	79·5	82·0	31·6	+2 7	30·3	75	+5	53
U. P. WEST—																						
Jhansi	824	971·0	—0·9	964·7	106·3	+2·3	113	22,23	87·5	+3·0	77	29	91·1	100·1	76·6	77·9	24·7	+0·4	22·5	50	—3	39
Agra	553	979·5	—0·7	976·6	107·4	+3·4	115	1	86·8	+3·3	74	2	91·3	104·1	76·6	77·6	24·6	+2·0	20·2	50	+2	31
Mainpuri ..	516	980·4	—0·9	976·9	108·2	+3·5	116	21,22, 23	83·4	+0·6	74	30	91·1	103·1	75·7	77·3	23·3	—2·5	20·3	50	—6	33
Aligarh	615	977·3	..	973·7	107·9	+5·7	115	1,21, 22	85·7	+3·1	76	30	91·8	104·4	74·4	75·4	21·1	—3·1	16·9	43	—16	25
Bareilly ..	568	979·0	—1·1	974·9	104·4	+4·2	113	24	82·6	+2·2	73	28	88·9	101·2	78·0	73·4	27·7	—0·1	22·8	62	—5	38
Roorkee	899	967·5	—1·6	963·4	104·4	+4·2	112	22,23, 24	81·5	+2·7	75	21	89·0	103·9	74·0	76·7	21·8	—1·8	18·1	48	—12	26
Dehra Dun ..	2,239	924·9	—0·9	921·5	98·8	+5·1	106	4 days	76·8	+2·7	65	16	85·8	98·8	72·2	72·4	21·5	—0·1	18·9	52	—11	37
PUNJAB EAST AND NORTH—																						
New Delhi ..	714	973·3	—1·7	969·5	107·4	+5·0	112	1,21, 23	87·3	+4·8	80	16,17, 30	91·9	104·9	74·5	76·2	21·2	—2·8	17·8	42	—14	24
Hissar	725	973·3	—0·5	969·6	112·5	+6·9	116	22	86·6	+4·4	74	18	93·6	108·1	76·4	77·0	23·2	—0·6	17·5	44	—7	22
Ambala (*R*) ..	892																					
Ludhiana ..	812	969·7	—1·5	965·9	112·4	+7·7	117	22	85·3	+4·4	77	18	93·8	109·6	77·9	84·2	25·4	+3·4	28·1	49	—3	33
Lahore ..	702	972·7	—1·6	969·6	112·0	+6·1	117	9	84·6	+5·6	77	19	91·4	110·4	74·4	75·6	21·4	—0·4	14·1	43	—7	18
Sialkot	830	968·5	—1·8	965·5	111·4	+6·4	117	26	86·1	+5·8	77	11,15, 30	93·3	108·5	72·9	77·5	18·4	—3·1	18·1	35	—15	23
Rawalpindi ..	1,674	941·3	—1·7	938·5	109·4	+5·9	118	5	81·3	+5·4	72	15	88·7	106·5	67·8	71·2	14·8	—3·3	11·7	33	—6	15

(*R*) Register not received.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.									
Departure from normal.	Mean 17 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
																													CHOTA NAGPUR.
−0·6	7·4		7·07	−0·44	4·11	9	8	−2·7	5·3	+0·7	0	1	9	2	0	4	10	3	1	1	3	7	5	1	5	6	2	0	Jamshedpur.
+2·1	9·1		6·65	−1·14	1·91	9	12	+1·3	2·7	0	0	2	0	0	5	11	2	0	10	1	7	0	2	2	8	1	0	9	Chaibasa.
−1·7	6·5		10·50	+1·91	3·16	9	10	−1·4	..	..	0	1	2	0	16	1	1	0	9	0	0	4	1	5	1	2	1	16	Ranchi.
+0·9	8·1		6·11	−2·22	1·48	25	7	−3·7	5·9	−0·9	1	0	2	5	7	7	6	1	1	3	3	2	5	3	1	2	8	3	Hazaribagh
+2·2	8·0		4·34	−1·68	1·45	10	5	3·2	4·0	−0·6	0	1	4	1	3	1	10	2	8	9	3	5	3	3	1	3	3	0	Daltongnaj.
..	..		2·20	..	0·56	24	7	..	6·5	..	0	1	5	9	2	6	5	1	1	.	.	.	.	.	.	.	.	.	Dhanbad.
																													BIHAR—
−0·1	5·8		4·98	−5·25	1·29	14	9	−2·8	3·9	+0·9	0	3	16	8	0	0	0	1	2	1	7	15	2	1	1	6	6	3	Purnea.
+1·1	5·9		2·85	−4·73	1·12	24	6	−2·8	5·1	+0·8	0	16	0	4	0	0	0	0	0	0	9	12	5	1	1	0	1	1	Darbhanga.
+0·4	3·9		4·42	−4·29	3·14	24	3	−6·4	3·9	−0·9	0	1	18	5	0	0	0	0	6	0	0	10	1	0	0	3	0	16	Motihari
−0·2	7·4		4·09	−3·05	1·78	9	5	−3·0	5·6	+0·6	0	11	11	4	0	1	0	0	3	2	10	7	2	1	1	0	2	5	Patna.
..	6·0		3·65	−1·72	1·37	8	5	−1·9	4·3	..	2	2	5	5	3	7	1	2	3	4	6	3	2	0	1	1	11	2	Dehri.
+0·3	7·4		0·48	−5·97	0·19	6	1	−6·5	8 3	+2 2	0	0	8	7	3	5	1	0	6	4	4	3	2	2	2	2	8	3	Gaya.
−2·4	5·0		7·71	−2·29	1·94	8	13	+1·1	3·6	+0·8	0	1	0	11	0	1	0	0	17	0	7	0	12	0	1	6	2	8	Naya Dumka.
−0·7	7·0		7·71	+1·53	3·25	9	7	−0·8	4·9	−0·8	0	4	6	17	3	0	0	0	0	5	4	11	7	1	0	1	0	1	Sabour.
																													U. P. EAST—
−0·3	4·0		1·70	−5·61	0·57	30	5	−3·3	3·9	−1·1	1	0	24	1	1	0	0	1	2	6	1	15	0	0	0	5	1	2	Gonda.
+0·6	4·6		1·64	−5·91	0·58	11	5	−3·3	4·3	+1·5	0	6	12	4	0	1	0	0	1	1	3	9	4	1	0	4	6	2	Gorakhpur.
−0·7	5·3		0·88	−3·68	0·49	29	3	−3·0	6·4	+2·4	3	3	11	2	0	5	4	1	1	4	4	3	0	0	0	6	10	3	B. naras.
+0·5	5·9		2·30	−2·74	1·40	29	4	−0·3	5 6	+0·3	3	1	7	1	0	1	11	2	4	8	2	1	1	1	0	5	11	1	Allahabad (Bamrauli).
−0·9	2·3		2·48	−0·96	1·35	5	3	−4·8	3·6	−0·9	0	2	2	2	0	3	6	5	10	3	2	2	0	0	1	2	15	5	Fatehpur.
+2·1	2·9		3·66	+0·47	2·23	29	3	−1·5	8·9	+0·7	2	2	5	6	1	2	9	2	1	6	0	2	0	0	2	9	10	1	Cawnpore.
+1·6	3·0		5·21	+0·75	3·53	30	3	+2·5	2·8	+0·2	0	1	13	1	0	1	3	1	8	5	2	8	0	1	0	8	2	4	Lucknow.
+0·9	2·6		7·18	+0·98	2·30	9	7	−0·9	5·7	+2·3	1	1	12	9	1	0	0	0	6	1	3	5	2	0	2	5	7	5	Bahraich.
																													U. P. WEST—
+0·1	6·9		2·52	−1·65	0·88	29	6	+0·5	4·5	−0·5	0	0	0	0	2	15	8	0	5	1	0	0	0	2	9	8	5	5	Jhansi.
+0·4	3·6		1·15	−1·27	0·32	30	4	+0·2	4·4	−0·6	2	0	2	0	5	4	11	1	5	1	1	1	0	2	6	7	6	6	Agra.
−0·2	3·8		3·11	−0·47	1·77	29	5	+1·2	4·3	+1·5	1	0	3	4	1	5	4	11	1	4	3	3	2	3	4	5	6	0	Mainpuri.
−1·0	4·6		0·90	−4·49	0·70	29	1	−3·6	5·9	+0·3	3	0	5	1	0	1	9	4	7	5	0	3	1	0	3	13	3	2	Aligarh.
+1·0	3·5		5·25	+0·02	2·07	28	5	−0·4	4·5	+1·6	1	0	10	10	1	2	4	1	1	3	1	7	4	0	1	7	6	1	Bareilly.
−1·1	2·3		0·01	−4·49	0·01	6	0	−5·4	5·2	+2·0	0	1	1	23	0	0	0	1	4	0	1	1	10	1	2	1	14	0	Roorkee.
−1·1	5·0		4·14	−0·41	2·23	28	7	−2·4	2·7	0 8	0	0	2	11	2	0	4	0	21	2	2	2	1	2	5	8	2	6	Dehra Dun.
																													PUNJAB EAST AND NORTH—
−1·2	3·8		0·14	−2·89	0·10	17	1	−3·2	6 3	..	1	1	2	3	3	3	10	5	2	5	1	2	4	1	2	6	8	1	New Delhi.
−1·0	1·8		0·38	−0·88	0·23	24	2	−0·9	7·9	+2·0	0	0	0	1	2	11	11	2	1	1	3	2	0	0	6	7	6	1	Hissar.
																													Ambala (*R*).
−2·0	0·9		0	−2·28	0	..	0	−3·5	3·2	+0·8	0	3	1	4	2	9	2	4	5	3	4	0	2	0	8	5	8	0	Ludhiana.
−1·3	0·6		0·01	−1·63	0·01	15	0	−2·8	3·4	+0·9	0	1	4	4	2	8	2	0	9	1	1	0	1	3	3	15	2	3	Lahore.
−0·5	2·1		0·49	−1·90	0·29	30	2	−1·5	3·5	+1·1	1	11	5	8	0	1	0	0	4	0	18	0	1	1	4	1	4	1	Sialkot.
+0·3	3·8		0·43	−1·88	0·35	13	1	−2·3	3·5	+1·1	4	8	4	2	0	3	2	1	6	2	1	4	4	1	4	8	6	0	Rawalpindi.

(*R*) Register not received.

STATION.	Height of barometer cistern above mean sea level in feet.	Pressure at Station Level in Millibars. Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Wet bulb temperature °F. Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Vapour pressure, Millibars. Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.	Relative humidity, %. Mean 8 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
PUNJAB SOUTH WEST—																					
Khushab ..	616	974·8	—2·3	971·7	112·5	+5·9	124	9	85·8	+3·5	77	15	90·3	110·4	73·8	76·1	20·7	0	14·8	36	—10
Lyallpur ..	605	975·1	—1·5	972·2	110·4	+4·4	118	9	84·1	+2·4	73	17	89·9	109·3	73·2	75·7	20·4	—0·9	15·1	43	—5
Montgomery ..	558	977·3	—1·3	974·3	109·8	+2·0	114	9,25	84·2	+0·9	74	20	90·1	108·5	75·4	76·9	23·3	—3·4	17·7	47	—12
Leiah	490	979·3		975·4	115·5		121	9	87·6	..	81	15	91·5	110·7	74·6	78·3	21·1		18·7	41	..
Multan	413	981·5	—1·5	978·9	111·2	+4·6	115	9,24	86·8	+2·0	82	13	88·9	110·4	79·9	84·5	29·5	+2·7	28·5	64	+6
Fort Abbas ..	475	980·2	..	977·3	112·7	..	117	29	88·0	..	84	17,18, 19	89·5	110·9	78·7	83·9	28·6	..	19·8	61	..
Bahawalpur ..	384	983·2	—1·2	979·7	110·9	+2·5	114	1,21	85·9	+2·4	77	19	89·5	110·1	77·0	77·5	26·0	—1·9	17·5	55	—3
Khanpur ..	297	986·5	—1·1	983·0	112·2	+2·4	116	2	83·6	+0·6	78	15,19	87·1	111·0	80·5	90·9	32·4	+6·0	40·5	73	+13
KASHMIR—																					
Srinagar ..	5,205	837·3	+1·0	834·4	85·4	0	96	5	57·2	—0·1	49	16	65·8	81·0	60·4	64·7	16·0	—0·9	15·0	74	—4
Gulmarg ..	8,709	738·0	+0·7	..	67·0	—0·8	81	5	43·8	—1·4	36	16	53·8	..	49·9	..	11·0	—0·4	..	77	+6
Dras	10,059	703·4	+1·4	704·3	67·7	—2·6	74	9	20·3	—22·5	14	16	52·5	64·0	45·8	50·0	8·2	—0·7	7·9	63	0
Leh	11,529	667·6	+2·0	663·4	71·0	—0·3	82	27	42·9	—1·4	33	16	53·9	69·8	41·6	47·1	5·2	—0·9	4·1	39	—6
Skardu	7,505	759·0	..	755·7	81·9	+0·6	92	27	56·9	+0·8	46	16	63·3	78·2	53·2	56·2	10·2	—0·4	7·5	53	—3
Gilgit ..	4,890	846·8	..	843·4	89·6	—1·7	100	9,10	66·0	—0·3	58	16,17	73·2	84·5	61·9	62·9	14·2	—0·2	11·3	48	—9
Misgar	10,190	698·7	..	696·2	68·3	..	77	26 10	45·1	..	36	16	52·5	65·9	41·9	46·4	6·1	..	4·7	45	..
N. W. F. PROVINCE—																					
Peshawar	1,175	975·9	—1·3	954·3	106·8	+1·8	118	9	80·2	+3·0	71	1	89·4	104·0	69·1	72·4	16·0	—0·8	14·4	33	—6
Bannu	1,264	952.7	..	951·4	108·7	+2·6	119	9	85·3	+5·6	79	18	88·8	108·3	71·9	77·3	19·4	+0·4	17·6	43	—1
Miranshah ..	3,026	898·7	..	896·0	104·2	+5·3	115	9	80·5	+3·4	72	20	87·2	100·3	66·0	71·9	13·3	—2·8	14·9	31	—16
D. I. Khan ..	570	976·2	—1·7	972·7	112·1	+4·3	119	9	84·4	+2·9	78	19	90·1	110·2	73·1	78·4	20·0	—5·4	18·5	42	—14
BALUCHISTAN—																					
Fort Sandeman ..	4,614	853·0	+0·9	849·3	101·0	+1·8	106	9,26	74·7	+1·8	67	30	81·2	99·0	61·7	68·6	10·9	—1·8	11·4	30	—25
Loralai	4,699	847·9	..	845·9	97·8	..	103	10,27	67·7	..	60	17,19	75·5	95·9	53·5	60·0	5·2	..	3·0	17	..
Sibi	441	981·7	—0·3	976·8	117·2	+4·5	122	9,10	88·7	+1·2	79	19	93 4	115·2	74·1	77·7	19·7	—1·2	15·3	38	—4
Quetta	5,490	826·8	—0·8	824·5	92·0	..	97	5 days	54·6	..	48	17	70·2	90·4	56·1	62·1	10·4	—4·9	8·7	42	—13
Chaman	4,311	862·0	+0·6	860·8	97·3	—1·5	103	8,25 26	71·0	—1·2	65	15,16	79·5	95·6	59·3	69·8	9·3	—1·4	14·1	28	—1
Kalat	6,616	796·3	+0·7	794·7	86·7	—3·6	94	26	52·1	—5·6	45	16	68·3	84·1	49·1	54·3	5·2	—5·4	3·6	22	—19
Dalbandin ..	2,785	909.0	+0·8	906·4	106·0	—1·3	111	3,26	71·2	—1·8	65	18	79·2	104·5	64·2	78·1	14·4	+3·6	21·8	44	+15
Nokkundi ..	2,229	926·2	..	924·0	107·3	—2·0	114	3, 4, 23	79·8	—2·0	73	18,27	85·7	105·6	57·8	69·2	5·0	—14·1	9·4	13	—28
Las Bela	292	990·0	—0·3	985·3	109·8	+4·2	121	6	81·8	+1·4	78	17,19	85·2	105·2	81·1	88·5	34·6	+3·8	38·7	84	+6
Ormara	15	..	..	..	94·3	+1·6	108	6	81·3	—0·7	79	28 4 days	83·9	90·3	80·5	82·1	33·9	+0·8	34·1	86	0
Pasni	10	999·9	+0·3	996·8	94·9	+1·1	106	29	79·2	+0·7	77	5 days	82·9	90·3	79·5	81·6	32·7	—0·3	33·3	86	+1
Panjgur	3,177	897·6	+1·2	895·8	103·0	—0·2	108	4 days	73·8	—0·8	66	22	78·3	99·9	62·2	68·3	10·7	—6·0	10·9	39	—13
Jiwani	13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
SIND—																					
Jacobabad ..	186	990·2	—0·6	986·4	114·0	+0·1	118	10	82·9	—2·0	77	16,17, 20	86·8	113·1	76·3	77·6	26·2	—5·0	16·1	61	—5
Sukkur	221	988·9	—1·1	985·4	109·1	0	113	1,21 24	82·3	—1·1	80	25,26	85·1	107·9	76·9	79·9	28·2	—2·0	22·1	68	—1
Padidan	153	991·3	..	988·0	113·3	..	117	5 days	81·1	..	73	16,17	86·7	112·2	76·5	78·9	26·8	..	18·2	65	..
Umarkot	55	996·4	..	993·0	105·1	..	114	17	81·4	..	80	5 days	85·1	104·2	81·3	85·2	34·4	..	32·7	84	..
Hyderabad ..	96	994·3	—1·0	991·8	106·2	+1·7	119	15	82·5	+0·5	79	30	85·4	103·0	77·7	79·3	29·2	+1·0	23·7	70	+2
Karachi (Manora) ..	13	999·1	—0·5	997·0	88·3	—2·1	91	4 days	81·7	—0·6	78	22	83·1	87·0	79·2	81·3	32·1	—1·5	34·2	84	—2
Badin	31	998·6	—0·1	995·4	102·7	+1·7	120	15	82·7	+0·7	81	4 days	84·7	99·0	79·1	80·2	31·6	+0·5	26·3	77	+1

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or) more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION
											8 hrs. I.S.T.									17 hrs. I.S.T.								
Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 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
																													PUNJAB SOUTH WEST.—
1·4	—0·2	2·9	0·21	—1·20	0·21	14	1	—1·3	5·7	0	1	3	9	6	0	4	3	0	4	0	2	6	8	7	5	1	1	0	Khushab.
0·5	—1·7	0·8	0·17	—1·05	0·15	15	1	—1·1	3·5	+0·3	4	1	1	4	5	9	1	1	4	0	0	3	8	6	10	0	1	2	Lyallpur.
0·4	—0·9	0·7	0·05	—0·93	0·05	15	0	—1·6	2·9	—2·6	0	0	2	4	3	10	3	0	8	1	1	2	1	3	12	7	1	2	Montgomery.
1·2	..	2·3	0	..	0	..	0	..	8·4	..	5	3	0	2	5	5	2	8	0	1	2	8	4	6	10	2	2	0	Leiah.
0·3	—0·7	0·5	0	—0·55	0	..	0	—1·0	5·1	+2·5	3	0	0	0	22	3	0	1	1	5	0	0	1	14	8	0	0	2	Multan.
0	..	0·3	0	..	0	..	0	..	11·1	..	0	1	1	1	6	21	0	0	0	2	0	1	0	5	20	2	0	0	Fort Abbas.
0	—1·3	0	0	—0·28	0	..	0	—0·6	8·2	+3·0	1	1	0	0	9	16	0	0	3	0	0	1	0	1	24	1	2	1	Bahawalpur.
0·3	—0·9	0	0	—0·26	0	..	0	—0·6	8·7	+0·5	0	5	0	0	0	25	0	0	0	0	4	0	0	0	26	0	0	0	Khanpur.
																													KASHMIR—
2·0	—0·8	4·9	1·65	+0·25	0·71	6	4	+0·6	2·3	—0·3	0	1	1	4	4	0	3	4	13	1	1	1	2	1	1	1	3	19	Srinagar.
3·6	+0·2	..	4·62	+1·07	0·96	6	12	+4·2	4·3	+0·6	1	0	0	8	3	5	1	3	9	..	..	..	..	..	..	..	..	..	Gulmarg.
2·9	+0·1	5·8	1·54	+0·86	0·80	1	4	+2·0	4·2	—0·7	0	0	0	0	0	0	0	0	30	2	0	0	0	0	3	16	5	4	Dras.
3·8	—0·1	5·4	0·23	+0·05	0·18	1	1	+0·3	4·2	+1·7	0	2	1	2	5	4	2	0	14	0	2	1	0	2	7	15	0	3	Leh.
2·5	—0·7	4·8	0·17	—0·07	0·10	1	1	+0·3	5·5	+1·0	0	1	0	0	0	2	3	2	22	1	2	1	0	2	5	9	4	6	Skardu.
3·8	+0·8	6·0	0·80	+0·43	0·36	29	3	+1·7	1·3	+0·3	0	0	0	0	0	0	0	0	30	0	0	2	0	0	1	0	0	27	Gilgit.
4·2	..	5·2	0·52	..	0·20	28	3	..	7·0	..	0	4	7	1	0	1	4	13	0	0	0	14	6	0	2	3	5	0	Misgar. ..
																													N. W. F. PROVINCE—
2·5	+0·4	4·4	0·06	—0·25	0·06	30	0	—0·9	5·8	+3·3	4	1	2	9	2	3	2	1	6	2	9	5	1	1	3	5	3	1	Peshawar.
1·7	0	2·3	0	—0·91	0	..	0	—1·5	4·4	..	3	1	3	2	1	1	0	17	2	0	2	1	20	3	0	1	2	1	Bannu.
0·7	—0·5	2·5	0·01	—0·90	0·01	28	0	—1·6	5·7	—0·3	0	0	1	0	0	1	7	1	20	0	1	10	8	5	1	0	1	4	Miranshah.
0·8	—0·6	0·4	0	—0·61	0	..	0	—1·3	3·1	+1·0	6	11	0	1	0	0	0	0	12	0	11	4	5	6	1	0	0	3	D. I. Khan.
																													BALUCHISTAN—
0·6	—0·3	1·8	0·24	—0·40	0·24	30	1	—0·3	4·1	+0·9	1	3	2	0	0	5	6	1	12	3	2	2	3	3	4	7	6	0	Fort Sandeman.
0·2	..	1·4	0	—0·35	0	..	0	—0·1	6·1	..	0	0	0	0	0	1	24	5	0	0	4	2	6	7	7	2	2	0	Loralai.
0·1	—0·5	0·2	0	—0·30	0	..	0	—0·5	6·3	+0·7	4	0	0	2	8	6	2	2	6	1	0	1	9	8	2	5	3	1	Sibi.
0	—0·6	0·4	0	..	0	..	0	..	3·9	+1·4	1	1	3	0	1	1	2	0	21	11	2	0	0	1	2	3	8	3	Quetta.
0	—0·5	0·3	0	—0·02	0	..	0	0	7·0	+1·2	0	0	2	10	3	12	0	0	3	0	0	0	0	0	11	0	19	0	Chaman.
0·2	—0·4	1·0	0	—0·19	0	..	0	—0·4	7·7	+2·6	1	0	0	5	19	1	0	2	2	3	1	0	1	0	0	7	18	0	Kalat.
0·7	0	1·5	0	—0·01	0	..	0	0	6·5	+1·0	0	1	1	1	0	0	3	2	22	2	1	1	4	2	4	4	12	0	Dalbandin.
1·2	+0·5	0·5	0	0	0	..	0	0	13·4	+1·0	10	3	2	2	1	2	1	9	0	10	3	1	0	0	0	2	14	0	Nokkundi.
2·0	—1·9	0·3	0	—0·42	0	..	0	—1·2	4·7	+0·9	0	0	1	2	8	6	0	2	11	0	0	0	8	16	1	1	4	0	Las Bela.
3·8	—0·8	0·4	0	—0·03	0	..	0	—0·2	14·3	+4·2	0	0	2	0	0	11	16	0	1	0	0	0	1	0	13	16	0	0	Ormara.
3·3	—0·4	0·8	0	—0·26	0	..	0	—0·2	9·2	+1·6	0	0	5	3	0	5	7	6	4	0	0	0	1	1	15	12	1	0	Pasni.
0·5	—0·2	1·5	0	—0·12	0	..	0	—0·4	6·3	+0·8	2	5	0	0	0	1	3	5	9	9	2	0	0	0	2	4	12	1	Panjgur.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Jiwani.
																													SIND—
0	—0·7	0	0	—0·26	0	..	0	—0·3	8·2	+1·1	0	0	5	18	4	1	1	1	0	1	2	0		10	5	2	4	0	Jacobabad.
0·5	—0·1	0	0	—0·14	0	..	0	—0·5	4·1	—0·7	2	1	1	9	3	12	0	0	2	0	1	1	3	12	6	4	0	3	Sukkur.
0·2	..	0·1	0	..	0	..	0	..	9·8	..	0	1	2	15	11	1	1	0	1	0	2	3	11	1	1	1	2	9	Pad Idan.
5·0	..	0·3	0	..	0	..	0	..	14·0	..	0	0	2	0	12	18	0	0	0	0	0	0	0	4	21	3	1	1	Umarkot.
3·1	+0·6	0·2	0	—0·39	0	..	0	—0·6	11·6	+0·4	0	0	0	0	11	16	2	0	1	0	2	2	1	11	13	1	0	0	Hyderabad.
3·4	—0·2	3·3	0	—0·72	0	..	0	—0·6	13·3	+0·6	0	0	0	0	0	11	17	2	0	0	0	0	0	0	19	11	0	0	Karachi (Manora).
1·0	+0·1	0·2	0	—0·65	0	..	0	—0·8	11·9	..	0	0	0	0	1	27	2	0	0	0	0	0	0	1	21	5	3	0	Badin.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	2
RAJPUTANA WEST—																						
Sri Ganganagar ..	580	976·8	..	973·6	110·7	+3·8	115	1	85·3	+4·0	75	20	92·7	108·4	73·9	75·0	20·9	—0·4	16·0	40	—9	
Bikaner	734	973·5	—0·4	969·8	109·6	..	113	19	86·3	..	82	26	89·2	108·9	71·1	80·6	17·9	..	22·7	39	..	
Phalodi	800	972·0	..	971·1	107·3	..	111	1, 19	82·8	..	79	25	84·0	106·3	..	..	..	..	..	..	..	
Jodhpur	736	975·5	+1·5	971·5	104·6	+1·0	108	19	83·3	+1·0	80	24,26	86·3	103·6	75·3	75·2	25·4	+0·7	16·9	61	—2	
Barmer	638	978·4	..	974·6	105·1	+1·7	110	20	80·8	+0·5	79	7 days	83·6	104·2	77·2	78·1	29·0	+0·1	20·9	74	+1	
RAJPUTANA EAST—																						
Sikar	1,406	951·8	..	948·4	107·3	..	111	22	84·9	..	78	16	88·2	104·9	75·1	75·2	23·8	..	16·3	52	..	
Jaipur	1,431	951·7	—0·7	948·6	105·9	+2·8	109	6 days	83·4	+3·0	79	19	89·1	101·7	73·9	73·5	21·7	—0·5	15·4	46	—6	
Ajmer	1,593	946·9	—0·6	943·4	103·3	+2·9	106	19,21	83·9	+2·0	80	24,25, 26	86·2	101·6	77·4	76·9	28·5	+4·3	21·3	66	+7	
Kotah	843	971·5	—0·2	967·6	106·7	+1·9	111	1	87·4	+2·3	81	29	90·1	103·2	76·3	75·7	24·7	+1·5	17·8	51	+1	
Brijnagar	1,053	964·7	—0·4	960·9	103·8	+2·2	108	1,23	83·4	+2·2	76	30	86·2	101·5	75·2	75·0	24·9	—2·8	17·6	58	—8	
Rajsamand ..	1,882	939·1	..	936·2	100·4	..	103	4 days	80·3	..	78	17,19	83·1	96·9	73·9	73·4	24·8	..	18·5	64	..	
GUJARAT—																						
Deesa (*E*)	466																					
Bhuj	343	989·9	+0·3	987·4	96·3	—1·0	104	16	81·4	+1·7	79	29,30	83·9	93·6	77·8	77·8	29·9	0	25·4	74	+1	
Dwarka	37	1000·9	0	999·1	89·4	+0·1	91	9	83·3	+0·9	82	6 days	84·3	87·5	79·6	80·9	32·3	—0·3	33·2	80	—5	
Jamnagar ..	60	1000·6	+0·9	..	96·4	+0·5	101	7, 14	82·4	+2·3	79	28	86·9	..	80·4	..	32·5	+1·1	..	75	—2	
Rajkot	432	987·5	—0·1	984·2	101·9	+2·5	105	17	80·5	+2·3	77	28,30	83·9	98·5	78·2	78·7	30·3	+1·1	24·5	77	0	
Veraval	26	1002.4	0	1000·5	89·1	..	91	8,9,12	83·1	..	82	22,23, 28	84·6	87·5	81·8	83·8	35·9	..	37·8	88	+3	
Surat	39	1002·6	+0·5	1000·3	93·4	+0·6	96	8	83·0	+3·1	82	7 days	85·4	90·4	80·0	82·4	32·4	+1·6	34 2	78	+1	
Bhavnagar ..	55	1001·6	+0·5	997·2	102·0	+2·2	107	19	81·6	+1·4	77	22	84·6	99·6	77·7	78·8	29·1	+0·1	24·2	71	+1	
Ahmedabad ..	163	997·6	+0·4	992·8	101·6	—0·2	103	8 days	82·6	+1·6	78	27	85·6	100·2	78·1	78·8	29·5	+0·2	23·7	70	—3	
Dohad	1,093	966·9	..	963·4	98·5	+1·3	101	48	80·0	+1·5	79	5 days	81·9	96·6	75·3	75·5	27·0	—1·8	20·6	73	—5	
Baroda ..	115	999·6	..	995·3	100·3	+2·6	103	27	82·9	+3·1	81	1,19 28	85·5	98·3	78·6	77·3	30·3	+0·5	25·5	72	—7	
CENTRAL INDIA, WEST—																						
Neemuch	1,626	947·1	—0·1	944·0	100·2	+1·8	104	23	80·5	+2·7	76	8	82·5	98·4	75·2	75·5	26·6	+0·5	19·7	71	+1	
Indore	1,823	941·4	0	937·9	97·1	+1·5	102	1,7	76·8	+1·1	70	18	79·8	94·9	73·7	74·6	25·7	+0·5	20·1	75	+3	
Bhopal ..	1,643	946·5	—0·1	944·0	98·7	+1·4	104	1, 23	79·3	+1·8	73	8, 9, 30	82·4	94·1	73·9	74·4	25·1	+1·4	21·0	67	+1	
Guna	1,571	947·8	—0·4	945·5	102·7	+2·4	110	2	81·1	+1·9	76	29,30	84·5	97·9	72·5	73·3	22·4	—0·5	18·0	54	—5	
Gwalior ..	681	975·6	..	972·2	108·2	..	114	1,22, 23	91·0	..	78	30	94·9	104·4	75·2	75·4	20·9	..	16·9	38	..	
Madhosagar ..	757	972·8	..	969·4	106·8	..	113	21,22	87·1	..	74	29	92·6	102·7	76·9	76·7	24·3	..	20·3	48	..	
CENTRAL INDIA, EAST—																						
Nowgong ..	750	973·7	—0·6	970·0	106·0	+3·2	113	22,23	85·0	+2·3	76	29,30	91·0	100·7	77·3	77·8	25·8	+0·6	22·1	53	—4	
Sutna	1,041	963·4	—1·0	960·7	104·9	+4·4	112	4 days	83·2	+1·4	72	5	89·1	100·1	75·0	76·5	23·3	—0·3	20·4	51	—4	
Umaria	1,506	948·9	..	945·9	102·2	+4·3	109	1,2,23	83·8	+4·2	76	28,29, 30	87·2	97·4	73·4	74·6	22·5	—1·2	20·0	52	—9	
BERAR—																						
Akola	925	970·9	—0·6	966·6	101·7	+2·7	107	1,2,7	82·1	+3·8	72	29	83·7	98·9	74·2	74·7	24·6	—0·3	18·3	63	—4	
Amraoti	1,213	961·4	—0·1	957·2	101·3	+3·1	108	1,2	80·7	+3·0	71	29	83·6	97·0	74·9	78·9	25·6	+0·7	25·5	66	—2	

(*E*) Register not received.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													RAJPUTANA, WEST—
0	—0·9	0·2	0	—2·99	0	..	0	—2·7	7·7	—0·8	0	0	1	2	0	22	1	0	4	0	0	1	0	0	14	9	1	5	Sri Ganganagar.
0	—1·6	0·7	0	—1·21	0	..	0	—2·2	4·1	—3·4	0	0	0	0	1	26	1	2	0	0	0	0	0	0	24	3	2	1	Bikaner.
0·9	..	0·5	0	—0·92	0	..	0	—1·6	17·9	..	0	0	0	0	6	23	0	1	0	0	0	0	0	7	21	2	0	0	Phalodi.
1·4	—2·1	0·8	0	—1·47	0	..	0	—2·1	9·8	—2·8	0	0	0	0	0	16	13	1	0	0	0	0	0	1	18	11	0	0	Jodhpur.
3·2	—0·6	0·3	0	—1·10	0	..	0	—1·5	8·5	+0·3	0	0	0	0	6	21	3	0	0	0	0	0	0	7	20	3	0	0	Barmer.
																													RAJPUTANA, EAST—
1·2	..	2·9	0·20	..	0·20	7	1	..	7·3	..	0	0	1	0	2	7	19	1	0	1	0	1	2	0	7	18	1	0	Sikar.
2·2	—0·5	4·3	0·15	—2·09	0·10	30	1	—2·9	6·8	+0·9	0	0	0	0	1	15	9	5	0	1	0	1	2	4	10	10	1	1	Jaipur.
1·3	—1·5	2·3	0·01	—2·42	0·01	18	0	—2·7	11·9	+4·6	0	0	0	0	0	16	14	0	0	0	0	0	0	0	14	16	0	0	Ajmer.
3·4	+0·2	4·2	0·74	—1·90	0·45	29	2	—2·1	8·0	+3·0	0	0	0	0	0	12	16	2	0	0	1	2	1	0	9	12	2	3	Kotah.
3·2	—0·7	3·8	1·45	—2·99	1·16	9	2	—5·1	9·3	+3·0	0	0	0	0	0	10	19	1	0	1	1	0	1	1	7	15	3	1	Bijnagar.
1·3	..	4·0	0·16	..	0·10	17	1	..	8·3	..	0	0	0	0	0	9	13	0	1	2	0	1	0	2	5	10	3	0	Rajsamand.
																													GUJARAT—
																													Deesa. (*R*)
3·9	—1·2	2·7	0	—1·38	0	..	0	—1·9	14·0	+2·3	0	0	0	0	0	16	14	0	0	0	0	0	0	0	12	18	0	0	Bhuj.
4·8	—0·6	4·1	0	—2·01	0	..	0	—2·3	18·0	+4·9	0	0	0	0	0	9	20	1	0	0	0	0	0	0	9	21	0	0	Dwarka.
7·4	+2·6	..	0·08	—2·49	0·05	28	0	—3·0	14·2	—0·6	0	0	0	0	0	15	15	0	0	..	..	..	..	..	..	..	..	..	Jamnagar.
4·3	—2·0	3·4	0·02	—4·08	0·02	28	0	—4·8	18·5	+6·8	0	0	0	0	3	17	9	1	0	0	0	0	0	1	14	13	2	0	Rajkot.
4·5	—1·4	3·5	0·03	—4·63	0·02	6	0	—3·9	19·1	..	0	0	0	0	0	11	18	1	0	0	0	0	0	0	11	18	1	0	Veraval.
7·2	+0·1	4·6	0·13	—8·49	0·08	4	0	—8·0	9·3	+1·9	0	0	0	0	2	22	6	0	0	0	0	0	0	7	23	0	0	0	Surat.
2·1	—4·2	5·0	1·09	—2·81	1·05	22	1	—3·7	9·2	+1·3	0	0	0	0	3	16	11	0	0	0	0	0	0	9	14	7	0	0	Bhavnagar.
4·6	—1·4	3·7	0·35	—3·31	0·26	27	1	—3·7	6·9	+1·4	0	0	0	0	4	17	8	1	0	0	0	0	0	5	13	9	3	0	Ahmedabad.
9·9	+3·1	3·9	0	—3·53	0	..	0	—5·0	23·0	+12·9	0	0	0	0	0	15	15	0	0	0	0	0	0	1	12	17	0	0	Dohad.
4·0	—1·8	3·4	0	—6·41	0	..	0	—6·7	7·6	+0·9	0	0	0	0	0	15	14	1	0	0	0	0	0	0	18	12	0	0	Baroda.
																													CENTRAL INDIA, WEST—
4·3	+0·2	3·4	0·17	—4·06	0·14	8	1	—3·8	12·9	+3·5	0	0	0	0	0	12	17	1	0	0	2	0	0	0	12	16	0	0	Neemuch.
4·6	—0·8	4·2	1·12	—4·68	0·47	18	4	—3·3	7·8	+1·7	2	0	0	0	0	7	20	1	0	1	1	0	0	0	10	15	3	0	Indore.
3·9	—1·2	6·1	3·41	—3·42	1·10	30	6	—3·4	7·8	+2·0	0	0	0	0	1	8	18	3	0	1	1	1	0	1	4	19	2	1	Bhopal.
3·8	+0·6	4·9	0·88	—5·15	0·49	19	3	—4·2	9·8	+2·6	1	0	0	0	1	17	10	0	1	2	0	0	0	0	11	10	5	2	Guna.
4·2	..	5·0	0·79	..	0·27	29	4	..	5·8	..	0	1	0	0	1	5	15	6	2	1	2	0	0	0	4	7	8	8	Gwalior.
3·7	..	5·7	4·06	..	2·08	29	4	..	10·2	..	1	2	1	0	1	9	7	5	0	2	2	1	0	0	7	10	8	0	Madhosagar.
																													CENTRAL INDIA, EAST—
3·6	—1·4	5·8	4·50	—0·94	3·56	29	4	—2·1	5·8	+2·2	1	0	0	0	0	18	8	1	2	3	1	0	1	0	15	2	8	0	Nowgong.
6·3	+1·3	6·5	4·19	—1·35	2·38	30	6	—0·3	6·0	+0·3	1	2	2	1	0	12	10	1	1	0	0	0	0	0	6	15	9	0	Sutna.
4·7	—1·7	5·6	2·14	—4·98	0·51	29	6	—4·0	5·2	+0·8	0	0	1	0	1	6	22	0	0	3	0	1	0	0	3	15	8	0	Umaria.
																													BERAR—
3·7	—2·2	5·5	3·01	—1·52	1·40	22	4	—4·1	11·1	+2·4	0	0	0	0	0	1	21	8	0	3	0	0	0	0	2	11	14	0	Akola.
5·0	—0·7	6·0	2·24	—3·31	0·95	29	5	+3·7	11·9	+4·5	0	0	0	0	0	18	0	12	0	2	3	0	0	0	14	1	10	0	Amraoti.

(*R*) Register not received.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
C. P., West—																						
Khandwa ..	1,044	966·9	—0·2	962·5	101·7	+2·9	107	6,15, 16	81·2	+2·4	75	29,30	84·5	99·0	74·6	75·6	24·8	—0·4	19·6	60	—8	3
Hoshangabad ..	992	968·1	—0·2	963·7	100·8	+2·1	106	1	81·2	+1·5	72	20,21	84·3	97·5	74·6	75·8	24·9	—0·1	20·6	62	—4	3
Saugor	1,808	939·8	—0·3	936·8	99·2	+0·8	107	23	79·4	+1·3	71	8,9	82·4	92·4	72·0	73·5	22·6	+0·4	20·7	60	0	4
Jubbulpore ..	1,289	967·0	—0·2	963·1	101·8	+3·7	109	23	81·1	+2·5	72	16	86·3	95·7	73·2	74·6	22·6	—0·4	20·7	53	—5	3
Seoni	2,027	933·8	+0·1	930·4	99·5	+4·4	108	1	77·0	+1·7	71	29	84·5	92·6	73·1	73·7	23·2	+0·5	20·6	59	—4	4
Nagpur ..	1,202	966·6	—0·6	962·6	103·4	+3·9	111	1	81·9	+2·2	72	29	87·7	97·5	74·6	75·7	23·3	—1·4	20·5	54	—9	3
C.P. East—																						
Gondia ..	1,026	966·7	..	962·3	102·5	..	110	2	82·0	..	74	28,29, 30	86·8	97·7	77·8	80·9	28·5	..	28·3	67	..	4
Pendra ..	2,040	932·0	—0·5	928·6	100·2	+7·1	108	2	80·2	+4·5	73	7	86·6	94·8	72·6	73·3	21·6	—1·8	19·2	52	—13	3
Champa ..	805	972·8	..	968·6	105·3	..	114	2	83·4	..	76	11	87·1	00·4	75·4	76·8	24·4	..	20·8	56	..	3
Raipur ..	970	967·5	—0·6	954·0	103·7	+5·8	112	2	82·2	+3·1	75	5 days	87·[illegible]	99·0	75·1	76·9	24·1	0·7	21·6	56	—8	3
Titlagarh ..	691	976·9	..	972·8	100·5	..	113	2	80·9	..	75	9,27, 28	84·9	95·3	75·3	76·9	25·6	..	23·2	63	..	4
Kanker	1,318	957·0	—0·3	953·3	98·3	+3·5	107	2,5	79·1	+1·2	73	0,29, 30	87·2	95·7	75·8	77·6	25·6	+0·9	24·0	59	—7	4
Chanda	634	980·6	—0·2	976·0	101·9	+2·2	112	1	82·5	+2·6	73	29	86·7	98·4	79·0	84·9	30·4	+5·4	34·8	71	+9	[illegible]
Jagdalpur ..	1,815	941·2	—0·5	938·1	94·1	+2·4	106	4,5,6	74·9	+0·5	69	25	80·[illegible]	86·9	73·9	74·6	25·9	0	24·2	75	+1	[illegible]
Konkan—																						
Dahanu	15	1004·1	..	1002·1	92·5	..	94	5 days	82·5	..	79	22	85·8	90·4	83·0	85·8	37·4	..	40·3	87	..	
Bombay	35	1003·8	+0·1	1002·0	91·9	+3·4	95	10	81·4	+2·8	77	12	84·7	88·6	79·4	80·6	32·0	+1·1	32·1	78	—4	
Alibag	23	1005·2	+0·6	..	89·6	+2·5	92	2,3,7	80·2	+1·7	74	24	83·6	..	79·4	..	32·3	+1·2	..	82	+1	
Harnai	66	1002·9	..	1001·2	87·6	..	89	9 days	79·5	..	73	24	82·9	85·2	78·6	79·0	31·6	..	32·6	82	..	
Devgad	110	1002·6	..	1000·6	88·1	..	95	3	78·8	..	73	23,24	81·9	84·7	78·8	80·0	32·4	..	33·3	87	..	
Marmagao ..	202	1000·4	+0·8	998·0	85·6	+1·0	90	2,3	76·5	+0·3	72	26	81·2	82·6	77·4	77·7	32·5	+0·9	30·0	84	—3	
Honavar	85	1005·4	..	1003·5	85·4	..	92	1,3	75·5	..	72	23	78·2	81·7	76·5	77·8	30·3	..	30·6	93	..	
Bombay Deccan—																						
Jalgaon	660	981·0	..	976·9	103·4	..	107	1	80·6	..	75	22	84·8	101·3	76·5	77·5	27·4	..	21·4	67	..	
Malegaon	1,432	955·4	+0·1	951·7	100·1	+3·8	105	8	76·6	+1·5	71	1	82·6	95·7	74·1	74·4	24·9	0	19·4	65	—6	
Ahmednagar ..	2,154	932·3	—0·3	928·8	96·2	+3·9	104	2	72·6	+0·6	68	2	78·5	91·4	71·7	73·8	23·9	+0·5	21·5	72	—2	
Poona	1,834	943·7	+0·5	941·2	91·9	+2·5	97	1	75·1	+1·6	72	1	79·1	86·9	72·1	73·5	24·1	+0·2	22·7	70	—6	
Sholapur	1,570	952·6	+0·6	948·3	98·1	+2·9	107	1,2	74·1	+0·3	71	2,22,23	78·4	92·4	72·9	74·4	25·4	+2·0	21·7	76	+5	
Miraj	1,817	944·7	—0·2	941·7	92·7	+4·5	99	2	73·8	+1·9	71	24,26	77·0	86·3	73·3	74·7	27·5	+2·6	24·8	84	+1	
Bijapur	1,950	941·0	+1·1	937·0	93·8	+1·7	102	2	74·2	+2·1	71	1	76·6	89·7	71·8	72·9	24·6	+0·9	20·8	77	+1	
Belgaum	2,562	921·1	+0·3	919·1	82·6	+1·0	90	1	68·9	+0·6	66	24	72·1	77·8	70·1	71·2	24·3	+0·9	23·4	91	+2	
Gadag	2,131	935·4	+0·3	932·4	91·0	+3·1	99	1,2,25	72·0	+0·8	70	7 days	75·8	84·1	72·6	76·0	25·9	+1·7	27·5	85	+1	
Hyderabad North—																						
Aurangabad ..	1,905	940·8	+0·1	936·7	98·2	+4·0	103	1,2	74·6	+1·6	72	1	79·1	93·4	73·4	75·5	25·8	+1·9	22·8	75	0	
Parbhani	1,350	957·2	..	952·6	101·7	..	109	2	77·3	..	71	23	81·7	98·0	73·3	74·3	24·1	..	18·1	66	..	
Bidar	2,178	931·1	..	928·0	..	..	..	..	74·0	+1·7	70	24	78·2	87·7	70·9	72·0	22·9	—1·4	19·4	70	—7	
Nizambad ..	1,250	961·1	—0·5	956·9	100·6	+3·6	110	1	79·7	+2·3	74	22,24	82·7	96·5	72·5	74·9	22·6	—2·0	19·9	59	—10	
Pedapalli* ..	755																					
Hyderabad South—																						
Gulbarga	1,503	954·6	+0·4	949·8	97·0	+1·2	106	1,2	75·7	+1·5	72	22,23, 25	79·2	93·5	73·3	74·8	25·5	+1·6	21·8	75	+1	
Raichur	1,311	961·3	+0·3	956·6	96·6	+1·3	106	1,2	77·0	+2·1	73	10	79·7	94·1	74·2	76·6	26·4	+1·7	24·0	76	+4	
Hyderabad (Begumpet)	1,778	944·5	+0·2	940·8	96·8	+2·2	107	2	77·6	+2·4	73	8,23	80·2	89·7	72·9	75·2	24·7	—0·5	23·9	71	—3	
Hanamkonda ..	881	972·9	—0·6	968·9	100·7	+3·4	110	1,3	82·4	+2·9	75	22	85·8	96·4	74·3	76·2	23·7	—0·5	21·6	57	—5	
Khammameth ..	367	990·5	..	986·0	102·2	..	112	6	82·4	..	72	22	87·7	99·0	81·7	85·3	34·2	..	36·0	78	..	

Cloud amount. (tenths of sky.).			Rainfall, inches.				Number of rainy days. (0·10" or more		Wind velocity, miles per hour.		Wind direction—Number of winds from—																	STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 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	Calms	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
																													C.P., WEST—
5·5	+0·3	6·7	0·74	—4·86	[illegible]·6	29	2	—5·0	..	..	1	0	0	0	0	1	22	6	0	2	0	1	0	2	7	9	9	0	Khandwa.
4·6	+0·9	7·2	4·60	—1·27	1·24	8	7	—1·2	4·9	+1·0	0	0	0	0	0	12	18	0	0	2	1	0	0	1	8	15	3	0	Hoshangabad.
5·4	+0·7	7·1	4·42	—1·77	1·20	10	8	—0·1	12·4	+0·4	0	0	0	0	1	8	18	3	0	1	1	1	1	2	6	10	8	0	Saugor.
5·3	+0·4	6·7	5·73	—1·30	3·25	29	9	+0·2	7·0	+3·4	0	0	0	0	1	9	17	1	2	2	2	0	1	0	9	7	9	0	Jubbulpore.
8·6	+3·2	6·6	4·85	—3·71	1·43	28	10	—1·1	4·4	0	3	2	0	0	0	4	12	6	3	6	1	1	2	4	3	5	8	0	Seoni.
6·8	+0·3	7·7	5·27	—3·55	2·07	28	9	—1·2	5·9	—1·1	3	0	1	0	1	5	14	6	0	4	1	0	0	0	7	12	6	0	Nagpur.
																													C.P. EAST—
4·5	..	6·0	4·28	..	2·30	28	6	..	5·0	..	0	3	0	0	2	14	8	3	0	5	0	0	2	1	8	8	6	0	Gondia.
4·9	—0·5	6·9	3·42	—4·51	1·45	30	3	—8·7	6·9	+2·0	2	1	1	1	8	2	4	9	2	9	0	2	0	3	3	6	7	0	Pendra.
5·9	..	7·9	4·97	..	2·54	28	6	..	7·6	..	1	1	1	0	2	9	11	3	2	5	3	1	0	2	5	4	10	0	Champa.
5·3	—0·9	7·5	4·48	—4·58	0·98	28	8	—1·7	7·9	+1·6	0	1	0	0	0	15	1	5	7	1	4	0	1	0	8	1	12	3	Rajpur.
5·3	..	6·1	9·02	..	2·64	27	12	..	5·2	..	1	0	1	1	10	12	2	1	2	2	1	0	3	8	8	5	3	0	Titlagarh.
7·2	—0·3	7·9	6·31	—4·09	2·51	10	7	—3·3	7·4	+2·1	1	0	0	1	0	14	5	0	9	0	0	0	0	0	13	14	1	2	Kanker.
5·6	—0·3	7·2	5·37	—2·68	1·39	29	10	—0·2	7·4	+2·1	0	0	0	1	0	9	1	18	1	0	0	0	3	0	7	4	15	1	Chanda.
5·8	—0·4	8·0	8·53	—1·14	2·15	27	11	—0·3	7·3	+3·4	0	1	0	0	0	24	0	0	5	0	2	0	2	0	20	0	3	3	Jagdalpur.
																													KONKAN—
8·2	..	6·9	1·01	..	0·36	22	2	..	14·9	..	0	0	1	2	0	11	16	0	0	0	0	0	0	0	11	18	0	1	Dahanu.
6·1	—1·1	6·6	3·61	—15·45	0·66	12	9	—5·6	10·0	+0·6	1	0	0	0	0	0	11	16	2	3	0	0	0	0	1	11	15	0	Bombay.
7·1	—0·9	..	5·78	—17·81	1·45	22	11	—5·7	11·9	—0·6	0	0	5	3	1	10	7	2	1	..	..	..	..	..	..	..	..	..	Alibag.
..	..	..	12·84	..	4·27	27	16	..	9·6	..	1	0	3	4	2	8	9	3	0	0	0	0	3	2	9	13	3	0	Harnai.
6·8	..	6·5	11·37	..	2·42	10	15	..	11·1	..	0	0	5	4	1	1	3	15	1	2	1	0	1	0	4	9	13	0	Devgad.
7·1	—0·7	7·2	30·15	—1·94	6·36	9	20	—3·0	9·9	+1·8	0	1	4	5	5	3	8	4	0	2	1	0	0	3	4	11	8	0	Marmagao.
8·3	..	7·9 (b)	28·97	—11·71	3·83	9	24	+0·1	2·3	..	0	0	7	6	0	0	7	1	9	1	0	1	3	2	2	8	4	9	Honavar.
																													BOMBAY DECCAN—
4·6	..	4·9	1·57	—3·53	1·43	7	1	—6·3	14·1	..	0	0	0	0	0	2	13	15	0	3	0	0	0	4	9	12	11	0	Jalgaon.
1·9	—3·7	4·1	4·07	—0·28	1·34	18	5	—1·7	9·7	+0·3	0	0	0	0	0	0	28	2	0	0	1	1	0	0	3	20	5	0	Malegaon.
3·0	—2·6	5·0	3·33	—1·90	2·25	8	6	—1·5	7·6	—0·7	0	0	0	0	0	5	2	23	0	0	)	0	0	0	5	0	25	0	Ahmednagar.
5·5	—1·2	5·7	0·05	—4·45	0·04	10	0	—7·3	5·7	—4·1	0	0	0	0	0	0	28	0	2	0	0	0	0	0	0	28	1	1	Poona.
5·8	—0·4	7·7	5·50	+1·06	1·71	23	7	+0·5	7·2	—2·4	1	0	0	0	0	13	7	7	2	2	0	0	0	0	13	9	5	1	Sholapur.
5·0	—2·9	6·3	0·56	—1·15	0·45	29	3	—2·9	11·6	+1·8	0	0	0	0	0	3	22	5	0	0	1	0	0	0	1	25	3	0	Miraj.
3·6	—2·7	5·0	3·94	+0·92	0·90	19	6	+0·6	8·9	+0·3	0	0	0	0	0	9	16	5	0	4	0	0	0	2	7	8	9	0	Bijapur.
5·5	—2·5	6·4	3·29	—4·81	1·24	9	8	—4·9	6·0	+0·1	0	0	0	0	0	29	1	0	0	0	0	0	0	0	30	0	0	0	Belgaum.
7·3	+0·6	7·8	1·72	—0·95	0·74	19	4	—1·6	11·8	+1·0	0	0	0	0	0	11	16	3	0	0	0	0	0	0	12	15	3	0	Gadag.
																													HYDERABAD NORTH—
2·4	—4·5	4·7	1·34	—4·10	0·78	24	3	—4·7	15·6	+4·3	0	0	0	0	0	1	28	1	0	1	0	0	0	0	2	23	4	0	Aurangabad.
4·9	..	5·7	3·92	—1·59	1·51	23	5	—2·8	..	..	0	0	0	0	1	2	20	7	0	2	1	0	0	0	3	17	7	0	Parbhani.
6·0	+0·3	7·9	5·11	+0·50	1·26	10	8	+0·9	12·1	—0·5	0	0	0	0	3	5	15	7	0	1	0	0	0	4	9	10	6	0	Bidar.
5·4	—0·3	6·3	0·60	—5·21	0·33	22	2	—6·7	7·1	+1·3	1	0	0	0	0	15	13	0	1	1	1	0	0	0	14	8	4	2	Nizamabad. Pedapalli*
																													HYDERABAD SOUTH—
6·3	+0·3	7·7	6·78	+2·34	3·39	27	6	—0·9	11·6	+1·5	0	0	0	0	0	7	18	5	0	2	0	0	1	1	8	9	9	0	Gulbarga.
6·8	+1·8	6·7	3·03	—0·59	0·61	21	7	+1·0	12·8	+2·7	0	0	0	0	0	9	13	8	0	0	0	0	0	0	7	7	16	0	Raichur.
6·4	—0·3	7·8	2·68	—1·73	1·68	8	4	—2·5	11·7	+2·0	0	0	0	0	0	0	20	9	1	1	0	0	0		1	14	8	0	Hyderabad (Begumpet).
5·8	—0·6	7·3	2·29	—3·72	0·85	17	6	—0·4	8·8	+1·7	1	1	0	2	2	0	14	10	0	2	0	1	2		2	9	11	1	Hanamkonda.
5·2	..	5·7	3·64	..	3·08	22	3	..	6·9	..	1	0	0	2	0	2	18	7	0	4	1	0	0	0	3	11	11	0	Khammamett.

M/N19DGOB

* Data not reliable. (b) Mean of 29 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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MYSORE—																						
Chitaldrug ..	2,405	926·4	+0·4	923·6	87·7	+0·6	97	1	71·0	+0·8	69	5 days	73·5	82·5	69·7	71·4	23·3	+0·7	21·8	82	+2	
Hassan	3,149	903·5	..	901·6	82·6	+1·6	91	1	67·4	+1·0	65	7,23	71·3	75·9	68·0	68·7	22·0	+0·4	21·0	84	—1	
Bangalore ..	3,021	907·1	+0·1	904·4	84·6	+0·2	93	1	68·0	+1·3	66	6,9,10	70·4	79·5	67·9	69·2	22·3	+0·7	20·3	88	+5	
Mysore	2,518	923·8	+0·2	921·6	84·6	—0·3	93	1	68·7	+0·6	67	4 days	71·9	80·5	68·9	70·9	22·9	+0·8	22·0	85	+4	
MALABAR—																						
Mangalore ..	72	1006·1	+0·4	1004·0	85·1	+0·5	90	1,2	75·6	+0·7	73	4 days	78·5	81·8	76·1	77·8	29·6	+0·2	30·7	90	0	
Calicut	27	1007·7	—0·1	1005·7	86·1	+1·4	93	1,2	74·8	—0·3	72	2	77·0	82·9	75·4	77·9	29·3	0	30·4	92	0	
Palghat ..	319	997·7	..	995·3	85·6	..	94	1	74·6	..	71	3	76·7	80·8	75·1	77·0	29·1	..	30·0	92	..	
Cochin	10	1008·9	—0·5	1006·9	84·8	+0·6	89	1, 2	74·9	—0·2	73	4 days	77·9	81·1	76·1	77·2	29·9	+0·8	30·1	92	+3	
Alleppey ..	12	1008·7	..	1006·8	86·3	..	91	1,4	75·1	..	71	6	78·5	82·3	77·1	78·0	31·2	..	30·8	94	..	
Trivandrum ..	211	1002·0	—0·1	1000·0	85·4	..	89	1	74·7	..	72	5,7	77·1	81·5	75·6	77·2	29·6	+1·0	29·9	93	+4	
Nagercoil ..	195	1002·0	..	999·9	87·0	..	91	1	76·5	..	74	6,8	79·2	82·5	75·9	76·7	29·1	..	28·7	86	..	
MADRAS, SOUTH-EAST—																						
Pamban	37	1006·2	+0·4	1003·3	90·0	—0·2	91	7 days	81·7	+1·5	80	22 days	85·2	85·5	79·7	79·7	32·1	+1·2	32·0	77	—1	
Madura ..	437	992·1	0	988·7	97·1	0	100	4 days	79·1	+1·1	77	4 days	84·1	91·9	75·4	77·0	26·1	+3·0	24·9	65	+5	
Negapatam ..	31	1005·5	0	1002·1	98·1	+0·4	100	7, 25, 29	79·2	—0·6	73	16	85·5	91·2	76·6	78·7	27·2	+0·3	27·8	65	—1	
Trichinopoly* ..	295	997·2	+0·5	993·4	97·6	—1·1	101	15	79·1	+0·2	75	16	83·6	94·7	74·8	76·5	25·5	+1·0	22·9	65	+3	
Coimbatore ..	1,341	961·8	—0·1	959·3	88·2	—0·6	95	2	72·8	+0·9	70	6	76·2	82·4	72·0	72·8	24·9	—0·6	23·3	81	0	
Salem	913	975·9	—0·1	972·0	95·2	—0·1	100	1	76·7	+1·8	75	4 days	79·1	90·4	73·3	74·7	25·4	—0·9	22·2	75	—2	
Cuddalore ..	39	1004·6	—0·1	1000·9	99·0	+0·4	104	4	81·1	+0·8	74	16	84·6	90·9	75·8	80·1	26·5	—1·3	30·2	66	—1	
Vellore ..	703	981·7	—0·2	977·9	96·9	—0·3	106	1	80·1	+1·4	75	2,6	83·5	94·3	75·0	77·4	25·8	+0·7	24·4	66	0	
Madras	51	1003·3	—0·2	999·6	100·7	+1·1	104	4	83·0	+1·9	78	26	87·5	94·1	75·5	78·0	24·7	0	25·4	56	—3	
Arogyavaram ..	2,299	929·6	..	926·3	91·3	..	99	1,2	73·8	..	68	21	78·1	87·6	69·6	71·5	21·3	..	19·8	64	..	
MADRAS DECCAN—																						
Cuddapah ..	428	991·2	+0·1	986·2	100·2	+0·3	109	1,2	82·6	+2·1	75	20	87·6	96·7	75·5	77·0	24·7	—1·0	22·7	56	—6	
Bellary	1,473	956·2	+0·1	952·3	94·8	+0·2	103	1	77·0	+1·0	70	21	80·0	91·4	72·6	74·7	24·0	+1·8	21·8	69	+5	
Kurnool	923	974·2	+0·1	969·2	97·2	+0·1	107	2	77·7	+0·2	73	9	81·6	95·0	75·9	77·5	28·0	+3·3	24·3	77	+8	
Rentichintala ..	348	991·5	..	987·0	102·9	+3·3	112	3	83·0	+1·0	71	22	86·7	98·6	75·6	76·2	25·2	—1·9	20·7	59	—7	
Anantapur ..	1,148	966·8	..	962·5	97·1	..	105	1,2	78·1	..	73	5,21	80·9	93·8	73·2	74·5	24·4	..	20·4	69	..	
MADRAS COAST, NORTH—																						
Nellore	66	1001·5	—0·8	997·6	103·8	+3·4	110	2	84·3	+3·0	81	20	88·2	97·9	76·7	79·5	26·1	+0·3	26·1	58	—1	
Ongole	38	1002·1	..	997·9	102·6	..	110	3,4	83·5	..	78	9	88·1	98·9	76·2	78·0	25·4	..	23·2	57	..	
Masulipatam ..	10	1002·5	—0·7	998·6	100·9	+3·7	110	4	81·7	+1·0	68	22	86·9	96·4	78·6	80·6	29·6	—0·9	28·5	68	—6	
Cocanada ..	26	1001·4	—0·6	997·9	99·8	+3·0	112	4	83·1	+2·2	75	7	87·1	93·0	79·9	80·0	31·6	+1·2	29·1	71	—4	
Vizagapatam ..	126	997·1	—0·6	994·1	92·5	+0·9	99	23	82·9	+2·1	78	26,27	86·7	87·8	79·4	80·6	31·0	+0·8	32·4	72	—3	
Calingapatam ..	19	1000·3	—0·5	997·3	92·1	—0·8	99	5,6	80·2	—0·2	75	9,25, 27	83·5	87·4	78·9	81·3	31·7	—0·6	33·6	81	—3	

*Pressure and cloud refer to Aerodrome site. Other elements refer to cantonment site.

Cloud amount. (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I.S.T.									17 hrs. I.S.T.									
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													MYSORE—
8·6	+0·9	8·6	2·92	+0·33	1·32	5	6	+0·8	9·6	+1·9	0	0	0	0	0	5	25	0	0	0	0	0	0	0	10	19	1	0	Chitaldrug.
7·6	—0·1	7·8	1·65	—1·96	0·75	21	4	—5·3	9·7	+2·7	0	0	1	0	0	14	4	11	0	0	0	0	1	0	18	7	4	0	Hassan.
9·1	+1·2	8·3	4·32	+1·46	1·25	6	8	+2·1	10·1	+1·9	0	0	0	0	0	5	22	3	0	0	0	0	0	0	11	14	5	0	Bangalore.
9·0	+1·3	9·2	3·00	+0·54	1·39	6	4	—1·8	8·0	—0·8	0	0	0	0	0	17	13	0	0	0	0	0	0	0	14	14	1	1	Mysore.
																													MALABAR—
9·1	+0·6	9·4	29·16	—7·92	3·40	4	25	+0·4	4·6	—0·8	3	2	11	6	0	2	2	2	2	1	2	0	0	2	9	5	10	1	Mangalore.
8·7	+0·2	9·2	31·08	—2·00	4·51	2	26	+1·9	5·6	+0·1	3	11	10	2	0	1	0	2	1	2	2	1	1	1	7	10	6	0	Calicut.
9·1	..	8·0	14·43	..	1·90	10	19	..	6·7	..	0	0	0	0	0	6	23	1	0	0	0	0	0	0	7	21	2	0	Palghat.
9·4	+1·4	9·7	26·61	—1·87	4·50	11	25	+0·7	4·9	+2·0	6	4	12	8	0	0	0	1	5	1	1	1	0	0	6	11	6	4	Cochin.
9·6	..	9·8	25·25	..	4·50	11	25	..	5·3	..	0	8	11	4	1	1	1	1	3	3	1	1	0	0	6	8	11	0	Alleppey.
7·7	—0·6	7·9	13·18	0	2·31	6	22	+4·9	4·9	—0·4	12	6	1	1	0	0	1	9	0	2	0	0	0	1	3	10	13	1	Trivandrum.
8·5	..	9·0	8·48	..	2·58	6	11	..	9·8	..	0	0	0	0	0	2	2	17	0	0	0	0	0	0	4	21	5	0	Nagarcoil.
																													MADRAS, SOUTH EAST—
5·3	+1·7	5·5	0·34	+0·19	0·34	5	1	+0·7	9·8	—2·1	0	0	0	0	17	12	1	0	0	0	0	0	0	15	15	0	0	0	Pamban.
7·8	+1·3	8·3	0·37	—1·20	0·22	1	2	—0·5	5·0	+0·1	1	0	1	1	0	1	12	5	9	0	0	0	2	1	4	20	3	0	Madura.
7·8	+2·6	8·2	0·86	—0·37	0·84	16	1	—1·2	7·9	+1·4	0	0	0	0	3	19	8	0	0	0	0	0	2	8	17	3	0	0	Negapatam.
8·4	+3·0	8·1	0·58	—1·04	0·46	16	1	—1·4	8·2	+1·0	0	0	0	0	1	6	17	4	2	0	0	0	0	0	4	21	5	0	Trichinopoly.*
7·4	+1·8	7·8	1·24	—0·28	0·48	11	4	—0·2	10·6	+4·4	0	0	0	0	12	15	3	0	0	1	0	0	0	12	14	3	0	0	Coimbatore.
6·2	+0·1	8·6	2·63	—0·50	0·84	17	6	+0·6	5·7	+1·3	0	0	0	0	6	22	2	0	0	0	0	1	0	6	11	5	1	6	Salem.
7·5	+2·1	8·3	0·87	—0·52	0·33	16	3	+1·4	8·0	+2·7	0	0	0	0	1	19	10	0	0	2	0	0	14	5	5	3	0	1	Cuddalore.
6·2	+1·2	7·2	5·06	+2·29	1·76	6	4	—0·9	4·9	—0·4	2	0	0	0	0	11	12	5	0	0	0	0	0	3	9	7	7	4	Vellore.
6·5	+0·5	7·7	0·36	—1·50	0·17	29	2	—1·7	13·8	+1·9	0	0	0	1	1	15	12	1	0	0	0	1	22	0	0	5	2	0	Madras.
8·5	..	8·3	2·60	..	1·06	21	3	..	8·4	..	1	0	0	0	0	0	15	14	0	1	0	1	0	1	1	13	12	1	Arogyavaram.
																													MADRAS, DECCAN—
6·3	—0·1	6·3	2·79	—0·16	2·20	5	2	—2·8	6·9	+0·1	0	0	0	0	0	0	26	2	2	1	0	1	0	0	0	21	4	3	Cuddapah.
8·2	+1·6	7·9	4·32	+2·62	3·00	21	2	—1·3	9·7	+1·8	0	0	0	0	0	0	27	3	0	0	0	0	0	2	0	24	4	0	Bellary.
8·0	+1·4	7·3	3·80	—0·87	1·25	9	7	+1·5	12·1 (6)	+2·0	0	0	0	0	0	6	18	6	0	1	0	0	0	0	4	9	16	0	Kurnool.
6·5	—1·7	6·9	7·48	+3·85	4·00	22	7	+0·4	9·4	—1·1	0	0	0	0	0	6	22	2	0	4	0	0	0	0	7	9	9	1	Rentichintala.
7·0	..	6·9	1·12	—1·00	0·76	21	2	—1·3	11·3	..	0	0	0	0	0	3	24	3	0	2	0	0	0	0	3	19	5	1	Anantapur.
																													MADRAS COAST, NORTH-
6·3	—0·7	6·7	0·13	—1·14	0·10	7	1	—1·9	6·9	+1·1	0	0	0	0	1	0	14	15	0	0	0	1	9	3	1	9	7	0	Nellore.
8·4	..	8·3	0·58	..	0·21	9	1	..	8·8	..	0	0	0	0	1	4	22	1	2	0	0	0	1	1	4	21	1	2	Ongole.
6·4	—0·2	6·3	1·23	—2·99	0·46	20	3	—3·2	10·7	+3·2	2	1	0	1	1	10	16	5	0	0	0	0	1	9	6	6	8	0	Masulipatam.
6·9	—0·1	7·2	1·77	—2·91	0·70	7	4	—3·1	9·6	+3·5	0	0	0	2	0	23	4	1	0	0	0	0	4	4	13	4	5	0	Cocanada.
7·6	—0·2	8·2	1·24	—2·90	0·33	9,26	4	—2·5	6·2	+0·8	0	0	0	0	5	11	8	1	5	0	0	0	0	17	8	4	1	0	Vizagapatam.
8·3	+2·0	8·2	5·74	+1·05	2·95	9	7	+0·7	11·5	+3·5	1	0	0	0	4	14	10	1	0	0	0	0	0	11	15	3	1	0	Calingapatam.

* Pressure and cloud refer to aerodrome site. Other elements refer to cantonment site. (6) Means 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 humi %	
		Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 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
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN—																					
Shillong	4,921	843·9	—0·9	841·4	75·7	+1·2	79	4 days	63·4	+0·4	59	2, 5	70·4	71·7	66·5	67·7	20·6	+1·0	21·6	80	—1
Cherrapunji	4,309	863·0	—0·5	860·4	72·0	0	78	4 days.	64·1	—0·2	57	1	68·3	70·0	66·9	68·0	21·9	+0·7	22·6	93	+2
Aijal	3,599	884·4	..	882·1	77·4	..	83	21	66·4	..	52	2	70·2	72·0	68·8	70·3	22·4	..	24·7	94	..
Darjeeling	7,432	771·9	—0·7	770·4	67·4	+2·5	71	20	57·5	+1·0	52	4	61·3	62·9	60·3	61·7	17·4	+0·4	18·0	95	—1
Kalimpong	3,965	872·5	—0·7	870·0	78·2	+3·0	82	26,27, 28	67·0	+0·7	61	4	70·0	73·3	68·7	71·3	23·3	+0·4	25·4	93	+2
Katmandu	4,388	861·5	..	858·7	85·3	+0·5	93	23	64·8	—1·9	61	25	73·1	81·0	68·8	71·7	22·3	+0·9	22·8	81	+5
Muktesar	7,592	767·9	—0·9	766·3	76·0	+2·8	83	22,24	60·9	+2·9	54	15, 16	63·9	70·8	55·9	61·3	13·3	—0·1	15·1	68	—3
Mussooree	6,699	792·4	..	790·9	76·8	+1·7	83	2,22, 25	63·9	+2·9	53	16	69·2	73·6	60·8	62·1	15·1	+0·7	14·9	65	—6
Simla	7,224	778·0	—0·1	776·8	79·5	+4·2	85	23	63·2	+3·1	47	17	71·4	75·8	58·3	60·2	12·0	—0·7	12·1	47	—11
Murree	7,113	780·9	—0·4	779·9	83·1	+2·4	91	5	63·2	+2·7	51	12	71·3	79·4	56·6	59·4	10·2	—1·9	9·9	41	—12
Wana	4,456	887·2	..	851·0	98·8 m	+4·2	108	9	71·1 m	+2·8	66	15, 16	77·4	96·1	66·1	76·2	17·1	+3·8	22·7	55	+11
Cherat	4,272	861·7	—0·8	861·6	99·6	+6·4	107	8, 10	88·2	+15·0	80	15,16 18	80·9	94·3	63·8	68·1	13·5	—0·3	12·5	37	—9
Parachinar	5,673	820·9	—0·4	819·1	92·3	+4·6	103	9	65·7	+2·0	57	15	72·6	86·3	57·3	60·6	10·3	—1·6	8·6	40	—4
Drosh	4,806	848·4	0	844·4	93·5	+1·6	102	9	69·6	+1·1	61	29	73·2	88·8	56·8	60·1	9·0	—4·3	6·7	37	—14
Abu	3,945	874·3	+0·3	844·6	84·9	+1·3	88	19,21	68·3	—0·3	65	24	68·3	84·4	66·7	69·9	21·7	+2·5	19·1	84	+10
Pachmarhi	3,528	888·4	+1·0	886·0	89·8	+2·0	96	1, 2	72·9	+0·9	67	9	75·9	87·3	68·4	72·1	20·6	—0·1	20·7	68	—3
Mahabaleshwar	4,534	859·3	—0·1	857·6	71·2	+0·7	82	1	63·3	+0·8	61	1, 10	64·4	67·8	64·4	66·5	20·4	+0·3	21·7	99	+2
Mercara	3,781	883·6	+0·2	882·0	69·9	—2·3	80	1	64·0	+0·8	61	6	65·9	69·0	65·0	67·0	20·7	+0·3	21·8	95	—1
Ootacamund	7,364	778·8	+0·8	777·4	65·3	+1·2	75	1	52·8	+0·4	48	18	56·3	59·9	54·4	56·4	13·8	+0·6	14·3	88	+1
Coonoor	5,730	824·8	..	..	72·2	—0·4	78	1	58·9	—0·2	53	18	66·9	..	59·5	..	14·7	—0·1	..	66	—1
Kodaikanal	7,688	770·0	+1·0	768·6	65·4	+0·8	70	2	54·5	+1·3	52	5, 27	57·9	59·2	53·9	56·8	12·7	+0·5	14·9	79	+4
CEYLON—																					
Colombo	24	1009·0 (b)	+0·1	1006·8 (b)	86·0 (b)	0	88	4, 5	77·9 (b)	+0·6	74	17	81·4 (b)	82·7 (b)	77·2 (b)	77·4 (b)	30·0 (b)	+0·2	29·7 (b)	82 (b)	—5
Trincomalee	24	1006·7	+0·8	1004·0	92·4	0	95	2, 15	79·9	+1·4	78	5	82·1	89·3	76·4	77·3	28·5	+0·5	26·5	76	—4
Hambantota	61	1006·1	—0·5	1004·3 (b)	84·4 (b)	—2·3	89	4	76·4	—0·5	74	2	78·3	81·5 (b)	76·3	77·7 (b)	30·0	+0·8	30·7 (b)	91	+2
Mannar	12	1007·3	..	1005·0	88·5	..	90	2, 4	81·5	..	80	16,18	83·8	85·0	78·8	79·7	31·4	..	32·2	79	..
AFGHANISTAN—																					
Jalalabad	1,950	931·6	..	927·9	105·0	..	111	8, 9, 26	78·8	..	69	18	87·7	102·4	81·8	92·9	34·7	..	48·8	78	..
Kabul	5,955	816·3	..	813·3	88·8	+1·9	95	8	56·3	+0·3	44	16	67·3	85·8	53·7	62·8	9·1	—0·1	11·4	41	+2
Kandahar	3,462	890·8	..	888·5	96·8	..	102	3,7, 25	59·5	..	52	16	67·2	95·1	57·7	70·0	12·3	..	14·8	56	..

(b) Mean of 23 days.
(m) Mean of 18 days.

Mean Sea-level Pressure, 8 hrs. I. S. T.	Departure from normal	Cloud amount, (tenths of sky). Mean 17 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 :— 8 hrs. I. S. T. N	NE	E	SE	S	SW	W	NW	Calm	17 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
																													HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN—
·4	+0·2	3·9	16·89	—1·27	2·36	13	19	—1·0	3·9	+1·1	2	0	3	2	1	8	0	0	14	3	3	0	2	1	6	1	1	13	Shillong.
·3	—0·7	7·4	97·31	—8·74	20·14	1	25	0	5·6	—0·3	2	7	3	3	1	9	2	1	2	1	3	1	3	6	9	2	0	5	Cherrapunji.
·3	..	9·5	28·50	..	3·07	22	23	..	6·4	..	0	0	11	3	3	10	0	0	3	0	1	3	3	2	13	2	2	4	Ayal.
·8	+0·2	9·2	12·10	—12·08	1·94	9	17	—4·0	5·0	+1·1	1	3	8	5	1	0	9	2	1	0	0	5	2	2	0	15	2	4	Darjiling.
·2	—0·6	6·8	10·77	—3·78	4·35	9	17	+0·6	5·5	—0·3	2	0	0	5	1	0	2	8	12	0	0	0	20	3	0	0	4	3	Kalimpong.
·2	—0·5	6·0	6·10	—3·58	1·46	24	12	—3·8	0·6	—0·7	0	0	0	0	0	0	0	0	30	2	0	0	0	3	0	0	1	24	Katmandu.
·3	—0·8	5·9	2·76	—4·58	0·75	28	7	—3·1	9·0	+2·8	1	1	1	1	1	6	12	4	3	0	0	1	0	0	7	17	4	1	Muktesar.
·9	—3·1	4·2	5·55	—3·23	1·24	16	11	+0·8	2·6	—2·9	4	6	1	5	6	1	1	0	6	1	2	1	2	7	7	2	0	8	Mussooree.
·1	—3·3	3·9	2·49	—3·55	0·97	30	7	—2·8	2·3	—0·8	3	5	1	1	2	1	0	0	17	8	0	1	2	7	7	1	3	1	Simla.
·4	+0·6	4·7	3·30	—0·68	1·20	12	5	—0·8	7·4	+2·8	0	4	6	2	0	0	4	8	6	0	1	2	2	1	3	10	9	2	Murree.
·7	—0·5	2·2	0·17	—0·26	0·11	14	1	—0·5	4·2	..	0	0	0	1	0	0	1	1	27	0	1	10	10	4	1	1	1	2	Wana.
·9	+0·1	1·9	0·84	—0·30	0·50	6	2	0	10·1	+3·5	18	1	0	1	7	0	0	3	0	6	0	1	8	11	2	1	1	0	Cherat.
·0	—0·8	4·6	1·96	—0·04	1·02	30	5	+0·5	4·7	+1·9	1	2	2	0	0	1	2	4	18	1	1	1	11	2	7	2	3	2	Parachinar.
·9	+0·7	4·4	0·89	+0·24	0·32	12	3	+1·0	5·8	+1·6	1	3	5	4	0	0	1	0	16	1	4	1	2	2	13	6	0	1	Drosh.
·1	+2·5	2·1	0	—4·65	0	..	0	—5·8	10·2	+2·2	0	0	1	1	5	15	3	1	4	0	0	0	0	16	12	2	0	0	Abu.
·5	—0·6	7·5	6·13	—2·91	2·31	8	8	—2·3	3·9	—2·3	1	0	0	0	0	2	20	7	0	0	0	0	0	0	5	16	8	1	Pachmarhi.
·9	+1·0	9·1	13·19	—29·50	2·34	12	15	—7·2	6·6	—3·6	0	0	0	0	0	28	0	0	2	0	0	0	0	0	27	1	1	1	Mahabaleshwar.
·9	—0·8	7·8	16·03	—9·47	1·36	28	24	+0·8	+8·2	+2·5	0	0	0	0	0	3	17	8	2	0	0	0	0	0	4	18	7	1	Mercara.
·8	+0·1	8·3	3·12	—3·45	0·96	16	8	—6·1	6·1	+0·8	0	0	0	0	3	2	17	3	5	0	0	0	0	1	11	13	3	2	Ootacamund.
·5	+2·4	..	1·70	—1·11	0·53	20	4	—2·0	5·3	+0·9	2	0	2	4	3	1	3	9	6	..	..	..	..	..	..	..	..	..	Coonoor.
·4	+0·9	8·8	6·13	+1·89	2·38	2	8	—1·9	13·8	+4·4	1	0	0	1	0	1	9	13	5	1	0	0	1	1	1	9	15	2	Kodaikanal.
																													CEYLON—
·7 (b)	+0·7	8·9 (b)	10·62 (b)	+2·25	3·03	2	19	+5·0	..	..	0	0	0	3	2	16	8	1	0	0	0	0	0	1	3	17	9	0	0	Colombo.
·0	+2·8	7·5	0·01	—0·93	0·01	19	0	—1·6	..	..	0	0	0	0	6	21	2	0	0	0	0	0	0	3	21	5	0	0	Trincomalee.
·4	+4·0	9·0 (b)	9·81	+7·72	2·05	2	14	+8·2	..	..	0	0	0	0	0	17	13	0	0	0	0	0	0	0	27	2	1	0	Hambantota.
·0	..	8·1	0·04	..	0·03	18	0	..	..	..	0	0	0	0	10	20	0	0	0	0	0	0	0	17	12	0	0	0	Mannar.
																													AFGHANISTAN—
·3	..	2·9	0	..	0	..	0	..	4·9	..	0	2	1	1	0	1	11	5	9	1	3	3	9	0	7	5	0	2	Jalalabad.
·3	—0·4	2·9	0	—0·17	0	..	0	—0·5	3·8	+1·3	3	1	1	2	6	5	8	6	2	10	10	2	1	2	0	0	2	3	Kabul.
·1	..	0·2	0	..	0	..	0	..	1·9	..	0	3	1	6	0	0	0	0	26	0	0	0	0	0	7	0	6	17	Kandahar.

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 hum %	
		Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Mean	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Departure from normal	Mean 12 hrs.	Mean 4 hrs.	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
IRAN—																					
Charbar	25																				
Jask	13	998·9	..	996·9	97·3	+0·9	107	6	84·4	+1·3	81	13, 17, 19	89·0	95·0	79·8	83·7	30·9	—1·7	33·9	67	—4
Bandar Abbas ..	29	999·1	..	996·1	104·6	..	115	5	80·3	..	77	18, 20	91·6	101·6	80·7	85·2	30·7	..	33·7	62	..
Bushire	131	996·7	..	996·2	99·5	..	105	14	79·4	..	74	19	86·2	95·7	74·9	78·5	23·9	..	26·1	57	..
Ispahan	14																				
Meshed	5,817	894·9	..	892·1	92·5	+3·0	102	24	52·7	—6·1	43	9	71·2	85·6	58·5	64·4	11·7	—1·2	12·6	40	—9
Seistan	3,104	949·3	..	945·5	..	..	..	..	72·2	—2·0	63	18	84·7	100·3	63·0	68·9	11·1	—4·4	11·8	27	—13
ARABIA—																					
Bahrain	8	1000·4	..	999·6	98·4	+2·7	109	18, 19	84·9	+2·8	80	21,22, 27	87·8	94·9	80·8	82·0	31·8	+1·2	33·0	68	—2
Muscat	15	998·9	..	997·4	100·5	+2·4	110	3, 17, 18	89·0	+0·9	80	8	93·3	94·4	83·0	85·2	33·5	—0·6	37·5	63	—9
Sharjah	25	999·8	..	998·0	97·9	+2·2	105	24	75·1	—1·2	68	18,19	86·2	94·3	75·5	84·1	25·4	—1·4	35·8	60	—4

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. (I. S. T.) AT 4TH CLASS STATIONS—JUNE 1947. (2-30 HRS. G. M. T.)

STATION	Maximum temperature °F				Minimum temperature °F.				Mean dry bulb temperature 8 hrs. I. S. T. °F.	Mean wet bulb temperature 8 hrs. I. S. T. °F.	Vapour, pressure mbs.		Relative Humidity %		Mean cloud amount 8 hrs. I. S.T.	Rainfall—inches.				Number of rainy days (0·1" or more		Wind.	
	Mean.	Departure from normal	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.			Mean 8 hrs. I. S. T.	Departure from normal	Mean 8 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 8 hrs. I. S. T.	Velocity in miles
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 . .	90·8	+1·0	97	24	75 2	—0·1	70	2	83·2	77·9	30·1	+0·2	77	—7	..	11·13	+1·48	1·93	2	14	+0·3	..	.
BENGAL—																							
Pabna . .	92 9	+1·3	98	16	76·6	+4·0	74	4	81·6	78·9	3:·2	—2·0	77	—8	..	3 39	—7·83	0·93	9	8	—6·5	..	.
KASHMIR—																							
Jammu . .	110·4	+7·9	116	26	87 6	+5·1	75	13	94 2	70·3	14·2	—6·1	27	—20	3·4	0·82	—1·96	0·30	11	3	—0·8	N22E	.
Kargil . .	77·2	—2 7	83	9	56 3	+0·9	49	16,19	60·9	52·7	10·6	+1·6	61	+12	2·6	0·35	+0.13	0·35	1	1	+0·3	N6W	.
MYSORE—																							
Balehonnur . .	78·3	+1·4	88	1	66·6	+0·8	61	25	69·4	68·2	23·1	+0·6	94	—1	..	9 90	—7·14	1 30	20	19	—2·1	..	.
TIBET—																							
Yatung (Chumbi) .	63·7	+2 7	71	23,28	45·8	—3 0	37	5	58 7	57·7	15·9	+2·6	94	+5	7·4	2·51	—3·21	0·57	28	8	—5·9	..	.
IRAN—																							
Zahidan . .	95·3	—0·8	101	3,25	65·4	0	59	30	82·2	55·8	5·7	—15·3	14	—44	0·7	0	0	0	..	0	0	N20E	8

Cloud amount. (tenths of sky).			Rainfall, inches.				Numbe. of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from i—																	STATION
											4 hr.										12 hr.									
Mean 4 hrs.	Departure from normal	Mean 12 hrs.	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
																													IRAN—
																													Charbar.
0	1·1	0·3	0	—0·04	0	..	0	—0·1	9·0	+0·3	2	2	9	1	0	3	7	5	1	0	0	0	2	2	13	12	1	0	Jask.
2·6	..	0·1	0	..	0	..	0	..	..	..	2	6	3	1	0	1	3	3	11	0	0	0	7	18	5	0	0	0	Bandar Abbas.
0	..	0	0	..	0	..	..	..	10·1	..	4	2	1	1	0	1	4	16	1	0	0	0	0	1	12	12	5	0	Bushire.
																													Ispahan.
1·9	+0·4	1·8	0	—0·36	0	..	0	—0·8	1·4	—0·2	0	0	1	1	1	0	0	0	27	0	3	3	0	0	0	0	0	24	Meshed.
0·4	—0·2	0·4	0	0	0	..	0	0	15·8	+4·5	0	0	0	0	0	0	0	27	3	0	0	0	0	0	0	0	20	10	Seistan.
																													ARABIA—
0	—0·3	0	0	0	0	..	0	0	5·8	—3·5	4	0	1	0	0	1	7	14	3	6	3	0	1	0	0	1	19	0	Bahrain.
1·4	—0·4	0·1	0	0·8	0	..	0	—0·1	3·7	—0·2	2	0	0	1	1	3	2	5	16	1	0	0	0	0	0	1	2	26	Muscat.
0·4	—0·5	0	0	0	0	..	..	..	8·7	+1·3	0	0	1	4	9	12	2	0	2	3	1	0	0	0	2	9	15	0	Sharjah.

TABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. (I. S. T.) AT 5TH CLASS STATIONS—JUNE 1947.
(2-30 HRS. G. M. T.)

Division.	Station.	Rainfall—inches.				Number of rainy days (0·10 or more).		Division	Station	Rainfall—inches.				Number be 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 (*R*)							Kashmir	Sonamarg ..	3·75	+0·77	0·65	16	11	+3·8
Bengal	Bankura ..	4·22	—6·31	1·02	18	9	—2·1		Gurez ..	2·52	+0·11	0·60	12	8	+2·2
	Rajshahi ..	9·04	—2·18	2·94	9	7	—6·2	Baluchistan ..	Harnai ..	0	—0·75	0	..	0	—1·5
	Sirajganj ..	5·92	—6·40	1·74	9	10	—4·3	Rajputana East ..	Udaipur ..	0	—3·04	0	..	0	—4·6
	Rangpur ..	8·89	—8·89	1·93	26	13	—2·7	Bombay Deccan ..	Khandala ..	11·15	—21·98	4·26	22	16	—4·3
	Cooch Behar ..	20·95	—12·84	3·62	13	19	—1·6	Madras Southeast ..	Palamcottah ..	0	—0·41	0	..	0	—1·1
Bihar	Muzaffarpur ..	1·94	—5·76	0·90	24	3	—5·1	Sikkim	Lachung ..	10·36	+0·30	1·03	15	22	—0·6
	Chapra ..	2·33	—3·60	0·91	9	5	—2·2								
	Arrah ..	1·99	—4·21	0·74	9	6	—1·5								
United Provinces, West	Meerut ..	0	—3·40	0	..	0	—4·1								
Punjab East and North	Dharampore ..	1·51	—3·49	1·04	5	8	+1·5								
	Kyelang ..	0·75	—0·23	0·20	1	2	+0·6								
	Dalhousie ..	2·22	—2·89	0·80	12	5	—1·9								

(*R*) Registers not received.

Monthly Weather Report June, 1947.

Monthly Means of Upper Winds.

Note.— Data upto 9·0 Km. a.s.l. are given under Table A and data above 9·0 Km. under Table B. In Tables A & B

n represents the number of observations,
V represents the mean speed in m/sec. irrespective of directions,
v represents the resultant mean velocity in m/sec.,
and D represents the direction of the resultant mean wind in degrees East of North.

For the co-ordinates of the stations for which data have been published in these tables and other particulars, please refer to the introduction to the Monthly Weather Report, January 1947. In addition to the data for stations mentioned therein the data for Deolali—Lat. 19° 53′ N., Long. 73° 49′ E. Ht. 576 metres a.s.l. have been included. The following are the co-ordinates of Udaipur which commenced on 24th June, 1947, Lat. 24°35′ N., Long. 73°42′E., Ht. 587 metres a.s.l. The data for the following stations mentioned there *have not* been included :—

1. Bahrein 2. Drosh 3. Jhelum. 4. Jiwani. 5. Khanpur. 6. Lahore. 7. Multan. 8. Peshawar. 9. Chhor. 10. Dalbandin. 11. Fort Sandeman. 12. Jacobabad. 13. Karachi. 14. Quetta. 15. Sharjah.

The pilot balloon station at Rajsamand closed on 23rd June 1947.

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

June 1947

Height in km.	AHMEDABAD												ALLAHABAD										
	0100				0700				1600				0100				0700				1600		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface.	30	3·8	3·5	231	30	2·5	2·2	221	30	4·6	3·9	226	30	1·4	0·4	127	30	1·8	0·3	257	30	2·8	2·0
0·15 a ground	30	8·3	7·8	244	30	7·1	6·5	225	30	8·3	7·1	228	29	6·8	2·5	220	29	6·4	2·5	267	29	6·1	4·5
0·6 a. s. l.	30	10·5	9·9	248	30	10·3	9·8	242	30	8·0	7·1	232	29	7·6	3·0	246	29	9·7	6·1	291	28	6·0	4·5
1·0 „	30	9·9	9·3	246	30	11·4	10·9	250	30	8·1	7·4	233	29	7·1	4·2	271	28	8·8	6·8	289	28	6·4	4·7
1·5 „	25	7·2	6·4	239	23	10·6	9·5	237	29	7·9	7·5	242	25	6·7	5·1	284	28	8·7	6·7	295	27	6·6	5·0
2·0 „	14	7·7	5·5	248	19	9·7	8·0	230	27	7·7	7·1	250	22	7·6	6·1	294	26	9·4	8·1	295	22	7·9	6·0
2·5 „	5	3·3	0·6	147	6	7·3	6·4	215	21	6·8	5·2	266	6	8·0	7·7	306	20	9·9	9·0	300	18	9·4	8·5
3·0 „	5	3·8	0·4	333	3	5·8	4·6	199	20	6·4	3·3	294	1	10·0	10·0	305	16	10·2	9·4	315	16	10·9	10·3
4·0 „									11	6·6	2·6	44					3	11·0	9·9	314	8	11·2	10·6
5·0 „									5	5·6	2·3	40									5	9·3	8·6
6·0 „									4	5·5	3·2	248									3	4·7	3·2
7·5 „									1	3·5	3·5	290									1	2·0	2·0
9·0 „									1	1·0	1·0	335											

Height in km.	AMBALA												ANANTPUR								ASANSOL		
	0100				0700				1600				0700				1600				0100		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface.	30	2·3	1·1	92	30	2·4	1·1	130	30	3·2	1·3	300	30	3·9	3·8	267	30	5·8	5·3	272	30	1·7	1·0
0·15 a ground	29	8·0	0·7	37	30	6·8	1·6	134	30	6·7	3·5	288	30	10·0	9·8	263	30	12·2	11·8	271	27	5·5	3·4
0·6 a. s. l.	29	9·2	0·8	340	30	7·1	1·0	222	30	7·3	3·8	292	30	12·7	12·5	264	30	11·2	10·8	274	25	7·6	4·9
1·0 „	2	8·3	2·9	294	30	7·5	1·6	280	30	7·1	4·1	288	30	18·9	18·3	276	30	9·0	6·9	277	24	6·1	3·9
1·5 „	2	8·1	5·2	290	30	7·1	4·5	300	28	6·0	4·3	289	28	17·6	16·6	286	28	8·0	7·5	278	18	5·0	2·8
2·0 „	20	8·4	7·0	296	29	7·8	6·6	304	23	7·0	5·7	287	27	11·5	10·5	288	22	7·7	7·1	286	12	4·3	3·0
2·5 „	4	7·3	6·0	307	22	7·8	6·7	304	18	8·4	7·3	295	24	7·4	4·1	285	16	6·4	4·4	297	8	4·7	2·6
3·0 „	2	7·7	7·7	316	17	8·9	7·9	304	15	9·9	9·1	301	23	7·7	2·3	286	13	4·9	2·4	303	7	6·0	4·0
4·0 „					3	8·7	7·3	314	12	14·4	13·5	307	16	6·9	0·2	179	7	4·4	1·2	217			
5·0 „					1	6·0	6·0	220	8	11·7	11·0	314	10	5·7	3·9	245	5	3·8	0·7	127			
6·0 „					1	8·0	8·0	265	5	11·4	10·2	315	4	4·4	3·8	175	5	4·6	1·2	174			
7·5 „									2	14·3	13·7	315	3	4·2	2·7	122	3	4·7	3·6	101			
9·0 „									1	14·0	14·0	325	2	4·0	4·0	170	2	3·3	0·3	21			

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

June 1947

Height in km.	ASANSOL												BALASORE				BANGALORE							
	0700				1100				1600				0700				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·7	1·0	158	15	2·1	0·7	270	30	3·8	1·1	126	30	4·3	2·1	199	30	4·2	3·9	262	30	4·9	4·2	255
0·15 a ground.	27	4·4	1·8	180	14	3·9	1·8	262	26	5·0	1·9	111	30	6·1	3·0	223	28	8·2	7·8	263	29	8·1	7·4	258
0·6 a. s. l.	25	6·7	3·6	246	14	3·9	2·4	264	26	5·3	1·7	113	30	7·2	3·9	265								
1·0 „	24	6·3	3·8	265	13	5·8	4·1	290	24	5·3	0·7	103	28	8·3	5·6	281	30	6·9	6·5	263	29	7·4	6·9	257
1·5 „	18	5·4	2·9	286	9	5·8	4·6	311	20	4·4	1·2	337	27	7·3	5·9	302	12	13·2	12·4	285	29	9·2	8·9	263
2·0 „	15	4·7	2·4	322	6	4·6	3·2	319	12	4·7	2·8	339	18	7·5	5·6	314	9	10·7	9·5	289	27	8·3	7·9	274
2·5 „	9	5·4	4·0	340	3	4·3	2·4	340	10	6·9	5·5	341	13	7·8	5·6	347	4	7·3	5·0	303	23	8·1	7·6	278
3·0 „	6	4·5	2·8	6	3	4·7	2·7	5	8	8·2	6·1	340	12	9·0	6·7	350	3	5·5	2·3	290	14	7·2	5·9	275
4·0 „	4	5·0	4·4	5					3	2·8	2·0	352	8	7·5	6·7	4	1	5·0	5·0	120	5	8·6	7·1	258
5·0 „	2	5·0	4·9	38					1	4·5	4·5	40	4	4·4	2·3	330					1	8·5	8·5	210
6·0 „	2	4·7	4·7	85					1	5·0	5·0	75	3	4·3	2·3	98								
7·5 „	1	4·0	4·0	45					1	1·0	1·0	295	1	4·5	4·5	160								
9·0 „	1	1·0	1·0	35					1	2·0	2·0	260	1	4·5	4·5	25								

Height in km.	BAREILLY								BHOPAL (BAIRAGARH)												BHUJ			
	0700				1600				0100				700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·9	1·6	83	30	1·7	0·3	47	30	4·0	3·7	263	30	5·1	5·1	268	30	4·5	4·0	270	30	6·6	8·5	228
0·15 a. groun l	28	6·4	4·3	104	30	5·1	1·1	316	26	10·1	9·5	269	28	9·1	8·9	272	28	6·4	5·6	260	30	10·2	10·0	236
0·6 a. s. l.	28	7·7	0·9	151	30	5·2	1·0	326	26	9·0	8·5	262	28	8·3	8·1	273	28	6·2	5·4	263	30	14·3	13·8	245
1·0 „	28	7·7	3·9	272	30	5·0	2·2	301	26	10·5	10·2	275	28	10·5	10·2	288	28	7·3	6·4	273	27	13·9	12·6	254
1·5 „	27	8·5	7·2	288	29	6·4	4·9	297	19	8·6	8·1	274	26	10·2	9·1	299	25	7·8	6·6	275	12	11·5	9·8	264
2·0 „	27	11·2	11·0	307	29	8·7	7·5	298	4	4·3	3·2	287	13	4·6	3·3	265	14	7·4	6·0	278	4	8·6	5·1	275
2·5 „	23	10·7	10·6	308	29	10·4	9·5	300	1	2·0	2·0	355	5	4·7	1·5	248	3	7·0	4·4	262	3	7·2	3·8	257
3·0 „	21	11·1	10·7	308	28	11·9	11·0	303					5	5·4	1·1	220	1	7·0	7·0	245	1	3·0	3·0	85
4·0 „	11	11·0	9·9	301	23	14·0	13·0	303					1	13·5	13·5	100								
5·0 „	3	9·3	9·0	299	12	12·5	11·0	314					1	3·5	3·5	100								
6·0 „	1	10·0	10·0	275	4	13·3	12·7	309					1	5·0	5·0	50								
7·5 „					2	14·3	14·2	275					1	2·0	2·0	50								
9·0 „																								

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9 Km. above sea level.

June 1947

Height in km.	BHUJ								BIKANER								BOGRA							
	0700				1600				0700				1600				0700				1100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	5·3	5·1	225	30	6·6	6·3	231	30	5·7	5·4	219	30	4·1	3·9	228	30	1·5	1·2	112	15	2·1	1·4	10
0·15 a ground.	30	9·5	9·3	230	30	9·3	8·9	238	30	9·8	9·4	227	30	7·0	6·6	232	29	4·7	3·6	131	14	5·4	3·6	11
0·6 a. s. l.	30	14·1	13·8	242	30	9·8	9·5	245	30	13·0	12·6	235	30	6·8	6·5	231	20	6·0	4·3	168	12	4·8	3·7	13
1·0 „	28	14·5	13·2	252	30	10·3	9·7	253	30	12·2	11·7	240	30	7·3	7·0	236	17	6·6	3·7	163	9	4·5	1·7	21
1·5 „	17	11·2	9·4	271	25	9·4	8·4	268	26	8·2	7·5	245	25	6·3	5·8	236	10	6·6	2·3	187	4	4·9	0·5	19
2·0 „	7	10·3	7·5	268	18	8·2	7·2	285	20	5·8	4·1	238	24	6·5	5·5	230	5	5·8	1·9	131	1	2·5	2·5	19
2·5 „	2	7·7	3·7	282	12	6·8	5·0	308	9	5·3	2·0	213	24	6·1	4·3	238	4	8·0	2·9	102				
3·0 „	1	10·5	10·5	315	9	7·2	5·2	307	7	4·6	2·2	185	23	6·6	4·0	212	4	9·6	3·2	87				
4·0 „					7	8·0	3·8	327	1	6·0	6·0	90	14	6·1	1·7	240	2	10·7	9·7	77				
5·0 „					5	6·9	2·8	87					9	7·2	2·7	330	1	3·0	3·0	60				
6·0 „					3	3·5	2·6	343					8	7·4	2·1	330								
7·5 „					1	3·5	3·5	250					4	11·1	5·7	300								
9·0 „																								

Height in km.	BOGRA				BOMBAY												CALCUTTA							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·7	1·5	114	30	3·9	3·5	243	30	3·4	2·8	253	30	5·1	4·6	258	30	3·0	2·1	174	30	2·6	1·5	17
0·15 a ground.	30	5·4	4·6	126	30	6·1	5·7	250	30	5·3	4·8	248	30	6·9	6·3	258	29	8·1	5·8	179	29	5·3	3·2	17
0·6 a. s. l.	27	5·3	4·6	143	30	6·3	6·0	258	30	6·6	6·3	257	29	7·9	7·3	261	27	9·0	6·6	202	29	8·5	4·6	22
1·0 „	24	4·8	2·8	171	21	7·2	6·7	260	30	6·9	6·6	260	24	8·1	7·3	266	25	7·1	4·4	199	22	8·4	4·3	24
1·5 „	21	5·1	2·6	203	9	5·8	5·1	260	21	6·6	6·1	262	18	7·2	6·7	267	21	5·6	2·0	219	17	7·8	4·6	27
2·0 „	15	5·0	2·1	252	5	8·4	7·8	253	11	6·9	6·1	282	10	7·7	6·7	267	16	5·5	1·6	287	15	7·3	4·7	28
2·5 „	13	4·6	1·5	283	1	5·5	5·5	280	4	7·6	7·2	299	6	7·3	5·9	271	9	7·2	0·7	314	11	5·9	5·2	30
3·0 „	13	5·0	1·4	292					3	6·3	5·8	307	4	6·3	5·1	252	4	5·1	4·3	301	8	5·2	4·5	31
4·0 „	7	3·6	1·3	71					1	2·5	2·5	335	3	4·5	2·1	215					6	5·0	4·3	32
5·0 „	2	3·7	3·3	94									1	1·0	1·0	180					3	3·8	1·7	28
6·0 „	1	4·0	4·0	85									1	3·0	3·0	100					1	2·0	2·0	18
7·5 „	1	2·0	2·0	15																	1	7·5	7·5	19
9·0 „																					1	3·5	3·5	20

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

June 1947

Height in km.	CALCUTTA								CHITTAGONG															
	1100				1600				0100				0700				1100				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	15	3·6	2·7	206	30	3·7	2·9	164	30	1·3	1·2	162	30	1·1	0·9	154	15	1·5	1·2	157	30	1·6	1·4	189
·15 a ground.	15	6·2	4·2	209	30	5·9	4·5	167	25	6·2	5·9	158	25	5·2	4·8	148	10	6·2	5·7	161	29	5·5	4·5	181
·6 a. s. l.	15	6·5	4·7	241	29	6·8	4·4	173	24	9·5	9·1	171	22	8·9	8·3	168	10	8·5	8·0	178	28	6·9	6·2	183
·0 ,,	14	8·0	6·5	252	28	5·7	2·6	186	22	8·0	7·3	180	19	8·7	7·7	172	4	6·6	6·1	190	26	7·0	5·9	180
·5 ,,	12	6·2	5·6	287	26	5·4	0·8	313	18	6·6	5·4	176	17	6·8	5·2	182	2	7·0	6·1	207	22	7·0	4·6	181
·0 ,,	8	6·0	4·2	288	22	6·0	1·6	323	15	5·8	4·0	198	16	6·5	3·9	173	2	7·0	6·4	254	20	7·1	2·9	167
·5 ,,	4	4·1	1·0	263	19	6·2	3·0	316	7	5·3	3·7	235	14	6·1	2·1	189	1	2·0	2·0	100	18	6·9	2·6	155
·0 ,,	2	3·7	3·7	286	17	6·0	3·7	312	6	5·3	3·4	246	12	5·6	0·9	254	1	1·5	1·5	270	14	5·2	1·4	110
·0 ,,					11	5·8	3·5	326	2	5·3	5·1	257	10	5·3	1·9	237					10	5·0	1·8	72
·0 ,,					8	8·0	4·4	314					7	3·5	0·8	98					6	3·7	3·3	123
·0 ,,					2	12·5	5·1	302					6	4·6	2·8	130					6	5·3	5·1	120
·5 ,,																								
·0 ,,																								

Height in km.	COCHIN												COOCH BEHAR											
	0100				0700				1600				0700				1100				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	2·3	0·8	77	30	2·1	1·1	78	30	3·2	2·3	289	30	1·3	1·0	94	15	1·9	1·2	80	30	1·3	0·6	130
·15 a ground.	22	2·5	0·1	337	29	2·9	1·3	80	25	4·5	3·5	282	27	3·6	2·7	111	12	4·7	4·3	84	29	3·7	1·5	120
·6 a. s. l.	22	5·4	5·1	289	29	6·1	5·3	284	24	7·3	6·9	295	16	5·5	4·6	112	9	4·3	3·7	100	28	3·7	2·1	138
·0 ,,	22	7·8	7·7	290	28	7·9	7·5	286	23	9·5	9·2	291	11	6·6	6·0	106	5	3·3	1·9	142	24	4·1	2·2	151
·5 ,,	20	9·1	8·9	291	23	10·2	9·9	285	20	9·9	9·5	290	11	5·0	4·6	101	2	4·7	3·5	129	20	4·2	1·0	155
·0 ,,	19	9·5	9·2	288	19	11·5	11·0	280	18	9·9	9·1	289	9	6·3	5·4	112	1	3·5	3·5	225	18	4·4	1·6	114
·5 ,,	15	10·5	9·3	185	17	11·5	10·2	281	16	9·9	9·2	285	9	5·2	4·6	93					18	4·3	1·7	105
·0 ,,	14	10·7	9·3	284	17	11·3	11·1	274	13	10·0	9·9	282	8	4·4	4·0	100					15	4·6	2·6	105
·0 ,,	1	13·5	13·5	270	11	9·7	9·4	271	4	5·9	5·4	269	8	3·7	1·9	80					11	4·2	1·8	92
·0 ,,					7	6·4	5·4	267	1	7·0	7·0	245	3	3·2	2·9	207					7	2·5	0·3	329
·0 ,,					5	3·4	2·8	229					2	3·7	2·9	207					5	6·0	2·7	37
·5 ,,					1	3·0	3·0	270					2	3·5	2·3	138					3	5·7	5·3	57
·0 ,,													2	4·2	4·2	123					1	5·0	5·0	10

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

June 1947

Height in km.	CUTTACK																GADAG						
	0100				0700				1100				1600				0700				1600		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface.	30	1·2	0·5	217	30	0·7	0·5	218	15	1·7	1·1	222	30	1·5	0·8	194	30	6·4	6·2	254	20	8·0	7·
0·15 a. ground	27	6·0	4·3	218	26	4·2	1·8	231	15	5·1	2·7	230	27	5·6	3·6	201	30	9·9	9·7	256	29	11·1	10·
0·6 a. s. l.	26	8·3	6·5	243	25	8·0	6·4	271	15	6·2	4·8	267	26	5·7	2·7	234							
1·0 ,,	25	8·2	6·2	251	23	9·8	8·6	284	15	8·6	7·6	291	25	5·8	3·3	297	30	12·6	12·1	281	29	10·7	10·
1·5 ,,	22	6·3	4·2	268	23	9·8	8·5	299	13	10·3	9·6	303	24	7·5	6·1	310	26	12·5	12·0	292	28	9·1	8·
2·0 ,,	18	5·4	4·1	310	23	8·8	7·7	301	7	9·5	8·8	297	23	8·1	6·8	326	21	8·0	7·5	302	21	7·1	6·
2·5 ,,	8	5·7	4·8	328	17	7·5	5·9	323	3	5·8	4·9	282	21	7·8	6·7	320	17	5·1	2·2	288	13	7·3	6·
3·0 ,,	5	8·3	7·5	338	14	6·5	4·9	340	3	5·5	3·4	279	19	8·1	6·3	329	16	4·6	1·6	291	8	5·5	2·
4·0 ,,					9	8·5	6·8	7					13	7·2	5·1	324	8	4·7	0·6	167	6	5·0	2·
5·0 ,,					5	8·2	4·3	45					9	7·5	6·0	305	3	4·5	2·9	138	3	3·3	1·
6·0 ,,					4	6·7	2·9	48					6	9·7	7·8	322	1	7·0	7·0	115	2	3·0	2·
7·5 ,,					1	5·0	5·0	130					2	8·7	8·7	270	1	4·0	4·0	115	1	5·0	5·
9·0 ,,					1	11·5	11·5	115					2	7·7	7·4	256							

Height in km.	GAYA																GOPALPUR						
	0100				0700				1100				1600				0700				1600		
	n	V	v	D	n	V	v	D	V		v		n	V	v	D	n	V	v	D	n	V	v
Surface.	30	2·5	1·8	141	30	2·4	1·1	128	15	3 7	2·5	282	30	3·5	1·1	346	30	4·7	4·3	202	30	8·1	7
0·15 a ground	30	5·7	3·3	162	30	5·8	2·5	164	15	5·6	3·9	271	29	6·7	2·6	347	28	6·7	6·2	221	30	11·3	10
0·6 a.s. l.	30	6·1	2·9	179	30	7·4	3·9	223	15	5·0	3·0	277	29	6·9	3·4	335	29	6·6	5·7	257	30	6·3	4
1·0 ,,	30	5·7	1·4	199	29	7·1	3·3	257	15	6·4	5·0	285	29	7·3	2·9	332	29	7·9	7·1	274	30	6·5	4
1·5 ,,	29	5·7	1·5	292	29	7·4	3·6	298	12	6·5	5·5	294	28	7·0	3·3	318	28	8·6	7·8	296	28	7·0	5
2·0 ,,	24	5·7	3·6	298	28	8·6	5·4	309	8	7·4	6·5	295	22	6·7	4·0	317	27	7·4	6·6	305	24	7·1	5
2·5 ,,	18	6·7	4·3	302	24	9·2	7·2	314	3	9·5	8·2	311	18	7·5	5·5	306	24	6·7	5·8	330	23	7·3	5
3·0 ,,	15	8·6	5·1	315	17	9·5	8·8	321	2	17·0	15·5	311	14	8·0	6·6	304	20	5·7	4·4	335	20	6·8	4
4·0 ,,					9	6·7	6·1	330					11	8·7	7·0	304	11	6·5	5·4	1	12	8·0	4
5·0 ,,					5	3·6	1·4	46					6	9·0	7·2	283	6	3·7	2·4	33	6	7·0	5
6·0 ,,					5	3·7	1·3	35					2	9·0	8·3	296	5	4·1	0·5	90	2	5·3	5
7·5 ,,					3	3·8	3·6	110					1	11·0	11·0	325	1	7·0	7 0	35			
9·0 ,,					1	11·0	11·0	150															

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above s.a level,

June 1947

Height in km.	GORAKHPUR								HYDERABAD (Dn.)												JAMSHEDPUR			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	2·4	2·2	84	30	2·1	0·5	49	30	5·7	5·0	260	30	5·3	4·8	283	30	4·9	3·4	278	30	1·5	0·2	29
0·15 a ground.	30	6·4	6·4	86	30	4·5	1·1	71	30	10·0	9·1	267	30	8·8	8·3	281	30	7·4	6·4	282	29	3·5	0·7	21
0·6 a. s. l.	29	7·9	6·0	117	30	4·6	0·7	73	30	7·5	6·7	263	30	6·8	6·5	280	30	6·5	5·5	280	29	6·0	3·2	24
1·0 „	27	7·3	3·4	133	30	5·3	0·2	351	30	12·5	11·2	275	30	12·6	12·2	302	30	7·1	6·0	288	28	7·4	4·6	26
1·5 „	26	6·0	2·1	260	30	5·9	2·1	292	30	10·8	9·8	281	30	11·6	10·8	307	28	6·7	5·8	289	26	7·5	6·2	29
2·0 „	23	7·5	5·7	289	24	6·3	4·1	293	29	8·6	7·5	287	30	8·4	6·7	299	20	7·4	6·6	294	25	8·0	6·7	30
2·5 „	17	7·2	5·5	287	20	8·9	6·9	298	28	6·6	5·0	3 08	29	5·7	3·3	300	24	6·9	6·4	295	22	7·4	6·4	32
3·0 „	15	8·3	7·2	301	7	8·9	8·6	302	19	4·9	3·3	343	28	3·7	0·9	315	16	5·1	4·3	306	19	8·3	7·4	33
4·0 „	8	3·4	6·9	312	6	8·5	8·3	304	1	1·0	1·0	260	27	4·4	0·8	249	9	5·4	4·6	291	9	8·2	7·5	34
5·0 „	3	3·8	3·3	309	4	9·9	9·5	303					25	5·0	2·3	269	3	8·5	6·1	287	4	5·0	2·3	30
6·0 „	2	4·0	3·4	212	2	44·0	13·1	280					22	5·2	2·0	271	2	7·0	7·0	270	2	4·5	3·1	21
7·5 „					1	13·5	13·5	340					8	3·9	1·6	319	1	7·0	7·0	275				
9·0 „					1	13·0	13·0	310					2	5·3	4·4	45	1	7·5	7·5	260				

Height in km.	JAMSHEDPUR								JHARSUGUDA												JODHPUR			
	1100				1600				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface.	15	2·5	2·0	271	30	2·9	0.7	166	30	2·0	1·6	204	30	1·7	1·3	208	30	2·5	1·6	245	30	5·9	5·8	2
0·15 a ground.	14	4·1	2·8	265	30	4·9	1·0	154	28	7·4	5·8	223	30	4·7	3·5	218	29	6·1	4·5	255	30	13·7	13·4	2
0·6 a. s. l.	14	3·9	3·2	259	30	5·1	0·4	257	28	9·0	7·3	238	29	7·4	6·0	250	29	6·3	4·6	260	30	14·9	14·6	2
1·0 „	14	5·9	5·1	276	30	5·3	1·5	328	27	10·0	8·0	249	28	9·8	8·4	268	29	5·9	4·4	265	30	14·7	14·3	2
1·5 „	12	7·1	6·7	292	26	5·6	4·2	318	27	9·5	7·7	271	28	9·4	8·1	282	28	5·3	3·7	282	19	10·5	10·1	2
2·0 „	10	7·3	6·7	302	24	6·9	5·9	320	26	8·3	6·6	282	28	9·0	7·5	299	26	6·6	5·0	291	8	6·9	5·2	2
2·5 „	6	8·8	8·5	304	22	7·7	6·4	321	24	8·3	6·5	300	28	9·3	7·6	307	24	8·0	6·6	303	2	8·3	6·1	1
3·0 „	5	7·1	6·6	299	22	8·8	7·3	317	14	8·9	6·9	333	24	8·9	7·4	315	23	9·6	8·1	310				
4·0 „					15	7·8	6·0	311					15	7·8	5·7	319	16	8·9	6·9	300				
5·0 „					15	5·8	3·7	326					8	4·4	1·2	5	10	7·1	5·3	292				
6·0 „					9	4·2	1·4	310					5	5·4	1·8	314	8	6·9	5·7	289				
7·5 „					3	7·7	3·2	80					3	4·0	3·4	45	7	6·5	2·6	296				
9·0 „					1	10·5	10·5	120					3	5·7	5·4	92	6	5·8	1·2	75				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

June 1947

Height in km.	JODHPUR								JUBBULPORE								MADHAOSAGAR (Gwalior)							
	0700				1600				0700				1600				0700				1600			
	n	V	v	D	n	V	v	D	n	V	n	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	6·4	6·2	239	30	6·2	5·9	238	30	3·2	3·0	263	30	3·1	2·3	300	30	4·4	3·5	250	30	3·5	2·8	292
0·15 a ground.	30	10·6	10·0	227	30	7·3	6·8	224	29	7·8	7·4	257	28	7·4	5·0	300	30	9·3	7·7	256	30	5·4	4·0	294
0·6 a. s. l.	30	12·3	12·2	227	30	7·5	7·4	227	29	9·0	8·6	264	28	7·6	5·3	297	30	11·9	9·9	279	30	5·6	3·9	298
1·0 „	30	14·6	14·2	226	30	8·4	8·2	228	29	13·0	12·3	288	28	6·4	4·6	297	29	12·1	11·0	287	30	5·5	4·3	297
1·5 „	22	15·3	14·8	223	28	7·5	7·2	227	29	11·6	11·0	302	27	6·4	5·2	301	29	8·6	7·7	297	29	6·0	5·1	297
2·0 „	8	11·8	10·6	210	24	7·0	6·4	226	29	9·7	8·4	311	27	6·8	5·3	307	25	7·3	5·9	323	26	6·3	5·1	305
2·5 „	5	9·5	7·9	213	21	6·2	4·0	231	26	8·6	6·6	319	27	8·1	6·3	305	18	6·0	4·0	334	22	6·8	5·2	305
3·0 „	2	6·3	4·1	214	19	5·9	2·6	250	25	8·6	6·0	317	23	8·4	6·2	297	12	6·5	4·4	359	18	7·5	5·5	323
4·0 „	1	4·5	4·5	70	16	7·1	1·8	328	7	7·2	4·2	296	11	8 9	6·4	279	5	7·8	6·3	25	5	6·1	4·6	320
5·0 „	1	1·0	1·0	170	14	8·3	3·5	16	3	10·0	8·6	303	3	6·3	5·1	273	1	1·5	1·5	320	2	6·7	6·6	309
6·0 „	1	4·5	4·5	240	9	7·4	2·6	348					2	8·0	6·8	274								
7·5 „					1	6·0	6·0	35					2	7·2	5·1	292								
9·0 „					1	5·5	5·5	10					2	14·5	1·6	265								

Height in km.	MADRAS												MALEGAON											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	n	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	6·1	4·9	236	30	4·7	4·1	258	30	5·5	3·1	232	30	5·5	5·4	268	30	3·1	3·1	268	30	4·6	3·8	283
0·15 a ground	30	9·6	8·5	236	30	9·3	9·0	258	30	7·8	5·0	232	30	10·5	10·5	265	30	8·3	8·2	270	29	8·5	7·9	278
0·6 a .s. l.	30	12·8	11·8	251	30	13·4	13·1	273	30	7·0	5·4	254	30	10·5	10·5	265	30	8·3	8·2	270	29	8·5	7·9	278
1·0 „	30	11·1	10·3	261	30	12·3	12·0	278	30	7·2	6·6	262	30	11·7	11·3	271	30	10·1	9·9	272	29	7·6	7·3	277
1·5 „	26	8·5	8·0	264	30	9·3	8·5	268	30	8·2	7·8	267	30	8·5	7·4	243	30	7·9	7·2	281	29	6·9	6·6	281
2·0 „	22	7·4	6·2	280	29	6·7	5·7	267	30	8·9	8·4	272	29	5·7	3·4	306	29	4·7	3·0	279	29	6·7	6·2	283
2·5 „	5	6·4	6·0	271	26	6·7	4·8	273	25	8·6	7·7	277	25	4·8	2·2	312	28	5·0	2·8	254	25	5·8	5·0	284
3·0 „	2	5·3	5·3	297	26	7·2	4·5	272	19	8·5	7·3	276	17	4·2	1·2	298	27	5·3	2·7	249	19	5·3	3·6	298
4·0 „					19	6·2	1·7	265	10	8·0	4·1	277	6	5·3	2·2	327	22	5·4	2·1	266	13	3·9	1·5	319
5·0 „					16	4·8	2·2	225	9	5·5	3·3	264					11	5·2	0·7	184	7	4·1	2·2	248
6·0 „					14	4·3	2·0	248	6	3·4	1·4	216					9	5·4	1·9	69	6	5·4	3·7	263
7·5 „					5	3·2	0·6	81	2	3·0	2·5	23					6	6·6	0·4	174	3	10·7	6·4	271
9·0 „					4	5·5	4·8	77	2	1·5	0·5	236					1	3·0	3·0	50	2	8·0	1·1	280

Table A – Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

JUNE 1947

Height in km.	MANGALORE												MASULIPATAM											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	2·4	0·3	210	30	3·3	0·4	128	30	3·3	2·2	279	30	2·9	2·3	220	30	2·3	1·9	254	30	3·3	2·3	28
0·15 a ground.	22	4·1	1·5	263	28	4·7	0·5	193	26	5·1	4·2	289	30	9·5	7·9	226	30	8·0	6·9	258	30	7·8	6·1	27
0·6 a. s. l.	21	5·9	5·5	281	28	6·2	5·3	278	25	6·8	6·3	285	30	13·5	11·8	244	30	14·0	13·3	283	30	7·6	6·5	27
1·0 „	16	7·9	7·6	289	24	8·2	7·7	282	23	8·4	8·0	289	30	12·2	11·0	254	29	14·2	13·8	291	30	8·5	7·6	28
·5 „	11	7·8	7·3	297	17	7·9	7·2	276	14	8·4	7·5	286	28	10·6	9·8	269	28	11·5	11·1	293	30	8·2	7·6	28
2·0 „	6	8·9	8·3	302	9	8·0	6·2	259	5	5·7	3·8	310	24	9·5	8·6	274	27	9·1	8·2	291	27	8·5	7·9	29
2·5 „	4	7·1	5·7	300	5	8·3	3·2	275	4	5·4	2·1	310	13	8·7	7·8	278	23	7·2	6·1	300	23	8·3	7·4	29
3·0 „	2	6·3	1·9	297	4	8·1	1·8	82	4	5·9	0·9	302	9	8·6	7·7	277	22	7·7	6·1	293	22	7·8	6·4	29
4·0 „					2	10·0	9·9	112	3	8·2	8·2	114	1	2·0	2·0	270	15	6·6	4·4	289	17	7·9	6·0	29
5·0 „					2	8·7	8·7	104	1	5·0	5·0	170					9	6·8	4·1	280	13	7·3	5·4	28
6·0 „					2	9·3	8·9	114	1	5·0	5·0	160					6	7·4	7·0	243	8	6·1	5·5	27
7·5 „					1	7·0	7·0	145									4	6·5	4·9	311	6	4·0	3·5	27
9·0 „					1	4·5	4·5	125									1	7·0	7·0	75	4	3·7	2·8	26

Height in km.	MINICOY								NAGERCOIL								NAGPUR			
	0700				1600				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	4·1	3·7	274	30	4·9	4·7	279	30	5·3	5·1	283	30	4·5	4·1	283	30	7·1	6·4	277	30	3·0	1·2	23
0·15 a ground.	30	8·9	8·1	274	29	9·4	9·0	278	29	10·8	10·7	293	30	9·5	9·3	285	29	10·5	10·2	274	27	7·4	4·2	26
0·6 a. s. l.	30	10·8	10·2	277	29	11·1	10·7	280	29	15·8	15·6	290	30	14·7	14·3	283	29	13·9	13·7	284	27	8·3	5·1	21
1·0 „	31	11·8	11·4	281	29	12·6	12·2	285	29	15·3	15·1	286	30	15·5	15·1	285	28	16·1	15·4	288	27	8·8	6·0	29
1·5 „	29	11·5	11·3	283	28	11·3	11·1	286	29	15·8	15·4	279	30	14·3	14·1	278	27	16·3	15·6	281	25	7·2	5·8	28
2·0 „	29	10·5	10·1	280	25	11·2	11·0	284	27	16·7	16·3	275	29	15·5	15·2	276	27	16·9	16·5	279	22	7·1	5·7	28
2·5 „	27	9·8	9·2	281	20	10·3	9·7	283	21	13·6	13·1	271	27	15·2	14·4	274	26	17·3	16·9	275	7	5·9	3·9	29
3·0 „	23	9·9	8·6	284	15	8·6	8·1	282	19	11·5	10·8	271	25	11·9	10·8	267	25	16·6	16·1	269				
4·0 „	14	9·5	8·2	279	7	10·4	9·4	273	4	6·5	5·4	253	22	9·0	8·1	262	17	11·7	11·2	271				
5·0 „	9	7·3	6·8	271	5	7·0	5·9	273					17	8·8	7·8	258	11	11·9	11·5	275				
6·0 „	6	6·1	4·4	284	4	4·0	3·9	265					12	6·1	4·5	251	9	8·8	8·3	281				
7·5 „	1	1·0	1·0	90	1	7·5	7·5	255					9	5·2	1·1	32	6	4·7	1·0	217				
9·0 „	1	4·5	4·5	100	1	5·5	5·5	265					8	5·3	2·1	120	6	6·0	2·3	146				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

June 1947

Height in km.	NAGPUR								NEW DELHI												POONA		
	0700				16000				0100				0700				1600				0100		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface.	30	3·3	2·5	274	30	5·2	4·0	277	30	4·3	2·5	238	30	3·2	1·6	260	30	4·7	2·7	311	30	2·7	2·7
0·15 a ground.	30	7·1	6·0	282	30	6·8	5·3	277	30	9·8	6·3	243	30	9·7	5·2	262	30	6.5	3·1	324	30	6·7	6·7
0·6 a. s. l.	30	9·4	8·7	295	30	7·5	6·1	278	30	10·8	7·7	258	30	10·6	9·4	283	30	6·6	3·6	305	30	4·9	4·8
1·0 ,,	29	10·3	9·8	301	30	7·4	6·2	283	30	9·7	7·4	267	30	11·6	10·9	296	30	6·1	4·2	300	30	8·8	8·7
1·5 ,,	28	8·2	7·7	306	30	6·7	5·3	287	18	8·0	6·3	282	28	11·1	10·5	304	29	6·4	5·3	296	26	11·1	10·5
2·0 ,,	24	5·8	5·0	299	28	6·1	4·7	293	10	6·5	4·9	296	24	8·3	7·7	321	22	6·4	5·2	297	23	9·0	7·2
2·5 ,,	16	6·0	3·8	274	22	6·4	4·7	291	5	8·3	7·5	298	16	6·5	6·0	329	18	7·5	6·2	294	18	5·4	2·1
3·0 ,,	12	3·9	1·5	353	17	6·6	4·8	287	3	13·3	12·0	305	10	8·4	7·3	329	16	8.9	6·6	300	13	4·5	0·8
4·0 ,,	10	5·6	4·1	44	6	7·1	2·2	233	1	14·0	14·0	290	1	4·0	4·0	15	10	10·1	8·4	310	1	5·0	5·0
5·0 ,,	7	4·0	2·9	65	3	6·3	2·8	194					1	1·5	1·5	25	6	11·7	10·7	304			
6·0 ,,	2	5·3	2·3	66	1	11·5	11·5	290					1	2·5	2·5	235	4	10·6	9·9	275			
7·5 ,,					1	11·0	11·0	280					1	1·0	1·0	125	3	11·7	11·2	271			
9·0 ,,													1	1·0	1·0	280	1	14·0	14·0	220			

Height in km.	POONA								PORT BLAIR								RAIPUR						
	0700				1600				0700				1600				0100				0700		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface.	30	1·3	1·3	271	30	4·9	4·7	272	30	6·5	6·2	235	30	8·0	7·6	235	30	3·8	2·9	244	30	4·0	3·6
0·15 a ground.	30	5·9	5·8	359	30	9·0	8·7	266	23	10·2	10·0	228	22	10·2	9·8	235	29	8·7	7·3	241	30	7·6	6·8
0·6 a. s. l.	30	3·3	3·3	260	30	6·5	6·2	266	21	14·4	14·1	232	22	14·8	14·1	236	29	9·8	8·3	252	30	10·4	9·4
1·0 ,,	30	9·7	8·5	265	29	9·7	9·5	269	13	13·5	13·3	239	10	16·5	15·2	247	26	9·8	8·4	268	28	11· 0	9·7
1·5 ,,	26	10·7	10·6	274	28	9·5	9·3	272	6	12·4	12·0	236	3	12·7	10·5	279	21	7·9	7·0	276	27	9·5	8·1
2·0 ,,	24	8·6	7·7	280	25	9·2	8·9	275	4	13·3	12·9	240	1	12·5	12·5	340	16	7·8	6·9	282	18	7·0	6·3
2·5 ,,	18	5·0	2·8	263	15	8·4	7·8	279					1	12·0	12·0	5	3	7·3	6·4	265	11	6·2	5·5
3·0 ,,	18	4·5	2·3	250	10	4·9	3·9	254					1	11·5	11·5	5	1	5·0	5·0	175	5	6·1	4·9
4·0 ,,	15	4·1	1·7	333	7	5·3	2·2	252					1	3·0	3·0	350					1	3·5	3·5
5·0 ,,	5	5·7	1·3	280	5	5 6	1·1	278													1	5·0	5·0
6·0 ,,	5	4·4	2·0	84	2	8·3	3·4	216													1	6·5	6·5
7·5 ,,	2	6·3	3·8	260	1	5·0	5·0	205													1	6·0	6·0
9·0 ,,																					1	9·0	9·0

Table A— Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

June 1947

Height in km.	RAIPUR				RAJ SAMAND												SAHARSA							
	1600				0100				0700				1600				0700				1100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	4·3	2·5	303	23	4·5	4·0	251	23	3·5	3·3	234	23	3·4	2·3	254	30	1·5	1·4	77	15	2·6	2·5	85
0·15 a ground	20	8·0	5·5	279	23	8·6	8·3	237	23	7·8	7·6	230	23	6·1	4·0	233	21	5·8	5·6	98	14	4·0	3·7	91
	29	8·6	6·1	283													18	6·8	5·7	124	12	5·6	3·7	92
0·6 a. s. l.	29	9·0	7·1	287	23	9·1	8·9	242	23	8·9	8·5	238	23	5·6	4·1	233	16	6·7	4·4	122	10	5·7	1·0	106
1·0 „	24	7·9	6·7	290	23	7·7	7·3	244	23	6·2	5·6	231	23	5·4	3·8	235	13	6·5	2·9	106	9	7·8	2·5	293
1·5 „	17	6·8	6·0	294	21	4·6	3·6	227	17	4·3	2·9	211	22	4·3	2·9	240	10	5·9	1·0	59	6	8·6	4·6	293
2·0 „	10	6·7	5·5	302	17	3·8	1·9	162	16	3·8	2·5	170	22	4·5	3·2	246	9	5·4	3·0	305	4	4·5	2·4	23
2·5 „	6	6·1	4·3	307	15	3·9	1·8	109	14	4·5	2·7	143	20	4·1	2·3	244	6	4·7	2·3	3	3	5·5	3·6	40
3·0 „	1	8·0	8·0	45	1	5·5	5·5	150	14	5·4	3·3	95	16	6·7	0·9	290	4	2·6	1·3	6	1	6·0	6·0	345
4·0 „									10	5·6	3·5	13	12	5·9	0·9	340	4	2·5	1·4	242				
5·0 „									9	4·3	2·9	36	9	5·9	2·1	5	3	2·7	2·5	113				
6·0 „									3	6·0	1·1	192	5	4·5	1·3	354	1	8·5	8·5	120				
7·5 „									2	8·7	8·3	259					1							
9·0 „																								

Height in km.	SAHARSA				TEZ PUR												TRICHINOPOLY							
	1600				0100				0700				1100				1600				0100			
		V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	2·1	1·9	73	30	0·4	0·2	93	30	0·8	0·5	96	15	1·6	0·9	105	30	0·7	0·3	82	28	7·9	7·6	269
0·15 a ground	29	4·8	4·3	78	19	3·4	0·4	136	25	4·3	1·7	103	12	5·3	2·4	107	30	3·3	0·8	117	28	11·6	10·5	267
0·6 a. s. l.	29	5·4	4·5	89	19	3·2	0·3	199	24	4·7	1·3	125	12	6·9	4·3	106	30	4·2	1·3	114	28	13·8	13·8	275
1·0 „	28	5·4	2·2	117	18	4·0	0·7	158	21	6·3	0·8	157	11	6·9	4·3	107	29	4·7	1·8	175	28	13·0	12·9	273
1·5 „	26	6·1	1·2	259	14	3·9	0·9	129	16	6·7	0·9	233	7	5·4	2·4	131	28	4·9	1·8	212	28	11·0	10·6	271
2·0 „	22	7·9	2·4	283	13	4·3	1·1	146	10	5·7	1·6	229	5	7·4	1·7	182	27	6·4	3·3	227	27	9·3	8·7	269
2·5 „	18	6·5	1·7	315	7	2·5	1·6	208	6	4·6	1·1	31	2	3·7	3·0	242	21	5·8	2·1	197	20	8·1	7·1	272
3·0 „	17	5·9	1·6	360	6	3·1	0·9	161	6	5·4	1·8	139	2	4·0	2·2	267	19	5·2	1·8	173	18	8·3	6·3	268
4·0 „	13	5·4	1·9	287					3	5·7	3·5	106					13	4·7	1·7	127	3	6·2	2·0	263
5·0 „	9	5·0	1·1	346					2	2·0	1·6	263					12	5·1	2·3	108	1	9·0	9·0	240
6·0 „	9	4·5	1·1	345					2	2·5	2·2	240					12	5·2	1·2	104				
7·5 „	7	5·9	1·5	165					1	5·0	5·0	165					2	3·5	0·5	308				
9·0 „	3	6·7	3·4	153					1	3·5	3·5	160												

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

JUNE 1947

Height in km.	TRICHINOPOLY								TRIVANDRUM				UDAIPUR											
	0700				1600				0700				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface.	30	6·8	6·7	268	30	9·3	8·9	267	30	1·7	1·2	339	7	3·1	3·0	251	7	2·6	2·3	182	7	3·4	2·6	
0·15 a ground.	30	9·8	9·4	265	30	10·2	10·0	266	29	4·4	3·1	328	7	7·9	7·7	250	7	7·3	6·7	251	7	6·1	5·9	
0·6 a. s. l.	30	13·4	13·3	271	30	9·7	9·4	267	28	9·1	8·3	283												
1·0 „	30	13·4	13·2	274	30	10·5	10·3	267	28	10·7	9·9	283	7	8·7	8·7	258	7	8·1	7·7	256	7	5·7	5·6	
1·5 „	30	11·6	11·1	211	30	10·6	10·3	267	24	12·0	11·1	282	7	7·1	6·9	259	7	7·4	6·9	255	7	5·5	5·3	
2·0 „	30	9·7	8·9	268	29	10·6	10·2	266	19	11·7	10·9	279	7	4·8	4·3	224	5	3·5	1·7	195	7	4·4	3·5	
2·5 „	29	8·5	7·4	269	25	10·0	9·7	269	12	11·9	10·8	282	6	4·1	2·0	129	4	4·9	2·0	147	7	4·2	1·6	
3·0 „	29	8·4	6·9	275	22	9·4	8·7	271	10	11·3	10·0	281	5	4·5	1·5	106	4	4·4	2·4	155	7	3.6	1·7	
4·0 „	16	8·9	7·8	273	10	7·2	6·2	264	4	4·5	4·1	272					3	3·5	0·7	22	6	4·3	1·5	
5·0 „	7	7·7	7·3	265	6	6·4	5·1	257	1	1·5	1·5	295									6	5·5	2·3	
6·0 „	6	5·3	2·9	256	3	4·2	2·3	222													5	6·9	3·9	
7·5 „	3	4·5	1·8	263	3	3·8	2·0	335													2	7·7	7·5	
9·0 „	2	4·3	1·7	50	3	3·0	2·7	89																

Height in km.	VENGURLA												VERAVAL											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface.	30	0·4	0·3	260	30	0·5	0·4	237	30	2·4	1·8	250	30	9·1	8·7	240	30	8·1	7·6	251	30	8·3	7·9	
0·15 a ground	16	4·7	3·2	286	18	3·6	1·4	286	22	6·5	5·5	267	30	9·1	8·9	245	30	8·5	8·3	250	30	9·1	8·8	
0·6 a.s. l.	13	6·5	6·1	281	17	6·9	6·2	281	22	8·6	7·7	281	27	10·3	10·0	249	30	9·9	9·7	253	28	10·6	10·3	
1·0 „	9	7·2	6·9	290	13	7·5	7·2	289	14	10·3	9·4	288	24	9·8	9·2	255	23	10·0	9·7	255	26	10·2	9·9	
1·5 „	6	7·0	6·7	307	10	8·1	7·6	300	8	8·8	7·8	291	14	9·9	8·9	255	16	11·2	10·4	262	18	8·9	8·5	
2.0 „	3	4·0	3·4	330	6	8·3	7·3	306	3	7·7	6·8	305	5	8·3	7·6	282	11	9·0	7·7	270	8	6·2	5·4	
2·5 „	2	3·0	3·0	233	3	4·2	3·8	288	2	3·7	3·3	312	3	6·5	4·5	300	3	4·8	3·3	256	7	6·1	5·6	
3·0 „	1	3·0	3·0	290	2	3·5	2·1	268	2	3·0	1·0	252	3	6·8	4·3	338					6	5·5	4·9	
4·0 „					1	5·0	5·0	125	2	6·3	6·3	150	1	4·0	4·0	70					4	4·9	2·9	
5·0 „					1	5·0	5·0	125	2	3·5	3·4	223									4	3·1	2·2	
6·0 „					1	3·0	3·0	200	2	2·3	1·8	215									4	3·1	1·0	
7·5 „																					3	3·8	3·7	
9·0 „																					3	6·3	5·7	

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9 Km. above sea level.

JUNE 1947

Height in km.	VIZAGAPATAM												DEOLALI											
	0100				0700				1600				0700											
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	2·6	2·0	251	30	2·4	1·9	247	30	2·9	2·6	207	23	4·3	4·2	246								
0·15 a ground.	30	7·9	7·1	246	30	6·7	6·3	251	30	6·3	5·8	218	23	8·6	8·5	252								
0·6 a. s. l.	28	12·4	11·4	240	30	10·9	10·6	255	29	7·0	6·3	252	23	5·5	5·5	252								
1·0 „	27	11·6	10·7	257	30	11·0	10·3	260	29	7·1	6·7	264	23	10·5	10·3	255								
1·5 „	25	8·7	8·0	266	29	9·3	8·0	278	30	7·2	6·3	287	23	10·6	10·3	265								
2·0 „	21	8·1	7·0	278	29	8·0	6·5	290	30	6·7	5·8	293	15	8·4	7·0	280								
2·5 „	8	6·1	4·0	310	24	6·4	4·7	310	27	5·9	4·9	295	8	4·3	3·2	317								
3·0 „	4	6·1	3·8	335	21	6·5	4·1	315	26	6·5	4·8	297	7	4·4	1·7	350								
4·0 „	2	7·0	6·7	60	17	6·4	3·9	340	20	6·5	4·8	297	4	2·4	1·8	90								
5·0 „					9	6·7	4·3	308	17	8·0	6·7	294	3	4·5	3·2	84								
6·0 „					5	5·7	590	263	11	7·2	6·5	291	3	3·3	2·2	105								
7·5 „					2	4·3	3·8	300	6	5·7	4·8	304	1	4·0	4·0	35								
9·0 „					1	4·0	4·0	195	4	3·7	3·2	16												

Height in km.																								
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.																								
0·15 a ground.																								
0·6 a. s. l.																								
1·0 „																								
1·5 „																								
2·0 „																								
2·5 „																								
3·0 „																								
4·0 „																								
5·0 „																								
6·0 „																								
7·5 „																								
9·0 „																								

Table B—Monthly mean directions and velocities of upper winds

Winds above 9 Km above sea level.

JUNE 1947

Height in kms.	n	V	v	D	Ht. in kms.	n	V	v	D	Ht. in kms.	n	V	v	D	Ht. in kms.	n	V	v	D
	COOCH BEHAR					JHARSUGUDA–(*contd.*)					NAGERCOIL–(*contd.*)					TRICHINOPOLY–(*con*			
10·0	1	6·0	6·0	340	14·0	2	9·5	9·5	102	13·0	1	27·0	27·0	80	11·0	3	6·2	4·6	135
11·0	1	10·0	10·0	345	15·0	1	16·0	16·0	100	14·0	1	32·0	32·0	90	12·0	2	13·0	10·7	108
12·0	1	8·0	8·0	340	16·0	1	16·0	16·0	100	15·0	1	33·5	33·5	90	13·0	1	14·0	14·0	125
	CUTTACK				17·0	1	22·5	22·5	100	16·0	1	52·0	52·0	90	14·0	1	20·5	20·5	130
10·0	2	7·5	7·4	238	18·0	1	24·5	24·5	85		SAHARSA					VERAVAL			
11·0	1	9·5	9·5	250	19·0	1	24·0	24·0	80	10·0	1	7·0	7·0	185	10·0	2	8·3	8·1	95
12·0	1	7·0	7·0	250		JUBBULPORE				11·0	1	7·0	7·0	180		VIZAGAPATAM			
13·0	1	4·0	4·0	180	10·0	2	17·5	8·7	258	12·0	1	9·0	9·0	185	10·0	3	7·2	7·1	43
14·0	1	5·5	5·5	145	11·0	1	11·0	11·0	50	13·0	1	9·0	9·0	145	11·0	2	6·5	5·1	61
15·0	1	10·0	10·0	105		MASULIPATAM				14·0	1	7·0	7·0	190	12·0	2	10·5	9·4	97
16·0	1	14·5	14·5	80	10·0	4	3·4	2·9	94	15·0	1	3·0	3·0	180	13·0	1	11·5	11·5	65
17·0	1	14·0	14·0	100	11·0	4	7·6	7·5	96	16·0	1	2·0	2·0	60	14·0	1	12·0	12·0	60
	HYDERABAD (Dn.)				12·0	3	12·2	12·1	88	17·0	1	10·0	10·0	250	15·0	1	16·0	16·0	60
10·0	1	7·0	7·0	250	13·0	2	16·5	16·5	102	18·0	1	17·0	17·0	220	16·0	1	13·0	13·0	80
	JHARSUGUDA				14·0	1	30·0	30·0	90	19·0	1	22·0	22·0	200					
10·0	5	8·1	1·3	6		NAGERCOIL				20·0	1	34·0	34·0	210					
11·0	4	6·5	1·3	94	10·0	3	10·6	8·9	114	21·0	1	32·0	32·0	215					
12·0	2	8·5	8·5	90	11·0	1	23·0	23·0	85		TRICHINOPOLY								
13·0	2	7·5	7·5	92	12·1	1	25·0	25·0	85	10·0	3	4·8	3·5	103					

S10DGOb—325—4-4-51-GIPS

RegisteredNo.B-3097.

INDIA WEATHER REVIEW, 1947

Monthly Weather Report

July

APR 25 1952
WEATHER BUREAU

Published by authority of the Government of India.

Chief features.—(*i*) Increased activity of the monsoon over the central parts of the country, northeast India and the Peninsula resulting in normal or excess rainfall but well distributed during the month; (*ii*) Continuation of the drought in Gujarat and northwest India ; (*iii*) Two depressions from the Bay of Bengal, and one land depression.

A depression, formed over the northeast Central Provinces on the 1st of July and moving westward weakened over the west Central Provinces on the 3rd. The monsoon stimulated by the above depression continued to be active over the country generally during the first ten days of the month when widespread rain fell everywhere except northwest India and the eastern half of the Peninsula. Rainfall was locally very heavy in the central parts, the east United Provinces, Bengal and Assam from the 6th to 10th, Cherrapunji recording nearly 60″ of rain in 4 days. A fresh monsoon pulse reached the Bay across southeast Madras on the 9th and a depression formed over the head of the Bay on the next day. The depression rapidly intensified into a cyclonic storm and moving westward crossed coast near Gopalpur on the 12th afternoon. Weakening it lay as a shallow low extending from Orissa to west Central India on the next morning. A further strengthening of both branches of the monsoon resulted in the formation of another depression in the north Bay on the morning of the 15th. It crossed coast near Chandbali on the 16th and moving westwards as a shallow low up to east Central India, persisted there for a week. Under the influence of these two depressions both the branches of the monsoon remained active and well distributed moderate to heavy rain fell over the country outside northwest India and the southeastern divisions of the Peninsula from the 15th to 22nd. The monsoon was specially vigorous along the Konkan coast from 15th to 20th and very heavy rain fell there and in Gujarat and east Rajputana during this period, while locally very heavy rain also occurred in the northern divisions of the United Provinces and around Central India, Lucknow recording 12″ of rain on the 17th and Brijnagar 10″ on the 19th.

After the 22nd there was a marked weakening of the monsoon generally, although the Bay branch strengthened once again under the influence of a shallow 'low' that formed over Chota Nagpur on the 26th and moved slightly northwestwards before becoming unimportant. Between the 26th and 29th rainfall was widespread over Central India, the Central Provinces, the east United Provinces and northeast India and locally heavy in the east and north Central Provinces, west Central India, north Bihar and Bengal. On the last two days of the month rainfall was confined to the Konkan, Malabar, northeast India and the sub-montane regions of the United Provinces.

The total rainfall of the month was in slight to moderate excess in the Bay Islands, Bengal, the east United Provinces, Berar, the Central Provinces and the Madras Presidency outside Malabar and normal in Assam, Bihar, the west United Provinces, east Central India, the Konkan, the Bombay Deccan, south Hyderabad, Mysore and Malabar. It was in slight defect in Kashmir, east Rajputana, west Central India and north Hyderabad, and in moderate to large defect elsewhere except in Sind where no rain fell. Averaged over the plains of India the rainfall for the month was one per cent in excess.

Maximum temperature was above normal in the Punjab, the Northwest Frontier Province and Rajputana and below normal in the Madras Deccan and the north Madras Coast. Elsewhere it was normal.

Minimum temperature was above normal in the east and north Punjab and west Rajputana and normal elsewhere.

Relative humidity was in excess in south Hyderabad and in defect in the east and north Punjab, the Northwest Frontier Province, Baluchistan and west Rajputana. Elsewhere it was normal.

The cloud amount was in excess in the east United Provinces and southeast Madras and in defect in the Punjab, the Northwest Frontier Province, Baluchistan, Sind and west Rajputana. It was normal elsewhere.

Table I contains the divisional and sub-divisional means of rainfall, temperature and humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

N. B.—The Indian Standard Time used in this publication is 5 hours and 30 minutes in advance of G. M. T.

Poona 5:
The 18th September, 1947

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

M/S&DGOb

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 hu %	
		Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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 ..	261	999·3	+0·9	997·2	84·7	+0·9	87	2	75·6	+0·5	71	21	80·8	80·3	77·8	77·1	31·2	+0·8	30·5	87	0
Assam																					
Dibrugarh (*R*) ..	348																				
Sibsagar	317	990·6	—0·9	987·0	89·0	—0·2	95	1	78·3	+0·6	73	6	81·6	86·7	79·3	80·9	33·1	+0·7	33·3	89	—1
Tezpur	258	992·7	—0·9	988·8	89·5	+0·1	93	4 days	77·7	+0·1	75	4 days	80·8	86·7	79·1	81·5	33·3	+1·2	34·5	92	+3
Gauhati	182	994·4	—0·9	991·0	88·3	—1·4	92	5 days	78·1	—0·1	75	7	81·6	85·9	79·2	80·9	32·9	+0·4	33·4	90	+4
Dhubri	115	997·1	—0·4	994·3	86·5	+0·5	92	16	78·2	0	74	8	80·8	84·6	78·9	78·0	33·3	+1·1	29·8	91	+3
Silchar	96	998·9	—0·6	995·4	88·1	—2·1	97	17	77·5	+0·3	76	7 days	81·0	84·7	78·6	80·0	32·3	0	32·9	90	+2
Srimangal ..	69	999·2	—0·8	996·1	89·4	—0·9	93	2,17	77·3	+0·9	76	4 days	80·2	83·3	78·1	79·9	32·0	+0·3	33·3	90	+3
Bengal																					
Cox's Bazar ..	38	1,001·4	+0·2	999·4	84·2	—1·1	90	12,13	76·6	+0·2	75	5 days	79·7	80·1	77·8	78·0	31·7	0	31·9	93	+4
Chittagong ..	87	999·2	—0·2	997·0	84·6	—1·4	90	12,13	76·5	—0·2	75	8 days	80·0	81·1	77·2	78·1	30·5	—0·5	31·5	88	+1
Noakhali (*R*) ..	22																				
Comilla ..	29	1,000·3	—0·6	997·5	87·0	—0·7	91	12,17	77·8	+0·7	76	2,6,11	81·3	83·7	78·7	79·9	32·4	+0·4	33·6	89	+3
Brahmanbaria ..	32	999·8	..	997·0	87·9	—1·6	92	16	77·9	+2·1	76	6	82·2	83·7	79·1	80·1	32·6	+1·9	33·5	87	+5
Narayanganj (*R*)	26																				
Mymensingh ..	62	998·6	—1·0	995·8	88·5	+0·6	93	17,18	78·5	+0·2	76	6	82·3	84·9	79·7	80·9	33·5	+1·0	34·2	89	+1
Faridpur (*R*) ..	46																				
Barisal (*R*) ..	11																				
Khulna (*R*) ..	16																				
Jessore (*R*) ..	26																				
Satkhira	16	999·3	0	996·8	88·0	—0·5	92	10,11,25	77·9	—0·5	75	31	83·1	85·2	80·0	80·8	33·6	0	33·8	87	0
Dum Dum ..	33	998·0	..	995·3	89·8	..	95	6	79·3	..	77	2,21,31	83·2	85·8	79·1	80·2	32·1	..	32·7	82	..
Calcutta	21	998·4	—0·8	995·6	90·1	+0·6	95	10,11,12	79·7	+1·1	78	4 days	82·7	85·9	79·9	80·9	33·9	+1·0	33·9	88	+2
Sangor Island ..	10	998·7	—0·7	996·5	86·8	—0·6	89	11,12,16	80·3	+0·2	76	17	83·9	84·4	80·6	80·8	34·1	+0·8	34·3	87	+2
Sandheads ..	28	998·0	—0·8	996·2	..	..	..	..	..	..	..	..	83·5	83·6	82·4	82·0	37·4	+3·7	36·7	95	+10
Midnapore ..	149	993·6	—1·1	991·3	89·8	+0·1	95	10	78·6	—0·4	74	2	81·6	85·2	78·6	80·0	32·0	0	32·7	88	+3
Burdwan ..	106	995·3	—0·9	992·4	90·0	—0·1	94	10	78·8	—0·2	77	4 days	82·3	86·1	79·0	80·4	32·3	—0·4	32·9	87	0
Krishnagar ..	48	997·3	—1·2	994·7	90·8	+0·9	94	4,10,11	78·6	0	76	8	82·7	85·5	80·1	81·2	33·9	+0·8	34·3	89	+3
Asansol	414	984·4	—0·4	981·5	90·2	+0·4	96	10	77·8	0	67	10	82·1	85·5	78·7	79·7	31·9	—0·5	31·9	85	—3
Berhampore ..	62	996·9	—1·0	994·0	91·7	+2·0	95	4 days	79·2	+0·3	73	10	83·4	86·5	80·2	81·3	33·9	+0·6	34·2	86	—1
Bogra	63	997·3	—1·3	994·2	90·3	+1·1	97	19	79·3	+0·8	76	6	82·6	86·5	79·7	81·3	33·3	+0·2	34·3	86	—1
Malda	103	995·7	—0·9	992·8	89·6	—0·1	94	1,2	79·3	+0·3	76	8	82·9	85·3	79·8	80·3	33·4	—0·1	33·1	87	+2
Dinajpur	123	995·6	—0·8	992·5	89·5	+0·3	94	4	79·2	+0·3	76	9	82·2	86·5	79·6	81·0	34·5	+1·8	33·6	89	+1
Jalpaiguri ..	271	991·2	—0·9	988·2	87·3	—1·3	91	4 days	77·1	—0·2	74	6,8	79·3	84·6	77·6	79·9	31·7	—0·7	32·8	92	+1
Orissa																					
Balasore	65	996·6	—1·4	994·1	88·8	—0·3	93	10	78·7	+0·2	75	9	82·3	84·4	79·0	79·9	32·3	+0·2	32·8	86	+1
Chandbali ..	20	998·7	—0·4	996·6	86·4	+0·2	93	8	78·6	+0·5	75	31	82·3	83·9	79·2	79·7	32·7	+0·4	32·8	87	0
Puri	20	999·1	—0·6	996·9	86·5	—0·8	90	24	80·5	+0·7	76	9	82·9	83·6	79·5	79·8	32·9	+0·2	32·9	86	+1
Gopalpur	56	998·0	—0·7	995·7	86·3	—1·4	91	20	79·2	+0·1	74	4	82·7	82·6	79·5	80·1	33·1	+1·2	33·9	86	+2
Cuttack	87	996·2	—1·4	994·0	88·1	—1·4	93	23	79·0	+0·7	76	9	81·5	83·6	78·3	79·2	31·7	+0·5	32·0	86	+3
Angul	455	964·6	—0·9	961·8	86·2	0	92	3,6	77·6	+0·4	75	27,31	81·4	83·3	77·2	77·9	30·1	+0·1	30·1	82	—1
Sambalpur ..	486	982·4	—1·3	980·2	86·6	—0·6	93	12	76·8	—0·3	74	27,31	78·8	83·1	77·0	79·2	30·8	+0·7	32·3	92	+5

R—Register not received.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
9·3	+1·0	9·1	19·28	+3·85	5·59	10	20	—0·5	13·8	—2·1	0	0•	0	0	0	24	7	0	0	0	0	0	0	0	24	7	0	0	Port Blair.
																													Assam
																													Dibrugarh (*R*)
9·9	+0·9	8·2	17·68	—0·31	2·59	5	20	+0·3	3·4	+1·2	2	10	2	3	6	3	0	0	5	8	11	1	0	1	4	0	3	3	Sibsagar.
9·0	+0·7	5·7	26·14	+12·45	5·62	6	18	+1·1	1·3	—0·4	0	2	12	4	1	1	1	0	10	0	1	7	3	1	0	0	0	19	Tezpur.
9·2	+1·2	7·9	18·51	+6·23	3·63	29	18	+2·7	2·3	+0·9	3	7	5	3	3	4	1	1	4	2	5	4	1	3	6	2	7	1	Gauhati.
8·5	+1·0	7·2	14·74	—2·45	2·81	7	19	+2·9	4·3	+0·6	1	4	7	2	2	3	4	0	8	1	2	3	4	6	2	1	1	11	Dhubri.
9·5	+1·7	8·5	16·97	—3·55	2·06	9	26	+3·3	1·6	—0·1	1	13	3	5	1	1	1	1	5	3	4	2	2	1	3	8	6	2	Silchar.
7·8	+1·0	7·9	14·45	+0·54	3·54	12	17	—3·8	4·7	+1·0	1	1	3	13	11	1	0	0	1	0	1	0	7	12	4	2	2	3	Srimangal.
																													Bengal
8·9	+0·8	9·1	56·39	+20·87	8·55	18	27	+4·0	6·8	—1·9	0	0	0	15	3	4	0	0	9	0	0	0	14	9	4	0	0	4	Cox's Bazar.
9·0	+1·1	9·7	60·12	+36·59	10·23	30	25	+6·1	8·8	+0·8	1	0	4	16	9	0	1	0	0	0	0	0	7	22	2	0	0	0	Chittagong.
																													Noakhali (*R*)
9·3	+2·0	9·0	19·27	+2·85	3·56	31	23	+4·2	9·5	+4·1	0	0	0	17	12	1	0	0	1	0	0	0	3	23	4	0	0	1	Comilla.
7·1	..	6·7	16·26	+4·95	3·95	31	15	—1·6	5·5	..	0	0	7	5	15	1	0	0	3	0	0	0	12	13	2	0	0	4	Brahmanbaria.
																													Narayanganj (*R*)
9·1	+0·5	9·0	14·33	—1·69	3·11	8	14	—5·2	3·5	+0·9	0	1	11	11	3	0	0	0	5	0	0	1	17	3	0	0	0	10	Mymensingh.
																													Faridpur (*R*)
																													Barisal (*R*)
																													Khulna (*R*)
8·5	+1·1	8·4	10·43	—3·07	2·53	20	18	—0·4	4·9	+2·1	0	0	4	6	14	6	0	0	1	0	0	5	8	15	2	0	0	1	Jessore (*R*)
																													Satkhira.
8·9	..	8·6	14·52	..	5·74	20	14	..	9·0	..	0	0	5	3	10	8	4	0	1	0	0	4	5	13	7	2	0	0	Dum Dum.
8·8	+0·1	8·5	16·03	+3·22	5·47	20	16	—1·5	4·4	+0·7	0	1	4	3	5	13	3	0	2	0	0	1	5	9	11	2	0	3	Calcutta.
7·7 (*b*)	—1·0	7·5 (*c*)	16·80 (*b*)	+1·36	5·90	26	16 (*b*)	—0·5	19·5	+7·4	0 (*b*)	2	2	2	2	22	1	0	0	0	0	1	2	8	19	1	0	0	Saugor Island.
6·5	—1·3	7·0	13·45	..	..	..	16	..	..	..	0	1	1	2	4	16	3	1	0	0	0	2	2	6	13	4	0	0	Sandheads.
8·6	+1·4	9·1	11·15	—1·59	1·82	17	17	+0·7	4·5	+2·0	0	2	5	0	7	14	1	0	2	0	3	1	6	13	7	0	0	1	Midnapore.
7·8	—0·5	7·9	20·37	+7·57	4·75	21	19	+3·0	6·5	+3·9	0	0	7	4	3	11	3	1	2	0	1	7	4	4	9	3	1	2	Burdwan.
9·0	+0·8	8·9	12·79	+1·54	5·90	31	16	—0·3	4·9	+1·3	1	1	3	10	10	4	2	0	0	1	0	3	11	11	4	1	0	0	Krishnagar.
9·0	+0·5	8·4	14·44	+0·75	2·87	10	15	—2·7	6·0 (*b*)	+1·1	0	0	6	7	3	5	3	0	7	0	0	4	8	5	4	3	1	6	Asansol.
8·5	+0·1	7·9	11·46	+0·59	2·52	6	21	+4·9	3·8	+0·4	0	0	11	4	12	0	0	1	3	0	0	9	1	16	0	3	0	2	Berhampore.
9·2	+1·3	8·0 (*a*)	12·99	+0·16	2·99	8	16	—0·8	3·1	+0·8	0	1	10	7	5	4	1	0	3	0	1	5	11	8	4	1	0	1	Bogra.
8·8	+1·6	8·1	17·43	+5·95	4·14	6	13	—1·8	5·7	+0·4	1	0	11	8	7	3	1	0	0	0	3	10	6	6	2	1	1	1	Malda.
9·8	+2·0	8·8	16·91	+1·44	2·50	7	19	+2·3	0·4	—2·5	0	0	5	0	0	0	0	0	26	0	1	7	1	0	0	0	0	22	Dinajpur.
9·5	+2·9	8·7	29·97	—2·25	4·48	29	27	+4·7	3·9	+1·9	1	12	14	1	1	0	0	1	1	2	4	10	6	3	1	1	1	3	Jalpaiguri.
																													Orissa
9·4	+2·0	9·9	11·52	—0·28	2·00	11	19	+4·9	7·9	+3·6	1	2	3	0	9	16	0	0	0	1	0	0	1	14	13	0	1	1	Balasore
8·7	+0·7	8·8	6·40	—10·34	0·97	19	13	—3·8	7·1	0	1	1	1	1	5	15	5	0	3	1	0	1	3	14	7	4	0	1	Chandbali.
8·2	+1·0	8·8	9·16	—1·16	4·00	16	9	—3·0	19·0	+7·7	0	1	0	1	0	22	6	1	0	0	0	1	0	1	28	3	1	0	Puri.
7·8	+1·5	8·8	5·08	—2·08	1·35	14	9	—0·7	18·1	+9·2	0	1	0	1	4	22	1	0	2	0	1	0	0	5	23	1	1	0	Gopalpur.
8·2	+0·5	8·4	13·66	+0·77	3·70	16	17	+1·1	4·5	+1·9	0	1	1	0	3	9	4	1	12	0	0	0	1	3	6	3	2	16	Cuttack.
8·7	+0·8	9·3	8·12	—4·35	1·26	26	18	+2·8	5·1	+0·1	0	2	1	1	1	1	6	3	16	0	1	2	3	1	4	10	4	6	Angul.
9·3	+1·0	9·5	14·10	—6·46	2·55	15	22	+2·4	6·7	+3·8	0	2	0	0	13	14	0	0	2	0	2	0	0	13	12	4	0	1	Sambalpur.

(*a*)—mean of 30 days. (*b*)—mean of 29 days. (*c*)—mean of 28 days. (*h*)—mean of 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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
Chota Nagpur.																						
Jamshedpur ..	423	984·1	—0·7	981·3	89·7	+0·4	96	5	78·8	+0·2	74	10	81·5	85·4	77·6	79·2	30·5	—0·5	30·2	83	—1	7
Chaibasa ..	742	973·4	—0·7	970·7	89·3	—0·1	95	4,5,10	77·5	0	72	10	80·7	85·6	77·2	79·4	30·3	+0·2	31·6	85	+1	7
Ranchi ..	2,150	926·9	—0·8	924·7	84·1	—0·3	92	30	72·9	—0·4	71	5 days.	76·4	79·6	73·5	75·0	26·6	—0·6	27·4	86	—2	8
Hazaribagh ..	2,006	931·6	—0·9	929·3	84·7	—0·5	90	4	74·4	+0·4	72	10	77·3	80·9	74·7	76·6	28·0	+1·0	29·0	88	0	8
Daltonganj ..	725	973·3	—1·1	970·2	90·7	—0·4	96	5	78·4	+0·3	76	4 days.	82·1	86·7	77·9	79·2	33·1	+3·3	30·7	82	—1	7
Dhanbad ..	839	969·9	..	..	86·1	..	92	10	76·4	..	74	11,13,14	80·7	..	77·6	..	31·0	..	..	87	..	..
Bihar.																						
Purnea ..	124	995·0	—1·0	992·0	89·5	—0·1	93	5,20,21	79·1	+0·4	76	6,8,9	82·5	86·4	79·8	81·0	33·6	+0·5	33·6	89	+1	7
Darbhanga ..	161	993·3	—1·0	990·3	90·6	+0·9	95	1,2,21	79·4	0	75	10	82·9	88·0	79·9	82·0	33·5	+1·0	34·6	88	+2	7
Motihari ..	218	990·9	—1·4	988·1	..	..	..	..	79·9	+1·3	76	7,8,9	83·3	85·9	80·0	80·9	33·4	+0·7	33·7	89	+5	8
Patna ..	173	992·0	—1·4	989·3	90·7	0	97	5	80·2	+0·3	76	8	83·0	86·8	79·9	81·0	33·5	+0·4	33·4	87	+3	7
Dehri ..	..	985·8	..	982·7	91·5	..	99	1	79·7	..	76	7	83·3	87·6	79·3	80·8	32·4	..	32·7	84	..	7
Gaya ..	365	985·2	—1·3	982·3	91·5	—0·6	99	1	79·8	+1·2	75	6	83·4	87·4	79·3	80·2	32·4	+1·7	32·0	83	+5	7
Naya Dumka ..	489	982·1	—1·0	979·1	89·5	+0·1	97	20	78·1	+0·1	76	8,31	81·9	85·3	79·1	80·2	32·6	+0·9	32·9	88	+3	7
Sahour ..	122	994·5	—0·8	991·5	89·7	—0·6	94	4,5	79·4	0	76	8,9	82·8	86·2	80·2	81·3	34·1	+0·6	34·2	89	+3	8
U. P. East.																						
Gonda ..	360	985·8	..	983·0	89·8	—1·5	96	3	79·4	0	75	31	82·1	87·9	79·4	81·4	33·1	+0·4	33·7	88	+3	7
Gorakhpur ..	254	989·1	—1·6	986·7	90·5	—0·4	99	12	80·1	+1·0	75	7	83·1	87·8	79·7	81·0	33·5	+0·8	33·3	86	0	7
Banaras ..	250	988·9	—1·4	986·2	91·9	—0·3	96	5 days	80·0	+0·3	76	7, 8	83·4	87·8	80·5	82·1	34·3	+2·2	34·9	88	+5	7
Allahabad (Bamrauli)	322	986·5	—1·3	983·9	90·9	—1·2	97	11	79·7	—0·1	74	7	83·1	88·5	79·5	81·2	32·7	+0·5	33·0	85	+3	7
Fatehpur ..	375	983·7	..	981·9	91·3	—1·8	100	15	80·5	+0·8	76	7,26,27	83·2	88·9	79·9	81·3	33·6	+0·5	33·1	89	+5	7
Cawnpore ..	413	983·8	—0·7	981·0	90·9	—1·5	98	15	80·0	+0·1	75	1,7	82·4	88·9	79·2	81·0	32·6	+0·7	32·6	86	0	7
Lucknow ..	371	985·0	—1·1	982·4	90·5	—1·9	98	15	80·2	+0·7	76	1,6,7	82·9	88·3	79·8	81·9	33·3	+1·2	34·4	88	+6	7
Bahraich ..	407	984·3	—0·7	982·0	90·6	—1·3	95	3,10	77·4	—1·7	73	18,31	82·5	88·6	80·3	83·9	34·3	+2·4	31·5	92	+9	8
U.P., West.																						
Jhansi ..	824	968·8	—2·5	967·5	90·3	—2·4	101	12	79·3	+0·2	73	16	82·0	88·2	78·3	80·1	31·4	+1·9	31·3	84	+5	7
Agra ..	553	978·9	—0·7	976·8	95·7	+1·9	104	12,15,16	81·2	+0·8	76	17	84·3	92·5	78·5	81·0	30·6	+0·2	30·9	77	0	6
Mainpuri ..	516	979·7	—1·3	977·7	93·9	—1·2	101	11	80·3	0	73	1	84·1	90·0	80·4	82·6	33·7	+2·3	34·7	86	+7	7
Aligarh ..	615	976·7	..	973·8	97·0	+2·8	107	12	81·2	+1·2	71	19	85·5	93·7	80·0	80·9	32·5	+1·2	30·2	97	—2	5
Bareilly ..	568	978·1	—1·5	975·5	91·4	—0·7	98	9	79·8	+0·9	75	6,17	83·8	87·5	79·9	81·2	33·2	+1·3	33·5	84	—1	7
Roorkee ..	899	968·3	—0·2	964·2	91·6	—0·5	102	11	77·9	—0·2	70	19	83·7	89·4	78·2	74·4	28·5	—1·2	28·8	76	—5	6
Dehra Dun ..	2,239	923·9	—1·1	921·7	87·0	+0·8	94	10,11	74·0	+0·2	68	17	78·3	83·9	75·2	77·3	28·6	+1·6	29·4	87	0	7
Punjab, East and North.																						
New Delhi ..	714	972·5	—2·0	969·8	99·3	+4·0	105	12,15	82·2	+1·3	75	26	86·5	96·5	78·5	80·1	29·6	—0·9	28·8	70	—7	4
Hissar ..	725	972·6	—0·8	969·4	106·0	+6·4	117	13	84·7	+3·5	76	17	89·6	103·0	79·3	81·8	29·5	+0·2	27·4	62	—8	3
Ambala (*R*) ..	892																					
Ludhiana ..	812	969·3	—1·4	966·2	102·8	+5·5	111	12	82·0	+1·7	70	16,17	87·2	100·0	78·9	81·6	30·1	+1·0	28·3	69	—6	4
Lahore ..	702	972·2	—1·6	969·1	107·7	+8·1	113	4,5	84·6	+4·5	74	16	88·5	104·6	78·6	80·8	28·9	—0·5	25·0	62	—9	3
Sialkot ..	830	968·7	—1·1	964·8	101·1	+3·7	110	4,5	85·6	+6·0	70	16	96·2	99·1	78·6	80·9	29·9	0	26·3	71	—6	4
Rawalpindi ..	1,674	940·8	—1·4	937·9	102·3	+4·5	114	5	79·2	+2·1	70	26	94·6	98·2	74·2	76·3	24·6	—1·9	22·0	62	—6	3
Jhelum ..	765	970·1	..	967·4	101·5	..	112	5	80·9	..	72	17	96·2	99·1	77·8	80·6	28·7	..	27·2	66	..	4

(*R*) Register not received.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													Chota Nagpur.
9·1	+0·2	8·9	8·92	—4·24	2·06	10	16	—1·4	5·9	+1·7	0	0	6	2	1	9	9	1	3	0	0	9	2	1	8	6	1	4	Jamshedpur.
9·5	+1·4	9·7	7·97	—5·14	1·92	17	17	+0·8	2·7	+0·2	0	4	1	4	1	16	2	0	3	1	2	1	3	0	13	3	0	8	Chaibasa.
9·1	+0·8	8·4	10·20	—5·25	1·75	17	14	—4·5	..	..	1	0	6	1	14	3	0	0	6	1	1	3	1	14	1	0	0	10	Ranchi.
9·3	+0·4	8·9	11·32	—1·71	2·07	17	18	+0·2	5·6	—0·5	0	1	4	6	2	6	8	2	2	0	1	4	5	7	3	8	2	1	Hazaribagh.
8·8	+2·6	8·6	11·84	—1·56	3·66	25	15	—0·6	3·2	—0·4	0	0	7	0	0	1	11	0	12	1	1	7	2	1	2	8	0	9	Daltonganj.
..	..	..	10·19	..	3·28	31	17	..	6·5	..	1	0	5	7	3	8	5	1	1	..	..	..	..	..	..	..	..	..	Dhanbad.
																													Bihar.
8·7	+1·3	7·2	15·79	+1·47	3·90	5	15	—1·6	4·0	+1·4	0	6	16	5	1	2	0	1	0	0	0	22	2	1	1	2	1	2	Purnea.
8·3	+0·7	7·8	19·28	+7·16	5·58	13	17	+3·1	5·5	+2·0	0	13	10	3	1	1	2	0	1	0	9	8	7	1	3	1	2	0	Darbhanga.
9·1	+2·8	7·2	24·44	+9·44	5·32	30	15	+0·9	4·0	—0·5	0	0	20	2	0	0	1	0	8	0	0	15	0	1	0	2	0	13	Motihari.
9·0	+0·7	8·1	7·96	—3·62	1·51	8	14	+0·3	5·5	+1·2	0	6	12	6	0	1	3	1	2	0	5	11	4	2	2	2	0	5	Patna.
8·9	..	8·7	9·21	—2·31	1·55	4	16	+1·8	3·8	..	1	0	8	5	3	8	4	1	1	1	13	1	3	1	6	0	2	4	Dehri.
9·2	+2·7	9·2	15·95	+2·74	5·94	7	16	+0·2	7·4	+1·7	0	2	10	3	4	8	1	0	3	3	2	10	2	2	1	4	1	6	Gaya.
5·7	—1·6	6·2	14·43	+0·61	3·23	22	20	+2·0	3·9	+1·6	0	3	5	6	4	3	2	0	8	0	4	2	10	1	3	0	1	10	Naya Dumka
9·7	+1·3	8·7	17·45	+7·49	2·72	5	19	+3·9	6·0	0	1	1	14	10	1	1	2	0	1	1	1	16	7	0	2	3	1	0	Sabour.
																													U. P. East.
8·8	+1·2	8·5	21·85	+7·18	5·10	18	20	+6·0	4·2	+0·5	0	0	27	0	0	2	1	0	1	2	0	19	5	1	1	1	1	1	Gonda.
8·6	+2·6	4·8	21·64	+8·01	6·46	31	16	+1·7	4·2	+1·9	0	8	14	2	2	2	1	1	1	1	7	12	4	0	0	3	1	3	Gorakhpur
8·8	+0·9	8·9	11·30	—0·51	2·96	7	15	+0·7	5·7	+2·2	1	3	11	4	1	5	2	1	3	3	4	5	1	1	4	7	1	5	Benaras.
9·1	+1·0	9·1	6·20	—3·64	3·30	30	12	—3·2	4·9	+0·1	0	4	7	3	4	3	3	2	6	2	5	5	3	1	4	7	2	2	Allahabad (Bamraull).
8·0	+1·0	8·0	10·35	+0·32	2·92	26	7	—6·9	2·6	—1·0	0	2	7	1	1	4	3	1	12	0	4	4	0	0	3	4	3	13	Fatehpur.
8·9	+3·3	8·5	14·45	+3·70	3·55	7	12	—0·5	7·0	—0·3	3	2	12	3	2	5	2	1	1	0	5	7	2	1	5	6	0	5	Cawnpore.
9·1	+1·9	8·3	22·99	+10·99	12·27	17	15	+1·6	2·3	+0·1	0	0	16	0	0	3	1	1	10	4	0	9	2	0	2	2	1	9	Lucknow.
8·5	+2·9	8·8	21·72	+8·48	4·68	26	16	+4·1	5·1	+2·3	0	2	12	9	0	0	1	0	7	0	2	9	8	0	0	1	2	9	Bahraich.
																													U. P., West.
7·9	+2·0	8·5	14·70	+2·89	4·02	21	12	—1·8	3·7	—0·5	0	2	0	1	1	6	11	4	6	1	0	0	0	0	3	15	6	0	Jhansi.
7·9	+1·3	5·1	10·53	+1·98	3·85	17	9	—2·0	3·5	—0·9	3	3	3	0	5	7	2	0	8	3	2	5	2	7	4	0	1	7	Agra.
6·3	—0·3	6·1	6·01	—1·53	1·29	17	10	+0·4	3·3	+1·1	1	0	10	7	3	3	4	2	1	1	1	7	5	1	4	5	4	3	Mainpuri.
6·7	+0·7	6·6	6·91	—1·86	4·89	19	6	—4·3	5·8	+1·2	2	1	14	2	4	1	3	0	4	0	1	11	3	0	1	8	0	7	Aligarh.
8·9	+1·6	8·7	16·89	+3·93	4·99	17	9	—3·8	3·5	+1·3	1	4	9	7	1	1	2	1	5	2	4	6	3	2	2	6	1	5	Bareilly.
8·1	+1·7	6·0	12·36	+0·06	3·13	17	13	+1·1	..	..	0	1	0	21	0	0	0	0	9	1	0	1	16	0	0	0	6	6	Roorkee.
7·2	—0·5	6·0	32·95	+6·65	5·37	7	24	+3·7	1·6	0	3	1	1	2	2	0	1	2	19	2	1	1	5	3	0	3	3	13	Dehra Dun.
																													Punjab, East and North.
6·8	+0·5	7·4	3·64	—3·39	1·42	19	4	—5·0	7·5	..	0	3	6	8	4	1	6	1	2	1	2	9	5	3	1	6	2	2	New Delhi.
1·5	—2·0	1·9	0·88	—3·40	0·37	19	2	—4·0	7·6	+2·1	0	1	1	7	5	7	6	3	1	1	2	2	5	2	3	6	6	4	Hissar.
																													Ambala. (*R*)
4·0	—0·9	2·4	3·16	—4·91	1·51	23	7	—1·4	3·9	+1·9	0	7	0	14	0	6	0	2	2	2	9	2	2	0	8	2	5	1	Ludhiana.
1·3	—2·7	1·6	0·19	—5·26	0·14	20	1	—4·9	4·6	+2·1	0	2	5	16	0	2	0	0	6	1	6	4	8	0	1	5	1	5	Lahore.
3·9	—0·1	2·8	9·31	+0·96	2·89	23	8	—1·0	3·7	+1·5	1	6	5	10	0	1	0	3	5	0	15	4	0	0	1	1	4	6	Sialkot.
4·1	—0·1	3·2	7·28	—0·79	1·07	25	12	+3·2	3·2	+1·2	0	7	8	6	1	2	2	1	4	0	3	4	6	3	5	5	4	1	Rawalpindi.
4·5	..	1·8	4·27	..	2·32	7	7	..	3·2	..	1	1	5	7	0	1	2	0	14	1	3	1	4	3	1	0	0	18	Jhelum.

STATION	Height of bar. datum above mean sea level in feet.	Pressure at station level in Millibars. Mean 8 hrs. I. S. T.	Pressure at station level in Millibars. Departure from normal.	Pressure at station level in Millibars. Mean 17 hrs. I. S. T.	Maximum temperature. °F Mean.	Maximum temperature. °F Departure from normal.	Maximum temperature. °F Highest.	Maximum temperature. °F Date.	Minimum temperature. °F Mean.	Minimum temperature. °F Departure from normal.	Minimum temperature. °F Lowest.	Minimum temperature. °F Date.	Dry bulb temperature. °F Mean 8 hrs. I. S. T.	Dry bulb temperature. °F Mean 17 hrs. I. S. T.	Wet bulb temperature. °F Mean 8 hrs. I. S. T.	Wet bulb temperature. °F Mean 17 hrs. I. S. T.	Vapour pressure. Millibars. Mean 8 hrs. I. S. T.	Vapour pressure. Millibars. Departure from normal.	Vapour pressure. Millibars. Mean 17 hrs. I. S. T.	Relative humidity % Mean 8 hrs. I. S. T.	Relative humidity % Departure from normal.	Relative humidity % Mean 17 hrs. I. S. T.
!	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Punjab, South-West																						
Khushab ..	616	974·7	—1·8	970·2	107·0	+4·8	117	5	84·1	+1·7	68	30	89·3	104·5	75·7	81·7	24·2	—4·9	26·6	61	—7	3
Lyallpur ..	605	974·3	—2·0	971·5	105·8	+4·3	115	6	85·9	+3·2	74	17	89·8	104·8	77·4	70·5	26·5	—1·7	22·7	56	—9	3
Montgomery ..	558	976·3	—1·6	974·4	106·5	+3·6	118	15	85·2	+1·5	74	17	89·4	103·5	77·4	84·2	26·6	—5·1	31·3	57	—15	3
Leiah (*R*) ..	490																					
Multan ..	413	980·5	—1·8	977·9	108·5	+6·1	119	15	86·8	+1·3	80	17,18	89·2	107·8	80·9	85·6	32·2	—0·2	31·7	69	—1	4
Fort Abbas ..	475	979·6	..	976·0	108·6	..	120	15	86·8	..	76	17	86·9	100·9	75·7	78·7	25·3	..	23·4	56	..	2
Bahawalpur ..	384	981·3	—2·1	978·9	107·3	+4·0	116	14	84·6	+0·9	77	17	87·6	106·4	77·8	80·9	28·1	—3·8	24·4	64	—6	3
Khanpur ..	297	987·3	+0·8	982·5	108·9	+3·5	118	15	83·7	+0·6	80	4 days	86·4	105·3	82·6	91·7	36·3	+6·9	24·6	81	+13	5
Kashmir																						
Srinagar ..	5,205	834·3	+0·3	830·6	88·6	+0·8	100	6	62·2	—2·1	58	4 days	68·9	85·4	64·3	69·1	18·9	—1·4	18·5	79	—3	4
Gulmarg	8,709	736·3	+0·2	..	70·2	+0·5	87	4	49·0	—2·6	44	9,18	56·9	..	53·5	..	12·8	—1·2	..	81	+4	..
Dras ..	10,059	700·9	+0·5	694·4	72·8	—3·0	80	5,6	..	..	..	..	57·3	71·0	51·0	55·1	9·9	—1·2	10·0	67	+3	3
Leh ..	11,529	664·8	+0·4	661·1	77·5	+1·1	87	22	49·9	—0·4	41	10	56·8	76·7	46·8	53·6	7·8	—1·2	6·8	52	—4	2
Skardu ..	7,505	755·5	..	751·9	86·9	—0·7	96	5,22	61·7	—0·1	56	8	66·5	82·8	56·7	60·8	12·2	—0·5	10·3	56	—1	2
Gilgit ..	4,890	843·6	..	839·5	95·5	—0·1	107	21,22	70·5	—1·2	60	30	71·8	91·1	56·3	64·7	18·7	+1·9	10·2	51	—6	3
Misgar ..	10,190	697·4	..	694·4	73·2	..	85	22,23	47·1	..	39	11,30	55·7	70·1	45·3	50·6	7·1	..	6·5	48	..	2
N. W. F. Province																						
Peshawar ..	1,175	956·9	—1·2	953·0	103·0	+0·5	115	6	80·9	+0·7	73	22,23	86·3	101·3	73·4	76·9	22·2	—3·2	20·5	53	—7	3
Bannu ..	1,264	953·8	..	951·8	103·8	+0·7	116	5	81·9	—0·6	73	29	86·0	104·1	75·6	75·5	26·5	0	17·2	59	—1	2
Miranshah ..	3,026	897·5	..	895·2	99·4	+2·8	110	5, 6	79·4	+0·3	72	18,21,22	84·9	96·0	68·4	72·9	17·0	—6·1	18·4	42	—17	3
D. I. Khan ..	570	975·3	—1·8	972·1	107·6	+4·3	117	5	84·7	+2·0	77	17	88·9	106·6	77·0	80·7	26·3	—4·6	24·0	56	—15	3
Baluchistan																						
Fort Sandeman	4,614	850·7	—0·2	847·8	101·2	+1·9	108	15	77·1	+2·0	65	18	81·5	96·6	(a) 66·1	67·8	(a) 15·2	—4·1	11·6	43	—18	2
Loralai ..	4,699	847·7	..	844·7	97·2	..	104	6	68·6	..	64	18	75·2	94·5	59·2	63·7	10·6	..	7·8	38	..	1
Sibi (*R*) ..	441																					
Quetta ..	5,490	824·7	—1·1	822·0	95·3	..	100	14	61·3	..	57	1, 9	73·6	93·3	62·6	70·6	15·7	—2·4	17·3	54	—7	3
Chaman ..	4,311	860·0	+0·5	858·0	100·1	—1·0	106	5	76·3	0	71	10	82·3	99·1	61·8	70·2	10·3	—2·6	13·2	29	—4	2
Kalat ..	6,616	794·1	+0·4	792·1	90·9	—0·2	96	5, 6, 14	60·2	—2·0	53	1	69·2	88·0	51·6	(a) 56 9	6·7	—5·6	(a) 4·8	28	—19	1
Dalbandin ..	2,785	905·4	—0·2	899·3	107·5	—1·2	114	5	75·2	—1·0	67	1	81·4	106·4	64·5	(a) 72·5	13·5	+0·8	(a) 12·9	37	+4	(a) 1
Nokkundi ..	2,229	922·2	..	920·2	108·1	—1·3	116	5	83·4	—0·2	77	1	88·0	107·1	59·0	68·9	5·4	—11·7	8·7	12	—26	1
Las Bela ..	292	988·7	0	984·6	103·5	+2·7	109	4	79·6	—1·1	76	24	82·2	100·9	77·9	84·0	30·2	—2·6	32·0	81	—2	4
Ormara ..	15	..	..	..	87·8	—2·4	91	13	78·8	—2·4	77	5 days	80·5	85·6	77·3	78·7	31·4	—0·2	30·7	86	+1	7
Pasni ..	10	998·9	+0·5	996·1	87·9	—3·3	90	4	77·6	—1·3	75	10, 11	80·2	85·7	77·1	78·7	30·3	—2·3	30·7	86	0	7
Panjgur ..	3,177	894·5	+0·2	892·4	104·0	+0·7	109	4,5	74·6	—1·7	67	1	78·5	102·1	66·1	66·3	17·7	—5·3	7·2	51	—14	1
Jiwani ..	13	992·2	..	989·9	..	..	..	..	79·1	..	77	17	80·2	84·5	77·5	79·5	31·1	..	32·7	89	..	8
Sind																						
Jacobabad ..	186	988·4	—1·4	985·0	110·1	+2·1	119	15	84·6	—0·4	80	30	87·4	109·2	78·5	81·4	28·7	—4·4	24·1	66	—4	2
Sukkur ..	221	987·2	—1·6	983·9	107·3	+3·0	114	5, 14	82·8	—0·2	80	26	85·4	106·8	77·3	81·0	28·1	—3·3	24·3	68	—9	3
Pad Idan ..	153	989·3	..	986·7	111·1	..	118	22,26	82·3	..	75	27	86·3	110·1	77·8	82·3	28·3	..	24·5	68	..	2
Umarkot ..	55	994·9	..	991·6	102·0	..	109	14	80·9	..	79	6 days	83·9	100·9	79·5	85·3	32·4	..	34·7	82	..	5
Hyderabad ..	96	992·6	—1·4	990·7	102·5	+3·2	112	14	81·3	—0·1	79	1	83·6	98·5	76·6	79·6	28·5	—0·4	26·3	72	—1	4
Karachi (Manora)	13	998·1	—0·3	996·4	85·8	—2·7	88	29	79·4	—1·7	78	days	80·4	84·5	77·9	79·2	31·1	—1·8	31·9	89	+1	7
Badin ..	31	997·3	+0·3	994·4	98·3	+3·4	107	14	81·1	—0·1	79	4 days	83·4	95·5	77·7	79·5	29·7	—1·8	26·6	75	—6	4

(*R*) Register not received.

(a)—Mean of 30 days.

Cloud amount, (tenths of sky).			Rainfall, inches				Number of rainy days, (0·10″ or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.									
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													Punjab, South-East
4·3	+1·2	3·8	0·51	—3·39	0·32	20	2	—2·3	6·0	—0·1	0	10	8	5	1	3	1	0	3	0	0	8	16	5	2	0	0	0	Khushab.
1·5	—2·5	0·8	1·70	—1·16	1·70	17	1	—2·8	3·0	—0·2	1	5	1	5	9	3	0	1	6	1	4	2	4	3	7	3	3	4	Lyallpur.
4·6	+1·8	5·0	1·27	—1·15	0·69	24	2	—1·3	2·6	—2·9	0	1	1	11	1	14	1	0	2	0	0	0	7	5	9	2	4	4	Montgomery.
																													Leiah (*R*).
1·7	—0·5	0·5	0	—2·01	0	..	0	—2·3	4·2	—1·7	3	0	1	0	14	9	2	0	2	2	0	1	0	15	7	2	2	2	Multan.
1·6	..	0·8	0·64	..	0·50	17	2	..	9·7	..	0	0	2	2	8	16	0	0	3	4	1	0	0	3	20	2	1	0	Fort Abbas.
0·8	—1·9	0·4	1·57	—0·87	1·50	17	1	—2·2	5·6	+0·6	0	0	0	0	20	4	0	0	7	0	0	2	1	1	19	1	0	7	Bahawalpur.
0·9	—1·7	1·0	1·06	—1·46	0·95	18	2	—0·9	7·8	—0·5	0	4	0	0	0	27	0	0	0	0	4	0	0	0	27	0	0	0	Khanpur.
																													Kashmir
3·5	—0·8	4·2	1·92	—0·41	0·48	20	6	+1·1	2·1	—0·4	0	2	4	7	6	1	0	1	10	0	0	0	3	1	1	1	9	16	Srinagar.
3·5	—1·2	..	4·88	+0·82	0·81	9	11	+2·1	4·3	+1·1	0	0	1	3	0	5	2	9	11	0	..	..	..	..	..	..	..	..	Gulmarg.
4·0	+0·5	5·3	0·28	—0·35	0·14	23	1	—0·6	5·0	—0·5	0	0	0	0	0	0	2	0	29	1	0	0	0	0	1	20	5	4	Dras.
4·8	+0·2	4·2	0·50	+0·03	0·38	16	1	—0·4	3·1	+1·2	0	8	4	0	2	1	0	0	16	0	1	0	2	3	6	13	1	5	Leh.
2·4	—0·2	4·2	0·28	—0·11	0·15	24	1	+0·1	4·3	0	0	0	0	0	0	1	5	3	22	0	0	3	0	1	3	5	3	16	Skardu.
4·3	+1·0	5·2	0·51	+0·12	0·19	17	3	+1·8	1·4	+0·5	0	1	0	0	0	1	0	0	29	1	0	1	2	0	1	0	0	26	Gilgit.
3·7	..	4·4	0·58	..	0·24	11	2	..	5·5	..	2	3	7	1	0	1	6	11	0	0	4	11	8	0	1	4	3	0	Misgar.
																													N. W. F. Province
2·8	—0·7	5·1	0·30	—0·96	0·23	22	1	—1·0	5·1	+2·8	7	5	0	2	2	1	3	5	6	5	13	3	3	3	1	2	1	0	Peshawar.
3·8	+1·2	1·3	0	—2·21	0	..	0	—3·2	4·6	..	4	12	2	3	0	3	2	3	2	0	4	2	11	0	0	0	3	11	Bannu.
0·7	—2·0	2·6	0·98	—0·59	0·40	18	5	+1·7	6·9	+0·2	0	0	1	1	0	0	2	1	26	0	5	15	7	1	0	0	1	2	Miranshah.
0·7	—1·8	0·6	0	—2·29	0	..	0	—2·8	3·0	+0·9	4	19	1	1	1	2	0	0	3	0	5	10	4	4	0	0	1	7	D. I. Khan.
																													Baluchistan
0·6	—1·2	2·9	0·43	—1·71	0·26	18	1	—2·8	4·2	+1·4	2	6	7	1	0	1	4	1	9	2	2	3	5	3	4	7	3	2	Fort Sandeman.
1·8	..	3·2	0·30	—1·24	0·21	19	1	—1·9	4·8	..	0	0	2	0	0	3	21	2	3	0	0	0	6	12	8	4	1	0	Loralai
																													Sibi (*R*)
0·9	—0·5	1·2	0·10	..	0·10	17	1	..	4·3	+1·6	0	0	0	0	5	1	0	0	25	9	1	0	0	3	1	5	8	4	Quetta.
0·5	—0·4	0·8	0	—0·07	0	..	0	—0·2	6·4	+0·7	0	1	3	7	3	11	2	0	4	1	1	0	0	2	12	0	15	0	Chaman.
1·1	—0·9	2·0	0·17	—0·43	0·17	18	1	—0·5	5·9	+1·3	0	0	0	5	23	0	0	0	3	6	2	0	0	2	3	4	13	1	Kalat.
0·5	—0·8	0·5	0	—0·12	0	..	0	—0·4	5·5	+0·1	0	0	0	0	0	4	3	0	24	1	5	2	0	1	11	5	1	5	Dalbandin.
0·4	—0·8	0·3	0	0	0	..	0	0	14·5	+0·3	11	0	2	1	0	1	1	15	0	11	1	1	0	0	0	1	17	0	Nokkundi.
4·7	—2·0	0·3	0	—2·63	0	..	0	—3·5	4·5	+1·0	0	0	4	4	8	6	1	0	8	1	0	1	13	11	5	0	0	0	Las Bela.
3·2	—3·9	1·7	0	—0·65	0	..	0	—1·3	10·9	+1·0	0	0	0	0	1	11	18	1	0	0	0	0	0	2	17	12	0	0	Ormara.
7·6	+1·4	3·6	0	—0·47	0	..	0	—0·6	8·0	+1·3	0	0	10	5	5	5	3	0	3	0	0	0	5	13	12	1	0	0	Pasni.
1·4	—0·9	0·5	0	—0·79	0	..	0	—1·3	4·9	—0·7	0	4	3	0	0	3	3	1	17	5	2	1	0	1	1	9	12	0	Panjgur.
7·1	..	2·4	0	..	0	..	0	..	..	..	0	0	3	7	15	1	0	0	5	0	0	0	9	17	3	0	0	2	Jiwani.
																													Sind
1·0	—0·9	1·2	0	—0·95	0	..	0	—1·5	8·6	+1·1	0	0	13	15	2	0	0	0	1	1	2	2	21	5	0	0	0	0	Jacobabad.
0·9	—1·2	0·6	0	—1·44	0	..	0	—1·7	4·1	—0·9	0	1	0	14	5	5	3	0	3	2	2	0	4	13	4	1	0	5	Sukkur.
0·3	..	0·7	0	..	0	..	0	..	10·3	..	0	2	0	17	10	1	0	1	0	3	1	1	11	6	2	2	4	1	Pad Idan.
5·3	..	1·7	0	..	0	..	0	..	14·1	..	0	0	0	0	7	23	1	0	0	0	0	0	0	3	24	3	1	0	Umarkot.
4·2	—0·2	2·2	0	—2·98	0	..	0	—2·9	12·1	+1·4	0	0	0	0	8	17	6	0	0	0	1	0	0	6	16	7	1	0	Hyderabad.
7·2	—0·4	5·0	0·03	—3·17	0·02	9	0	—2·5	11·7	—1·1	0	0	0	0	0	9	20	2	0	0	0	0	0	0	18	13	0	0	Karachi (Manora).
4·5	—1·6	1·5	0	—3·97	0	..	0	—3·8	11·6	..	0	0	0	0	0	25	6	0	0	0	0	0	0	0	21	10	0	0	Badin.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
Rajputana, West																						
Sri Ganganagar	580	975·8	..	972·8	106·3	+4·2	116	15	86·4	+3·9	76	17	90·5	104·3	77·4	79·3	26·1	—1·0	22·8	54	—9	31
Bikaner ..	734	972·0	—1·7	968·4	106·1	..	116	15	84·9	..	80	17	87·6	105·1	75·1	83·3	24·0	..	28·9	55	..	39
Phalodi ..	800	971·0	..	970·5	104·3	..	114	14	81·9	..	78	11	83·4	103·4	..	..	..	..	..	..	..	..
Jodhpur ..	736	973·5	+0·8	970·1	101·1	+4·2	109	13, 14	81·8	+1·6	75	17	83·2	99·2	75·3	77·5	26·3	—1·3	22·3	65	—8	36
Barmer ..	638	976·6	—0·2	973·1	101·4	+4·9	111	14	80·6	+1·7	78	10,11	83·0	100·4	76·3	79·0	27·8	—1·5	24·1	72	—7	37
Rajputana, East																						
Sikar ..	1,406	950·5	..	947·1	101·9	..	112	15	82·2	..	72	18	85·0	99·4	75·5	77·9	25·8	..	22·8	63	..	37
Jaipur ..	1,431	950·3	—1·2	947·1	98·8	+4·6	110	15	80·6	+2·4	75	17	84·1	96·0	75·2	76·6	25·8	—2·0	22·4	65	—11	40
Ajmer ..	1,593	945·3	—0·9	942·0	97·0	+5·3	106	15	79·4	+1·0	74	2	82·6	95·0	75·4	77·2	27·4	+0·4	25·2	71	—6	45
Kotah ..	843	969·9	—0·8	967·3	94·1	+0·2	105	15	80·7	+0·8	75	16,19,20	83·2	91·6	76·4	78·3	28·1	+0·1	27·7	72	—1	55
Brijnagar ..	1,053	962·9	—1·3	960·4	90·1	+1·0	103	15	77·5	+0·8	72	16	79·7	88·2	75·1	77·0	27·7	—0·1	26·2	80	—4	61
Udaipur ..	1,910	935·9	..	934·0	89·4	..	100	13	76·7	..	70	15	78·9	87·1	72·9	75·5	25·3	..	25·5	75	..	59
Gujarat																						
Deesa* ..	466																					
Bhuj ..	343	988·7	+0·4	986·5	93·5	+2·7	101	14,15	79·8	+1·7	77	7,11,28	82·1	90·4	76·7	77·2	28·7	—1·3	25·8	77	—5	53
Dwarka ..	37	999·3	—0·5	998·1	87·3	+0·6	90	15	80·9	+0·2	76	4	82·1	85·3	78·6	79·9	31·8	+0·1	32·5	85	—1	77
Jamnagar ..	60	999·4	+0·9	..	91·7	+1·1	95	15,16,23	79·7	+1·2	74	4	82·1	..	76·6	..	28·8	—2·1	..	78	—4	..
Rajkot ..	432	986·1	—0·1	983·5	93·7	+2·5	101	2	77·6	+1·1	71	4	80·5	89·8	77·3	77·4	30·5	+1·3	26·5	86	+2	56
Veraval ..	26	1000·6	—0·7	999·3	86·1	..	91	1,2	79·6	..	77	4,29	81·7	83·8	79·2	80·4	33·0	..	32·8	89	+1	85
Surat ..	39	1000·6	—0·4	999·1	88·5	+1·3	95	1	79·8	+2·0	75	3,4	82·4	85·4	79·4	82·0	32·9	+2·0	35·8	89	+3	85
Bhavnagar ..	55	997·7	0	997·0	93·3	+0·4	102	1	78·4	0	73	3,4	80·7	89·6	76·8	78·2	29·7	+0·2	27·8	83	+4	60
Ahmedabad ..	163	995·6	—0·2	992·5	93·3	+0·2	99	1,2	78·5	0	75	5 days	80·9	91·4	77·4	79·4	30·5	+0·7	28·8	85	+2	58
Dohad ..	1,093	964·7	..	962·9	87·4	+0·2	98	2	75·7	+0·3	69	3	77·2	82·8	74·9	76·5	28·5	—0·4	28·2	89	—2	70
Baroda ..	115	997·7	..	994·9	91·3	+1·5	101	1,2	78·1	+0·5	74	3,4	80·7	87·9	77·8	79·6	31·3	+0·6	30·9	87	—1	69
Central India, West																						
Neemuch ..	1,626	945·2	—0·7	942·9	89·9	+1·9	101	2	75·2	+0·6	70	16	77·6	86·5	74·2	76·1	27·4	+0·5	26·5	85	+2	63
Indore ..	1,823	939·3	—0·9	937·3	84·2	—0·9	94	2	73·1	+0·3	69	3,4	74·6	81·5	72·2	74·2	26·0	+0·1	25·9	89	—2	71
Bhopal ..	1,643	944·4	—1·2	942·4	84·2	—1·4	94	12,14	73·3	—0·8	70	30	76·2	82·1	73·5	75·2	27·1	+0·2	27·0	88	0	73
Cuna ..	1,571	946·7	—0·4	944·7	88·0	0	100	15,16	75·3	+0·1	70	7	78·0	86·4	74·0	76·4	27·1	—0·8	27·0	84	—2	68
Gwalior ..	681	974·6	..	972·2	92·3	..	103	12	80·8	..	74	17	83·6	89·4	78·0	79·9	30·2	..	30·5	78	..	67
Madhosagar ..	757	971·8	..	969·3	92·0	..	102	12,15	79·9	..	74	16	83·1	89·2	77·8	79·2	30·1	..	29·5	79	..	66
Central India, East																						
Nowgong ..	750	972·3	—1·5	969·9	88·6	—2·4	98	12,15	78·6	—0·1	76	6,16	80·9	85·9	77·2	78·8	30·2	+0·3	30·4	84	+2	73
Sutna ..	1,041	962·1	—1·6	959·9	87·8	—1·0	96	15	76·0	—1·4	73	7,17,31	80·1	85·9	77·2	78·7	30·6	+1·3	30·2	88	+6	71
Umaria ..	1,506	947·7	..	945·5	84·5	—2·0	95	15	75·6	+0·4	71	8	77·7	82·7	74·9	76·9	28·4	—0·2	29·2	87	+1	71
Berar																						
Akola ..	925	969·5	—1·3	966·9	88·9	—0·2	96	8,11	76·5	+1·7	73	2,3	78·0	86·4	73·9	76·1	26·8	+0·5	26·1	82	+1	64
Amraoti ..	1,213	960·2	—0·7	957·4	86·2	—1·3	94	8,11	74·6	+0·6	72	2,3,17	76·2	83·8	72·9	75·3	26·2	—0·1	26·1	85	—1	64
C. P., West																						
Khandwa ..	1,044	965·2	—1·2	962·7	87·5	—0·4	94	8,11	75·1	—0·2	71	2,4	78·4	84·0	74·5	76·3	27·4	+0·6	27·5	83	0	70
Hoshangabad ..	992	966·1	—1·5	963·8	84·3	—1·8	95	14	74·7	+0·4	71	30	76·7	83·3	74·8	76·8	28·6	+0·4	28·5	91	+2	70
Saugor ..	1,808	938·0	—1·2	936·1	83·4	—2·5	95	15	74·2	+0·3	70	8	75·4	81·5	73·0	74·9	26·8	+0·2	26·9	89	+3	70
Jubbulpore ..	1,289	955·2	—1·2	953·0	85·1	—1·3	96	14	75·1	+0·4	71	19	77·7	82·6	74·9	76·6	28·4	+1·0	28·8	87	+1	70
Seoni ..	2,027	931·9	—1·0	929·9	82·6	—1·5	91	12	72·9	+0·6	70	17,22	75·2	79·9	72·9	74·5	26·7	+0·6	26·9	89	+3	70
Nagpur ..	1,022	965·7	—1·1	963·2	86·5	—1·8	94	8,11	75·3	—0·2	72	3	78·1	83·5	74·7	76·7	27·8	+1·2	28·3	86	+5	70

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10″ or more.)		Wind velocity miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.									
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													Rajputana, West
0·5	—2·1	0·6	0·31	—1·89	0·28	17	1	—3·3	6·2	—1·2	0	0	1	5	2	21	1	0	1	0	2	2	0	1	10	6	2	8	Sri Ganganagar.
1·4	—2·2	0·8	0·08	—3·26	0·08	2	0	—4·9	7·4	+0·4	0	1	0	0	0	4	2	2	2	0	3	0	1	0	18	1	5	3	Bikaner.
5·5	..	4·1	0	—2·71	0	..	0	—3·8	17·2	..	0	0	0	1	6	22	2	0	0	1	2	0	0	3	19	2	3	1	Phalodi.
5·3	—1·8	4·9	1·34	—2·63	0·82	18	3	—2·5	9·2	—2·9	0	0	0	0	0	10	17	2	2	0	2	2	1	1	17	7	0	1	Jodhpur.
6·1	—0·7	3·5	0	—3·25	0	..	0	—4·0	8·2	+1·0	0	0	0	0	5	20	5	1	0	0	0	0	1	3	22	1	2	2	Barmer.
																													Rajputana, East
4·4	..	4·9	1·20	..	0·46	17	5	..	6·3	..	0	1	2	3	0	9	14	0	2	0	3	4	0	0	5	14	3	2	Sikar.
5·0	—1·5	6·9	1·78	—5·96	0·64	29	5	—5·3	6·8	+1·8	3	0	2	1	1	0	8	12	4	3	1	4	1	0	3	10	6	3	Jaipur.
5·0	—1·3	6·8	2·07	—4·68	0·50	5	6	—2·9	10·8	+4·8	0	1	1	0	1	15	12	1	0	0	3	1	0	0	14	12	0	1	Ajmer.
7·7	+1·1	8·5	9·09	+1·05	4·10	19	12	+0·9	6·7	+2·7	0	0	1	0	0	6	16	4	4	1	1	1	0	0	15	7	6	0	Kotah.
6·8	+1·1	7·0	19·51	+7·83	9·71	19	11	—2·5	7·5	+2·6	1	0	1	1	0	9	14	5	0	2	1	1	1	0	6	14	6	1	Brijnagar.
9·3	...	8·6	3·54	—5·01	1·11	4	6	—4·4	7·0	..	1	0	0	0	0	6	19	4	1	1	0	1	0	2	9	16	2	0	Udaipur.
																													Gujarat
																													Deesa*
7·4	—0·1	7·7	0·44	—5·89	0·13	28	2	—4·0	13·0	+1·3	0	0	0	0	0	7	23	1	0	0	0	0	0	0	10	20	1	0	Bhuj.
7·5	—0·7	6·3	1·28	—5·67	0·82	4	3	—3·0	17·6	+2·7	0	0	0	0	0	7	23	1	0	0	0	0	0	0	11	20	0	0	Dwarka.
8·2	+2·1	..	0·89	—8·04	0·31	8	3	—4·9	13·3	—0·7	0	0	0	0	0	15	16	0	0	..	..	..	..	..	..	..	..	..	Jamnagar.
5·6	—2·6	5·4	3·68	—7·00	1·27	14	10	—0·5	16·6	+4·6	0	0	0	0	2	13	15	1	0	0	0	0	1	0	16	12	2	0	Rajkot.
7·7	—0·6	7·2	5·86	—1·92	2·75	16	12	+2·8	17·5	..	0	0	0	0	0	4	24	3	0	0	0	0	0	0	8	19	4	0	Veraval.
9·2	+0·6	9·3	8·62	—8·80	2·43	13	9	—7·3	8·1	+0·8	0	0	0	0	1	13	12	1	4	0	0	0	0	4	24	2	0	1	Surat.
8·0	+0·1	8·7	11·53	+4·52	4·85	16	10	+0·7	7·7	+0·3	0	0	0	0	2	16	10	1	2	0	0	0	0	4	15	12	0	0	Bhavnagar.
8·3	+0·3	8·1	8·71	—3·51	2·77	17	11	—1·6	3·4	—1·5	0	0	0	0	4	10	6	1	10	0	0	0	0	2	10	7	1	11	Ahmedabad.
9·4	+0·3	8·5	4·00	—5·02	1·84	3	9	—4·0	19·8	+9·8	0	0	0	0	0	13	18	0	0	0	0	0	0	0	9	22	0	0	Dohad.
9·3	+0·6	8·9	10·62	—1·61	1·91	19	14	+1·3	5·0	—0·6	0	0	0	0	1	10	13	3	4	0	0	0	0	4	17	7	1	2	Baroda.
																													Central India, West
8·5	+1·2	8·6	7·58	—1·89	1·75	16,18	7	—3·6	10·9	+2·1	1	0	0	0	0	9	19	2	0	0	3	0	0	0	11	16	1	0	Neemuch.
9·5	+0·5	9·3	9·75	—2·37	2·36	13	14	+0·7	7·7	+1·9	0	0	0	0	0	9	21	1	0	0	0	0	0	0	14	15	2	0	Indore.
9·2	+0·9	9·5	17·06	—2·67	3·73	16	14	—2·4	7·4	+1·4	0	2	0	0	1	7	18	2	1	0	0	0	0	0	2	22	2	5	Bhopal.
7·9	+0·6	7·5	11·06	—3·29	2·45	20	10	—5·5	8·5	+1·6	2	0	2	0	1	9	14	1	2	3	0	3	0	0	10	10	3	2	Guna.
8·0	..	7·8	16·96	..	5·90	19	12	..	4·1	..	1	2	3	1	2	5	8	5	4	0	2	3	1	2	3	9	2	9	Gwalior.
7·5	..	8·1	10·77	..	2·03	6	12	..	8·8	..	3	3	2	1	1	11	7	2	1	1	4	3	1	4	7	7	2	2	Madhosagar.
																													Central India, East
8·0	+0·2	8·3	20·61	+6·80	4·27	6	17	+2·9	4·9	+2·4	0	7	0	1	1	14	7	0	1	0	8	0	0	1	14	3	5	0	Nowgong.
9·2	+1·4	9·3	11·98	—2·27	1·94	1	15	—0·4	5·1	0	3	2	3	1	2	8	10	2	0	1	3	3	1	1	7	11	4	0	Sutna.
9·1	+0·4	9·3	14·92	—2·83	1·90	7	18	—2·1	4·7	+0·9	1	0	2	1	2	10	14	1	0	2	0	4	0	0	4	19	2	0	Umaria.
																													Berar
8·1	+0·2	8·3	5·41	—4·38	1·17	2	10	—2·4	9·6	+2·9	0	0	0	0	0	3	27	1	0	3	0	0	0	0	2	13	13	0	Akola.
9·2	+1·4	8·8	16·92	+7·51	3·81	13	13	+0·2	11·6	+4·0	0	0	0	0	0	24	1	6	0	2	0	0	0	0	11	3	15	0	Amraoti.
																													C. P. West
9·6	+2·0	9·2	9·29	—0·37	3·20	3	9	—3·1	..	..	0	0	0	0	1	10	15	4	1	0	0	0	0	0	8	16	6	1	Khandwa.
9·5	+0·9	9·0	26·07	+9·36	4·00	29	21	+5·3	4·5	+0·9	0	1	0	0	2	16	11	0	1	1	0	0	0	0	8	16	4	2	Hoshangabad.
9·7	+1·9	9·6	28·71	+13·14	6·07	21	15	—1·5	14·9	—2·3	0	4	0	0	0	6	19	2	0	1	3	0	1	0	8	14	4	0	Sangor.
9·6	+1·2	9·5	21·46	+2·08	4·32	22	17	—1·1	7·0	+3·6	0	2	0	0	0	12	13	1	3	1	1	0	1	2	14	7	3	2	Jubbulpore.
9·7	+1·2	8·3	24·71	—8·49	7·67	29	22	+3·7	5·1	+0·6	1	0	0	0	4	8	11	5	2	1	1	0	1	4	3	15	6	0	Seoni.
8·6	+0·5	9·1	17·61	+3·01	3·11	6	22	+5·5	5·6	+1·2	0	0	0	0	1	14	11	4	1	1	1	0	0	0	6	17	5	1	Nagpur.

*Data rejected.

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 humid °/o	
		Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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
C. P., East																					
Gondia ..	1,026	965·2	..	962·8	84·6	..	92	13,14	75·7	..	73	7,28	77·6	82·1	75·6	77·6	29·3	..	30·3	91	..
Pendra ..	2,040	930·2	—1·5	928·3	82·7	—0·8	89	11,13,16	73·8	+1·4	71	15,31	76·5	79·5	73·5	74·8	27·0	+0·1	27·5	87	0
Champa ..	805	972·1	..	969·1	87·1	..	94	11	76·3	..	73	18,19	78·2	82·0	76·0	77·9	29·5	..	30·8	90	..
Raipur ..	970	967·2	—0·6	964·5	84·9	—1·8	93	5	75·8	+0·8	73	7	78·5	81·5	75·9	77·0	29·4	+0·9	29·6	89	—2
Titilagarh ..	691	976·2	..	974·0	86·2	..	93	23	76·2	..	73	27,30	78·2	82·9	75·1	77·1	28·4	..	29·2	86	..
Kanker ..	1,318	956·2	—0·3	954·0	83·6	—0·4	90	4,5	75·0	+1·1	72	11,26, 30	78·1	80·7	74·6	76·0	27·7	+0·8	28·5	84	—1
Chanda ..	634	979·8	—0·8	977·0	86·7	—1·7	94	5,11	75·7	—0·1	73	22	78·5	84·1	76·3	80·6	29·9	+2·2	34·2	91	+10
Jagdalpur ..	1,815	940·3	—0·8	938·3	80·8	—2·1	86	20,31	71·3	—0·6	70	6 days	74·4	77·8	72·7	74·1	26·8	+0·2	27·3	92	+5
Konkan																					
Dahanu ..	15	1002·1	..	1001·0	88·0	..	95	7,8	78·1	..	70	14	81·7	85·3	80·2	82·9	34·5	..	37·4	94	..
Bombay ..	35	1002·3	—0·7	1001·1	86·8	+1·3	92	1	77·6	+0·9	72	12	81·3	83·5	78·2	79·2	31·5	+1·0	32·1	87	+1
Alibag ..	23	1003·7	—0·1	..	85·3	+0·9	88	4 days	77·6	0	74	12	81·3	..	79·0	..	32·8	+1·7	..	90	+3
Harnai ..	66	1001·8	..	1000·8	84·2	..	87	6,9	75·9	..	70	15	80·7	81·3	78·0	78·0	31·6	..	31·2	87	..
Devgad ..	110	1001·4	..	1000·3	83·7	..	86	4 days	78·0	..	75	6 days	80·2	81·4	78·3	78·8	31·9	..	32·2	91	..
Marmagao ..	202	999·7	0	998·0	82·6	0	85	6 days	75·5	+0·3	72	2	79·8	80·3	77·2	77·1	30·8	+0·9	30·3	89	0
Honavar ..	85	1004·9	..	1003·8	82·6	..	87	20,24	74·2	..	72	9,11, 26	77·8	79·6	76·5	77·3	30·6	..	31·2	95	..
Bombay, Deccan																					
Jalgaon ..	660	978·6	..	976·0	90·4	..	101	2,8	75·6	..	73	3,4	78·8	86·8	75·9	77·5	29·8	..	27·9	87	..
Malegaon ..	1,432	953·8	—0·6	951·5	88·5	+0·3	95	1,2	74·4	+0·9	70	12	78·1	84·2	73·2	73·7	25·7	+0·4	22·3	79	+2
Ahmednagar ..	2,154	930·9	—0·9	928·6	86·3	+1·0	92	2,3,9	71·4	+0·8	68	19	75·4	82·3	71·2	73·2	24·4	+1·0	24·1	81	+1
Poona ..	1,834	942·1	—0·4	940·8	82·9	+0·4	89	2	72·6	+0·9	70	18	75·2	78·9	71·7	72·5	25·1	+1·4	24·6	84	+2
Sholapur ..	1,570	951·2	—0·3	948·8	88·6	—0·6	94	20,30	72·6	+0·5	70	10,13	75·8	84·8	72·4	74·1	25·7	+2·0	23·6	85	+9
Miraj ..	1,817	943·6	—0·8	942·1	83·8	+2·0	90	6	71·5	+0·7	70	4 days	73·4	79·2	71·9	73·6	26·1	+1·7	26·1	93	+7
Bijapur ..	1,950	941·2	+1·6	937·7	85·3	—1·3	91	30	73·9	+3·0	72	4 days	74·8	83·0	71·1	72·7	24·9	—1·5	23·0	83	+3
Belgaum ..	2,562	920·1	—0·4	918·8	76·3	+0·1	80	6	68·4	+1·0	67	6 days	70·3	73·0	69·1	70·7	23·8	+0·7	24·7	95	+2
Gadag ..	2,131	934·6	0	932·8	83·9	+0·8	87	5 days	70·6	+0·6	69	1,9,13	73·0	78·8	71·6	73·6	25·8	+2·2	26·1	93	+7
Hyderabad, North																					
Aurangabad ..	1,905	939·2	—0·6	936·8	86·2	+0·2	94	1	71·9	+1·0	70	3,17	74·5	82·3	72·3	74·5	26·2	+1·9	26·0	90	+6
Parbhani ..	1,350	955·7	..	952·1	89·4	..	98	10	73·5	..	72	5 days	76·8	84·9	72·6	74·7	25·5	..	24·7	81	..
Bidar ..	2,178	930·0	..	927·7	81·7	—3·9	88	1	70·8	+1·3	69	13	73·4	80·7	70·8	72·4	24·5	+0·4	23·8	88	+2
Nizamabad ..	1,250	960·4	—0·6	957·2	87·5	—0·7	95	1	74·7	+0·8	71	2	76·9	84·8	72·7	75·9	25·5	+0·3	26·5	81	+1
Peddapalli (*R*)	755																				
Hyderabad, South																					
Gulbarga (*R*) ..	1,503																				
Raichur ..	1,311	960·1	—0·8	957·5	88·3	—2·0	93	19,23,24	73·3	+0·4	71	1,11, 12	75·8	84·5	72·5	74·2	25·8	+1·3	24·2	85	+8
Hyderabad (Begumpet).	1,778	943·7	—0·4	941·1	85·2	—2·2	93	5	73·2	+0·7	70	1,13	74·8	82·7	72·4	75·6	26·2	+1·2	27·4	89	+6
Hanamkonda ..	881	972·6	—0·9	969·9	88·3	+0·2	95	5	75·9	+0·2	73	13,23, 24	79·0	85·3	74·4	76·2	27·0	+1·1	26·7	80	+3
Khammamath ..	367	990·5	..	988·0	89·8	..	95	5,30	76·5	..	72	12	79·9	87·1	77·5	80·6	31·1	..	32·6	88	..

(*R*) Register not received.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													C.P. East
8·4	..	8·5	18·99	..	5·37	28	18	..	5·4	..	0	0	0	0	4	18	3	6	0	1	1	0	3	1	12	10	3	0	Gondia.
8·3	+1·1	8·5	14·20	—0·51	3·57	15	17	—1·9	5·8	+1·3	2	2	0	1	12	4	4	6	0	3	1	1	1	7	5	3	9	1	Pendra.
8·7	..	9·3	34·53	..	13·67	26	22	..	7·6	..	0	0	2	0	3	11	12	2	1	0	1	2	1	2	6	12	5	2	Champa.
9·1	+1·1	8·7	30·54	+15·55	6·00	26	19	+3·0	7·3	+0·6	0	2	0	0	0	21	0	1	7	0	1	0	0	1	19	1	4	5	Raipur.
8·3	..	8·0	12·63	..	2·56	11	18	..	4·1	..	0	1	0	3	12	9	1	0	5	0	1	0	0	7	12	6	3	2	Titilagarh.
9·5	+0·3	9·6	17·73	+2·01	3·96	28	19	+1·1	8·1	+2·1	0	0	0	0	0	21	5	0	5	0	0	0	0	0	20	7	1	3	Kanker.
8·0	+0·2	8·1	20·02	+3·71	4·00	15	19	+2·1	7·0	+1·8	0	0	0	0	0	9	5	15	2	0	1	0	0	0	4	0	24	2	Chanda.
9·4	+1·2	9·0	21·91	+6·78	3·22	12	27	+7·6	8·4	+4·1	0	0	0	0	0	28	0	3	0	0	0	0	0	1	26	1	3	0	Jagdalpur.
																													Konkan
9·5	..	8·7	21·50	..	5·88	17	19	..	13·8	..	0	0	0	1	1	12	17	0	0	0	0	0	0	0	12	19	0	0	Dahanu.
9·3	+0·5	8·9	22·03	—2·24	3·69	17	22	—0·1	9·9	—1·7	1	0	1	0	0	2	15	12	0	2	0	0	0	0	3	14	11	1	Bombay.
9·5	0	..	20·99	—2·45	2·68	11	27	+3·7	15·3	—2·4	0	0	0	1	1	18	8	0	3	..	..	..	..	..	..	..	..	..	Alibag.
..	..	..	37·10	..	4·50	12	26	..	10·4	..	0	0	2	2	2	12	12	1	0	0	0	0	2	2	14	12	1	0	Harnai.
6·2	..	7·0	32·95	..	3·87	3	24	..	16·5	..	0	0	0	3	1	2	13	12	0	0	0	0	0	0	2	14	15	0	Devgad.
8·7	+0·1	9·1	39·87	+8·58	4·92	1	27	+0·4	12·8	+2·9	1	2	0	1	4	3	19	1	0	0	1	1	0	2	6	16	5	0	Marmagao.
9·1	..	9·0	53·83	+8·99	8·74	15	31	+2·7	2·5	..	2	0	2	2	1	0	10	2	12	0	0	0	1	2	1	14	1	12	Honavar.
																													Bombay, Deccan
8·0	..	6·6	7·45	—2·06	1·36	13	12	—2·3	10·8	..	0	0	0	0	1	3	25	1	1	0	0	0	0	1	3	16	11	0	Jalgaon.
8·3	+0·8	8·5	8·10	+3·68	3·85	14	7	—0·4	8·9	—0·7	0	0	0	0	0	10	17	4	0	0	0	0	0	0	10	16	5	0	Malegaon.
8·4	+1·2	8·5	4·28	+0·50	1·96	13	7	+0·2	7·5	—2·2	0	0	0	0	0	3	0	27	1	0	0	0	0	0	3	0	28	0	Ahmednagar.
9·0	+0·7	9·3	7·97	+1·41	3·04	18	11	—1·7	5·1	—5·1	0	0	0	0	0	1	25	1	4	0	0	0	0	0	0	28	2	1	Poona.
9·5	+2·0	9·5	3·74	—0·44	1·38	13	6	—1·7	..	..	0	0	0	0	0	31	0	0	0	0	0	0	0	0	24	3	4	0	Sholapur.
8·6	—0·7	8·5	3·29	—0·84	0·63	17	12	+2·9	11·2	+0·7	0	0	0	0	2	10	17	1	1	0	0	0	0	0	2	27	2	0	Miraj.
4·3	—3·3	6·0	1·51	—0·86	0·81	1	3	—1·3	9·9	+0·5	0	0	0	0	0	12	14	5	0	1	0	0	0	0	11	14	4	0	Bijapur.
8·7	—0·5	8·5	15·73	—1·37	3·26	16	25	+3·1	6·5	+0·3	0	0	0	0	3	26	2	0	0	0	0	0	0	1	29	1	0	0	Belgaum.
9·1	+1·1	8·7	3·27	+0·38	1·50	6	9	+2·1	12·9	+0·6	0	0	0	0	0	13	16	2	0	0	0	0	0	0	10	15	6	0	Gadag.
																													Hyderabad, North
8·6	—0·2	8·6	3·27	—3·47	0·95	3	9	—2·3	13·7	+2·7	0	0	0	0	0	6	25	0	0	0	0	1	0	0	3	26	1	0	Aurangabad.
8·0	..	8·5	6·23	—1·09	1·95	2	10	—1·1	..	..	0	0	0	0	0	13	16	2	0	0	0	0	0	0	5	24	2	0	Parbhani.
9·0	+2·0	9·0	7·89	—0·22	3·21	1	12	+0·4	14·0	+0·2	0	0	0	0	0	16	14	1	0	0	0	0	0	0	13	16	2	0	Bidar.
7·8	+1·2	8·6	10·25	+0·10	1·90	15	19	+4·0	6·5	+1·0	0	0	0	0	2	26	3	0	0	0	1	0	0	0	17	9	3	0	Nizamabad.
																													Peddapalli. (*R*).
																													Hyderabad, South
																													Gulbarga. (*R*).
8·3	+2·3	8·3	6·15	+1·45	1·48	1	16	+8·4	14·1	+4·5	0	0	0	0	0	20	10	1	0	0	0	0	0	0	19	5	7	0	Raichur.
9·0	+1·0	9·0	6·30	+0·31	1·71	13	12	+0·9	13·0	+3·1	0	0	0	0	0	2	29	0	0	0	0	0	0	0	3	21	7	0	Hyderabad (Begumpet).
8·6	+0·8	8·6	7·64	—1·50	1·77	13	16	+2·6	8·3	+1·6	0	0	0	1	2	2	21	5	0	3	0	0	0	3	2	17	6	0	Hanamkonda.
6·9	..	7·4	12·50	..	3·61	12	16	..	6·7	..	0	0	0	0	1	19	8	4	0	1	0	0	0	1	11	9	5	4	Khammameth.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2.30 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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mysore																						
Chitaldrug ..	2,405	925·9	—0·1	924·1	81·3	—1·3	87	5,7	69·7	+0·8	68	3	71·8	76·9	69·4	70·9	23·5	+1·2	23·4	88	+4	7
Hassan	3,149	903·1	..	901·8	76·6	—1·0	83	7,8	66·8	+1·2	65	3,21	69·0	72·1	66·9	68·1	21·7	+0·3	21·9	90	+2	8
Bangalore ..	3,021	906·7	—0·3	904·7	80·0	—1·4	85	8	67·1	+1·4	65	30	68·9	76·4	67·3	69·3	22·2	+1·1	21·6	92	+4	7
Mysore	2,518	923·4	—0·4	921·8	81·0	—1·2	86	10	68·2	+1·0	66	1	70·7	77·9	68·3	70·4	22·7	+1·0	22·3	88	+5	6
Malabar																						
Mangalore.. ..	72	1005·9	+0·1	1004·3	82·2	—1·4	86	5 days	74·4	+0·1	72	20, 21	77·0	79·4	75·8	77·4	29·9	+0·6	31·2	95	+2	9
Calicut	27	1007·4	—1·0	1006·3	82·7	+0·3	88	10	74·8	+0·7	73	6 days	76·7	80·1	75·2	77·2	29·2	+0·5	30·6	93	—2	8
Palghat	319	997·8	..	995·7	82·5	..	88	5	73·8	..	71	10, 13, 16	75·7	79·0	74·6	75·8	28·8	..	29·0	95	..	8
Cochin	10	1009·1	—0·6	1007·1	83·8	+1·2	87	17	75·0	+0·3	72	11	78·3	81·0	76·6	77·4	30·5	+2·1	30·5	92	+2	8
Alleppey	12	1009·1	..	1007·0	85·1	..	87	8 days	74·5	..	71	11	77·9	82·3	76·3	78·1	30·2	..	30·9	93	..	8
Trivandrum ..	211	1002·2	—0·3	999·9	85·2	..	89	5,7	74·6	..	73	7 days	77·2	82·0	75·4	76·5	29·2	+1·5	28·7	92	+2	7
Nagercoil	195	1002·0	..	999·6	88·2	..	94	5	76·3	..	74	18, 19, 20	78·7	84·4	75·2	76·4	28·3	..	27·4	84	..	6
Madras South-East																						
Pambaa	37	1006·5	+0·2	1003·6	90·0	+0·7	91	8 days	80·3	+1·0	77	10,23	84·5	85·1	79·0	79·5	31·3	+1·7	31·8	77	—1	7
Madura	437	992·1	—0·3	998·8	96·2	+0·3	101	4	78·3	+1·0	74	10	83·5	91·2	74·2	75·6	24·7	+1·9	23·2	63	+3	4
Negapatam ..	31	1005·7	—0·2	1002·8	94·4	—1·6	100	1	78·7	—0·2	73	9,10	82·8	87·7	76·2	79·1	27·9	+1·7	30·1	73	+5	6
Trichinopoly* ..	295	997·3	+0·1	993·7	95·6	—1·4	102	5	78·7 (a)	—0·3	74	9	82·1	92·8	74·4	76·0	25·6	+2·0	23·0	69	+7	4
Coimbatore ..	1,341	961·8	—0·5	959·5	85·6	—1·1	90	5	72·0	+1·0	70	18,20	75·3	81·5	71·4	72·7	24·5	—0·3	23·5	82	—1	6
Salem	913	975·9	—0·5	972·4	91·1	—1·9	97	5	74·6	+0·6	70	11,31	76·7	87·0	73·0	75·0	26·0	+0·3	24·2	83	+3	5
Cuddalore ..	39	1005·0	—0·2	1001·7	94·8	—1·2	100	2	78·7	+0·1	72	10	81·4	90·1	75·6	78·7	27·6	—0·1	28·3	76	+4	6
Vellore	703	981·9	—0·1	978·5	92·1	—2·0	96	3,4,29	77·9	+0·7	73	6	80·4	89·4	74·6	77·9	26·7	+1·8	27·4	75	+5	5
Madras	51	1004·0	0	1000·5	94·9	—1·4	99	3,4,24	79·2	—0·1	71	9	82·9	90·7	75·4	77·5	26·6	+1·1	26·2	70	+5	5
Arogyavaram ..	22,99	929·4	..	926·7	86·0	..	90	4, 22	72·2	..	69	5,6,7	75·1	81·4	70·3	72·4	23·4	..	23·5	78	..	6
Madras, Deccan																						
Cuddapah ..	428	991·1	—0·3	987·3	93·5	—2·1	99	21	77·2	—0·9	70	16	83·0	88·7	75·8	76·9	27·2	+1·5	26·2	71	+3	5
Bellary	1,473	955·5	—0·5	953·0	87·9	—2·7	91	5 days	75·3	+0·3	73	13	77·6	84·4	72·3	74·2	24·7	+2·5	24·2	76	+8	6
Kurnool	923	973·7	—0·3	970·4	89·6	—2·1	95	24, 25	74·4	—0·7	70	27	77·6	86·1	73·5	75·4	26·4	+1·6	25·2	82	+7	6
Rentichintala ..	348	991·6	..	988·6	91·4	—1·7	97	21, 24	77·9	—0·8	73	25	81·3	89·5	75·2	76·8	27·1	—0·1	25·7	74	+1	5
Anantapur ..	1,148	966·4	..	963·4	91·1	..	95	21,25,30	75·6	..	71	1	78·5	87·3	72·6	74·2	24·7	..	23·0	74	..	5
Madras Coast, North																						
Nellore	66	1002·3	—0·4	999·0	96·9	0	102	3,29	79·9	0	75	30	83·1	93·9	76·0	78·5	27·4	+1·2	26·3	71	+5	4
Ongole	38	1002·5	..	999·4	93·3	..	99	21,23	79·2	..	75	4 days	82·5	90·9	76·6	78·9	28·6	..	28·3	76	..	5
Masulipatam ..	10	1003·1	—0·6	1000·3	89·9	—2·5	96	21	77·3	—0·8	70	11	81·0	86·8	76·7	79·1	30·8	+1·1	30·5	85	+4	
Cocanada ..	26	1001·9	—0·2	999·3	87·9	—2·4	96	9	77·6	—0·8	74	27	81·2	85·1	77·4	78·6	30·4	+0·7	30·4	84	+3	
Vizagapatam ..	126	997·2	—0·4	994·7	86·6	—2·4	94	21	77·6	—1·2	72	5	80·8	83·9	77·1	78·4	30·1	+0·8	30·7	84	+5	
Calingapatam ..	19	1000·0	—0·7	997·9	86·8	—3·0	91	26	78·8	—0·2	76	11,13	81·2	83·3	77·4	78·8	30·4	—0·8	31·3	84	+1	

* Pressure and cloud data refer to aerodrome site; rest refer to Cantonment site. (a) Mean of 30 days.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds form :—																	
											8 hrs. I. S. T.									17 hrs. I. S. T.									STATION
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													Mysore
9·7	+0·8	9·6	2·72	—0·15	0·58	28	9	+0·8	10·0	+1·8	0	0	0	0	0	8	23	0	0	0	0	0	0	0	9	22	0	0	Chitaldrug.
9·2	+0·5	9·2	5·43	—0·37	0·58	18	18	+4·8	9·6	+2·6	0	0	0	0	0	19	9	3	0	0	0	0	0	0	20	9	2	0	Hassan.
9·7	+0·8	9·4	6·52	+2·59	1·85	5	14	+6·0	10·5	+2·1	0	0	0	0	0	9	21	1	0	0	0	0	0	0	4	20	7	0	Bangalore.
9·3	+1·1	9·4	1·52	—1·16	0·28	11	4	—3·3	8·8	—0·1	0	0	0	0	0	19	12	0	0	0	0	0	0	1	9	20	1	0	Mysore.
																													Malabar
9·9	+1·1	9·9	38·91	+0·01	3·99	20	28	+0·5	5·2	—0·4	1	1	5	3	2	7	5	6	1	0	1	0	0	1	11	13	4	1	Mangalore.
9·1	+0·2	9·4	44·17	+11·71	7·44	16	28	+1·5	6·0	+1·2	3	6	5	2	2	3	3	6	1	4	1	1	1	1	3	9	11	0	Calicut.
9·9	..	9·3	21·06	..	2·05	19	25	..	7·0	..	0	0	0	0	0	8	22	1	0	0	0	0	0	0	8	21	2	0	Palghat.
9·4	+1·2	9·2	19·58	—3·73	3·57	19	25	+0·8	5·6	+0·6	0	1	4	3	3	4	6	2	8	3	1	0	0	1	1	16	8	1	Cochin.
9·3	..	8·8	16·61	..	1·78	19	24	..	5·4	..	2	5	5	1	2	2	3	8	3	2	0	0	0	1	4	10	14	0	Alleppey.
7·4	—1·1	7·5	3·24	—4·53	0·51	18,20	10	—4·3	6·1	—0·3	12	1	0	0	0	0	2	14	2	1	0	0	0	0	0	12	18	0	Trivandrum.
7·9	..	8·3	1·34	..	0·60	13	4	..	10·3	..	0	0	0	0	0	0	20	11	0	0	0	0	0	0	0	25	6	0	Nagercoil.
																													Madras South-East
5·3	+1·5	4·9	1·66	+1·20	1·19	9	2	+1·2	8·6	—0·9	0	0	1	2	11	14	3	0	0	0	1	0	2	17	11	0	0	0	Pamban.
7·4	+0·5	8·3	1·82	—0·13	0·96	5	3	+0·3	5·3	+0·4	2	0	0	1	0	1	18	4	5	0	0	1	0	1	3	20	2	4	Madura.
8·1	+2·4	8·5	3·53	+1·83	2·48	10	4	+1·1	6·2	+0·2	0	0	0	0	3	17	9	0	2	0	0	1	4	12	13	1	0	0	Negapatam.
8·2	+2·0	8·4	2·91	+1·56	1·64	5	4	+1·9	7·5	—0·2	0	0	0	0	0	3	23	3	2	1	0	0	0	0	3	22	3	2	Trichinopoly.
8·5	+2·4	8·6	0·97	—0·68	0·54	10	2	—2·7	10·4	+3·8	0	0	0	0	10	16	5	0	0	0	0	0	0	12	16	3	0	0	Coimbatore.
7·9	+1·0	9·1	7·00	+3·21	1·73	31	10	+2·9	5·1	+0·9	0	0	0	0	6	19	3	0	3	2	0	0	0	4	8	7	1	9	Salem.
8·0	+1·6	8·5	4·64	+2·04	1·34	10	9	+3·7	7·5	+2·9	0	0	0	0	3	20	7	0	1	0	0	1	13	1	9	6	1	0	Cuddalore.
8·2	+2·2	8·4	5·31	+0·76	3·39	5	6	—0·3	4·6	—0·4	0	0	0	0	0	9	6	7	9	0	0	0	0	0	13	9	3	6	Vellore.
8·9	+1·8	8·9	4·74	+1·14	1·13	27	9	+2·2	11·8	+1·0	0	0	0	0	5	13	11	2	0	0	0	2	17	1	4	6	1	0	Madras.
9·4	..	9·3	3·89	..	1·55	7	6	..	7·5	..	0	0	0	0	0	3	24	0	4	0	0	0	0	0	2	17	7	5	Arogyavaram.
																													Madras, Deccan
8·7	+1·0	8·5	7·28	+3·21	2·48	5	11	+4·3	5·6	—1·8	0	0	0	0	0	0	15	0	16	0	0	0	0	0	1	21	3	6	Cuddapah.
9·0	+1·6	9·3	1·75	+0·14	0·77	1	4	+0·6	8·6	+0·1	0	0	0	0	0	0	27	0	4	0	0	0	0	0	0	28	2	1	Bellary.
9·5	+1·6	9·7	4·74	+0·32	0·96	1	11	+1·7	14·6	+4·2	0	0	0	0	0	13	16	2	0	0	0	0	0	0	6	18	6	1	Kurnool.
8·6	—0·1	8·7	6·27	+1·47	2·18	13	10	+1·0	9·1	—0·3	0	0	0	0	0	11	19	0	1	0	0	0	0	0	9	21	0	1	Rentichintala.
8·7	..	8·9	1·06	—1·57	0·23	6	3	—0·9	11·5	..	0	0	0	0	0	6	25	0	0	0	0	0	0	1	5	22	2	1	Anantapur.
																													Madras Coast, North
8·7	+0·8	8·7	1·90	—0·85	0·57	30	5	—0·5	6·2	+0·4	0	0	0	0	4	8	15	1	3	0	0	1	0	4	3	14	6	1	Nellore.
9·0	..	9·5	5·37	..	2·34	1	10	..	18·3	..	0	0	0	0	1	12	14	1	3	0	0	0	2	0	3	21	0	1	Ongole.
7·6	—0·2	8·3	9·42	+3·03	1·90	26	15	+4·3	8·8	+2·2	0	0	0	0	4	12	13	1	1	1	0	1	0	8	3	11	2	1	Masulipatam.
8·6	+0·9	8·6	11·89	+5·34	5·00	12	17	+5·9	10·3	+4·5	0	0	0	0	0	26	2	3	0	0	2	0	0	0	25	3	1	0	Cocanada.
9·1	+0·6	9·1	7·38	+2·96	2·90	12	13	+4·5	7·2	+1·7	0	0	0	0	1	14	10	1	5	0	0	0	0	9	17	4	0	1	Vizagapatam.
8·7	+1·9	9·2	5·88	+0·34	3·53	12	7	—1·6	13·2	+4·7	0	0	0	0	0	16	12	3	0	0	0	0	0	2	20	8	1	0	Calingapatam.

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		West bulb temperature °F		Vapour pressure, Millibars.			Relative humidity %		
		Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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
Hill Stations Excluding Kashmir and Baluchistan																						
Shillong ..	4,921	843·4	—0·9	841·1	75·8	+0·5	80	16	65·6	+1·0	63	10	70·0	74·1	67·3	67·6	21·8	+1·1	20·6	87	+3	8
Cherrapunji ..	4,309	862·4	—0·6	860·4	71·4	—0·9	77	17	65·5	+0·2	64	3,14	68·1	69·2	67·7	68·2	22·6	+0·7	23·2	98	+5	9
Aijal ..	3,599	884·5	..	882·0	76·6	..	82	17	66·4	..	65	4 days	69·5	71·3	68·8	70·2	23·8	..	24·8	97	..	9
Darjiling ..	7,432	771·5	—0·9	769·8	67·0	+1·3	71	12	58·7	+0·7	57	5 days	61·8	62·6	61·4	62·0	18·2	+0·3	18·6	98	+2	9
Kalimpong ..	3,965	871·2	—1·6	869·6	77·6	+2·3	82	12,13	67·5	+0·3	66	7 days	70·2	73·7	69·2	72·0	24·0	+0·1	26·9	95	+1	9
Katmandu ..	4,388	859·7	..	857·4	82·6	—1·1	87	11,17	68·5	—0·2	66	6, 14	72·4	77·3	70·1	72·6	20·2	—3·3	25·6	89	+6	8
Muktesar ..	7,592	766·5	—1·4	765·2	68·4	—1·0	75	10	59·3	+1·3	57	4 days	61·4	65·0	60·9	63·4	18·1	+1·2	19·4	97	+4	9
Mussooree ..	6,940	790·7	..	789·7	69·4	+0·2	74	9,18	61·5	+0·9	58	7,17	65·7	66·9	63·9	65·7	19·7	+0·9	21·4	91	+5	9
Simla ..	7,224	776·1	—0·5	775·4	73·0	+2·1	78	12	60·9	+1·7	55	7,17	65·2	70·7	61·9	65·5	17·7	+0·7	19·6	84	+1	7
Murree ..	7,113	779·4	—0·8	778·7	77·5	+1·3	86	5,6	61·5	+2·6	54	1	67·5	75·7	59·9	65·2	14·9	—2·3	17·5	66	—12	5
Wana ..	4,456	853·0	..	851·7	95·2	+3·4	106	6	73·3	+2·0	62	17	77·6	95·5	67·8	73·5	19·2	—0·4	19·2	62	0	4
Cherat ..	4,272	861·9	+0·2	860·9	91·0	+1·3	103	5 days	72·3	+0·6	63	22	77·7	90·5	66·7	71·1	17·9	—2·7	18·3	57	—15	4
Parachinar ..	5,673	819·6	—0·6	818·2	88·5	+1·4	100	5	67·5	+1·1	60	11	71·8	85·1	62·7	66·2	16·2	—1·2	15·2	61	+1	3
Drosh ..	4,806	845·9	—1·3	841·3	95·6	—1·1	104	14	73·5	0	65	19,30	77·3	92·1	62·8	63·6	13·6	—3·8	8·6	43	—13	2
Abu ..	3,945	872·1	—0·1	871·7	78·0	+2·7	89	2	66·3	+0·2	64	17,19	67·6	75·3	66·8	72·1	22·1	+0·2	25·6	98	+4	7
Pachmarhi ..	3,528	884·7	—1·4	883·8	73·8	—2·7	84	14	68·7	+0·9	66	4 days	69·6	72·9	68·6	70·9	23·4	+0·6	25·1	94	+3	8
Mahabaleshwar	4,534	857·2	—1·0	856·6	66·2	+0·8	68	1,2,5	62·6	+0·3	61	12,18	63·9	64·3	63·9	64·2	20·3	+0·1	20·0	100	0	10
Mercara ..	3,781	883·1	—0·3	882·1	66·8	—1·9	72	8	63·3	+1·2	61	21	65·2	66·6	64·8	65·8	20·7	+0·8	21·4	98	0	9
Ootacamund ..	7,364	778·2	+0·4	777·1	61·8	0	70	5,9	52·7	+0·6	49	30	55·7	58·1	54·5	56·0	14·0	+0·7	14·6	93	+1	8
Coonoor ..	5,730	824·5	..	..	70·6	—0·2	74	4 days	60·2	+1·1	54	30	65·2	..	59·7	..	15·5	+0·9	..	73	+1	..
Kodaikanal ..	7,688	769·7	+0·9	768·5	63·7	+1·4	68	4	53·5	+1·4	51	10	56·5	58·5	53·8	56·4	13·1	+0·6	14·7	84	+4	8
Ceylon																						
Colombo ..	24	1008·7 (a)	—0·4	1006·6	86·0	+0·6	87	13 days	77·3 (a)	+0·3	74	30 (a)	80·2	83·1	76·5	77·1	29·5	+0·5	29·1	84 (a)	—3	7
Trincomalee ..	24	1006·7	+0·4	1004·3	92·6	+0·4	98	5	77·9	+0·3	72	10	80·5	89·2	75·2	78·2	27·5	+0·3	27·9	77	—2	5
Hambantota (a)	61	1005·9	—1·0	1003·4	86·6	—1·0	92	17	76·8	+0·5	74	2	78·8	83·6	76·3	78·6	29·8	+1·5	31·2	89	+1	7
Mannar ..	12	1007·3	..	1005·1	87·5	..	93	5	79·7	..	73	10	82·3	84·2	77·8	79·7	30·5	..	31·0	81	..	7
Afghanistan ..																						
Jalalabad ..	1,950	929·3	..	924·9	103·9	..	114	5	81·1	..	73	1	86·7	102·0	78·2	86·7	29·5	..	37·1	68	..	5
Kabul ..	5,955	813·8	..	811·6	92·8	+0·8	99	15	60·8	+0·2	53	16	71·5	86·3	56·2	65·7	10·5	—0·2	14·2	41	+3	2
Kandahar ..	3,462	887·4	..	885·1	102·3	..	108	27	63·2	..	55	1	70·7	100·8	59·6	70·0	12·9	..	12·6	51	..	1

(a) Mean of 30 days.

Cloud amount (tenths of sky):			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION.
											8 hrs. I. S. T:									17 hrs. I. S. T.								
Mean 8 hours I. S. T.	Departure from normal.	Mean 17 hours I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hrs.	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
																													Hill Stations Excluding Kashmir and Baluchistan.
9·5	+1·1	8·9	25·34	+11·69	7·83	7	18	—0·2	2·8	+0·6	2	0	0	2	2	3	1	0	21	1	0	0	2	4	10	1	2	11	Shillong.
8·9	—0·5	7·5	133·84	+37·50	16·65	6	30	+2·5	8·1	+2·8	1	5	1	5	10	4	1	0	3	1	3	2	3	5	7	3	0	7	Cherrapunji.
9·4	..	9·6	12·19	..	1·75	10	14	..	7·1	..	0	0	11	5	3	13	0	0	0	0	0	0	2	3	26	0	0	0	Aijal.
9·5	+0·6	9·6 (a)	31·55	—1·37	4·51	15	27	+1·4	5·1	+1·6	0	2	17	9	0	0	0	1	2	0	3	14	7	1	1	2	1	1	Darjiling.
9·0	+0·7	8·2	32·59	+9·83	5·40	15	28	+6·1	4·3	—1·1	2	0	1	10	0	0	0	10	8	0	0	0	16	3	0	0	8	4	Kalimpong
9·2	—0·1	8·5	24·62	+9·93	2·56	14	24	+1·3	0·2	—0·7	0	0	1	0	0	0	0	0	30	2	0	0	0	0	0	2	1	25	Katmandu.
9·2	+0·9	8·6	11·09	—1·28	1·83	26	19	+1·2	7·8	+2·6	0	3	1	1	0	5	11	4	6	0	1	2	3	0	8	11	3	3	Mukteswar.
8·9	—5·9	4·1	30·34	+2·58	5·99	23	27	+3·8	2·1	—2·1	3	6	0	1	6	2	1	1	11	1	1	2	1	5	3	0	1	17	Musooree.
7·0	—0·9	6·8	9·09	—7·21	2·86	5	13	—5·7	1·5	—1·5	7	8	1	1	2	1	0	2	9	5	0	0	0	5	5	1	2	11	Simla.
4·4	—0·7	4·9	9·79	—2·41	1·96	23	9	—4·3	4·8	+0·6	1	4	5	1	0	0	5	2	13	0	5	4	3	1	1	5	10	2	Murree.
1·5	—0·4	2·6	1·41	—0·32	0·92	17	3	—1·0	4·2	..	0	0	1	0	0	0	0	0	30	1	4	10	14	1	0	0	1	0	Wana.
3·9	—2·0	2·3	1·72	—1·22	0·98	22	4	—0·5	8·2	+2·8	10	0	1	5	11	1	2	1	0	2	3	0	8	14	2	1	1	0	Cherat.
3·2	—0·9	5·2	4·06	+0·54	1·13	30	9	+2·1	4·5	+2·0	6	5	2	1	1	1	0	2	13	1	3	4	17	1	2	3	0	0	Parachinar.
3·9	+0·1	3·8	0·69	+0·09	0·39	19	3	+1·5	6·3	+1·2	0	0	2	4	1	2	0	0	22	1	2	0	1	0	19	8	0	0	Drosh.
9·2	+0·3	7·0	5·55	—16·44	1·82	17	7	—10·8	..	..	0	1	0	0	1	20	3	3	3	0	0	1	0	5	19	2	3	1	Abu.
10·0	+1·0	9·6	57·73	+31·50	12·61	29	25	+3·0	6·0	—1·2	0	1	1	0	0	3	20	6	0	1	1	0	0	2	2	21	4	0	Pachmarhi.
10·0	0	10·0	81·75	—23·58	9·78	18	31	+0·9	9·7	—0·5	0	0	0	0	0	29	1	1	0	0	0	0	0	0	29	1	1	0	Mahabaleshwar.
9·4	—0·1	9·4	47·81	+4·49	5·29	15	23	+0·4	10·0	+2·8	4	0	0	0	0	9	15	7	6	0	0	0	0	0	5	15	7	0	Matheran.
8·8	—0·1	8·9	5·67	—2·89	1·32	7	12	—1·8	7·0	+1·0	0	0	0	0	0	7	15	1	7	1	0	0	0	1	9	15	3	2	Ootacamund.
10·0	+2·6	..	0·21	—3·42	0·07	8	0	—7·0	5·6	+0·7	1	0	0	5	2	1	3	12	7	..	..	..	..	..	..	..	..	..	Coonoor.
7·9	+0·7	8·0	3·59	—1·46	0·92	10	8	—2·2	5·8	—0·7	1	0	0	1	0	3	12	12	3	1	0	0	2	1	3	13	8	3	Kodaikanal
																													Ceylon
7·5	—0·2	7·2	6·16	+1·17	1·38	19	11	+3·6	..	..	6	0	0	5	2	14	7	1	1	0	0	0	6	1	16	14	0	0	Colombo.
7·0 (b)	+1·9	7·2	2·48	+0·69	1·17	21	2	—3·3	..	..	9	0	0	0	3	27	5	0	5	0	0	1	1	0	23	6	0	0	Trincomalee.
8·1	+3·1	7·8	0·45	—1·68	0·40	10	1	—3·2			6	0	0	0	0	20	10	0	0	0	0	0	0	0	4	0	27	3	0	0	Hambantota.(c)
6·9	..	6·6	1·33	..	1·33	10	2	..	..	..	0	0	0	0	15	15	0	0	0	1	0	0	0	14	16	0	0	0	Mannar.
																													Afghanistan
2·0	..	2·5	0	..	0	..	0	..	5·0	..	2	3	3	2	0	4	6	2	9	0	5	0	20	1	3	0	1	1	Jalalabad.
0·9	+0·2	2·0	0	—0·07	0	..	0	—0·3	3·6	+1·4	1	5	6	1	2	3	5	6	6	13	16	1	0	2	0	0	1	2	Kabul.
1·0	..	0·5	0	..	0	..	0	..	1·4	..	0	2	1	0	0	0	0	0	28	0	0	0	0	0	16	0	2	12	Kandahar.

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 emperature °F		Vapour pressure millibars.			Relative humidi °/o	
		Mean 4 hrs. G. M. T.	Departure from normal.	Mean. 12 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 4 hrs. G. M. T.	Mean 12 hrs. G. M. T.	Mean 4 hrs. G. M. T.	Mean 12 hrs. G.M.T.	Mean 4 hrs. G. M. T.	Departure from normal.	Mean 12 hrs. G. M. T.	Mean 4 hrs. G. M. 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
Iran																					
Charbar (R) ..	25											4 days									
Jask ..	13	996·5	..	994·2	95·0	—1·2	103	1	85·8	+0·6	84		87·9	93·1	83·0	85·1	36·3	+1·0	37·5	81	+7
BandarAbbas ..	29	995·8	..	992·8	102·0	..	111	1	86·7	..	81	1	93·7	98·2	85·1	87·0	37·9	..	38·8	70	..
Bushire ..	131	995·8	..	994·8	97·7	+2·9	104	3	85·5	+1·1	77	3	90·5	96·3	81·5	84·5	33·2	—0·3	34·3	68	—6
Ispahan (R) ..	5,817																				
Meshed ..	3,104	892·9	..	890·0	93·6	+0·1	101	4	56·1	—5·6	50	7,30	76·6	87·5	61·5	65·5	12·9	—0·8	12·2	42	—1
Seistan ..	..	944·1	..	941·4	104·3	+1·0	112	4	79·7	+0·6	72	3	89·4	103·7	64·4	70·7	10·2	—5·3	12·5	23	—13
Arabia																					
Bahrain ..	28	995·6	..	994·7	99·5	+0·9	108	3	88·0	+3·1	81	2	92·0	97·0	82·5	84·2	33·6	+0·7	33·9	65	—4
Muscat ..	20	996·1	..	995·0	96·3	+1·2	105	23	85·3	—1·9	80	16	86·8	89·5	83·4	85·5	37·6	+3·8	39·3	88	+11
Sharjah ..	18	996·2	..	994·2	104·0	+4·1	113	3,19	82·4	+1·4	77	1,2,3	91·7	98·4	80·8	87·5	31·1	+2·8	38·8	63	+2

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 HRS. G. M. T.) AT 4TH CLASS STATIONS—JULY 1

Stations.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature 8 hrs. I. S. T. °F.	Mean wet bulb temperature 8 hrs. I. S. T. °F.	Vapour pressure millibars.		Relative Humidity. %		Mean cloud amount 8 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 8 hrs. I. S. T.	Departure from normal.	Mean 8 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 8 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 ..	93·7	+2·5	98	2	77·1	+0·7	74	8	85·0	78·3	30·1	—0·9	73	—12	..	3·13	—4·46	1·60	17	5	—6·5	..
Bengal																						
Pabna ..	89·2	—0·5	93	4,25	79·2	+2·8	75	6	83·8	80·6	34·3	+0·8	87	+1	..	9·63	—1·46	1·86	31	17	+0·4	..
Kashmir																						
Jammu ..	98·8	+3·4	108	5	81·5	+2·2	69	17	85·6	77·0	27·8	—0·2	67	—6	4·9	10·27	—2·52	2·50	15	10	+1·5	N 38E
Kargil ..	84·5	—2·4	93	22	64·3	+0·8	57	19	68·5	60·6	15·2	+3·6	65	+14	3·5	0·08	—0·23	0·08	23	0	—0·9	N 56W
Mysore																						
Balehonnur ..	73·1	0	79	8	66·0	+0·6	64	7	68·6	67·8	22·9	+1·0	96	—1	—1	35·97	+1·38	3·20	26	25	—3·3	..
Tibet																						
Yatung (Chumbi) ..	67·4	+2·0	71	23	48·9	—2·4	43	16	59·8	58·8	16·5	+2·0	95	+5	7·7	8·41	+2·00	1·21	25	22	+4·3	..
Iran																						
Zahidan ..	97·3	—0·7	103	15	67·3	—0·6	59	8	85·6	59·5	7·2	—13·5	18	—37	0·5	0	0	0	..	0	0	N 27E

RECORDED AT 4 AND 12 HRS. (G. M. T.)—JULY 1947.

Cloud amount (tenths of sky).			Rainfall inches.				Number of rainy days. (0·10″ or more)		Wind velocity miles per hour.		Wind directions—Number of winds from :—																	STATION.
											4 hrs. G. M. T.									12 hrs. G. M. T.								
Mean 4 hrs. G. M. T.	Departure from normal	Mean 12 hrs. G.M.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
																													Iran
																													Charbar. (*R*)
3·5	+0·9	1·4	0	—0·02	0	..	0	0	9·1	—0·6	0	0	29	1	0	0	0	1	0	0	0	1	7	12	7	4	0	0	Jask.
4·8	..	1·4	0	..	0	..	0	..	..	..	2	5	9	4	2	0	0	0	9	0	0	0	13	17	1	0	0	0	Bandar Abbas.
1·2	+0·8	1·0	0	0	0	..	0	0	8·4	+1·3	4	4	3	2	0	3	3	11	1	0	0	0	0	0	15	10	6	0	Bushire.
																													Ispahan. (*R*)
0·7	—0·2	1·0	0·05	0	0·05	27	0	—0·1	1·2	—0·4	2	0	1	0	0	0	0	0	28	1	5	7	0	0	0	0	0	18	Meshed.
0·8	0	0·3	0	0	0	..	0	0	(*c*) 19·5	+5·9	0	2	0	0	0	0	0	29	0	0	4	0	0	0	0	0	25	2	Seistan.
																													Arabia
0·6	—0·6	0·1	0	0	0	..	0	0	4·8	—2·6	2	0	0	1	1	1	7	13	6	12	5	2	1	0	0	0	11	0	Bahrain.
2·4	—0·9	0·9	0	—0·01	0	..	0	—0·1	3·0	—0·5	2	1	0	0	1	0	1	3	23	0	1	4	1	0	0	0	2	23	Muscat.
3·0	+1·1	0·7	0	0	0	..	0	0	7·8	+0·6	1	1	1	6	14	5	1	0	2	8	0	0	0	0	1	7	15	0	Sharjah.

(*c*) Mean of 26 days.

(*R*)—Register not received.

TABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2-30 HRS. G.M.T.) AT 5TH CLASS STATIONS—JULY 1947.

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 (*R*)							Kashmir ..	Sonamarg (*R*)						
Bengal	Bankura ..	13·99	+1·01	2·27	6	20	+4·3		Gurez (*R*) ..						
	Rajshahi ..	15·78	+4·65	2·93	6	19	+3·7	Baluchistan ..	Harnai (*R*) ..						
	Sirajganj ..	7·76	—4·02	1·78	8	15	—1·1	Bombay, Deccan ..	Khandala	70·88	+2·46	9·20	18	30	0
	Rangpur ..	23·34	+7·33	4·51	9	19	+4.0	Madras, Southeast	Palamcottah ..	0·17	—0.16	0·17	5	1	—0·4
	Cooch Behar (*R*)							Sikkim ..	Lachung ..	21·85	+11·44	2·13	25	30	+4·7
Bihar	Muzaffarpur ..	15·66	+2·88	4·50	30	14	0								
	Chapra ..	6·23	—5·84	1·50	6	10	—3·8								
	Arrah ..	7·57	—5·45	1·63	6	11	—3·5								
United Provinces West	Meerut ..	5·22	—3·37	2·59	17	6	—4·3								
Punjab East and North.	Dharampore ..	8·86	—7·02	2·42	7	17	—0·7								
	Kyelang (*R*)														
	Dalhousie ..	19·55	—2·37	3·26	23	19	—1·0								

(*R*)—Register not received.

MONTHLY WEATHER REPORT, JULY 1947

Monthly Means of Upper Winds.

Note.—Data upto 9·0 Km. a. s. l. are given under Table A and data above 9·0 Km. under Table B. In Tables A & B.

n represents the number of observations.

V represents the mean speed in m/sec. irrespective of directions.

v represents the resultant mean velocity in m/sec.

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

For the co-ordinates of the stations for which data have been published in these tables and other particulars, please refer to the introduction to the Monthly Weather Report, January 1947. In addition to the data for stations mentioned therein the data for Deolali — Lat. 19° 53′ N., Long. 73° 49′ E. Ht. 576 metres a.s.l. and Udaipur Lat. 24°35′ N., Long. 73°42′ E, Ht. 587 metres a.s.l. have been included. The data for the following stations mentioned there *have not* been included :—

1. Bahrein. 2. Drosh. 3. Jhelum. 4. Jiwani. 5. Khanpur. 6. Lahore. 7. Multan. 8. Peshawar. 9. Chhor. 10. Dalbandin. 11. Fort Sandeman. 12. Jacobabad. 13. Karachi. 14. Quetta. 15. Sharjah. 16. Bogra.

The pilot balloon station at Rajsamand closed on 23rd June 1947.

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9 Km. above sea level.

July 1947

Height in km.	AHMEDABAD												ALLAHABAD											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·9	2·7	232	31	1·9	1·7	226	31	2·7	2·5	221	31	1·4	0·2	153	31	1·9	0·2	201	31	2·0	0·3	27
0·15 a ground.	30	9·1	8·7	244	31	7·1	6·5	239	31	6·5	5·9	229	28	6·4	1·2	169	30	5·3	1·2	201	29	5·4	0·7	32
0·6 a. s. l.	28	12·7	12·5	256	30	11·3	10·8	264	31	8·4	8·0	242	26	8·1	1·7	204	26	8·9	2·1	269	28	5·5	0·8	35
1·0 ,,	28	11·9	11·1	256	29	12·7	12·3	269	31	9·1	8·7	253	23	7·1	1·1	205	23	8·9	2·1	301	26	6·3	0·5	3
1·5 ,,	18	8·3	7·5	243	19	12·5	11·7	257	29	9·4	8·5	265	17	5·7	0·8	112	18	8·4	1·9	324	21	6·2	1·3	10
2·0 ,,	7	6·4	4·6	246	12	11·5	9·9	254	19	9·0	6·8	271	10	5·1	1·5	340	16	7·8	1·4	8	19	6·6	1·9	12
2·5 ,,	2	5·0	4·7	97	6	7·9	5·5	236	6	6·3	3·1	59	5	4·8	1·0	309	11	7·8	1·8	65	11	5·7	2·7	14
3·0 ,,	2	6·5	6·5	93	5	7·9	4·4	242	3	7·5	2·7	23	1	4·5	4·5	110	10	8·3	2·5	54	8	4·4	0·7	20
4·0 ,,					2	6·0	5·5	101	3	7·5	2·6	23					3	6·8	5·2	314	6	3·6	0·6	33
5·0 ,,					1	14·0	14·0	60	2	6·3	6·2	47					1	2·5	2·5	25	3	4·5	4·1	32
6·0 ,,									1	2·0	2·0	10					1	5·5	5·5	50	2	4·0	3·9	34
7·5 ,,																					1	3·0	3·0	18
9·0 ,,																					1	1·5	1·5	18

Height in km.	AMBALA												ANANTAPUR								ASANSOL			
	0100				0700				1600				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	3·2	2·7	104	31	3·1	2·0	108	31	2·6	0·6	97	31	3·8	3·6	260	31	6·9	6·7	272	31	1·6	1·0	13
0·1·5 a ground	30	7·5	5·5	112	31	7·3	4·5	119	31	4·9	1·0	99	30	9·2	9·0	253	30	13·3	12·7	265	22	5·3	3·3	18
0·6 a. s. l.	30	8·6	6·0	122	31	8·2	4·8	142	31	5·3	1·2	110	30	12·7	12·5	256	30	13·2	12·7	265	20	7·7	4·7	21
1·0 ,,	30	7·1	3·7	157	31	7·7	3·7	174	30	5·1	1·0	188	30	21·3	20·9	271	30	14·6	14·4	267	14	5·6	4·1	232
1·5 ,,	29	5·7	1·9	251	30	6·7	3·2	251	27	4·5	2·3	283	18	16·4	15·9	280	27	16·0	15·9	271	11	5·0	3·4	234
2·0 ,,	24	5·9	3·4	306	26	6·5	3·5	297	22	5·5	3·7	308	13	15·5	15·0	283	15	15·2	14·6	278	4	2·7	1·8	251
2·5 ,,	9	5·6	2·9	321	23	7·9	5·6	327	18	6·5	5·1	316	10	14·4	13·9	281	9	12·5	11·8	283				
3·0 ,,	6	5·0	0·4	113	16	8·1	6·3	349	15	6·7	5·3	318	8	12·9	12·4	289	6	12·4	12·0	284				
4·0 ,,	1	4·0	4·0	80	13	5·8	4·7	346	13	7·4	5·8	321	5	14·0	13·4	271	3	7·0	6·2	265				
5·0 ,,					10	4·9	1·1	335	10	7·0	5·1	323	3	8·2	6·4	250	1	10·0	10·0	260				
6·0 ,,					7	5·5	5·1	194	6	7·7	4·6	302	1	2·0	2·0	155	1	5·5	5·5	45				
7·5 ,,					4	6·6	6·5	207	2	5·0	4·3	188	1	6·0	6·0	160								
9·0 ,,					2	5·5	5·5	214	2	5·5	4·5	216												

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9 Km. above sea level.

July 1947

Height in km.	ASANSOL								BALASORE				BANGALORE								BAREILLY			
	0700				1600				0700				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·8	0·9	144	31	1·8	1·1	129	30	4·9	3·2	210	31	4·5	4·3	239	31	5·5	5·1	266	31	1·0	0·8	81
0·15 a ground.	23	4·5	2·3	170	23	5·9	2·3	154	29	8·5	6·0	227	29	9·1	9·0	246	29	10·3	9·8	261	31	7·1	3·3	97
0·6 a. s. l.	21	6·4	1·8	220	22	6·1	2·7	185	29	10·1	7·0	244									30	9·1	3·8	135
1·0 ,,	16	6.2	1·8	236	19	5·7	3.1	215	27	10·8	7·3	254	30	6·5	6·4	244	29	8·0	7·6	259	29	10·1	2·0	152
1·5 ,,	11	5·2	3·7	257	13	5·6	3·4	184	25	9·5	5·8	256	7	14·1	13·9	266	27	11·0	10·7	267	26	8·1	2·3	118
2·0 ,,	7	4·4	3·4	253	9	5·6	2·3	220	17	8·2	5·2	264	4	16·6	16·3	275	23	10·3	10·0	273	20	8·2	2·3	44
2·5 ,,	6	3·8	3·3	251	6	4·9	2·3	195	12	7·4	3·1	266	3	9·0	8·7	295	11	8·4	8·1	277	17	7·1	3·0	47
3·0 ,,	4	2·6	2·0	231	5	4·1	1·5	142	7	7·0	4·9	265	3	1·7	7·5	304	6	4·5	4·1	252	14	7·3	3·3	25
4·0 ,,	1	1·0	1·0	255	3	4·5	4·0	134	3	3·0	0·1	153					3	4·8	3·9	239	6	3·4	1·4	59
5·0 ,,	1	3·5	3·5	90					2	1·7	0·9	155					2	8·0	6·1	247	5	2·9	1·7	125
6·0 ,,	1	3·0	3·0	80					2	6·5	5·6	115					1	4·0	4·0	220	5	4·4	3·3	63
7·5 ,,									1	11·0	11·0	130									2	3·0	3·0	71
9·0 ,,									1	10·5	10·5	120									1	11·0	11·0	85

Height in km.	BAREILLY				BHOPAL												BHUJ							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·5	0·9	85	31	4·8	4·6	265	31	5·2	4·8	276	31	5·9	5·0	268	31	5·9	5·8	230	31	3·7	3·5	232
0·15 a ground.	30	5·0	2·2	87	13	8·7	7·3	266	16	8·0	7·1	261	20	9·6	7·3	265	31	8·9	8·8	241	31	8·4	8·3	246
0·6 a. s. l.	30	5·4	1·9	91	13	7·4	6·2	259	16	7·6	7·0	274	20	9·5	7·9	263	27	13·4	13·2	248	29	13·9	13·6	255
1·0 ,,	30	5·9	1·4	112	12	11·2	8·7	275	14	13·4	11·8	288	18	10·2	7·5	273	15	12·0	11·5	242	25	13·9	13·6	254
1·5 ,,	30	7·5	0·5	109	5	9·7	5·9	299	8	13·7	11·2	309	9	10·8	7·7	279	6	9·9	6·9	248	13	11·0	10·0	258
2·0 ,,	21	8·3	2·7	300	2	9·0	8·3	30	3	8·3	8·1	30	6	10·4	7·2	292	4	3·7	3·2	102	7	7·5	3·3	251
2·5 ,,	16	8·9	2·8	321					1	6·0	5·0	35	2	10·5	9·3	320	3	5·3	5·2	97	4	4·9	2·9	100
3·0 ,,	12	9·7	3·8	313					1	5·0	5·0	35	1	14·0	14·0	355	3	7·5	6·3	87	2	7·7	7·7	87
4·0 ,,	6	8·5	6·6	310													1	14·0	14·0	105				
5·0 ,,	6	9·3	7·8	316																				
6·0 ,,	4	3·9	2·7	283																				
7·5 ,,	2	9·3	4·3	257																				
9·0 ,,	1	7·0	7·0	115																				

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9 Km. above sea level.

July 1947

Height in km.	BHUJ				BIKANER								BOMBAY											
	1600				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	6·2	6·0	240	31	4·6	4·1	225	31	4·2	3·4	229	31	5·2	4·8	253	31	4·7	4·3	251	31	5·8	2·3	23
0·15 a ground	31	10·9	10·7	240	31	8·6	7·3	224	31	6·6	4·7	232	26	7·7	7·3	245	26	8·1	7·8	252	29	8·9	7·5	24
0·6 a. s. l.	31	10·7	10·4	248	31	10·3	8·4	242	31	6·5	4·1	232	21	10·4	9·9	258	22	10·1	9·8	258	26	10·6	10·1	24
1·0 „	23	9·9	9·6	251	30	10·2	7·7	242	30	6·3	4·2	238	12	9·0	8·7	265	16	11·3	11·0	264	21	11·9	11·5	26
1·5 „	12	6·7	5·8	270	26	6·7	4·7	245	28	6·8	4·7	241	2	11·0	10·9	283	8	11·9	11·6	258	12	11·4	11·0	27
2·0 „	4	4·0	3·5	32	17	4·4	1·8	104	24	6·9	3·1	237					4	9·1	8·9	281	4	10·0	9·7	24
2·5 „	3	6·5	5·7	54	16	5·4	2·7	80	17	4·9	1·0	210					1	5·5	5·5	260	1	8·0	8·0	24
3·0 „	2	8·5	8·3	59	14	5·3	2·9	64	13	6·1	3·1	321									1	6·5	6·5	24
4·0 „	2	18·5	8·5	53	8	5·6	3·9	43	8	7·9	5·9	38												
5·0 „	2	10·3	10·2	67	6	8·2	6·7	35	4	8·7	8·1	48												
6·0 „					4	5·7	4·1	64	3	9·0	8·9	46												
7·5 „																								
9·0 „																								

Height in km.	CALCUTTA												CHITTAGONG											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	3·7	3·0	192	31	3·3	2·0	183	31	4·7	3·4	169	31	1·8	1·5	160	31	1·6	1·4	151	31	2·0	1·9	19
0·15 a grounds	28	8·0	6·9	197	30	6·0	3·7	199	30	7·3	5·2	178	21	6·2	6·0	155	22	5·9	5·3	148	24	7·0	6·7	18
0·6 a. s. l.	26	10·6	9·3	216	24	9·5	7·0	223	29	9·2	6·7	190	18	10·6	10·0	172	17	11·2	10·6	166	20	9·7	9·2	18
1·0 „	21	11·8	10·3	214	22	8·7	7·0	228	27	9·0	6·9	195	12	11·3	10·7	173	12	10·7	10·1	164	16	10·9	10·2	17
1·5 „	15	10·0	8·1	212	13	8·3	6·0	231	20	8·4	6·1	187	9	10·8	9·6	178	8	9·9	8·9	161	12	11·1	10·3	16
2·0 „	6	7·7	6·7	219	12	8·5	5·0	223	14	7·9	4·7	205	9	10·2	8·4	174	7	9·7	8·6	154	10	9·9	8·8	16
2·5 „					6	8·6	5·9	207	6	6·7	3·7	205	5	8·3	6·9	196	4	9·6	9·4	144	7	9·3	7·9	16
3·0 „					5	10·0	6·6	200	6	6·6	4·0	196	3	8·7	7·1	185	4	8·6	8·1	140	6	9·3	8·5	15
4·0 „					2	5·0	4·3	19	2	5·5	5·0	182					4	9·1	8·9	143	4	8·0	6·3	13
5·0 „					2	4·5	3·0	51	1	4·5	4·5	125					3	9·5	8·9	138	1	15·0	15·0	12
6·0 „									1	3·5	3·5	120					2	9·3	8·6	128				
7·5 „									1	6·5	6·5	70					1	7·0	7·0	125				
9·0 „																								

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

July 1947

Height in km.	COCHIN												COOCH BEHAR								CUTTACK			
	0100				0700				1600				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·5	0·4	344	31	1·5	0·2	155	31	3·7	2·9	276	31	1·5	1·0	107	31	1·6	1·2	144	31	1·4	1·0	218
0·15 a ground	18	3·9	2·1	284	29	3·2	1·1	236	29	4·9	3·9	273	23	4·1	3·1	114	26	3·9	2·9	140	25	6·4	4·7	226
0·6 a. s. l.	18	7·1	6·5	286	29	8·2	7·5	275	29	8·4	7·7	284	14	6·6	5·4	130	27	4·9	4·0	146	23	10·0	7·4	243
1·0 „	17	9·5	9·0	289	28	10·3	9·6	281	27	10·8	10·0	287	11	6·4	5·0	125	25	5·7	4·7	136	23	10·3	7·0	255
1·5 „	14	10·0	9·5	290	26	11·3	11·0	286	18	11·5	10·9	290	9	5·7	4·4	115	20	5·9	4·8	133	20	9·4	7·7	266
2·0 „	10	9·7	9·4	290	21	10·3	10·0	284	18	10·0	9·2	291	8	6·3	6·2	103	15	5·2	4·5	138	13	9·5	7·2	264
2·5 „	4	4·6	4·5	314	15	9·8	9·5	288	11	9·2	8·6	295	5	7·1	6·9	102	12	5·2	5·0	130	3	6·3	6·0	232
3·0 „	4	5·1	4·4	312	14	8·5	8·1	291	9	8·7	7·6	290	4	5·7	4·6	114	9	5·9	5·6	126	2	5·0	5·0	240
4·0 „	2	2·5	0·7	38	5	6·2	6·1	290	5	6·9	5·4	281	2	7·0	5·5	131	4	5·3	4·9	123				
5·0 „					2	3·5	3·3	191	4	3·4	1·2	326	1	5·5	5·5	210	3	4·2	3·0	129				
6·0 „					2	4·3	3·5	191	2	5·0	2·1	64					2	5·5	4·7	113				
7·5 „					2	4·3	4·2	131																
9·0 „					1	11·0	11·0	100																

Height in km.	CUTTACK								DEOLALI				GADAG								GAYA			
	0700				1600				0700				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·2	0·7	230	31	2·1	1·6	208	17	3·8	3·7	255	31	6·9	6·9	246	31	8·7	8·2	260	31	2·3	1·0	118
0·15 a ground	26	5·5	4·0	222	25	6·9	5·4	207	17	9·3	9·2	254	31	11·0	10·9	250	29	12·8	12·6	260	29	5·1	2·0	152
0·6 a. s. l.	22	9·6	7·1	248	24	8·7	6·8	231	17	6·0	6·0	254									29	6·4	2·2	160
1·0 „	20	10·2	7·6	263	22	9·1	6·7	231	17	11·4	11·2	262	31	14·4	14·2	267	29	14·4	13·8	263	29	6·5	2·0	179
1·5 „	16	10·7	7·9	276	16	9·7	8·5	269	15	12·8	12·3	264	18	16·4	16·2	275	25	14·5	14·2	269	26	5·9	1·8	156
2·0 „	15	9·8	6·5	276	13	10·5	9·5	271	10	3·3	13·1	270	10	13·8	13·6	279	9	12·8	12·5	274	24	6·5	1·0	163
2·5 „	13	10·0	6·2	276	12	10·3	9·2	271	4	12·5	12·2	267	5	10·0	9·7	286	3	6·3	6·2	270	12	5·4	1·4	163
3·0 „	10	8·9	6·2	257	10	10·3	9·1	273	1	3·0	3·0	15	3	5·8	5·8	299	3	6·3	6·2	270	9	5·6	3·4	140
4·0 „	4	4·4	3·9	245	3	7·8	7·7	269	1	4·5	4·5	50	2	6·0	6·0	290								
5·0 „	4	5·0	2·1	214	2	7·5	6·7	275	1	5·0	5·0	5	1	11·5	11·5	235								
6·0 „	3	4·3	3·2	176					1	6·5	6·5	15	1	6·0	6·0	235								
7·5 „	2	6·0	6·0	123																				
9·0 „	1	4·0	4·0	110																				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level.

July 1947

Height in km.	GAYA								GOPALPUR								GORAKHPUR							
	0700				1600				0700				1600				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D		V	v	D	n	V	v	D	n	V	v	
Surface.	31	2·5	1·0	141	31	3·1	1·5	71	31	6·8	6·2	210	31	10 4	9·3	197	31	1·8	1·5	97	31	2·1	1·	
0·15 a ground.	30	5·7	1·9	159	29	5·5	2·1	89	31	8·1	6·7	220	29	12·5	10·7	209	21	6·4	5·7	92	27	6·2	4·	
0·5 a. s. l.	30	7·2	1·8	213	28	6·0	2·6	116	31	8·3	6·2	244	28	8·8	8·3	243	15	10·5	9·1	109	27	8·8	5·	
1·0 „	28	7·4	1·7	232	28	6·5	2·2	129	31	9·4	7·4	263	28	9·6	7·1	265	14	11·6	10·0	109	25	8·9	7·	
1·5 „	24	7·2	0·2	273	26	6·1	2·1	132	31	11·3	9·1	278	25	11·4	9·6	275	13	12·8	10·5	105	22	9·1	6·	
2·0 „	23	6·8	1·4	103	20	6·2	2·9	145	24	10·2	9·4	272	29	12·1	9·7	282	10	11·2	10·0	99	17	10·0	6·	
2·5 „	20	6·2	3·5	107	15	5·8	3·1	141	17	9·5	6·8	281	12	10·3	6·2	265	5	8·9	8·7	95	11	9·2	4·	
3·0 „	12	6·0	4·1	123	9	6·3	4·1	107	11	9·7	5·6	284	7	9·3	9·0	257	4	11·5	11·5	94	9	10·2	3·	
4·0 „	5	3·5	2·6	154	4	6·9	2·5	73	3	3·8	3·1	237									3	3·0	2·	
5·0 „	4	3·2	1·2	138	2	4·0	3·9	74	3	6·2	0·4	232									1	3·5	2·	
6·0 „	1	7·0	7·0	105	1	5·5	5·5	95	1	2·0	2·0	40									1	4·5	4·	
7·5 „	1	10·0	10·0	85	1	11·0	11·0	90	1	9·5	9·5	90												
9·0 „	1	11·0	11·0	100					1	15·0	15·0	105												

Height in km.	HYDERABAD (Dn.)												JAMSHEDPUR								JHARSUGU			
	0100				0700				1600				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface.	31	6·0	5·5	260	31	6·3	6·0	264	31	6·2	5·9	268	31	2·1	0·7	227	31	3·3	1·1	214	31	2·2	1·	
0·15 a ground.	31	11·4	11·2	262	31	10·6	10·4	265	31	9·2	8·8	267	29	4·8	2·3	214	30	5·7	1·9	201	26	6·6	4·	
0·5 a. s. l.	31	8·3	8·0	257	31	8·3	8·2	264	31	7·9	7·5	268	27	7·0	4·0	233	30	6·5	2·5	200	21	9·8	7·	
1·0 „	31	15·9	15·3	270	31	14·6	14·4	281	31	10·5	10·1	272	15	9·1	5·3	256	28	7·1	2·3	191	14	12·2	8·	
1·5 „	29	16·4	16·1	280	24	15·4	15·2	288	29	12·8	12·4	276	9	10·2	8·0	269	22	7·9	2·1	225	12	12·0	7·	
2·0 „	25	14·6	14·1	283	23	15·6	15·0	287	27	14·4	14·0	282	8	10·5	5·3	265	17	9·1	1·6	245	6	9·9	5·	
2·5 „	12	10·5	9·8	280	18	13·5	13·0	283	12	15·5	15·0	288	7	6·9	2·8	235	14	7·7	0·8	110	2	7·7	1·	
3·0 „	6	7·5	6·5	284	16	11·4	10·8	284	6	14·5	12·5	291	4	5·7	5·7	268	14	7·3	1·4	100	1	1·5	1·	
4·0 „					13	8·8	7·8	289	1	16·0	16·0	280	1	1·5	1·5	360	9	7·5	5·1	92	1	0·5	0·	
5·0 „					10	8·3	6·9	284					1	3·0	3·0	95	5	8·2	8·2	96				
6·0 „					6	7·7	6·1	281									3	4·7	4·4	94				
7·5 „					1	6·0	6·0	200									1	8·0	8·0	180				
9·0 „																	1	9·0	9·0	185				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level.

July 1947

Height in km.	JHARSUGUDA								JODHPUR												JUBBULPORE			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·0	1·5	198	31	2·2	1·3	222	31	5·9	5·1	238	31	5·3	5·0	240	31	5·2	4·0	234	31	2·8	2·3	246
0·15 a ground	29	5·9	3·8	227	26	6·4	3·6	221	31	11·8	10·5	228	31	9·0	8·7	230	31	7·9	6·1	227	23	7·7	6·2	253
0·6 a. s. l.	25	8·7	5·7	247	26	7·8	4·8	230	31	12·8	11·5	231	31	10·6	10·1	237	31	7·9	6·6	226	23	8·7	6·8	258
1·0 „	13	10·0	5·0	272	23	8·7	5·4	241	24	10·7	8·9	231	31	13·6	12·6	240	30	7·5	6·6	227	20	12·2	8·8	270
1·5 „	11	10·2	5·1	289	17	8·4	3·9	265	13	6·4	2·4	239	21	12·4	9·3	247	25	7·3	5·4	232	11	9·9	5·2	282
2·0 „	8	10·6	3·9	302	13	8·5	2·4	289	8	5·6	2·2	108	11	10·7	3·2	222	21	5·7	2·3	221	8	9·2	2·6	310
2·5 „	6	9·4	3·1	292	12	7·0	0·9	245	4	6·5	5·6	64	7	12·4	1·1	177	16	5·4	1·0	68	6	9·3	1·4	30
3·0 „	5	9·5	2·4	274	12	6·3	0·2	155	2	6·7	5·9	87	4	12·6	3·7	151	16	6·9	1·7	58	5	9·9	5·1	68
4·0 „	2	6·7	6·3	250	8	5·1	1·0	180					1	7·5	7·5	160	10	8·1	0·9	55	2	11·7	11·6	52
5·0 „	1	8·5	8·5	260	6	3·8	1·8	76					1	6·0	6·0	125	8	5·7	3·4	31				
6·0 „	1	5·5	5·5	255	6	6·0	4·0	64									4	4·3	2·6	331				
7·5 „					1	18·0	18·0	95																
9·0 „																								

Height in km.	JUBBULPORE				MADHOSAGAR								MADRAS											
	1600				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	3·3	2·4	265	31	3·6	2·0	246	31	4·2	1·5	257	31	4·5	3·9	224	31	3·2	2·7	245	31	5·4	3·7	238
0·15 a ground	27	7·4	5·3	268	29	6·9	3·1	262	26	7·1	2·1	272	30	9·0	7·9	232	31	8·3	7·7	247	30	8·1	6·1	242
0·6 a. s. l.	27	7·6	5·6	269	28	9·9	6·1	289	25	7·1	2·9	276	30	12·9	11·8	250	31	12·6	12·2	262	30	8·3	7·4	254
1·0 „	22	9·1	6·4	283	24	10·9	7·1	304	25	7·2	3·2	293	29	14·0	13·1	263	31	14·5	13·9	269	31	9·0	8·5	262
1·5 „	18	9·9	6·3	300	22	8·4	5·3	330	24	7·2	3·5	337	23	14·3	13·9	269	31	15·0	14·5	279	30	10·9	10·5	269
2·0 „	14	8·9	5·5	299	18	8·3	6·3	8	20	7·5	4·1	351	14	13·0	12·3	275	29	12·7	12·3	279	26	13·5	12·9	277
2·5 „	10	9·1	5·0	319	16	8·2	6·9	16	16	7·6	5·8	342	4	9·0	8·3	272	26	12·3	11·8	277	16	11·2	10·7	278
3·0 „	7	7·3	5·2	338	9	7·0	6·4	17	9	7·0	5·7	352					23	11·5	10·8	276	13	9·7	9·1	267
4·0 „	3	8·8	6·6	31	4	4·9	3·8	31	3	7·0	6·6	329					11	10·9	9·9	257	7	7·9	6·8	254
5·0 „					2	6·0	6·0	91	1	7·0	7·0	310					3	13·0	12·6	232	4	3·3	2·7	259
6·0 „					1	9·0	9·0	95	1	8·0	8·0	315					2	8·0	8·0	247	4	3·3	2·3	248
7·5 „																					2	6·3	4·6	287
9·0 „																								

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level.

July 1947

Height in km.	MALEGAON												MANGALORE											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface.	31	4·0	3·9	263	31	2·6	2·5	262	31	5·7	5·4	272	31	3·0	0·8	239	31	4·1	2·5	244	31	3·9	3·3	2
0·15 a ground	29	9·9	9·8	264	28	7·6	7·5	267	27	10·8	10·5	269	17	4·2	3·1	254	30	6·7	4·7	251	27	6·2	5·4	2
0·6 a. s. l.	29	9·9	9·8	264	28	7·6	7·5	267	27	10·8	10·5	269	14	7·7	7·2	270	27	9·9	9·2	268	23	9·7	8·9	2
1·0 ,,	29	11·8	11·6	268	28	10·7	10·4	269	27	9·4	9·2	269	12	9·7	9·4	280	18	10·7	10·3	276	14	10·5	9·9	2
1·5 ,,	26	14·2	13·5	271	26	13·4	12·7	272	26	10·8	10·4	269	6	9·4	9·3	289	6	8·6	8·5	287	9	10·8	10·5	2
2·0 ,,	15	12·1	10·9	281	16	12·3	11·5	270	17	11·2	10·8	270	4	8·3	8·2	291	4	8·8	8·6	282	8	10·9	10·6	2
2·5 ,,	6	10·5	9·6	277	8	9·6	8·3	273	10	10·3	10·0	269	2	6·0	6·0	296	2	4·3	4·3	310	2	7·0	6·8	2
3·0 ,,	4	8·5	7·1	297	6	9·1	7·0	289	4	10·0	9·5	270	2	4·5	4·5	296	2	3·0	2·4	321	2	6·5	6·3	2
4·0 ,,	2	7·5	6·3	15	2	9·5	6·6	329									1	4·5	4·5	260	1	8·0	8·0	2
5·0 ,,																	1	8·0	8·0	275	1	5·5	5·5	2
6·0 ,,																					1	4·0	4·0	
7·5 ,,																					1	3·5	3·5	
9·0 ,,																					1	9·0	9·0	

Height in km.	MASULIPATAM												MINICOY								NAGERCOIL		
	0100				0700				1600				0700				1600				0100		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface.	31	2·6	2·0	231	31	1·9	1·7	239	31	3·2	2·4	256	31	3·7	3·4	269	31	4·1	3·8	272	31	5·4	5·0
0·15 a ground.	29	10·9	9·2	235	27	9·9	9·5	243	31	8·5	6·9	256	29	8·7	7·9	268	29	8·5	7·8	265	31	10·6	10·3
0·6 a. s. l.	28	15·1	14·0	257	27	14·9	14·1	267	30	10·8	10·1	269	29	11·3	10·5	270	29	10·7	9·9	270	29	17·1	16·6
1·0 ,,	28	14·7	14·0	267	27	16·3	15·6	276	28	12·9	12·3	277	29	12·8	12·1	279	28	12·7	11·9	279	27	17·3	16·8
1·5 ,,	26	16·0	15·6	270	27	16·6	16·0	286	23	14·4	13·9	280	29	13·2	12·6	285	24	13·9	12·8	284	27	14·9	14·5
2·0 ,,	20	15·4	15·1	280	23	14·6	14·0	286	20	15·5	15·0	280	29	11·8	11·3	285	24	12·1	11·6	285	26	14·2	13·5
2·5 ,,	10	15·3	14·8	281	18	13·8	13·2	278	14	14·2	13·6	275	28	11·2	10·7	281	21	11·5	11·2	280	22	9·5	8·6
3·0 ,,	4	13·5	13·3	269	16	11·7	11·3	270	12	12·7	12·0	273	20	10·5	9·9	275	15	10·0	9·4	275	22	8·1	7·0
4·0 ,,					4	14·6	14·4	268	7	10·0	9·7	270	10	7·7	5·9	258	7	8·7	6·9	253	4	5·6	4·1
5·0 ,,					3	16·8	16·1	261	4	9·3	9·2	270	6	6·0	1·4	271	2	3·0	2·7	119	1	2·5	2·5
6·0 ,,					1	9·5	9·5	205	4	7·3	7·1	281	4	8·1	2·9	269	1	9·0	9·0	90	1	1·5	1·5
7·5 ,,					1	2·0	2·0	160	2	3·3	3·3	325	3	4·5	2·6	237							
9·0 ,,									1	5·5	5·5	54	2	7·0	6·3	54							

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level.

July 1947

Height in km.	NAGERCOIL								NAGPUR												NEW DELHI			
	0700				1600				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	5·0	4·8	276	31	7·5	7·0	279	31	3·3	2·2	238	31	3·9	3·2	247	31	4·8	3·8	264	31	3·3	1·6	173
0·15 a. ground.	31	9·7	9·6	286	31	11·6	11·5	278	24	7·9	6·6	263	23	7·4	6·7	257	28	7·7	6·6	269	30	7·1	3·9	175
0·6 a. s. l.	31	16·5	15·9	292	31	14·2	14·0	288	24	9·5	8·0	272	23	9·7	8·8	278	28	8·5	7·5	272	30	8·5	4·5	198
1·0 ,,	31	15·7	15·4	292	31	15·6	14·7	295	24	11·0	9·5	289	22	12·4	10·9	290	28	9·6	8·6	281	29	9·0	4·0	213
1·5 ,,	31	14·8	14·4	288	29	15·5	15·1	294	12	11·0	10·4	298	16	12·2	10·2	298	23	10·4	8·9	287	18	8·7	1·4	99
2·0 ,,	29	14·9	14·5	283	27	14·8	14·7	280	4	9·8	9·2	349	7	10·5	8·3	275	12	9·1	6·2	279	9	5·7	3·8	66
2·5 ,,	29	13·6	13·3	277	23	11·8	11·5	281					6	10·5	7·8	270	4	9·6	2·5	324	5	5·7	3·7	52
3·0 ,,	29	11·1	10·4	270	22	9·4	8·7	281					1	12·0	12·0	270	3	10·8	2·8	351	2	6·8	2·6	15
4·0 ,,	22	9·1	7·1	262	19	6·1	4·9	277									1	14·0	14·0	80				
5·0 ,,	15	6·5	1·9	231	16	7·2	3·9	263																
6·0 ,,	15	6·7	1·1	134	14	7·1	1·0	176																
7·5 ,,	12	8·3	7·2	100	8	6·9	5·6	104																
9·0 ,,	9	10·5	9·6	91	7	9·9	9·0	88																

Height in km.	NEW DELHI								POONA												PORT BLAIR			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·6	0·2	234	31	3·7	0·4	295	31	2·2	2·2	270	31	2·0	1·9	268	31	4·2	4·1	267	31	5·5	5·2	229
0·15 a ground.	31	5·9	1·6	171	30	5·1	0·7	99	31	7·0	6·9	257	31	7·1	7·0	255	31	9·5	9·3	263	26	8·0	7·7	224
0·6 a. s. l.	31	3·1	2·7	246	30	5·2	0·5	87	31	5·3	5·2	257	31	4·5	4·3	255	31	6·6	6·4	260	25	11·6	11·3	231
1·0 ,,	31	9·3	4·4	285	29	5·2	0·4	278	31	9·4	9·4	261	31	10·8	10·6	263	31	10·5	10·2	264	18	10·5	10·3	235
1·5 ,,	29	8·0	4·1	309	29	5·7	2·3	312	17	14·0	13·9	267	21	13·5	13·2	265	23	13·3	13·0	266	16	9·3	9·0	238
2·0 ,,	20	7·6	4·5	350	24	6·2	3·4	336	12	13·0	12·9	270	12	12·8	12·3	269	7	17·0	16·9	267	11	7·5	6·9	239
2·5 ,,	12	6·7	4·4	360	18	7·6	4·7	346	1	11·0	11·0	250	9	11·2	10·6	275	3	15·5	15·5	280	7	5·1	4·5	238
3·0 ,,	9	7·4	6·1	7	13	8·0	4·9	3					5	7·3	6·9	286					6	3·6	2·2	222
4·0 ,,	5	4·6	3·0	359	8	7·9	5·5	4					3	3·8	3·6	299					2	3·7	2·2	261
5·0 ,,	3	4·5	4·5	120	4	3·9	3·1	329													2	2·0	1·8	194
6·0 ,,	2	5·3	4·9	79	2	2·3	2·3	206													1	3·0	3·0	358
7·5 ,,					2	4·0	4·0	109																
9·0 ,,																								

Table A.—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level.

JULY 1947

Height in km.	PORT BLAIR				RAIPUR												SAHARSA						
	1600				0100				0700				1600				0700				1600		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface.	31	6·6	6·3	231	31	3·2	2·7	232	30	3·5	3·0	236	31	4·2	3·4	253	31	1·6	1·3	84	31	2·6	2·1
0·15 a ground	25	8·7	8·5	229	25	9·0	7·3	245	24	8·1	6·7	241	22	8·8	7·1	256	19	5·3	5·2	98	27	5·2	4·0
0·6 a. s. l.	23	11·5	11·0	231	25	10·9	9·1	256	23	10·4	8·9	255	22	10·0	8·4	258	15	8·3	8·2	110	26	6·5	5·1
1·0 ,,	15	10·7	10·5	240	23	11·4	9·6	275	16	11·9	9·7	274	19	11·6	9·1	265	10	7·9	7·8	109	22	7·4	6·1
1·5 ,,	5	5·9	5·3	231	7	8·9	8·5	278	12	11·2	9·8	282	10	10·6	7·2	280	4	11·4	11·3	101	18	7·5	5·7
2·0 ,,	3	6·8	6·7	255	3	9·0	8·8	276	5	12·1	10·7	286	8	11·9	7·3	308	4	10·7	10·6	104	18	8·3	6·2
2·5 ,,	3	6·3	6·3	266					2	14·0	13·7	281	2	9·5	9·1	286	1	9·5	9·5	120	12	7·2	4·5
3·0 ,,	2	5·0	5·0	273					2	12·5	12·5	279	1	13·0	13·0	285					10	7·2	6·9
4·0 ,,	1	4·5	4·5	305																	7	8·0	7·7
5·0 ,,	1	2·0	2·0	25																	6	7·2	6·7
6·0 ,	1	1·5	1·5	65																	3	4·0	2·1
7·5 ,,	1	5·5	5·5	40																	3	4·3	3·6
9·0 ,,	1	9·5	9·5	95																	3	7·0	6·6

Height in km.	TEZPUR												TRICHINOPOLY										
	0100				0700				1600				0100				0700				1600		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface.	31	0·3	0·2	119	31	0·9	0·4	119	31	0·8	0·3	117	29	6·4	6·1	269	31	4·6	4·4	266	31	9·5	8·9
0·15 a ground	16	4·0	1·4	194	28	4·2	1·4	139	30	3·7	1·1	146	29	9·8	9·5	268	31	7·9	7·7	265	31	10·5	9·6
0·6 a. s. l.	13	4·8	3·6	239	26	4·3	1·9	212	30	4·2	1·7	182	29	13·3	13·1	272	31	13·3	13·0	266	31	9·2	8·9
1·0 ,,	11	5·6	4·3	244	24	5·1	3·2	220	30	4·2	3·0	207	29	13·2	13·0	270	31	13·5	13·2	267	31	10·1	9·9
1·5 ,,	10	5·3	4·9	234	19	5·1	3·6	230	29	4·8	3·8	210	29	11·7	11·5	270	31	12·6	12·6	265	31	10·3	10·1
2·0 ,,	5	4·4	3·9	231	18	5·5	4·0	236	27	5·5	4·2	207	27	10·0	9·6	270	31	11·7	11·5	266	30	10·9	10·6
2·5 ,,	1	3·5	3·5	175	9	3·4	2·5	220	23	5·9	4·9	216	19	9·3	8·7	273	29	10·1	9·5	268	27	11·2	10·9
3·0 ,,	1	2·0	2·0	155	8	3·6	2·7	239	17	5·3	4·2	213	14	7·4	6·7	271	28	10·2	9·3	273	22	10·5	10·0
4·0 ,,					5	4·7	4·0	235	15	5·3	4·2	207	3	4·5	3·5	225	16	7·5	5·5	266	9	6·3	4·9
5·0 ,,					2	6·7	6·5	191	10	4·1	2·8	198					10	4·4	1·7	280	5	4·8	1·8
6·0 ,,					1	6·0	6·0	145	8	4·0	1·3	205					8	6·0	2·7	113	4	5·5	5·2
7·5 ,,									3	5·3	3·0	90					6	7·5	6·0	101	3	8·5	8·2
9·0 ,,									1	5·5	5·5	75					3	13·2	13·2	90	1	16·5	16·5

Table A.—Monthly mean directions and velocities of upper winds.

Winds upto 9 km. above sea level.

JULY 1947

Height in km.	TRIVANDRUM				UDAIPUR												VENGURLA							
	0700				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·3	2·1	340	31	3·7	3·0	244	31	2·6	2·3	257	31	3·4	2·9	242	31	0·7	0·6	261	31	1·2	1·1	269
0·15 a ground.	31	5·5	4·8	322	30	6·5	6·1	248	30	6·3	5·5	252	30	6·9	6·4	249	14	6·1	5·8	261	23	6·9	6·4	263
0·6 a. s. l.	30	10·9	10·1	298													13	9·1	9·0	268	17	10·9	10·8	266
1·0 „	26	12·3	11·6	296	30	8·1	7·1	253	30	7·2	5·1	259	30	5·9	5·4	249	7	9·4	9·1	273	12	12·7	12·4	272
1·5 „	22	12·7	12·3	295	26	7·8	6·2	261	28	7·8	5·0	254	28	6·0	4·3	264					1	8·5	8·5	250
2·0 „	17	11·7	11·2	298	18	4·4	1·9	311	14	6·0	0·8	85	18	5·3	2·7	310								
2·5 „	13	10·4	9·8	294	10	4·9	3·6	33	11	7·5	4·8	67	13	5·0	2·9	23								
3·0 „	13	9·1	8·2	293	6	7·6	5·1	33	8	8·0	6·6	56	12	5·9	4·9	21								
4·0 „	6	4·8	3·9	290	1	4·5	4·5	355	5	9·2	8·6	71	7	7·1	4·3	19								
5·0 „	4	4·3	0·7	345					2	4·5	3·7	43	5	8·6	6·1	39								
6·0 „	2	5·0	3·0	75									3	5·3	4·5	31								
7·5 „	1	6·0	6·0	85									1	6·5	6·5	45								
9·0 „	1	9·0	9·0	115																				

Height in km.	VENGURLA				VERAVAL												VIZAGAPATAM							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·4	1·1	253	31	9·0	8·6	254	31	8·3	7·9	265	31	8·4	7·6	260	31	3·2	2·9	246	31	2·5	2·4	244
0·15 a ground	21	7·1	6·6	262	30	9·1	8·7	250	31	9·7	9·3	258	29	9·2	8·7	258	28	9·8	9·5	244	26	8·1	7·9	249
0·6 a. s. l.	18	11·4	11·1	268	28	11·0	10·8	254	29	11·8	11·6	259	29	10·9	10·6	258	27	12·8	12·6	248	26	13·6	13·2	248
1·0 „	11	11·8	11·3	278	23	11·3	11·1	255	21	12·3	11·9	260	26	11·4	11·2	259	23	14·3	13·9	256	26	13·6	12·7	257
1·5 „	5	10·5	10·2	279	7	7·3	6·0	253	11	10·0	9·3	256	23	10·1	9·8	257	20	13·7	13·1	270	24	14·9	13·8	264
2·0 „					5	6·1	3·2	249	4	7·3	6·0	199	13	8·8	8·6	254	16	12·7	12·2	280	22	14·2	13·0	271
2·5 „					1	8·5	8·5	80	3	6·7	2·9	165	5	4·6	1·6	237	10	11·3	10·8	283	14	12·2	11·1	277
3·0 „					1	6·5	6·5	80	1	5·5	5·5	60	4	6·6	2·3	71	6	9·7	9·2	283	13	11·1	10·2	273
4·0 „													4	6·6	3·8	63					5	10·8	8·2	275
5·0 „													3	7·8	5·9	65					1	3·0	3·0	250
6·0 „													2	6·7	6·7	70								
7·5 „													2	6·7	6·7	103								
9·0 „																								

Table A.—Monthly mean directions and velocities of upper winds.

Winds upto 9 km. above sea level.

JULY 1947.

Height in km.	VIZAGAPATAM 1600																							
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface.	31	8·6	8·5	231																				
0·15 a ground.	29	7·9	7·6	231																				
0·6 a. s. l.	29	10·5	10·0	249																				
1·0 ,,	26	10·9	10·5	263																				
1·5 ,,	24	11·8	11·4	277																				
2·0 ,,	21	12·4	11·6	277																				
2·5 ,,	20	12·1	11·1	269																				
3·0 ,,	20	11·9	11·1	267																				
4·0 ,,	14	13·3	12·3	266																				
5·0 ,,	11	11·7	9·5	274																				
6·0 ,,	7	9·6	7·7	279																				
7·5 ,,	2	6·3	6·2	13																				
9·0 ,,	1	10·0	10·0	90																				

Height in km.																								
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface.																								
0·15 a ground.																								
0·6 a. s. l.																								
1·0 ,,																								
1·5 ,,																								
2·0 ,,																								
2·5 ,,																								
3·0 ,,																								
4·0 ,,																								
5·0 ,,																								
6·0 ,,																								
7·5 ,,																								
9·0 ,,																								

Table B.—Monthly mean directions and velocities of upper winds

Winds above 9 km. above sea level.

JULY 1947

Ht. in Km.	n	V	v	D	Ht. in km.	n	V	v	D	Ht. in km.	n	V	v	D	Ht. in km.	n	V	v	D
		ALLAHABAD					BAREILLY—*contd.*					NAGERCOIL					SAHARSA		
10·0	1	4·5	4·5	100	15·0	1	17·0	17·0	130						10·0	2	10·3	9·1	67
		AMBALA			16·0	1	18·5	18·5	145	10·0	5	10·7	10·2	90			TEZPUR		
10·0	1	9·5	9·5	185	17·0	1	21·0	21·0	135	11·0	5	17·8	13·7	100	10·0	1	6·5	7·5	75
11·0	1	7·0	7·0	195	18·0	1	29·5	29·5	140	12·0	4	20·0	19·7	95	11·0	1	10·0	10·0	60
12·0	1	11·5	11·5	185	19·0	1	32·5	32·5	145	13·0	1	23·5	23·5	80	12·0	1	13·5	13·5	75
13·0	1	21·0	21·0	190	20·0	1	44·0	44·0	140	14·0	1	24·5	24·5	85	13·0	1	12·5	12·5	90
14·0	1	28·0	28·0	170	21·0	1	61·0	61·0	150	15·0	1	37·0	37·0	75	14·0	1	18·5	18·5	95
		BAREILLY								16·0	1	40·5	4·05	85			TRICHINOPOLY		
10·0	1	5·5	5·5	155			MASULIPATAM			17·0	1	58·0	58·0	75	10·0	1	20·5	20·5	95
11·0	1	9·0	9·0	125	10·0	1	9·5	9·5	70	18·0	1	43·5	43·5	90	11·0	1	28·0	28·0	85
12·0	1	11·0	11·0	125	11·0	1	18·0	18·0	95	19·0	1	24·0	24·0	110	12·0	1	38·0	38·0	75
13·0	1	16·0	16·0	130	12·0	1	26·0	26·0	90	20·0	1	12·0	12·0	85					
14·0	1	15·5	15·5	130	13·0	1	27·0	27·0	85	21·0	1	28·0	28·0	80					

M N20DGOb—325—17-7-51—GIPS

Registered No. B-3607

INDIA WEATHER REVIEW, 1947

LIBRARY
MAY 1 1953
WEATHER BUREAU

Monthly Weather Report

AUGUST

Published by authority of the Government of India

Chief features :—(*i*) Vigorous monsoon activity during the second half of the month resulting in moderate to large excess of rain over the Peninsula, the central parts of the country, Gujarat and the eastern divisions of northwest India (*ii*) a depression from the Bay which developed into a cyclonic storm over Cutch.

During the first half of August, the monsoon was active and rainfall fairly widespread and locally heavy in the United Provinces and northeast India outside Orissa. The monsoon was weak in the Peninsula and northwest India. In the beginning of the month there was widespread rain on two days in the Konkan, the Deccan and the south Peninsula. Again, under the influence of two low pressure waves which moved westwards across the south Peninsula into the east central Arabian Sea and thence northeastwards into Central India, well distributed rain, mostly accompanied by thunder, fell during the second week in southeast Madras, Mysore, the west Deccan, west Central India and the north Central Provinces. Weather was mainly rainless in northwest India during this fortnight except for scattered showers on a few days along the northwest frontier and in Kashmir in association with two western disturbances.

In marked contrast to the earlier half of the month, the later half was characterised by strong monsoon activity outside northeast India and the western divisions of northwest India. The Arabian Sea branch of the monsoon strengthened on the 15th and extended vigorously into the Konkan, Gujarat, east Rajputana and the central parts of the country between the 16th and 20th, when widespread and heavy rain fell over these regions. In the meantime, a depression formed in the north Bay on the 19th, travelled westwards across the central regions and south Rajputana into lower Sind and intensified into a cyclonic storm over Cutch on the 30th. It served to maintain the activity of the monsoon in the eastern divisions of northeast India, the central parts of the country and the Peninsula and to extend it to west Rajputana, Gujarat, Sind, Baluchistan and the Punjab. The drought in Gujarat and northwest India which had continued till the third week of August was finally broken by this cyclonic storm. During the second half of August, therefore, moderate to large excess of rainfall fell over these regions and this excess made up to a large extent the deficiencies of the previous monsoon months.

The total rainfall of the month was in large excess in west Rajputana, Gujarat, the Konkan, Hyderabad, Mysore, Malabar and the Madras Deccan, in slight to moderate excess in east Rajputana, Central India, Berar, the Central Provinces, the Bombay Deccan and the north Madras coast and normal in West Bengal and Orissa. It was in slight to moderate defect elsewhere. Averaged over the plains of India, the month's rainfall was 22 per cent in excess.

Maximum temperature was above normal in the Bay Islands, the east Punjab, west Rajputana and Gujarat and below normal in the Madras Deccan. Minimum temperature was generally normal.

Relative humidity was in excess in south Hyderabad and the Madras Deccan and normal elsewhere.

Cloud amount was normal except in south Hyderabad where it was in excess.

Data from Kashmir are absent.

Table I contains the divisional and sub-divisional means of rainfall, temperature and humidity and cloud amount 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.

N.B.—The Indian Standard Time used in this publication is 5 hours and 30 mins. in advance of G. M. T.

POONA 5 :
The 20th November 1947.

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

245—246

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—AUGUST 1947.

—	RAINFALL.				DEPARTURE FROM NORMAL OF				
							8 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.	"	"	"		°	°	mbs.	%	
1. Assam ..	10·77	12·98	—2·21	—17	+0·9	+0·6	+0·3	—2	—0·3
2. West Bengal	12·70	13·44	—0·74	—6	+0·3	+0·2	+0·3	0	+0·4
3. Orissa ..	13·06	12·88	+0·18	+1	+0·6	+0·5	+0·9	+2	+0·8
4. Bihar ..	10·28	12·91	—2·63	—20	+1·0	+0·3	+0·6	—1	—0·1
5. United Provinces.	9·84	12·13	—2·29	—19	+1·0	+0·5	+1·3	+1	+0·6
6. East Punjab	4·86	7·26	—2·40	—33	+2·1	+1·0	+1·6	—4	+0·3
7. Rajputana ..	9·14	6·19	+2·95	+48	+1·8	+1·3	+1·4	+1	—0·2
Sub-division.									
1. Bay Islands ..	11·57	16·29	—4·72	—29	+2·2	+1·1	+1·3	—2	0
2. Assam ..	10·77	12·98	—2·21	—17	+0·9	+0·6	+0·3	—2	—0·3
3. West Bengal	12·70	13·44	—0·74	—6	+0·3	+0·2	+0·3	0	+0·4
4. Orissa ..	13·06	12·88	+0·18	+1	+0·6	+0·5	+0·9	+2	+0·8
5. Chota Nagpur	9·14	13·75	—4·61	—34	+0·6	0	+0·7	0	+0·5
6. Bihar ..	10·78	12·54	—1·76	—14	+1·3	+0·5	+0·6	—2	—0·6
7. United Provinces, East.	9·44	12·12	—2·68	—22	+0·7	+0·5	+1·0	+1	+0·9
8. Do. do. West	10·23	12·13	—1·90	—16	+1·3	+0·4	+1·7	+2	+0·3
9. East Punjab	4·86	7·26	—2·40	—33	+2·1	+1·0	+1·6	—4	+0·3
10. Kashmir ..	Data incomplete								
11 Rajputana, West.	5·77	3·79	+1·98	+52	+2·9	+1·9	+1·5	—1	—0·9
12. Do. East ..	12·50	8·60	+3·90	+45	+0·9	+0·9	+1·3	+2	+0·6
13. Gujarat ..	8·64	5·49	+3·15	+57	+2·1	+1·5	+1·2	+1	—0·2
14. Central India, West.	14·76	10·92	+3·84	+35	+1·9	+1·0	+1·5	+2	+0·7

—	RAINFALL.				DEPARTURE FROM NORMAL OF				
							8 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.	"	"	"		°	°	mbs.	%	
8. Bombay ..	13·72	9·09	+4·63	+51	+1·9	+1·13	+1·6	+2	+0·1
9. Central India	15·60	11·87	+3·73	+31	+1·9	+0·7	+1·5	+2	+0·4
10. Central Provinces and Berar.	17·31	12·17	+5·14	+42	+1·3	+1·0	+1·9	+3	+0·5
11. Hyderabad ..	11·08	6·17	+4·91	+80	+0·5	+1·2	+2·1	+5	+1·2
12. Mysore ..	11·92	7·79	+4·13	+53	+0·2	+1·3	+1·4	+4	+0·6
13. Madras ..	8·53	5·90	+2·63	+45	—1·4	+0·4	+1·4	+4	+0·9
Mean of India	11·61	9·54	+2·07	+22	+1·0	+0·9	+1·4	+2	+0·4
Sub-division—contd.									
15. Central India, East.	16·72	13·14	+3·58	+27	+1·9	+0·2	+1·5	+2	0
16. Berar ..	9·27	6·41	+2·86	+45	+1·7	+1·5	+1·7	+1	+0·2
17. Central Provinces, West.	17·70	12·85	+4·85	+38	+1·4	+0·9	+2·1	+4	+0·8
18. Central Provinces, East.	20·05	13·65	+6·40	+47	+1·0	+0·9	+1·8	+3	+0·2
19. Konkan ..	28·12	18·15	+9·97	+55	+1·1	+0·6	+1·7	+3	+0·3
20. Bombay Deccan	13·05	9·06	+3·99	+44	+1·9	+1·4	+1·9	+4	+0·3
21. Hyderabad, North.	11·79	6·63	+5·16	+78	+1·1	+2·0	+1·9	+2	+0·9
22. Do. South ..	10·14	5·55	+4·59	+83	—0·1	+0·4	+2·3	+7	+1·4
23. Mysore ..	11·92	7·79	+4·13	+53	+0·2	+1·3	+1·4	+4	+0·6
24. Malabar ..	27·97	14·83	+3·14	+89	—0·2	+0·2	+0·8	+3	+0·8
25. Madras, South-east.	2·77	3·51	—0·74	—21	—1·3	+0·7	+1·1	+2	+1·0
26. Do. Deccan	6·36	3·61	+2·75	+76	—2·1	—0·4	+2·9	+9	+1·0
27. Do. Coast, North.	6·23	5·36	+0·87	+16	—1·9	+0·4	+1·6	+3	+0·7

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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 ..	261	998·9	—0·5	996·6	85·6	+2·2	88	6,9	75·8	+1·1	73	27	81·6	80·6	78·1	77·3	31·3	+1·3	30·4	85	—2	84
Assam																						
Dibrugarh* ..	348	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sibsagar	317	994·7	+1·5	990·0	89·3	+0·5	96	18,29	77·6	—0·1	72	21	81·5	86·9	78·8	80·2	32·5	0	32·2	89	0	74
Tezpur	259	996·6	+1·3	992·5	90·8	+1·4	96	28,29	78·3	+0·6	76	19,20,26	82·6	87·5	79·2	80·6	32·5	+0·2	32·7	87	—3	73
Gauhati	182	998·6	+1·6	994·3	90·0	—0·3	94	29	78·1	+0·1	75	4, 20	83·1	87·4	79·4	80·6	32·7	+0·4	32·4	85	—1	74
Dhubri	115	1000·7	+1·4	997·4	87·0	+0·7	92	19, 31	78·4	—0·1	76	4 days	81·0	85·0	79·1	80·5	33·1	+0·7	33·5	92	+4	82
Silchar	96	1002·5	+1·4	998·2	89·5	0	97	17	77·4	+0·5	75	4,6,19	80·7	85·7	78·4	80·5	32·1	0	33·3	90	+1	79
West Bengal																						
Dum Dum ..	33	1001·8	..	998·8	89·8	..	98	8	78·8	..	74	12	82·7	84·8	79·5	80·1	33·1	..	33·0	86	..	81
Calcutta	21	1002·1	+1·0	999·0	89·5	+0·5	95	16	79·5	+1·2	75	12	82·4	85·0	80·3	80·7	33·9	+0·9	33·9	71	+3	83
Saugor Island ..	10	1002·2	+1·0	999·6	86·1	—0·8	90	16	80·0	+0·4	76	17	83·3	84·4	80·1	80·4	33·7	+0·6	32·9	86	—1	83
Sandheads (*R*) ..	28	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Midnapore ..	149	997·6	+1·1	994·6	90·2	+1·0	97	16	78·6	+0·2	76	4	82·1	83·7	79·5	80·1	33·3	+1·1	33·5	88	+2	81
Burdwan	106	999·3	+1·2	996·0	89·5	+0·3	95	8,15,16	78·9	0	74	13	82·6	85·1	79·5	80·0	33·1	+0·4	32·7	87	0	80
Krishnagar ..	48	1001·5	+0·9	998·4	90·0	+0·5	95	15,16,17	78·1	—0·3	75	13	82·5	84·8	80·2	80·7	33·9	+0·8	34·0	90	+3	84
Asansol	414	988·7	+1·6	985 5	88·5	+0·3	98	16	77·9	+0·4	74	5	81·5	83·6	78·8	79·4	32·5	+0·1	32·5	89	+1	83
Berhampore ..	62	1001·3	+1·5	997·9	90·7	+1·6	97	16	78·7	—0·1	76	5,24,25	83·4	85·3	79·8	80·5	33·1	—0·2	33·5	85	—3	80
Malda	103	1000·0	+1·2	996·7	98·5	+0·4	97	17, 18	79·4	+0·3	73	4	83·2	86·1	79·8	80·5	33·1	—0·3	33·1	86	0	78
Jalpaiguri ..	271	995·3	+1·6	991·7	88·4	—0·4	94	16	77·2	—0·1	75	21	81·1	85·8	78·0	79·9	31·4	—1·0	32·1	87	—3	77
Orissa																						
Balasore ..	65	1000·2	+0·9	997.2	88 3	0	94	16	79·0	+0·6	76	1, 9	82·8	84·7	79·7	80·1	33·3	+1·1	33·0	87	+1	82
Chandbali ..	20	1002·0	+0·7	999·1	89·5	+1·2	95	14,16	79·1	+0·7	76	1	82·8	85·7	79·7	80·3	33·3	+0·8	32·8	86	0	78
Puri	20	1002·2	+0·8	999·2	88·2	+0·6	91	15,16	80·3	+0·7	76	28	83·3	84·9	79·9	80·6	33·3	+0·7	33·8	85	0	82
Gopalpur	56	1001·2	+0·8	997·9	87·6	—0·2	90	4,19,26	79·2	+0·4	75	1, 7	82·8	84·2	79·6	80·3	33·1	+1·1	32·8	87	+3	83
Cuttack	87	999·5	+0·3	996·4	89·1	+0·1	96	16	..	..	..	..	82·0	84·2	78·9	79·3	32·4	+1·3	31·9	86	+2	80
Angul	455	987·4	+1·1	984·3	88·5	+0·9	96	16	77·4	+0·5	75	4 days	81·0	83·3	77·4	78·7	30·5	+0·5	32·6	85	+1	81
Sambalpur ..	486	986·0	+0·6	983·1	87·6	+0·9	95	16	76·9	0	74	1	79·6	84·2	77·6	79·3	31·4	+1·3	31·9	92	+4	88

* Date rejected.

(*R*)—Register not received.

Cloud amount, tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T								
8 hrs. I. S. T.	Departure from normal	Mean 17 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
3	0	8·7	11·57	—4·72	3·12	18	18	—2·9	8·3	—5·1	0	0	0	2	3	15	10	0	1	0	1	0	0	1	12	13	1	3	Port Blair.
																													Assam
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Dibrugarh.*
9	+0·1	6·4	19·46	+3·13	4·06	12	19	+0·9	2·8	+0·8	2	4	4	0	5	5	1	2	8	2	4	2	1	5	3	2	4	8	Sibsagar.
6	2·3	4·3	3·57	—9·45	1·43	26	6	—9·9	1·1	—0·3	0	2	11	5	0	1	0	0	12	0	0	9	2	1	0	0	0	19	Tezpur.
8	+0·2	6·7	9·90	—0·36	2·37	20	8	—5·1	2·6	+1·3	3	7	5	3	4	3	1	1	4	3	10	3	0	4	5	4	2	0	Gauhati.
2	0	7·5	9·59	—3·70	1·72	4	15	+0·4	3·9	+0·4	1	3	11	3	6	2	3	0	2	0	5	3	3	4	1	4	2	0	Dhubri.
0	+1·0	8·2	25·28	+5·02	3·94	29	22	—0·2	1·5	0	3	14	5	3	1	2	1	0	2	2	1	2	2	2	2	11	7	2	Silchar.
																													West Bengal
8	..	8·0	8·03	..	1·21	10	20	...	..	..	2	2	8	4	5	4	2	1	3	0	0	4	8	9	3	1	1	5	Dum Dum.
5	+0·1	8·7	15·34	+2·42	4·09	12	20	+2·0	3·0	—0·4	1	0	8	5	1	9	2	0	5	0	0	4	7	7	5	1	0	7	Calcutta.
7	—0·8	6·9	11·82	+1·54	2·34	17	18	+1·7	12·7	+2·1	0	2	5	4	2	15	3	0	0	1	0	1	10	6	11	1	0	1	Sangor Island.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Sandheads. (E)
1	+2·0	9·3	9·68	—3·07	1·77	4	17	+0·2	3·2	+1·0	4	4	4	5	2	9	2	1	0	2	2	5	8	8	4	0	0	2	Midnapore.
5	—0·7	7·9	9·39	—2·53	1·40	21	19	+2·8	4·9	+2·6	1	3	10	2	3	6	3	0	3	1	2	11	3	4	5	1	1	3	Burdwan.
5	+0·7	8·8	9·88	—0·50	1·43	21	17	+1·7	2·9	—0·6	0	2	5	7	12	3	1	1	5	0	0	5	8	5	1	0	0	12	Krishnagar.
4	+0·2	8·8	16·87	+3 59	4·38	13	23	+6·0	4·5	—0·2	0	2	10	9	1	3	1	1	4	2	0	7	10	1	1	3	1	6	Asansol
2	—0·1	7·5	14·46	+3·05	2·86	1	15	—1·3	2·8	—0·2	0	0	13	2	10	0	0	0	6	0	0	10	1	14	0	0	0	6	Berhampore.
7	+0·7	7·1	12·38	+1·36	2·30	3	15	+0·4	4·9 (c)	+0·2	0	3	10	4	9	2	0	0	1	0	1	8	4	7	2	0	0	7	Malda.
8	+1·8	7·8	12·65	—12·62	2·82	4	17	—3·4	3·5	+1·8	3	11	12	2	0	0	0	3	0	2	6	6	6	5	0	2	1	3	Jalpaiguri.
																													Orissa
7	+2·4	9·0	14·85	+3·09	1·93	10	13	+1·2	4·3	+0·7	1	4	1	0	5	11	0	0	9	0	2	1	8	9	6	1	0	4	Balasore.
8	+0·2	7·7	5·69	—8·98	1·01	27	14	—1·8	4·9	—1·7	3	0	4	1	6	8	8	0	1	2	1	4	6	9	5	3	1	0	Chandbali.
3	+1·3	7·9	11·56	+0·64	2·98	28	14	+1·1	10·9	+1·0	2	4	1	1	0	15	4	2	2	2	1	1	4	4	16	2	1	0	Puri.
6	+2·4	8·5	6·19	—1·51	2·52	1	10	—0·8	10·3	+2·6	3	0	0	0	7	11	2	3	5	1	1	2	1	12	10	2	2	0	Gopalpur.
5	0	8·4	20·69	+7·29	4·94	28	18	+2·2	3·2	+1·0	1	3	1	1	1	2	5	4	13	1	1	1	1	3	3	4	1	16	Cuttack.
8	+0·3	8·5	15·22	+3·66	4·81	28	17	+1·9	6·1	+1·2	2	2	2	3	1	0	5	4	12	0	1	1	4	4	3	6	4	8	Angul.
1	+0·8	9·2	19·02	—0·02	3·75	25	20	+1·1	4·4	+0·8	2	2	3	2	9	5	0	0	8	0	1	2	0	12	6	2	0	8	Sambalpur.

(b) Mean of 29 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.			Relative humidity, %		
		Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
Chota Nagpur—																						
Jamshedpur ..	423	988·1	+1·0	984·8	89·1	+0·2	96	16	78·2	+0·2	76	6 days	81·8	83·9	78·2	79·1	31·4	+0·7	31·7	85	0	80
Chaibasa	742	977·2	+1·3	973·9	89·3	+1·0	79	7	76·8	—0·1	74	1,2	79·8	84·0	77·4	79·1	31·0	+1·0	31·7	89	+3	80
Ranchi	2,150	930·8	+1·3	928·1	83·8	+0·5	89	16, 17	72·5	—0·3	70	4 days	76·4	79·1	74·1	75·4	27·4	+0·5	28·3	90	+2	84
Hazaribagh ..	2,006	935·8	+1·2	933·0	85·0	+1·0	90	15,16	73·6	+0·3	71	5	77·5	79·8	75·0	75·8	28·4	+1·6	23·4	89	+2	84
Daltonganj ..	725	977·9	+1·4	974·4	89·4	+0·7	94	16	77·1	+0·2	72	1	82·0	85·3	77·7	79·3	30·4	+0·4	31·5	82	—4	76
Dhanbad	839	973·9	..	..	85·6	..	93	17	75·6	..	72	4,5	80·9	..	78·2	..	31·8	..	..	88	..	..
Bihar																						
Purnea	124	999·5	+1·6	996·0	90·4	+1·3	96	17	79·1	+0·6	76	4	84·6	86·0	80·5	80·7	33·7	+0·4	33·3	83	—6	79
Darbhanga ..	161	997·9	+1·7	994·3	91·4	+2·3	95	17,28	79·9	+0·8	77	1,4,17	84·9	89·2	80·8	82·4	34·1	+1·7	34·6	82	—3	74
Motihari ..	218	995·8	+1 3	992·1	..	..	..	..	78·8	+0·5	76	12	84·6	86·9	80·6	81·5	33·8	+1·3	34·2	83	—2	79
Patna	173	996·8	+1·4	993·3	90·6	+1 5	95	17,24	80·1	+0·4	75	2	83·7	87·9	79·9	81·0	33·1	—0·1	32·9	85	0	73
Dehri	352	990·3	..	986·7	89·9	..	95	17	78·8	..	74	10	82·6	86·8	79·3	80·4	32·6	..	32·5	86	..	73
Gaya	365	989·7	+1·1	986·4	90·9	+1·0	95	16,19	78·9	+0·7	74	1	83·4	88·0	79·3	80·4	32·4	+1·4	32·0	83	+3	71
Naya Dumka ..	489	985·9	+0·9	982·9	88·6	+0·1	96	16	77·5	—0·1	75	1,4,5	81·3	84·1	78·7	79·7	32·4	+0·6	32·6	88	+2	82
Sabour	122	993·9	+1·3	995·5	90·2	+1·2	95	16,17	79·8	+0·6	76	4,5	84·3	86·1	80·6	81·7	34·0	+0·5	34·9	85	—3	82
U. P. East—																						
Gonda	360	990·7	..	977·0	89·3	—0·5	94	9	78·3	—0·2	67	27	82·0	87·2	79·2	81·2	32·8	+0·5	33·6	88	+1	76
Gorakhpur ..	254	993·9	+1·2	990·3	90·0	+0·4	94	24,23	78·6	—0·1	74	20,21	82·4	87·7	79·2	81·1	22·7	+0·1	33·4	86	—2	73
Banaras	250	993·8	+1·5	990·1	91·3	+1·7	95	16,17	79·1	+0·6	75	1,2	82·6	88·2	80·1	82·8	34·0	+1·7	35·9	89	+2	77
Allahabad (Bamrauli)	322	991·0	+1·2	988·1	90·8	+1·4	96	9	78·8	+0·3	75	4	82·5	87·0	79·6	81·0	34·6	+2·2	33·4	87	0	78
Fatehpur	375	989·4	..	985·2	91·1	+1·4	96	9	80·4	+1·9	75	5	82·0	87·1	79·4	81·7	33·2	+0·6	34·2	88	0	79
Kanpur. ..	413	988·2	+1·6	985·0	90·8	+1·1	95	4 days	79·0	+0·3	75	5, 6	81·7	87·0	79·4	81·2	33·3	+1·2	33·6	90	0	78
Lucknow	371	939·6	+1·5	986·3	90·5	0	96	9	79·3	+0·7	75	5	82·1	83·1	79·5	81·8	33·2	+1·0	34·2	89	+3	74
Bahraich	407	939·0	+1·9	986·0	89·8	—0·3	94	9	79·3	+0·9	75	1, 9	82·2	81·9	79·3	81·2	32·8	+1·0	33·7	87	+2	74
U. P. West																						
Jhansi	824	973·9	+0·5	971·4	88·9	—0·4	95	9	76·8	—0·4	73	5,6	79·7	85·1	77·5	79·9	31·3	+2·0	32·5	90	+7	80
Agra	553	983·4	+1·5	980·2	91·5	+0·1	93	9	79·5	+0·6	77	5 days	82·5	87·3	79·0	80·6	32·3	+2·8	32·6	86	+6	75
Mainpuri	516	984·3	+1·2	981·5	93·5	+1·7	99	7,9	79·6	+1·1	70	18,28	82·4	88·8	79·8	81·7	33·6	+2·2	33·7	89	+5	74
Aligarh	615	981·1	..	978·2	93·0	+1·5	101	9	79·3	+1·0	76	25	82·6	88·5	79·3	80·0	32·7	+2·2	31·1	86	+5	71
Bareilly	568	983·3	+1·6	979·9	91·4	+1·2	93	8,9	78·4	+0·2	74	18	82·8	87·6	79·3	80·8	32·6	+0·9	32·8	85	—2	74
Roorkee	899	971·9	+1·3	968·5	92·5	+2·8	101	9	77·2	+0·1	72	23	82·2	89·6	77·6	80·2	30·4	+0·4	30·9	80	—5	66
Dehra Dun ..	2,239	928·5	+1·6	925·8	86·7	+2·5	91	5,9	73·2	+0·3	69	23	73·0	83·4	74·9	77·6	23·3	+1·2	29·8	85	—3	77
East Punjab																						
New Delhi ..	714	977·2	+0·5	973·9	93·0	+2·0	102	1	0·2	+1·8	76	17	84·4	90·9	78·1	79·1	30·0	+0·2	23·7	75	—5	60
Hissar (*b*) ..	725	977.0	..	973·9	93·0	..	106	1,2	80·6	..	73	13	84·4	94·4	73·9	85·8	30·2	..	37·1	81	..	73
Ambala ..	892	983·2	—2·2	983·8	96·1	—2·9	105	1,4	7·.8	—0·2	72	25	82·3	87·9	79.2	81·7	32·4	+2·0	34·2	77	—5	66
Ludhiana	812	974·6	+1·7	971·3	96·5	+1·4	103	1	80·7	+1·5	73	24,25	84·1	92·1	79·4	80·4	32·2	+2·5	30·1	79	—2	67
Kashmir																						
Srinagar (*R*) ..																						
Gulmarg (*R*) ..	8,709																					
Dras (*R*)	10,059																					
Leh (*R*)	11,529																					
Skardu (*R*) ..	7,705																					
Gilgit (*R*) ..	4,890																					
Misgar (*R*) ..	10,100																					

(*R*) Register not received. (*b*) Observations for 29 days.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION.
											8 hrs I. S. T.									17 hrs. I. S. T.								
8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													Chota Nagpur—
5	−0·1	9·0	9·22	−6·19	2·36	5	16	−2·0	4·5	+0·5	1	5	8	3	0	5	5	2	2	0	2	9	4	3	2	3	1	7	Jamshedpur.
2	+1·2	9·5	7·02	−5·22	1·07	1	18	+1·4	2·0	−0·1	1	8	0	1	1	11	0	0	9	1	10	1	2	3	4	3	0	7	Chaibasa.
0	−0·4	8·7	11·83	−2·01	1·77	5	17	−1·6	..	..	0	1	6	0	7	0	0	0	17	1	2	9	0	7	1	1	0	10	Ranchi.
7	−0·3	8·7	11·24	−1·97	2·02	25	19	+1·4	5·4	−0·5	1	0	8	5	3	3	3	6	2	0	1	6	7	3	2	2	5	5	Hazaribagh.
7	+1·4	8·3	8·50	−5·01	1·93	5	14	−2·4	3·3	0	0	1	14	1	2	1	5	0	7	1	4	8	0	2	0	5	1	10	Daltonganj.
.	..	..	9·95	..	2·02	2	19	..	6·2	..	0	5	10	3	2	3	3	3	2	..	..	..	..	..	..	..	..	..	Dhanbad.
																													Bihar
2	−0·1	9·9	13·27	+0·12	3·57	13	14	−2·2	2·9	+0·6	0	6	16	6	1	1	1	0	0	0	3	10	9	2	1	2	0	4	Purnea.
0	−0·7	5·5	6·60	−6·91	1·61	17	12	−1·8	4·2	+1·0	0	10	11	4	2	1	0	2	1	0	3	5	11	1	2	3	4	2	Darbhanga.
0	+0·6	5·7	13·70	+0·73	3·07	12	17	+3·8	3·1	−0·7	0	0	20	1	1	0	2	0	7	0	0	13	0	0	0	3	0	15	Motihari.
2	−0·4	7·7	16·40	+3·31	3·48	2	12	−1·9	4·6	+0·7	0	4	13	4	1	2	1	3	3	1	7	11	2	1	0	3	0	6	Patna.
5	..	7·4	11·88	−1·34	5·11	10	14	−0·6	3·1	..	0	1	8	6	3	6	3	2	2	0	7	3	5	1	5	1	3	6	Dehri.
7	+1·2	8·7	9·24	−4·51	4·44	1	11	−4·7	6·1	+0·8	0	4	10	1	5	4	3	0	4	0	5	8	3	3	4	2	2	4	Gaya.
2	−2·1	5·3	11·89	−1·05	4·87	1	18	+0·4	3·2	+1·1	0	7	8	2	1	1	0	1	11	1	4	5	8	1	3	1	0	8	Naya Dumka.
5	+0·2	7·8	7·47	−3·04	1·27	13	9	−6·0	5·2	−0·4	0	1	11	11	3	2	0	2	1	2	4	11	9	0	1	2	1	1	Sabour.
																													U. P. East
0	+0·3	7·2	11·63	−4·02	2·13	22	17	+3·5	3·3	−0·3	0	0	24	0	1	0	0	0	6	1	0	18	3	0	2	3	1	3	Gonda.
4	+1·4	8·7	13·35	−0·40	3·30	9	13	−1·9	2·9	+0·9	1	7	9	6	0	2	2	0	4	0	5	3	9	2	2	3	2	5	Gorakhpur.
9	−0·2	7·0	8·37	−3·64	2·24	23	12	−2·9	5·6	+2·4	0	2	13	1	2	8	4	0	1	0	4	6	2	2	6	6	3	2	Banaras.
7	+0·2	8·6	9·20	−0·83	1·77	27	16	+1·3	4·2	−0·1	0	4	7	4	3	3	3	1	6	1	3	9	1	4	3	5	3	2	Allahabad (Bamrauli).
8	+0·3	6·5	6·24	−2·79	2·15	5	7	−1·4	2·2	−1·0	0	2	10	2	0	2	5	2	8	0	1	5	0	0	3	2	1	19	Fatehpur.
0	+2·2	7·1	12·43	+1·23	6·08	5	11	−2·3	6·3	−0·1	0	4	9	8	1	5	2	1	1	1	6	9	3	2	5	3	0	2	Kanpur.
4	+1·0	7·4	8·26	−3·24	1·77	9	12	−1·7	2·4	−0·7	0	0	16	3	2	0	3	1	6	0	1	12	0	3	0	1	0	14	Lucknow.
9	+2·3	7·2	6·06	−6·73	1·28	9	12	−0·5	4·6	+2·4	0	3	12	10	0	0	0	0	6	1	1	12	9	0	4	1	0	3	Bahraich.
																													U. P. West
0	+0·7	8·7	12·63	+1·04	2·53	5	18	+4·7	1·0	−2·5	0	1	1	0	0	2	5	4	18	1	1	1	1	1	2	7	6	11	Jhansi.
3	+0·3	6·8	11·69	+3·58	3·50	2	15	+4·7	2·5	−1·2	0	1	8	1	1	3	3	0	14	2	2	9	2	2	2	5	0	7	Agra.
1	+0·2	6·4	3·40	−5·65	0·71	18	10	−0·5	2·9	+1·0	1	3	8	7	3	2	3	4	0	1	4	7	4	5	3	2	3	2	Mainpuri.
7	+0·9	7·4	5·43	−2·50	1·07	29	12	+2·6	5·0	+0·9	1	0	19	1	1	0	6	0	3	0	2	11	4	2	2	5	1	4	Aligarh.
6	+0·2	3·0	12·90	+1·30	5·42	25	14	+1·7	2·9	+1·1	1	2	13	7	1	1	2	1	3	2	5	5	7	2	1	0	2	7	Bareilly.
5	+0·9	6·4	10·50	−0·72	5·23	23	8	−3·8	3·0	+1·0	0	0	0	20	0	0	0	1	10	1	1	2	16	1	2	1	5	2	Roorkee.
1	−1·0	7·5	23·23	−5·56	4·24	23	16	−5·3	1·5	+0·1	2	1	1	2	1	2	3	2	17	5	2	0	3	5	5	6	3	2	Dehra Dun.
																													East Punjab
3	..	8·3	1·45	−5·78	0·43	10	11	+2·0	4·7	..	0	5	10	5	2	2	4	2	1	0	6	7	4	1	3	4	1	5	New Delhi.
5	..	4·1	6·60	..	2·57	24	7	..	5·0	..	0	4	1	11	2	7	4	0	0	3	5	4	7	5	4	1	0	0	Hissar (*b*).
1	−0·8	4·8	7·11	−0·78	2·45	25	9	0		..	0	0	0	21	0	0	0	3	7	0	1	0	12	0	2	0	10	6	Ambala.
1	+1·5	4·2	6·01	−0·04	2·34	24	7	−0·3	2·4	+0·9	0	5	2	6	3	5	0	2	1	0	6	2	7	1	4	1	2	0	Ludhiana.
																													Kashmir
																													Srinagar (*R*).
																													Gulmarg (R)
																													Dras (*R*).
																													Leh (*R*).
																													Skardu (*R*).
																													Gilgit (*R*).
																													Minagar (*R*).

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Rajputana West																						
Sri Ganganagar	580	981·3	..	978·4	100·6	+0·7	107	19	31·9	+1·5	73	29	86·1	94·6	78·5	79·0	29·8	+1·9	26·7	69	+3	
Bikaner	734	976·1	+0·7	973·7	99·6	..	103	17	81·1	..	75	24,25	84·7	95·8	76·9	80·4	28 3	..	23·4	69	..	
Phalodi	800	974·6	..	972·7	95·9	..	107	18	80·9	..	78	7	79·0	94·5	78·1	85·2	32·5	..	37·2	83	..	
Jodhpur	736	976·9	+1·8	974·3	95·5	+3·7	103	17,18	79·4	+2·4	75	24,26	82·1	91·9	76·5	77·7	28·7	+1·2	26·1	77	—5	
Barmer	638	979·9	+0·6	976·4	96·8	+4·3	104	15	78·7	+1·8	75	21,23	81·1	94·6	76·5	79·2	29·1	+1·5	27·1	81	—1	
Rajputana East																						
Sikar	1,406	954·4	..	951·5	94·1	..	103	10,18	77·8	..	74	14	80 8	89·1	76·0	78·0	28·5	..	27·7	80	..	
Jaipur	1,431	954·5	+0·8	951·1	89·7	—1·2	98	10	76·3	+0·4	74	4 days	79·7	85·8	76·0	77·5	29·0	+1·6	28·4	84	+3	
Ajmer	1,593	949·1	+0·7	945·8	89·9	+2·2	99	10	77·2	+1·2	74	12 25	80·5	86·7	75·5	74·1	27·9	+1·5	23·1	79	+1	
Kotah	843	974·2	+1·1	970·6	90·4	+0·8	100	10	78·2	+0·5	66	29	80·9	87·2	76·9	78·6	29·8	+2·1	27·4	83	+5	
Brijnagar ..	1,053	966·6	+0·4	963·4	88·9	+1·8	96	10	76·6	+1·6	74	:0	78·9	85·8	75·8	77·8	28·5	+0·2	28·9	86	—1	
Udaipur	1,910	938·8	..	936·7	88·0	..	94	18	75·0	.	71	20	77·2	82·0	73·6	75·0	26·7	..	26·5	84	..	
Gujarat																						
Deesa*	466	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Bhuj	343	990·7	0	988·1	90·7	+2·3	97	16	77·9	+ ·5	73	31	79·9	88·3	76·5	77·5	29·6	+1·0	26·7	85	+3	
Dwarka	37	1001·4	—0·8	999·7	85·5	+0·8	89	16	79·2	+0·6	74	31	80·9	83·2	77·7	78·3	31·0	+1·2	30·9	86	—3	
Jamnagar ..	60	1001·6	+0·5	..	89·5	+1·4	94	1	78·2	+1·5	73	31	81·9	..	77·1	..	29·7	+0·3	..	80	—4	
Rajkot	432	988·0	—0·6	985·4	91·4	+2·6	100	16	76·4	+1·6	72	31	78·8	87·2	76·4	76·8	28·9	+0·9	26·7	90	+4	
Veraval	26	1002·6	—1·2	1000·6	84·8	..	89	13,17	78·3	..	73	27	80·5	82·7	79·0	80·2	33·2	..	34·2	93	+4	
Surat	39	1002·4	—0·9	1000·4	88·2	+1·7	95	17	79·0	+2·0	74	18	81·0	85·4	78·1	80·1	31·6	+1·8	32·7	87	+2	
Bhavnagar ..	55	1001·8	—0·4	998·3	92·2	+1·3	98	14,15,17	77·9	+1·3	75	:1	80·1	87·6	76·3	78·3	29·2	+1·1	28·9	85	+5	
Ahmedabad ..	163	998·0	—0·1	994·6	92.3	+2·4	99	14	78·9	+2·1	75	31	80·7	89·7	77·1	79·4	30·2	+1·5	29·6	85	—1	
Dohad	1,093	966·7	..	964·5	89·2	+3·9	96	10	75·6	+1·3	74	7 days	77·2	85·8	75·3	77·4	28·9	+1·1	28·0	89	—3	
Baroda .. .	115	999·8	..	996·6	92·1	+2·5	99	14	78·3	+1·7	76	24	80·6	87·7	77·7	79·5	31·2	+2·0	30·9	87	+2	
Central India, West																						
Neemuch	1,626	948·4	+0·4	946·1	86·9	+1·9	97	10	74·4	+1·6	72	18	76·3	81.4	74·6	75·7	28·6	+2·4	28·0	92	+4	
Indore	1,823	942·2	—0·1	939·4	84·9	+2·3	91	9	72·9	+1·5	71	11	74·8	82·7	72·6	74·9	26·5	+1·3	26·4	90	0	
Bhopal	1,043	947·6	+0·1	945·0	85·9	+1·8	90	9, 14,16	73·6	+0·4	70	4	76·2	82·3	73·9	76·4	27·7	+1·5	28·6	90	+2	
Guna	1,571	949·6	+0·6	947·4	87·0	+1·7	93	21	74·5	+0·9	70	30	76·6	84·1	74·3	77·8	28·0	+0·6	30·0	90	+1	
Gwalior	681	978·7	..	975·7	90·1	..	96	9	79·2	..	75	13	81·9	85·6	78·2	79·7	31·4	..	32.0	85	..	
Madhosagar ..	757	976·1	..	973·2	90·4	..	97	9	78·4	..	75	6	81·1	85·4	77·9	79·3	31·2	..	31·4	87	..	
Central India, East																						
Nowgong	750	976·6	+0·8	973·5	89·9	+1·8	94	5 days	77·4	+0·5	73	6	80·5	86·6	77·9	80·0	31·4	+1·6	33·5	88	+2	
Satna	1,041	966·5	+0·8	963·5	88·0	+2·0	92	16,17,20	76·0	—0·2	71	2	80·1	84·3	77·7	78·6	31·4	+2·0	30·8	89	+2	
Umaria	1,506	951·9	..	948·7	86·8	+1·9	93	17	74·8	+0·4	71	6,7	78·1	82·6	75·3	77·3	28·8	+1·0	29·9	89	+2	
Berar																						
Akola	925	972·2	—0·6	968·4	89·7	+2·3	100	16	75·7	+2·0	73	29	78·3	87·7	74·7	76·3	27·8	+2·1	25·8	84	+1	
Amraoti	1,213	962·8	0	959·7	86·9	+1·0	95	16, 17,	74·2	+1·1	71	13	77·8	84·2	73·8	76·2	27·1	+1·4	27·2	88	+2	

* Data not reliable.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION
											8 hrs. I. S. T.									17 hrs. I. S. T.									
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													Rajputana, West
1·5	—0·6	2·2	7·03	+4·98	2·70	30	6	+2·7	6·7	+0·8	0	1	7	7	2	10	1	0	3	1	6	3	3	0	7	3	0	8	Sri Ganganagar.
1·8	—1·9	3·3	3·61	+0·01	1·10	25	6	+1·1	6·9	+0·6	0	3	1	6	0	20	0	1	0	0	4	6	8	0	16	0	2	1	Bikaner.
4·0	..	3·9	1·41	—1·76	0·59	28	4	+0·2	11·2	..	1	1	2	2	4	15	3	1	2	0	2	1	5	5	13	3	2	0	Phalodi.
6·8	—0·7	7·5	6·86	+2·02	2·40	24	5	—0·9	4·1	—5·0	0	2	0	2	2	14	4	1	6	0	2	1	4	2	13	3	0	6	Jodhpur.
6·2	—0·5	7·3	9·93	+4·66	5·56	28	7	+1·2	5·8	—0·6	0	0	0	3	5	12	6	0	5	1	0	2	3	6	13	4	1	1	Barmer.
																													Rajputana, East
6·5	..	7·8	10·70	..	3·53	25	10	..	3·9	..	1	1	6	4	2	7	5	1	4	1	0	11	2	1	5	5	4	2	Sikar.
7·2	+0·4	9·0	7·69	—0·37	1·66	30	14	+3·8	3·7	—0·8	4	1	4	4	1	1	6	4	6	2	2	6	2	0	2	6	4	7	Jaipur.
7·3	+1·0	8·4	7·53	+0·78	1·05	26	15	+6·6	5·6	+0·6	1	2	0	2	0	8	10	0	7	1	3	0	3	0	8	7	0	8	Ajmer.
8·3	+1·8	8·4	15.86	+6·20	3·63	22	14	+3·6	4·1	+0·7	3	2	1	0	0	6	8	2	9	3	5	1	0	1	4	7	5	5	Kotah.
6·9	—0·9	6·9	20·00	+8·49	6·71	27	16	+3·2	3·9	0	0	2	2	0	1	6	9	6	5	3	3	1	0	0	5	6	11	2	Brijnagar.
8·6	..	9·1	11·44	+4.43	3·81	15	14	+5·4	4·0	..	0	0	1	2	3	7	4	2	12	2	0	1	1	2	7	8	3	7	Udaipur.
																													Gujarat
..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Deesa *
7·5	+0·8	7·2	6·27	+0·09	2·35	28	10	—0·4	9·5	—1·5	0	0	0	0	0	13	14	3	1	0	0	0	0	0	12	14	5	0	Bhuj.
8·6	+0·1	7·8	8·25	+5·67	2 36	30	10	+6·2	15·4	+2·8	0	0	0	0	1	9	16	5	0	0	0	0	0	0	9	18	4	0	Dwarka.
7·6	+1·5	..	13·79	+9·94	5·82	30	11	+5·8	9·9	—3·1	0	0	0	0	0	12	18	0	1	..	..	..	..	..	..	..	..	..	Jamnagar.
3·1	—2·0	6·6	6·08	+0·98	1 75	20	11	+4·0	13·0	+2·8	0	0	0	0	3	16	9	3	0	1	0	0	0	2	8	14	6	0	Rajkot.
7·4	—1·0	6·2	24·12	+10.51	7 73	21	9	+3·1	15·8	..	2	0	0	0	0	6	14	9	0	0	0	0	0	1	5	19	6	0	Veraval.
9·0	+0·4	7·9	8·19	+0·74	2·69	18	12	—0·4	5·9	0	0	0	0	0	0	13	12	0	6	0	0	0	0	1	23	5	0	2	Surat.
8·0	+0·1	8·3	5·48	+0·15	1·33	20	9	+1·7	6·2	—0·1	0	0	0	0	3	11	16	1	0	1	0	1	2	7	10	7	3	0	Bhavnagar.
7·5	—0·3	8·1	9 37	+1·32	1·93	20	14	+3·0	3·2	—1·0	0	1	0	0	3	11	8	2	6	0	1	0	1	3	10	9	2	5	Ahmedabad.
8·4	—0·7	8·2	6·78	—0·19	2·30	24	10	—0·7	12·7	+4·8	0	0	0	0	1	14	14	1	1	2	0	0	0	0	14	11	4	0	Dohad.
7·6	—0·6	8·6	8·09	—0·93	2·41	22	13	+3·3	3·5	—1·4	0	0	0	0	2	12	6	2	9	1	1	1	0	2	11	10	3	2	Baroda.
																													Central India, West
9·1	+1·6	9·1	14·43	+4·28	3·01	27	17	+7·0	6·6	—1·3	0	1	1	0	0	11	14	2	2	0	8	0	0	0	11	11	0	1	Neemuch.
9·2	+0·2	8·5	14·57	+6·36	3·27	11	16	+4·7	4·8	+0·3	1	0	0	1	1	11	16	1	0	1	1	0	2	1	9	9	6	2	Indore.
9·3	+1·1	8·7	12·28	+1·34	1·77	23	16	+1·2	5·1	0	0	0	1	2	0	7	15	3	3	0	0	0	0	2	1	21	3	4	Bhopal.
7·2	—0·1	7·1	17·75	+2·30	2·67	4	18	+4·4	5·3	—0·6	1	0	0	0	2	8	6	0	14	1	0	0	0	0	4	10	3	13	Guna.
8·4	..	8·7	12·24	..	3·13	13	14	..	2·8	..	0	1	2	2	1	1	5	2	13	0	1	1	1	2	2	5	4	15	Gwalior.
8·7	..	9·3	14·13	..	3·11	19	17	..	6·5	..	4	5	3	0	2	9	6	0	2	1	4	5	3	4	3	7	2	2	Madhosagar.
																													Central India, East
7·3	—0·6	8·3	12·20	—0·89	3·15	5	15	+1·4	3·7	+1·2	1	5	2	1	2	13	2	1	4	0	8	1	1	4	12	1	2	2	Nowgong.
7·8	—0·2	8·2	11·99	—1·21	2·33	4	12	+3·1	3·2	+1·1	0	2	4	1	3	8	4	2	7	1	5	4	1	0	5	7	1	7	Sutna.
8·5	—0·3	8·7	25·98	+12·86	10·48	6	19	+3·0	2·8	—1·1	1	2	3	3	2	7	7	1	5	1	2	3	2	3	5	9	4	2	Umaria.
																													Berar
7·7	0	7·4	7·09	+1·77	2·47	29	11	+1·9	6·5	+0·1	0	1	0	0	0	3	21	3	3	1	2	0	0	3	1	11	13	0	Akola.
8·2	+0·4	8·5	11·46	+4·97	3·94	29	14	+4·2	7·5	+0·9	1	1	2	1	3	14	5	4	0	1	3	0	0	0	11	1	15	0	Amraoti.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
C. P., West																						
Khandwa	1,044	967·8	—0·5	964·6	87·9	+2·1	95	13	75·0	+1·0	73	4 days	77·5	84·5	74·8	76·7	28·2	+2·1	27·8	88	+2	71
Hoshangabad ..	992	969·2	—0·4	966·3	85·8	+1·3	92	16	74·8	+0·3	71	6	76·9	83·0	75·3	77·1	29·2	+1·4	29·1	93	+2	76
Saugor	1,808	941·7	+0·5	937·0	84·8	+1·4	89	17,20,21	73·5	+0·9	71	4 days	75·4	80·5	73·4	75·2	27·3	+1·2	27·7	90	+1	78
Jubbulpore ..	1,289	958·9	+0·6	956·0	86·7	+2·2	93	16	75·0	+1·4	72	5,7	78·2	82·4	76·0	77·5	29·6	+2·5	30·0	90	+3	80
Seoni	2,027	935·4	+0·8	932·6	84·0	+1·3	93	16	72·7	+1·2	68	2	75·2	79·5	73·4	74·9	27·4	+1·8	27·7	92	+5	81
Nagpur	1,022	968·9	+0·3	965·4	87·9	+0·6	96	16,17	75·4	+0·4	72	1	78·5	83·6	75·9	77·2	29·4	+3·3	29·0	89	+9	75
C. P., East																						
Gondia ..	1,026	968·5	..	965·6	86·1	..	94	17	76·0	..	72	27,31	78·4	80·9	76·2	76·9	29·8	..	28·8	91	..	84
Pendra ..	2,040	934·2	+0·8	931·5	83·5	+1·3	89	17	73·1	+1·2	71	5 days	75·6	78·7	74·2	75·3	28·3	+1·9	28·5	94	+6	86
Champa ..	805	975·5	..	972·3	88·2	..	95	16	76·7	..	74	5,7,8	79·1	83·3	76·9	78·2	30·6	..	30·6	90	..	79
Raipur	970	970·2	+0·8	967·1	86·5	+0·7	95	15	75·8	+1·0	70	24	78·8	83·6	77·1	78·3	31·0	+2·4	30·7	90	+1	79
Titilagarh ..	691	979·3	..	976·3	87·8	..	95	14,16	76·4	..	72	8	78·7	83·7	76·0	77·4	29·4	..	23·1	87	..	75
Kanker	1,318	959·3	+0·3	956·1	85·4	+1·0	93	16	74·3	+0·6	72	4 days	78·8	82·3	75·5	77·5	28·7	+1·6	30·0	85	0	81
Chanda	634	982·3	0	978·9	88·3	+1·0	94	16	75·9	+0·7	73	1	79·4	84·9	76·3	78·6	29·6	+2·0	30·5	87	+4	75
Jagdalpur ..	1,815	942·9	+0·4	939·8	83·7	+0·8	91	16	72·1	+0·8	69	3	75·9	80·2	73·9	75·1	27·8	+1·0	27·7	91	+3	79
Konkan																						
Dahanu*	15	1004·1	..	1002·2	87·0	..	89	9 days	78·0	..	75	20,30,31	80·1	84·1	79·0	81·7	33·5	..	35·8	96	..	90
Bombay	35	1003·9	—1·2	1001·8	86·3	+1·3	90	6 days	77·4	+1·3	74	21	80·3	83·1	77·6	78·6	31·1	+1·6	31·4	88	+2	81
Alibag	23	1005·2	—0·5	..	85·4	+1·5	89	4 days	76·9	—0·1	70	28	79·9	..	78·5	..	32·7	+2·6	..	94	+7	..
Harnai	66	1003·1	..	1001·1	85·0	..	90	7,16	77·0	..	72	1	79·3	81·8	76·9	78·0	30·5	..	31·0	89	..	83
Devgad	117	1001·9	..	1000·1	84·8	..	89	10	77·4	..	74	11	79·5	81·5	77·4	78·4	31·1	..	31·7	91	..	87
Marmagao ..	202	999·9	—1·4	997·5	82·7	+0·5	88	27	75·5	+0·5	73	19,21,23	78·7	80·4	76·6	77·1	30·3	+1·0	30·3	91	+8	86
Honavar	85	1005·0	..	1002·4	83·6	..	89	12	74·5	..	72	19	77·2	80·4	76·1	77·8	30·4	..	31·5	95	..	89
Bombay Deccan																						
Jalgaon	660	980·1	..	977·3	91·2	..	99	16	75·7	..	72	18	78·1	88·2	75·7	78·2	29·1	..	23·7	89	..	65
Malegaon	1,432	955·8	—0·5	952·5	89·1	+1·8	97	9,21	73·8	+1·9	72	4 days	77·5	85·0	73·6	74·6	25·9	+1·6	24·4	82	+3	61
Ahmednagar ..	2,154	932·5	—0·9	930·0	86·6	+1·3	94	9	70·4	+1·4	67	13,14	73·8	83·7	70·5	72·5	24·1	+1·4	23·2	85	+4	58
Poona	1,834	943·7	—0·5	941·1	85·0	+3·3	94	9	72·0	+1·5	69	15	74·4	80·1	71·7	73·7	25·4	+2·2	25·6	87	+3	74
Sholapur	1,570	952·8	—0·3	949·1	89·6	+0·8	97	16,17	72·6	+1·5	71	4 days	75·5	84·9	72·8	74·6	28·5	+3·4	25·1	83	+10	63
Miraj	1,817	944·7	—1·1	941·6	85·4	+3·3	93	2	71·0	+1.0	69	10,12,22	72·9	80·9	71·6	74·5	26·0	+2·0	26·4	94	+6	77
Bijapur	1,950	941·8	—0·8	938·3	86·6	—0·2	94	9	..	..	..	..	74·7	83·6	71·3	73·4	24·6	+1·8	23·9	84	+4	63
Belgaum	2,562	920·9	—1·0	918·7	78·7	+2·2	86	17	68·0	+1·3	64	2	70·2	74·2	69·3	71·2	23·8	+1·0	24·7	95	0	86
Gadag	2,131	935·3	—0·4	931·9	86·2	+2·5	94	16	70·9	+1·4	68	23	73·0	81·6	71·2	73·8	25·4	+2·2	25·4	90	+3	71
Hyderabad, North																						
Aurangabad ..	1,905	941·2	—0·4	938·0	86·9	+2·1	97	9	71·5	+1·9	69	9,14	74·0	82·1	71·7	74·1	25·6	+2·1	25·4	89	+3	71
Parbhani	1,350	957·6	..	953·8	90·0	..	98	16	73·5	..	71	17	76·8	86·2	73·1	75·8	26·1	..	25·7	84	..	63
Bidar	2,178	932·2	..	927·3	84·3	+0·3	91	14	71·3	+2·6	69	20,30	74·3	81·1	71·3	72·8	25·0	+1·3	24·4	87	0	69
Nizamabad ..	1,250	961·9	—0·7	958·4	87·7	+0·9	95	16,17	74·5	+1·5	72	28	76·8	85·9	73·8	76·8	27·1	+2·2	27·4	86	+4	66
Peddapalli (R) ..	755																					

* Mean of 30 days for 17 hours only. (R) Register not received.

d amount, hs of sky).		Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
										8 hrs. I. S. T.									17 hrs. I. S. T.									
Departure from normal.	Mean 17 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
																												C. P., West
+1·9	8·5	6·17	—0·08	1·29	10	14	+4·1	6·0	—0·8	0	0	0	1	2	12	12	4	0	3	1	1	0	2	4	11	8	1	Khandwa.
+0·4	8·6	16·53	+0·47	3·58	18	19	+3·3	3·1	+0·1	0	2	0	0	3	8	11	0	7	0	0	0	1	1	10	13	5	1	Hoshangabad.
+1·0	9·4	26·72	+12·65	5·68	22	16	+0·4	8·8	—3·3	0	1	1	1	0	8	14	5	1	1	2	2	2	0	9	12	3	0	Saugor.
+0·8	9·6	23·70	+6·73	3·25	26	22	+4·6	4·0	+0·9	2	0	0	4	6	2	7	1	9	0	3	0	3	0	8	6	3	8	Jubbulpore.
+0·8	8·4	16·24	+2·93	3·20	30	18	+1·5	3·2	—0·6	2	3	1	3	5	7	7	2	1	3	1	1	1	9	5	6	2	3	Seoni.
—0·2	8·5	16·75	+5·33	3·55	31	21	+7·7	3·4	—2·3	2	1	0	2	4	4	10	3	5	1	2	3	1	3	4	10	1	6	Nagpur.
																												C. P., East
..	8·6	28·43	..	5·83	29	19	..	3·4	..	4	2	1	2	2	9	7	4	0	1	2	0	2	2	11	10	3	0	Gondia.
+1·2	8·9	17·82	+3·50	3·60	18	22	+3·6	3·7	—0·1	4	4	1	4	10	3	1	3	1	3	0	2	4	9	2	5	4	2	endra.
..	8·2	16·69	..	2·92	4	21	..	4·5	..	2	1	5	1	0	7	6	1	8	2	1	3	1	3	4	9	5	3	Champa.
+0·7	8·1	31·31	+16·99	4·96	30	17	+1·5	4·5	—0·9	0	2	1	2	0	12	5	2	7	0	3	0	3	0	8	6	3	8	Raipur.
..	6·9	21·13	..	5·36	30	19	..	1·8	..	0	1	0	4	5	2	1	1	17	1	2	2	2	5	6	2	1	10	Titilagarh.
0	9·2	20·18	+7·94	6·78	30	16	+0·8	4·5	—0·5	0	0	0	0	0	10	4	1	16	0	2	0	0	0	11	8	0	10	Kanker.
—0·7	6·5	15·73	+3·3	4·12	24	15	+0·2	4·6	0	0	2	0	6	0	10	0	9	4	0	0	0	7	0	6	0	15	3	Chanda.
0	8·9	15·23	—1·05	3·21	31	17	—1·9	5·5	+1·9	0	2	0	1	0	13	3	3	9	0	4	0	0	0	13	4	5	5	Jagdalpur.
																												Konkan
..	8·6	25·31	..	7·01	18	18	..	13·0	..	0	1	8	5	1	5	9	2	0	2	0	0	0	0	7	17	4	0	Dahanu. *
+0·2	8·3	20·56	+7·17	3·17	21	16	—3·0	8·1	—1·8	3	3	2	0	0	5	12	2	4	6	0	0	0	0	2	12	11	0	Bombay.
+0·1	..	12·71	+6·27	2·76	23	19	—2·1	10·4	—4·3	0	0	3	1	0	10	7	1	9	..	..	..	..	..	..	..	..	..	Alibag.
..	..	33·19	..	6·93	20	16	..	9·9	..	1	3	3	1	0	7	12	4	0	1	0	0	0	0	8	15	7	0	Harnai.
..	7·3	19·24	..	4·87	20	17	..	12·9	..	1	6	2	1	1	0	9	11	0	1	0	0	0	0	0	12	18	0	Devgad.
+0·5	8·5	26·97	+9·86	5·51	19	23	+1·8	9·5	+1·3	4	3	5	0	3	3	8	5	0	1	0	0	0	0	4	16	10	0	Marmagao.
..	8·9	42·24	+16·60	5·09	19	25	—0·3	2·0	..	0	0	6	2	0	1	6	2	14	0	0	0	0	2	2	10	5	12	Honavar.
																												Bombay Deccan
..	5·6	9·41	+3·05	1·63	25	14	+2·7	6·6	..	0	0	0	0	3	5	16	5	2	4	3	0	1	0	3	10	10	0	Jalgaon.
+0·4	7·9	4·96	+1·92	1·47	21	10	+4·7	5·8	—2·8	1	0	0	1	0	18	4	7	0	1	1	1	0	0	8	10	8	2	Malegaon.
+1·5	7·7	7·34	+4·62	2·02	14	11	+6·4	4·9	—3·9	0	1	0	0	0	4	0	23	3	3	2	1	1	0	6	9	8	1	Ahmednagar.
+0·4	8·7	7·74	+3·59	2·30	15	14	+5·7	3·5	—5·4	0	0	0	0	0	0	12	0	19	1	0	0	0	0	0	24	3	3	Poona.
+2·2	9·0	11·51	+7·23	1·94	9	15	+8·0	6·7	—2·0	2	2	0	1	0	19	0	7	0	2	3	0	1	0	15	4	5	1	Sholapur.
—0·7	8·8	11·22	+6·51	2·74	12	15	+5·8	7·8	—1·4	1	0	0	1	0	7	14	4	4	2	0	3	2	0	2	15	5	2	Miraj.
—2·8	5·7	4·52	+2·12	1·02	12	8	+4·3	7·1	—1·7	5	0	0	1	1	9	12	3	0	2	0	2	3	2	4	11	6	1	Bijapur.
—0·7	8·5	11·25	+1·61	1·36	17	24	+6·4	4·7	—0·6	4	3	1	0	0	6	15	2	0	1	0	0	0	2	21	4	3	0	Belgaum.
+1·5	9·1	6·57	+2·49	1·91	11	11	+2·7	8·8	—1·5	1	1	1	2	0	10	12	3	1	1	1	2	3	0	9	11	4	0	Gadag.
																												Hyderabad, North
0	8·7	13·05	+8·26	2·35	9	22	+13·1	8·6	—1·5	0	1	0	0	1	5	21	1	2	3	1	0	1	0	3	17	3	3	Aurangabad.
..	8·6	8·32	+2·51	1·55	21	16	+7·0	..	..	0	0	0	0	0	2	19	6	4	0	1	1	1	0	0	15	6	7	Parbhani.
+1·3	8·9	14·12	+7·94	5·68	20	11	+0·6	9·6	—1·4	0	0	0	0	3	8	14	6	0	1	3	5	2	2	4	13	1	0	Bidar.
+1·5	8·3	11·65	+1·89	4·10	22	17	+3·2	3·9	—0·9	0	0	0	2	2	13	7	2	5	2	4	1	1	2	7	5	2	7	Nizamabad.
																												Peddapalli (*E*).

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 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
Hyderabad, South																					
Gulbarga (*R*) ..	1,503	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raichur†	1,311	961·3	—1·0	957·7	88·1	—1·8	95	17	73·5	+0·9	71	19,20,22	76·2	85·5	72·9	75·0	26·2	+2·1	24·9	86	+7
Hyderabad (Begumpet).	1,778	945·3	—0·1	942·0	86·3	+0·4	94	17	72·3	+0·3	70	6,7,9	75·1	82·8	72·7	75·4	26·5	+1·8	27·0	89	+6
Hanamkonda ..	881	974·5	—0·5	971·2	87·8	+1·1	96	17	75·1	0	71	3	77·4	87·4	75·2	77·8	28·7	+3·0	28·4	86	+8
Khammameth ..	367	992·2	..	988·8	90·1	..	97	16,17	76·1	..	70	3	80·3	88·3	77·8	81·4	31·9	..	33·1	89	..
Mysore																					
Chitaldrug ..	2,405	926·4	—0·8	923·2	82·6	0	89	5,16	69·7	+1·2	67	14	71·6	79·8 (a)	69·7	71·8 @	24·0	+1·9	23·3 @	91	+7
Hassan	3,149	903·3	..	900·6 (a)	79·3	+0·6	86	15	66·8	+1·5	65	6 days	69·4	74·1	67·5	69·1	22·2	+1·0	22·3	90	+3
Bangalore ..	3,021	906·9	—1·0	904·1	81·1	—0·3	86	4,16	67·3	+1·7	65	8,22,30	69·4	77·3	67·9	70·2	22·7	+1·5	22·4	92	+4
Mysore	2,518	923·4	—1·4	920·9	82·4	—0·6	89	4	68·2	+1·4	66	3,31	70·8	78·4	68·7	70·9	23·1	+1·5	22·8	89	+6
Malabar																					
Mangalore ..	72	1005·8	—1·4	1003·4	82·7	—1·2	86	29	74·6	+0·4	73	5 days	76·9	79·9	75·9	77·1	30·1	+0·9	30·5	95	+2
Calicut	27	1007·4	—1·7	1005·4	83·5	+0·6	87	3,4,5	74·7	+0·4	73	29,30	76·3	81·3	75·1	77·9	29·2	+0·5	31·1	95	+1
Palghat	319	997·5	..	994·8	83·7	..	89	15	73·6	..	72	5 days	75·4	79·2	74·4	76·1	28·6	..	29·4	96	..
Cochin	10	1008·8	—1·4	1006·5	82·4	0	85	1,4,7	74·9	—0·1	72	30	77·7	79·7	75·9	76·6	29·7	+1·3	29·9	92	+3
Alleppey	12	1008·7	..	1006·5	83·6	..	87	5	74·6	..	72	1,30	77·5	80·1	75·6	76·7	29·4	..	29·8	91	..
Trivandrum ..	211	1002·1	—1·4	999·5	83·2	..	89	5	73·6	..	72	4 days	75·7	80·0	74·2	75·5	28·2	+0·5	28·1	93	+4
Nagarcoil ..	195	1001·8	..	999·2	86·2	..	93	4	75·3	..	72	15	77·2	82·3	73·8	75·2	26·9	..	26·6	85	..
Madras, South East																					
Pamban	37	1006·1	—0·9	1003·1	89·8	+0·7	91	1,21,22	80·7	+1·9	79	11,21,22	84·5	85·0	79·3	79·6	31·8	+2·2	32·1	79	0
Madura	437	992·2	—1·0	988·5	94·6	—0·6	99	8,9	77·1	+0·6	73	14	81·9	89·6	74·6	76·1	26·0	+2·1	24·6	69	+4
Negapatam ..	31	1005·5	—1·5	1002·3	92·7	—1·4	97	31	78·2 (b)	+0·5	72	2	82·0	88·4	75·8	79·0	27·6	+0·4	29·6	74	+1
Trichinopoly* ..	295	997·1	—1·0	993·4	95·0	—1·4	99	4,8	76·3	—0·9	72	15	81·7	91·6	74·3	76·5	25·6	+1·1	24·3	69	+2
Coimbatore ..	1,341	961·7	—1·4	958·7	87·0	—0·4	91	6	72·2	+1·2	70	30	75·7	82·3	71·1	73·7	24·0	—0·9	24·5	79	—5
Salem	913	975·9	—1·3	972·1	89·9	—2·4	94	9	73·8	+0·6	71	1	76·1	86·3	73·2	76·1	26·6	+0·8	26·1	87	+6
Cuddalore ..	39	1005·1	—1·1	1001·6	91·6	—2·6	98	31	78·0	+1·0	73	1,2	80·9	88·9	76·2	78·9	28·7	+0·3	29·2	80	+4
Vellore	703	982·3	—0·6	978·3	92·4	—0·5	95	8 days	76·8	+0·4	73	1	79·9	89·9	74·5	77·6	26·7	+1·3	26·7	77	+4
Madras	51	1004·3	—0·8	1000·7	92·0	—2·8	99	18	78·6	+0·6	74	20	82·5	88·2	76·8	78·5	28·9	+2·7	28·9	76	+5
Aroyyavaram ..	2,299	929·7	..	926·6	85·7	..	90	4 days	71·3	..	69	1,7,22	75·1	82·2	73·0	75·8	26·8	..	27·8	90	..
Madras Deccan																					
Cuddapah ..	428	991·8	—0·8	987·6	92·3	—2·4	100	17	76·5	—1·0	68	27	82·5	87·6	75·9	78·4	27·6	+1·8	29·1	73	+2
Bellary	1,473	956·3	—1·0	952·7	87·9	—2·6	95	15	74·5	+0·6	71	23	76·6	85·7	73·2	75·7	26·3	+4·2	25·8	85	+15
Kurnool	923	974·5	—0·9	970·6	89·3	—1·2	98	16	74·9	+0·6	71	17	77·8	86·5	74·1	76·1	27·1	+2·6	26·0	83	+6
Rentichintala ..	348	993·1	..	989·2	91·5	—1·4	99	17	77·3	—1·1	73	6	81·0	89·4	76·0	77·6	28·4	+2·7	27·0	79	+9
Anantapur ..	1,148	966·9	..	963·1	90·1	..	96	4,15,17	75·3	..	73	5 days	77·4	86·5	72·8	74·5	25·5	..	23·7	79	..
Madras Coast, North																					
Nellore	66	1003·1	—0·8	999·7	93·9	—2·1	101	18	79·4	0	77	7 days	82·6	89·4	77·4	79·2	29·8	+3·4	29·4	78	+10
Ongole	38	1003·6	..	999·9	91·6	..	99	5	78·8	..	75	5,23,24	82·3	88·2	78·3	81·4	31·2	..	33·5	83	..
Masulipatam ..	10	1004·5	—0·4	1001·1	87·9	—3·4	94	3,5	78·6	+0·7	75	3,5,22 28	81·3	85·7	78·3	79·8	31·7	+1·9	32·2	87	+5
Cocanada	26	1003·5	0	1000·4	88·1	—1·6	93	4,8	78·9	+0·6	75		82·5	84·9	78·6	79·8	31·6	+1·4	32·4	83	0
Vizagapatam ..	126	999·2	+0·1	996·3	87·9	—1·2	93	8	78·8	+0·2	74	27,28,31	82·5	84·3	78·1	79·3	30·8	+1·4	31·9	81	+1
Calingapatam ..	19	1002·6	+0·4	999·8	88·7	—1·3	94	4	79·0	+0·4	77	4 days	81·7	84·6	78·2	79·5	31·4	—0·1	32·1	85	+1

(a) Mean of 30 days. (b)—Mean of 29 days. (*R*) Register not received.

*Pressure and cloud observations refer to aerodrome e

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION.
											8 hrs. I. S. T.									17 hrs I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													Hyderabad, South
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Gulbarga (*E*).
7·8	+2·4	7·8	8·52	+4·13	2·02	5	13	+5·2	8·5	+1·1	0	1	0	3	1	13	7	6	0	1	2	1	4	2	6	6	7	1	Raichur.†
8·5	+0·9	8·7	11·66	+6·37	2·67	21	13	+3·1	8·3	—0·3	0	0	0	3	0	1	16	5	6	0	2	3	3	1	6	10	6	0	Hyderabad (Begumpet).
8·3	+1·0	8·2	10·25	+3·27	2·09	23	16	+5·3	5·5	—0·5	2	0	1	4	6	2	11	4	1	4	2	2	6	2	2	7	5	1	Hanamkonda.
6·9	..	6·9	9·81	..	1·92	9	12	..	4·4	..	0	0	3	8	2	3	4	7	4	3	4	2	1	0	6	4	8	3	Khammamett.
																													Mysore
9·2	+0·6	8·8	8·72	+5·34	2·44	14	17	+9·6	5·8	—1·6	0	0	0	0	0	12	11	1	7	0	0	2	2	2	14	7	0	4	Chitaldrug.
8·3	+0·1	8·7	8·58	+4·68	1·28	17	17	+7·8	7·3	+1·1	1	2	0	3	2	11	4	7	1	3	1	1	2	3	11	4	5	0	Hassan.
9·4	+0·4	9·0	8·93	+3·95	1·72	8	13	+3·7	7·8	+0·5	0	0	0	0	0	7	20	4	0	2	0	2	2	2	3	10	7	3	Bangalore.
9·1	+1·2	9·3	3·01	—0·28	0·60	10	13	+6·0	6·9	—0·8	0	0	0	0	0	15	15	0	1	0	1	1	1	0	7	18	1	2	Mysore.
																													Malabar
9·2	+0·8	9·5	35·03	+11·51	4·61	1	26	+0·9	5·2	+0·7	3	1	5	5	1	2	5	8	1	2	0	0	0	0	7	12	9	1	Mangalore.
8·9	+0·7	9·2	23·57	+6·41	3.39	15	25	+5·7	7·1	+2·6	4	7	8	2	1	0	4	4	1	3	0	0	0	0	4	12	12	0	Calicut.
8·7	..	8·9	15·05	..	2·04	17	19	..	6·8	..	0	0	0	0	0	10	19	1	1	0	0	0	0	0	6	24	1	0	Palghat.
8·8	+1·3	9·4	35·53	+21·64	6·13	16	26	+7·3	8·5	+3·5	3	4	5	1	0	3	9	4	2	1	0	0	0	0	2	16	12	0	Cochin.
9·2	..	9·5	31·55	..	5·48	10	25	..	8·8	..	1	6	1	0	0	1	8	10	4	2	0	0	0	0	2	9	18	0	Alleppey.
8·3	+0·4	7·8	17·75	+13·02	3·28	16	21	+11·2	7·2	+0·6	13	0	0	0	0	1	4	11	2	1	0	0	0	0	0	6	23	1	Trivandrum.
8·9	..	8·7	7·98	..	2·23	15	10	..	10·2	..	0	0	0	0	0	0	14	16	1	0	0	0	0	0	1	18	12	0	Nagarcoil
																													Madras, SouthEast
5·3	+1·7	5·3	0·18	—0·41	0·11	15	1	0	7·8	—0·3	1	1	2	4	11	7	4	1	0	2	0	1	9	12	7	0	0	0	Pamban.
6·9	+0·4	8·2	3·22	—0·86	0·79	14	6	0	4·1	+0·3	2	1	1	0	0	3	6	7	11	1	0	1	1	3	6	11	4	4	Madura.
7·3	+1·6	8·0	1·83	—1·22	0·49	24	7	+2·1	5·9	+0·7	0	0	0	0	2	12	14	1	2	0	0	2	6	8	8	6	1	0	Negapatam.
6·7	+0·9	8·1	4·00	+0·17	2·18	16	4	—0·7	6·4	+0·2	0	0	0	0	0	1	25	2	3	0	0	2	5	4	3	13	4	0	Trichinopoly.*
6·8	+1·4	7·5	0·47	—0·76	0·23	15	2	—1·1	10·8	+5·4	0	0	0	1	9	15	5	0	1	0	0	0	0	9	15	7	0	0	Coimbatore.
7·2	+0·7	8·3	8·16	+1·59	2·34	15	11	+1·1	3·9	+0·2	0	0	0	0	1	21	3	0	6	0	1	2	0	3	10	7	0	8	Salem.
6·7	+0·5	7·5	2·24	—2·56	0·61	1	6	—1·1	5·9	+1·7	0	0	0	0	5	15	6	2	3	0	0	2	13	2	7	6	1	0	Cuddalore.
7·5	+1·9	7·4	3·46	—2·28	1·11	1	7	—0·4	3·6	—0·4	0	0	0	0	0	5	9	4	13	1	2	2	8	3	7	3	2	3	Vellore.
7·1	+0·3	7·5	2.92	—1·66	0·86	20	7	—0·9	9·1	—1·6	0	0	0	4	3	13	11	0	0	1	2	2	17	1	3	3	2	0	Madras.
8·5	..	8·2	2·32	..	1·08	6	4	.	6·0	..	2	0	0	0	2	0	2	16	9	5	2	0	0	0	3	7	9	5	Arogyavaram.
																													Madras, Deccan
7·6	+0·2	7·8	8·04	+2·80	1·80	27	11	+3·3	4·3	—2·3	0	0	0	0	0	0	9	2	20	0	1	1	1	0	0	11	4	13	Cuddapah.
8·8	+1·8	8·6	4·98	+2·60	1·75	5	11	+7·0	5·7	—2·2	2	0	0	0	0	0	20	1	8	0	0	3	2	1	2	17	4	2	Bellary.
9·3	+1·9	9·5	13·50	+9·00	3·32	17	15	+6·4	8·9	—0·3	0	0	1	2	0	10	13	2	3	0	1	3	2	1	4	11	7	2	Kurnool.
9·5	+1·1	9·3	5·15	+1·61	1·36	19	9	+1·2	5·7	—2·9	1	1	2	2	1	5	13	0	6	1	0	3	4	0	6	13	3	1	Rentichintala
8·3	..	8·4	7·28	+3·98	1·41	4	12	+7·2	6·8	..	0	1	0	0	0	1	17	2	10	0	0	0	1	0	1	15	5	9	Anantapur.
																													Madras Coast, North
7·6	+0·1	7·6	2·19	—0·83	0·93	19	5	—0·5	5·3	—0·2	0	0	0	2	7	4	14	2	2	0	0	4	11	2	1	12	0	1	Nellore.
9·2	..	8·6	4·83	..	2·10	19	8	..	5·9	..	0	0	0	2	2	9	12	1	5	0	0	6	9	0	4	10	2	0	Ongole.
8·0	+0·8	7·8	7·23	+0·97	1·38	19	14	+3·8	6·2	+0·2	1	1	1	1	6	4	10	2	5	0	0	0	8	8	3	9	3	0	Masulipatam.
7·5	+0·1	8·2	6·64	+1·08	1·28	27	13	+3·4	7·8	+2·4	1	0	0	4	0	18	5	2	1	0	0	0	8	0	18	2	3	0	Cocanada.
8·1	0	8·1	5·96	+0·80	3·05	23	9	+0·	4·7	+0·1	1	0	0	0	0	6	14	1	9	0	2	0	4	10	8	5	0	2	Vizagapatam.
8·9	+2·4	8·8	9·12	+2 32	4·10	23	9	—0·5	7·9	+1·8	1	0	1	0	3	7	14	8	0	0	1	2	1	3	16	6	2	0	Calingapatam.

site and other observations ref r to cantonment site.

† Mean of 30 days for 17 hrs. only.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
Hill Stations Excluding Kashmir																						
Shillong	4,921	847·1	+1·4	844·2	75·7	+0·6	79	17,18	63·5	—0·5	60	5,6,21	70·6	70·9	66·7	67·3	21·9	+1·4	21·4	81	—3	83
Cherrapunji ..	4,309	866·1	+1·7	863·4	72·9	+0·4	79	16,17	65·4	+0·1	62	4	68·6	70·1	67·3	68·2	22·3	+0·5	22·8	94	+2	91
Aijal	3,599	887·0	..	884·4	77·5	..	82	16,30	66·3	..	65	8 day	70·4	72·1	69·2	70·7	24·0	..	25·1	94	..	94
Darjiling	7,432	774·5	+0·9	773·1	67·4	+1·8	73	28	57·7	0	56	8	61·5	62·2	60·5	61·5	17·4	—0·5	18·3	95	0	97
Kalimpong ..	3,965	874·2	—0·1	871·3	78·7	+3·2	82	28	67·4	+0·2	66	17	70·3	73·7	69·2	71·7	24·0	+0·3	25·8	94	0	90
Katmandu	4,388	863·3	..	859·4	84·0	+0·6	88	8,31	68·5	+0·2	66	4 days	73·5	79·2	70·2	73·2	23·8	+0·7	25·6	85	+1	75
Muktesar	7,592	770·0	+0·9	768·1	69·5	+1·5	73	1,6,7	58·4	+1·0	55	18	61·0	64·3	59·8	62·7	17·1	+0·3	19·1	94	0	92
Mussooree	6,699	794·5	..	792·7	70·0	+1·8	73	4	60·7	+0·8	65	11, 26	64·4	65·8	63·4	65·4	19·6	+0·9	21·3	95	+3	93
Simla	7,224	779·8	+1·6	778·3	68·5	+0·1	75	1	59·8	+0·6	58	4 days	62·5	65·2	68·9	63·6	17·7	+0·7	19·5	92	+3	91
Abu (R)	3,945	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
Pachmarhi	3,528	887·9	+0·5	886·1	76·3	+1·5	83	15,16	69·0	+2·1	66	4	70·5	74·1	69·2	71·0	23·9	+1·7	24·7	93	0	86
Mahabaleshwar ..	4,534	858·8	—0·5	857·1	69·8	+4·2	80	16	62·8	+1·3	61	4,5,6	64·0	66·2	63·9	65·9	20·4	+0·9	21·3	98	—2	96
Mercara	3,781	882·8	—1·3	881·5	68·1	—1·1	75	15	63·5	+1·5	61	29, 30	65·2	67·9	64·9	66·8	20·9	+1·4	22·0	98	0	94
Ootacamund ..	7,364	778·2	—0·2	796·7	64·4	+1·6	71	2	51·9	+0·2	48	2, 3	55·3	59·7	54·4	57·8	14·1	+1·0	15·6	95	+5	90
Coonoor	5,730	824·6	..	..	71·3	+0·4	74	10	58·9	+1·1	55	3	65·3	..	60·4	..	16·2	+1·5	..	76	+4	..
Kodaikanal ..	7,688	769·3	—0·2	767·8	62·6	—0·1	66	2	53·3	+1·4	51	21, 22	56·3	57·8	54·5	56·2	13·9	+1·4	14·9	90	+10	92
Ceylon																						
Colombo	24	1008·5	—1·2	1006·3	84·5	—1·1	87	2	76·8	—0·2	73	5	79·3	81·5	75·8	76·5	28·9	—0·1	28·9	94	—3	78
Trincomalee (c) ..	24	1007·0	0	1004·2	90·6	—2·0	93	7 days	77·4	+0·4	73	24	79·9	88·0	75·6	78·5	28·3	+1·2	29·0	81	+1	64
Hambantota ..	61	1005·5	—1·9	1003·2	87·3	+0·5	92	25,30,31	76·2	+0·1	73	21,23	78·5	83·5	75·2	77·0	28·2	0	28·7	85	—3	73
Mannar	12	1007·0	..	1004·5	87·5	..	90	4,5	79·3	..	76	4	82·2	83·4	77·5	78·1	30·1	..	30·4	80	..	73

(R) Register not received.

(c) Observations for 26 days except Minimum ; Minimum—25 days.

ad amount, ths of sky).		Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION
										8 hrs. I. S. T										17 hrs. I. S. T.									
Departure from normal.	Mean 17 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
																												Hill Stations Excluding Kashmir
+0·3	9·3	14·62	+2·13	2·11	22	19	+0·5	2·6	+0·9	1	0	1	4	1	2	2	1	19	2	1	3	2	4	3	1	2	13	Shillong.
—1·0	7·1	41·58	—28·50	7·12	1	22	—4·2	4·5	—0·1	2	6	8	6	3	2	0	0	4	2	4	4	1	4	7	1	0	8	Cherrapunji.
..	8·8	16·87	..	2·29	14	19	..	5·1	..	0	0	14	2	1	7	0	0	7	0	1	2	0	3	11	11	0	3	Aijal.
—0·3	9·4	25·08	—1·48	3·43	28	25	+1·3	5·1	+1.7	1	0	12	10	1	1	0	1	5	0	1	11	4	2	0	6	2	5	Darjiling.
—0·7	7·4	17·07	—2·81	4·10	28	20	—1·5	5·5	+0·2	1	1	0	6	0	0	1	12	10	0	0	1	15	3	0	0	6	6	Kalimpong.
—0·9	7·5	9·73	—3·95	1·88	6	16	—4·8	0·2	—0·7	0	0	0	0	0	0	0	0	31	2	0	0	0	0	0	0	0	29	Katmandu.
—0·6	8·0	13·70	+1·44	3·93	17	14	—3·9	7·0	+1·9	0	6	6	3	1	2	6	3	4	0	1	2	2	2	8	13	1	2	Muktesar.
+0·3	9·0	25·30	—2·04	3·59	21	24	+0·2	1·9	—1.7	3	3	4	5	5	1	1	0	9	3	2	0	4	8	3	0	2	9	Mussooree.
+0·1	9·5	8·96	—7·89	1·74	5	16	—3·7	0·9	—1·3	3	1	1	2	5	1	0	1	17	8	1	1	1	1	6	3	0	10	Simla.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Abu (*R*).
0	9·3	42·25	+18·43	8·47	31	23	+1·1	3·5	—2·9	0	0	0	0	2	5	15	5	4	2	0	0	0	1	3	14	9	2	Pachmarhi.
—0·1	10·0	62·75	—10·36	6·66	26	26	—3·8	5·1	—5·7	0	0	0	0	1	17	0	2	11	2	0	0	0	0	19	3	1	6	Mahabaleshwar.
—0·7	8·7	38·91	+12·11	4·58	18	24	—2·5	8·3	+1·9	0	0	0	0	0	9	12	4	6	0	0	0	0	0	9	14	5	3	Mercara.
—1·0	8·3	6·71	+1·02	0·99	16	16	+3·7	5·1	—0·2	0	0	0	0	2	6	10	1	12	2	0	4	1	3	5	10	1	5	Ootacamund.
+2·6	..	4·92	—0·07	2·42	6	7	—2·1	4·7	+0·7	2	0	0	4	4	0	1	8	12	..	..	..	..	..	..	..	..	..	Coonoor.
+1·1	9·3	10·41	+3·41	1·38	16	15	+2·9	10·1	+1·5	0	1	0	3	2	4	11	9	1	1	1	0	5	3	0	9	10	2	Kodaikanal.
																												Ceylon
+1·3	8·5	10·18	+6·48	3·04	9	13	+6·1	..	..	0	0	0	1	2	6	18	2	2	0	0	0	0	0	12	17	2	0	Colombo.
+3·5	8·7	..	..	..	..	..	..	..	..	0	0	0	0	0	26	0	0	0	0	0	0	3	0	22	1	0	0	Trincomalee. (*c*)
+4·2	8·7	3·68	+2·05	2·53	15	4	+0·1	..	..	0	0	0	0	0	16	13	0	2	0	0	0	0	0	24	7	0	0	Hambantota.
..	7·6	1·23	..	1·01	16	2	..	..	..	0	0	0	1	14	15	1	0	0	0	0	0	0	17	14	0	0	0	Mannar.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T.(2-30 HRS. G.M.T.) AT 4TH CLASS STATIONS—AUGUST 19

STATION.	Maximum temperature °F.				Minimum temperature, °F.				Mean dry bulb temperature 8 hrs. I. S. T. °F.	Mean wet bulb temperature 8 hrs. I. S. T. °F.	Vapour, pressure. mbs.		Relative Humidity, %		Mean cloud amount 8 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 8 hrs. I. S. T.	Departure from normal.	Mean 8 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 8 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	92·9	+2·7	97	4 days	79·1	+2·5	73	4, 6	85·8	79·2	31·1	0	74	—12	..	5·53	—2·55	1·59	18	10	—1·3	..	..
Kashmir—																							
Jammu (*R*) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kargil (*R*) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mysore—																							
Balehonnur ..	75·5	+1·5	85	15	65·9	+0·5	65	12days	67·9	67·5	22·8	+0·9	98	+1	..	30·34	+6·94	3·45	18	26	+1·5	..	..
Tibet—																							
Yatung (Chumbi) ..	66·7	+2·0	70	4 days	48·8	—1·5	45	4 days	59·2	58·2	16·1	+2·2	95	+6	6·5	4·59	—1·52	0·59	24	15	—2·4	..	..

(*R*) Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2-30 HRS. G.M.T.) AT 5TH CLASS STATIONS—AUGUST 19

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 (*R*) ..	..	..	..	..	..	..	Bombay, Deccan ..	Khandala ..	55·95	+6·25	5·98	31	24	—5·1
West Bengal ..	Bankura ..	11·56	—0·57	3·60	4	16	0	Madras Southeast ..	Palamcottah ..	1·20	+0·54	0·91	14	3	+2·0
	Cooch Behar ..	7·95	—15·79	1·24	2	14	—4·7								
	[illegible]							Sikkim	Lachung ..	6·44	—2·88	1·82	13	15	—9·1
Bihar	Muzaffarpur ..	12·80	+0·24	5·10	12	9	—4·6								
	Chapra ..	6·09	—5·19	1·22	2	11	—2·4								
	[illegible]rrah ..	10·63	—1·94	2·70	12	14	—0·6								
United Provinces, West	Meerut ..	2·05	—6·75	0·86	11	3	—6·8								
East Punjab ..	Dharampore ..	6·74	—5·82	1·00	24	24	+7·5								
	Kyelang ..	2·10	—0·71	0·60	27	7	+3·2								
	Dalhousie ..	18·57	—3·58	3·42	28	20	—1·5								
Kashmir ..	Sonamarg (*R*) ..	..	..	..	..	..	..								
	Gurez (*R*) ..	..	..	..	..	..	..								

(*R*) Register not received.

Monthly Weather Report, August 1947.

Monthly Means of Upper Winds

After the partition of the Country into dominions of India and Pakistan from 15th August 1947 the following stations came under the control of Pakistan data for which will not be published in this series hereafter.

List of Stations under Pakistan.

(1) Bahrain.
(2) Bogra.
(3) Chhor.
(4) Chittagong.
(5) Dalbandin.
(6) Drosh.
(7) Fort Sandeman.
(8) Jacobabad.
(9) Jhelum.
(10) Jiwani.
(11) Karachi.
(12) Khanpur.
(13) Lahore.
(14) Multan.
(15) Peshawar.
(16) Quetta.
(17) Sharjah.

For the co-ordinates of the stations and other particulars please refer to the Monthly Weather Report of January 1947 and other subsequent issues. The data for Minicoy from April to July 1947 are included in the end.

Data upto 9 Km. a. s. l. are given under Table A and data above 9 Km. under Table B. In tables A & B

n represents the number of observations,

V represents the mean wind speed in *m/sec.* irrespective of directions,

v represents the resultant mean velocity of wind in *m/sc.*,

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

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

AUGUST 1947

Height in km.	AHMEDABAD												ALLAHABAD											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·0	1·7	219	31	1·7	1·3	222	31	2·1	1·3	240	31	1·9	0·3	115	31	1·8	1·0	71	31	2·3	0·4	44
0·15 a ground	30	6·9	5·9	240	30	6·1	4·5	240	31	5·5	3·6	229	27	6·5	2·2	110	31	4·9	1·3	110	29	4·7	1·3	91
0·6 a. s. l.	26	8·7	7·4	259	26	9·0	7·5	269	30	6·5	5·0	235	26	7·5	3·0	122	28	7·1	0·6	140	29	5·2	1·3	82
1·0 „	23	8·1	7·6	258	21	8·1	7·2	268	28	7·0	5·6	241	24	6·6	3·3	122	22	6·6	1·2	231	29	6·3	2·0	94
1·5 „	17	6·3	5·0	242	20	7·7	5·6	240	23	7·2	5·8	252	21	5·1	1·0	130	18	6·1	0·5	216	24	6·2	1·6	128
2·0 „	11	3·9	1·5	260	14	7·9	4·4	222	18	7·2	6·4	259	18	5·6	1·6	106	13	4·1	0·5	209	19	6·3	2·3	151
2·5 „	4	4·5	2·7	47	9	5·8	4·7	201	13	7·1	6·2	258	12	4·3	1·5	124	8	3·9	1·5	284	13	5·6	2·5	133
3·0 „	3	3·8	0·6	160	6	5·3	3·8	250	5	4·6	2·9	239	8	4·9	1·5	92	6	3·8	2·3	193	11	5·8	2·6	130
4·0 „					2	3·7	1·7	111	2	5·5	5·5	242					4	3·6	1·9	235	1	3·0	3·0	125
5·0 „					1	4·0	4·0	55	2	3·3	1·8	258					1	6·5	6·5	150	1	1·5	1·5	165
6·0 „									1	4·0	4·0	50					1	6·0	6·0	115	1	3·0	3·0	150
7·5 „																					1	2·5	2·5	125
9·0 „																								

Height in km.	AMBALA												ANANTAPUR								ASANSOL			
	0100				0700				1600				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·1	1·9	114	31	2·1	1·2	119	31	1·7	0·3	87	31	2·6	2·3	271	31	3·6	2·9	271	31	2·0	1·2	130
0·15 a ground.	30	6·3	4·8	136	31	5·7	3·6	130	28	4·2	0·2	11	29	7·0	6·1	256	28	7·3	4·7	269	25	5·3	1·9	151
0·6 a. s. l.	30	6·7	5·1	141	31	6·6	3·9	147	28	4·2	0·4	120	29	8·8	7·8	265	28	6·8	4·6	267	24	6·0	1·9	158
1·0 „	30	6·6	4·1	151	28	6·9	3·4	160	28	4·5	0·8	136	29	12·0	10·8	277	28	7·1	5·3	269	20	5·3	1·6	165
1·5 „	27	5·4	2·5	141	26	6·6	1·2	132	28	4·8	1·2	164	22	9·7	7·1	282	25	8·7	6·5	271	15	4·7	0·6	111
2·0 „	25	5·3	1·3	105	20	6·4	1·6	98	26	5·4	0·5	203	16	7·0	2·2	296	18	5·3	1·3	275	8	4·1	0·7	55
2·5 „	12	5·6	1·3	359	16	5·7	1·7	112	24	6·1	0·3	307	11	7·5	1·7	78	15	4·8	1·8	141	3	3·2	0·7	164
3·0 „	5	5·6	4·1	348	14	4·7	2·7	115	20	5·6	1·0	23	10	5·5	4·2	100	13	4·5	2·6	125	1	3·5	3·5	120
4·0 „	2	3·3	1·1	325	9	3·0	0·5	209	15	3·9	0·8	317	8	8·3	7·6	112	11	6·2	4·3	138				
5·0 „					5	3·4	2·1	143	9	4·5	0·8	312	8	10·4	10·3	111	9	6·4	5·6	119				
6·0 „					4	4·7	1·3	159	7	5·1	1·3	296	6	11·5	11·5	104	9	8·5	7·8	106				
7·5 „					3	5·8	1·9	245	4	6·5	6·2	292	1	10·0	10·0	110	4	9·4	9·2	110				
9·0 „					2	6·7	0·9	326	3	7·5	7·5	267					3	16·8	16·8	108				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

AUGUST 1947

eight in km.	ASANSOL								BALASORE				BANGALORE								BAREILLY			
	0700				1600				0700				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
rface.	31	2·1	1·0	109	31	2·4	1·4	121	31	2·9	0·7	192	31	3·9	3·6	252	31	4·1	2·8	265	31	1·4	1·3	84
15 a ground.	24	3·9	1·0	117	27	4·5	2·2	130	29	5·5	1·9	212	29	7·1	6·7	251	28	6·3	4·5	272	30	6·2	4·3	102
6 a. s. l.	20	4·9	0·8	135	24	5·1	2·1	121	29	6·1	1·6	194	..	..	..	..	..	..	..	..	30	8·2	4·6	109
0 ,,	12	4·5	0·4	76	19	4·9	1·2	177	28	5·4	1·9	198	30	6·1	5·8	249	27	5·8	4·3	267	26	9·3	4·5	108
5 ,,	9	4·2	1·2	97	13	4·2	1·8	259	22	5·7	1·7	205	13	4·0	1·9	234	27	7·3	5·8	275	26	8·7	3·6	100
0 ,,	8	3·9	1·8	92	5	4·2	1·8	251	17	5·3	0·9	218	11	3·9	0·8	137	25	7·9	6·6	280	20	8·8	5·7	105
5 ,,	5	4·2	1·5	74	2	7·3	4·3	256	15	5·5	1·1	209	8	3·5	1·0	58	20	7·7	4·6	280	18	8·1	4·5	98
0 ,,	2	4·0	4·0	355	1	4·0	4·0	110	12	4·8	1·0	261	5	3·4	0·9	84	17	7·5	3·1	279	14	8·7	4·5	97
0 ,,	1	2·5	2·5	25					9	5·4	0·5	291	3	4·2	3·1	173	9	7·4	1·9	195	3	4·5	3·7	76
0 ,,									5	3·4	1·4	145	1	8·5	8·5	140	7	5·6	1·6	165	3	4·5	2·7	88
0 ,,									3	5·0	5·0	83					4	7·3	6·9	98	2	4·0	4·0	90
5 ,,									1	8·0	8·0	75					3	11·3	11·1	96				
0 ,,									1	13·0	13·0	80					2	12·0	11·9	113				

eight in km.	BAREILLY				BHOPAL												BHUJ							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
rface.	31	1·1	0·5	106	31	2·6	2·2	248	31	3·4	2·4	261	31	4·0	3·2	264	30	3·4	3·2	235	31	1·4	1·3	235
15 a ground.	29	4·8	2·3	97	16	7·0	4·9	247	20	6·3	5·0	250	20	6·1	4·0	273	24	8·0	7·4	241	27	6·4	5·5	245
6 a. s. l.	29	5·3	2·6	100	16	6·4	5·1	240	20	6·1	4·8	247	20	6·1	3·9	263	24	11·3	10·5	251	26	10·3	9·7	251
0 ,,	29	5·7	1·8	103	15	7·4	5·0	264	17	9·8	8·2	271	18	5·5	3·8	266	21	10·4	9·6	247	22	9·7	9·4	240
5 ,,	28	6·7	2·0	117	9	7·3	3·9	280	15	8·5	7·1	276	12	5·8	4·9	267	7	8·6	7·4	221	12	7·0	6·5	226
0 ,,	26	7·5	2·8	118					9	4·8	1·8	270	7	5·2	3·2	249	4	7·4	6·6	232	7	4·6	3·0	222
5 ,,	24	8·0	2·5	123					3	3·3	1·3	3·8	2	8·5	3·9	186					4	3·4	3·2	222
0 ,,	20	9·3	4·7	117					1	4·0	4·0	70	2	6·5	3·6	222					3	2·8	1·8	176
0 ,,	12	9·1	2·7	124					1	1·5	1·5	25	2	7·5	3·8	194					2	3·5	2·7	98
0 ,,	7	7·4	5·3	117																	2	9·5	9·1	49
0 ,,	3	10·7	7·8	129																	2	8·5	8·3	67
5 ,,	2	6·5	5·7	182																	1	4·5	4·5	59
0 ,,																								

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

AUGUST 1947

Height in km.	BHUJ				BIKANER								BOMBAY											
	1600				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	4·2	3·9	239	31	2·9	1·9	205	31	3·3	2·0	215	31	3·4	2·9	259	31	2·8	2·1	273	31	4·9	4·2	275
0·15 a. ground	27	8·5	7·9	242	31	6·6	4·5	219	30	5·9	2·8	210	27	6·1	4·8	268	26	5·6	3·7	266	29	7·3	6·2	271
0·6 a. s. l.	25	8·7	7·8	246	31	8·3	5·4	240	30	5·5	2·5	206	27	7·1	6·2	271	24	7·4	6·0	268	28	8·9	7·7	273
1·0 „	22	7·9	6·9	250	31	7·8	4·1	245	30	5·1	2·1	209	23	6·9	6·1	274	18	7·0	4·9	271	24	7·7	6·8	270
1·5 „	16	6·3	5·4	243	31	5·5	1·5	250	30	4·7	1.5	208	12	5·0	4·4	254	15	5·6	3·3	247	19	6·9	5·9	255
2·0 „	6	4·0	2·7	231	28	4·9	1·5	71	26	5·3	0·9	184	8	5·0	3·6	258	7	5·6	2·6	166	15	5·5	4·1	230
2·5 „	3	4·2	3·9	222	27	4·7	3·1	64	24	5·8	0·7	115	2	6·0	6·0	267	7	6·1	3·1	156	11	4·7	2·3	207
3·0 „	2	4·7	3·5	220	24	5·6	4·5	76	22	5·9	1·8	38	2	2·0	2·0	261	6	5·3	4·3	129	11	4·5	1·6	202
4·0 „					23	4·7	3·6	70	14	5·8	4·0	19					4	5·1	3·8	86	6	5·1	1·1	357
5·0 „					17	4·7	3·0	22	8	6·2	3·2	42					2	5·5	5·2	98	4	5·6	1·5	160
6·0 „					12	4·0	2·9	47	6	7·0	3·9	15					1	2·5	2·5	149	2	6·7	6·5	142
7·5 „					7	4·9	3·6	70																
9·0 „					3	4·7	4·0	84																

Height in km.	CALCUTTA												COCHIN											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·7	1·6	144	31	2·7	1·5	118	31	2·9	2·1	162	31	3·5	2·1	289	31	3·1	0·9	291	31	5·3	4·6	284
0·15 a. ground	28	7·3	4·3	161	31	6·1	3·0	142	30	5·6	4·0	169	22	4·4	3·0	291	27	4·3	2·2	304	27	5·9	5·7	287
0·6 a. s. l.	28	7·9	4·6	181	23	7·1	3·2	182	30	6·8	4·0	168	22	8·5	8·1	295	26	9·7	8·9	297	23	9·8	9·6	293
1·0 „	25	7·6	3·8	201	19	6·5	3·0	192	29	6·4	3·2	169	18	10·1	9·0	300	26	11·2	10·7	297	21	11·5	11·3	295
1·5 „	24	7·8	3·2	198	19	7·0	2·4	199	22	6·8	3·8	147	11	8·7	8·5	295	20	11·1	10·5	294	15	9·5	9·1	297
2·0 „	17	7·3	2·8	170	14	6·7	2·9	178	22	6·3	3·4	127	7	6·2	6·1	295	18	10·6	10·1	290	12	8·5	7·0	297
2·5 „	6	6·1	2·7	175	9	4·9	1·3	117	16	5·2	1·4	126	7	5·9	4·4	295	16	10·4	8·9	287	7	7·3	5·0	295
3·0 „	6	9·0	4·0	151	9	5·5	1·7	81	14	5·1	2·1	109	6	3·9	1·7	340	12	8·4	5·8	283	6	5·3	3·1	290
4·0 „					6	4·1	2·1	81	5	5·3	1·5	70	3	5·0	2·9	81	6	5·6	1·6	90	5	4·2	1·7	111
5·0 „					4	3·7	3·3	99	3	4·3	4·2	77					4	5·6	4·7	115	4	4·9	3·9	71
6·0 „					2	6·5	6·5	79	1	3·0	3·0	80					3	7·2	6·3	114	3	7·5	6·9	102
7·5 „									1	6·5	6·5	85					2	9·7	9·7	90	1	9·0	9·0	100
9·0 „																	2	11·7	11·7	113	1	9·5	9·5	95

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

AUGUST 1947

Height in km.	COOCH BEHAR								CUTTACK												DEOLALI			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·2	0·7	106	31	1·2	0·5	158	31	1·0	0·4	253	31	0·5	Calm		31	1·3	0·7	200	12	2·6	2·1	256
·15 a. ground.	24	3·7	2·3	117	30	2·9	1·5	160	28	5·7	3·1	235	27	4·1	1·8	246	24	4·6	2·7	197	12	5·2	4·6	255
·6 a. s. l.	21	5·7	4·4	112	29	3·3	2·6	161	27	6·9	3·4	239	27	6·8	3·4	255	23	5·9	3·2	207	12	3·6	3·2	250
·C „	20	5·9	5·4	101	28	4·1	2·8	155	26	6·3	3·5	247	24	6·4	2·9	265	23	6·1	3·1	229	12	6·7	6·0	253
·5 „	17	6·5	5·9	93	25	4·3	3·3	129	24	5·8	2·4	245	22	6·2	3·0	267	16	7·6	3·8	258	11	6·5	4·7	247
·0 „	14	7·1	6·1	87	22	4·7	3·2	124	20	6·1	2·3	241	21	6·6	3·0	263	12	7·0	3·6	235	7	4·8	3·1	200
·5 „	12	6·5	4·8	90	20	4·2	2·5	113	14	5·5	1·2	201	20	6·2	2·5	264	10	6·9	3·4	235	7	4·8	3·4	180
·0 „	11	5·6	4·1	94	16	4·7	3·2	114	12	5·6	1·0	185	18	6·3	2·6	254	9	5·3	1·8	216	7	3·6	1·8	209
·0 „	4	5·3	4·9	121	11	5·3	3·1	112					16	5·3	3·4	254	9	5·7	2·7	231	6	4·3	1·3	63
·0 „	3	4·8	3·0	156	8	4·1	1·9	99					13	5·7	2·9	260	7	5·0	0·6	191	4	5·0	4·5	123
·0 „	1	3·0	3·0	210	5	3·9	2·1	87					7	4·8	2·0	60	4	6·1	2·2	177	3	7·7	7·7	109
·5 „	1	2·0	2·0	125	3	2·2	2·0	43					3	4·0	3·6	77								
·0 „	1	4·5	4·5	80	3	3·7	2·3	85					2	7·7	6·1	59								

Height in km.	GADAG								GAYA												GOPALPUR			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	V
Surface.	31	4·4	4·1	250	31	5·7	4·6	255	31	2·6	1·1	99	31	2·3	0·8	106	31	2·9	1·6	67	31	2·9	1·9	219
15 a. ground	29	8·0	6·6	262	31	8·3	6·5	258	30	5·2	2·0	120	30	4·6	1·9	113	31	5·0	2·3	75	29	5·2	3·1	230
6 a. s. l.	29	9·8	8·2	279	31	8·5	6·5	263	30	6·1	2·4	140	30	6·1	2·7	131	31	5·6	2·2	84	29	5·2	3·1	252
0 „	17	8·6	5·8	284	25	8·4	5·6	268	29	5·9	2·1	140	28	5·6	2·3	125	30	5·8	1·7	101	28	5·7	3·9	269
5 „	14	6·4	1·8	270	15	4·9	0·7	185	27	5·7	1·7	144	21	5·1	1·9	95	29	6·6	2·1	111	27	6·9	5·1	279
0 „	11	5·0	1·4	131	10	3·9	2·7	112	19	5·0	0·6	178	18	5·5	2·6	102	26	7·2	2·3	112	26	6·5	4·5	277
5 „	10	5·5	1·6	114	10	4·3	3·3	114	5	4·5	2·1	186	16	5·8	2·7	100	23	7·1	3·6	107	21	5·7	3·4	270
0 „	5	5·3	4·5	118	4	5·9	5·1	135	4	5·5	2·8	216	15	5·7	3·0	101	17	5·1	3·0	105	15	6·4	3·2	261
0 „	5	5·4	4·5	126	1	7·5	7·5	115					9	4·3	2·2	145	8	5·8	5·1	86	13	4·2	1·0	173
0 „	3	6·8	6·5	115	1	6·5	6·5	160					5	4·4	4·2	152	4	5·1	4·0	56	6	4·1	2·0	95
0 „	2	8·7	8·0	108	1	12·0	12·0	125					2	2·3	1·5	107	1	5·0	5·0	80	4	4·7	4·0	109
5 „	2	10·3	10·2	105									1	3·0	3·0	100					3	7·7	7·2	90
0 „													1	8·5	8·5	80					2	8·5	8·5	89

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

AUGUST 1947

Height in km	GOPALPUR				GORAKHPUR								HYDERABAD (DECCAN)											
	1600				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	6·8	5·1	188	31	1·8	1·3	94	31	2·4	1·5	110	31	3·5	2·6	255	31	3·6	2·8	272	31	4·2	2·3	254
0·15 a.ground.	30	8·6	6·2	200	28	6·1	5·3	91	29	5·4	3·0	103	30	7·7	4·8	250	31	7·4	5·6	268	31	6·9	4·3	267
0·6 a s. l.	30	5·2	2·4	222	25	9·2	8·2	110	29	5·3	3·5	99	30	5·7	3·5	249	31	5·6	4·2	265	31	5·5	2·4	256
1·0 „	30	5·2	2·1	265	22	9·3	7·9	110	27	6·0	4·2	105	30	9·8	6·6	265	30	11·1	8·1	277	31	7·4	4·8	274
1·5 „	26	6·3	2·9	287	17	9·3	7·4	99	17	6·9	3·5	110	24	8·4	5·9	277	26	10·8	8·8	290	31	8·2	6·1	282
2·0 „	24	6·8	2·8	285	13	7·4	6·1	102	13	7·5	3·8	121	22	6·4	5·2	287	21	7·8	6·1	299	25	8·6	6·3	288
2·5 „	21	7·1	2·5	270	8	4·6	3·2	104	9	8·1	6·0	111	17	5·9	3·7	300	19	6·5	4·6	302	13	5·1	1·7	260
3·0 „	16	5·4	0·5	77	8	5·3	4·1	104	6	5·3	3·2	129	14	4·3	1·2	297	18	5·6	2·7	320	13	6·0	1·7	248
4·0 „	12	4·9	2·6	97	4	4·9	3·9	97	4	5·9	5·3	101	1	5·0	5·0	310	12	6·3	1·9	115	8	5·7	1·7	220
5·0 „	8	5·8	3·3	86	2	3·5	2·9	32	3	5·5	4·9	95					11	6·8	3·2	97	2	7·5	3·9	191
6·0 „	6	6·8	5·2	55	1	3·5	3·5	300	3	6·3	4·2	100					11	8·3	4·1	98	1	7·0	7·0	145
7·5 „	4	5·7	5·2	91					1	3·0	3·0	240					3	7·5	5·7	147	1	11·5	11·5	135
9·0 „	3	10·7	10·7	79													1	9·5	9·5	80				

Height in km.	JAMSHEDPUR								JHARSUGUDA												JODHPUR			
	0700				1600				0700				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·1	0·7	94	31	2·3	0·9	111	31	1·2	0·3	184	31	1·4	0·4	157	31	1·2	0·8	203	31	2·2	2·0	237
0·15 a.ground.	30	3·7	0·9	85	30	4·9	2·0	102	23	4·3	1·9	181	27	8·2	0·9	223	31	3·8	2·2	211	28	6·8	4·6	223
0·6 a. s. l.	30	5·8	1·0	98	31	5·1	2·4	118	22	4·5	1·9	206	22	5·2	1·3	243	31	4·1	1·8	230	28	7·7	5·7	233
1·0 „	25	6·7	1·7	83	26	6·5	3·5	117	16	5·0	1·4	222	18	5·3	1·4	265	27	4·8	0·9	212	27	8·7	5·3	228
1·5 „	19	5·4	0·9	77	25	6·4	3·4	107	13	5·8	1·5	269	15	5·5	1·0	275	24	5·1	0·5	185	15	5·5	2·4	220
2·0 „	17	5·6	0·3	142	23	6·3	3·4	103	7	5·3	1·8	300	12	5·8	1·1	33	15	5·7	0·9	181	6	5·1	3·5	170
2·5 „	12	5·4	2·0	78	21	5·9	3·9	103	6	5·5	2·4	315	11	5·6	1·4	37	14	6·0	0·6	164	3	5·0	1·7	111
3·0 „	11	5·1	2·4	68	16	5·1	3·5	107	4	2·5	1·2	295	9	4·8	2·1	73	12	5·7	0·4	102	1	6·0	6·0	65
4·0 „	4	4·9	1·5	128	12	5·7	3·5	102					7	4·4	1·8	68	9	5·5	2·5	116				
5·0 „	4	5·3	3·5	138	8	6·6	4·6	91					6	6·0	5·4	91	9	5·3	1·1	95				
6·0 „	1	5·0	5·0	200	6	5·8	5·7	93					3	7·2	6·6	95	3	4·3	3·2	160				
7·5 „					6	6·7	5·9	86					1	15·5	15·5	75	3	8·8	5·8	90				
9·0 „					1	8·0	8·0	60					1	14·5	14·5	90								

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

AUGUST 1947

eight in km.	JODHPUR								JUBBULPORE								MADHO SAGAR (Gwalior)							
	0700				1600				0700				1600				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	V	D	n	V	v	D
rface.	31	2·7	2·0	235	31	2·8	1·6	230	31	1·2	0·7	216	31	1·9	0·9	245	31	2·4	0·9	230	31	3·2	0·2	316
15 a. ground	31	6·2	4·8	230	28	5·2	3·3	213	25	4·5	2·6	233	23	4·8	2·7	255	26	5·2	2·1	249	26	5·4	0·3	6
6 a. s. l.	30	7·5	5·9	244	28	4·8	3·0	211	25	5·0	3·0	233	23	5·0	2·8	252	23	6·6	3·1	287	26	5·8	0·3	39
0 „	26	9·8	7·7	248	27	4·9	2·9	212	22	6·6	3·7	259	22	5·1	3·2	268	18	6·2	3·7	301	23	5·8	0·7	147
5 „	22	8·3	5·0	247	26	5·9	2·6	214	17	5·9	2·8	268	20	5·1	2·7	280	17	5·2	2·4	331	18	5·2	0·6	7
0 „	17	7·7	1·1	277	19	7·6	2·5	233	14	5·2	2·7	277	17	5·3	1·6	291	14	4·4	1·9	31	16	5·6	1·0	36
5 „	10	9·3	1·3	205	16	7·2	0·8	36	13	5·5	2·8	263	15	5·8	1·7	276	12	4·0	1·9	77	12	4·5	0·7	105
0 „	17	6·6	4·8	89	14	7·1	2·5	33	12	6·3	0·9	253	9	5·3	3·3	264	9	4·4	2·6	77	8	4·3	1·2	122
0 „	5	5·7	5·5	80	9	11·7	4·7	334	1	4·0	4·0	85	2	4·3	3·0	99	3	2·2	2·2	121	2	5·5	5·1	310
0 „	3	6·8	6·8	90	3	21·3	19·5	19					1	7·5	7·5	40	1	2·0	2·0	220	1	8·5	8·5	315
0 „	2	14·3	14·3	105	1	4·0	4·0	70																
5 „																								
0 „																								

eight in km.	MADRAS												MALEGAON											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
rface.	31	3·2	2·5	221	31	2·1	1·8	240	31	4·7	1·5	194	31	2·7	2·5	262	31	2·1	1·6	257	31	4·3	3·7	265
15 a. ground	28	8·0	6·3	232	31	6·5	5·7	245	30	6·6	2·5	202	30	6·5	6·0	265	28	6·1	5·1	259	30	7·6	6·6	269
6 a. s. l.	28	9·7	7·2	244	31	9·7	8·3	258	31	6·5	3·1	243	30	6·5	6·0	265	28	6·1	5·1	259	30	7·6	6·6	269
0 „	28	9·2	7·1	267	31	9·8	8·4	271	31	6·5	5·3	275	28	8·1	7·3	272	28	7·8	7·0	263	30	7·8	7·0	270
5 „	25	7·6	6·0	281	31	9·3	7·5	294	31	7·7	6·8	287	26	7·7	6·5	277	26	8·4	7·1	268	29	7·1	6·1	276
0 „	21	5·5	3·1	281	28	8·0	5·9	295	29	7·7	6·5	294	19	5·6	4·2	288	18	6·1	5·0	261	24	6·8	6·1	273
5 „	13	3·8	0·4	359	26	6·8	4·5	298	26	7·4	5·3	294	17	5·4	4·0	285	15	4·9	3·2	248	20	7·8	6·9	268
0 „	4	3·3	1·3	324	24	6·7	3·0	280	26	7·6	4·4	288	14	5·3	4·7	292	14	4·5	2·7	250	17	7·6	6·1	236
0 „	2	3·0	2·9	46	18	7·2	2·3	235	16	5·4	1·9	126	4	4·7	3·1	305	12	3·7	0·4	343	5	4·3	0·6	234
0 „					11	5·6	4·1	113	11	6·5	4·3	114					8	3·8	2·0	62	2	1·5	0·9	9
0 „					10	5·8	5·1	103	8	8·9	7·9	106					8	4·3	3·1	69	1	3·0	3·0	95
5 „					5	7·4	6·8	102	1	9·5	9·5	110					5	3·4	2·9	111	1	3·0	3·0	90
0 „					4	9·9	9·9	93									3	5·5	4·3	100	1	5·0	5·0	110

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

AUGUST 1947

Height in km.	MANGALORE												MASULIPATAM											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·4	1·4	306	31	2·4	0·3	277	31	3·8	3·2	266	31	2·3	1·8	240	31	1·4	1·1	259	31	2·6	1·4	240
0·15 a. ground.	20	5·3	3·9	280	29	5·0	2·3	282	29	6·8	6·2	273	28	8·5	6·7	233	29	6·6	5·0	250	30	5·8	3·2	240
0·6 a.s. l.	20	8·7	7·9	282	26	7·8	7·2	281	26	9·1	8·3	280	28	10·5	7·5	254	29	10·2	8·2	267	29	6·8	5·2	268
1·0 ,,	15	10·2	9·7	283	18	8·6	8·0	290	19	8·9	7·6	282	26	10·5	7·9	275	27	10·3	8·2	276	29	8·1	6·4	284
1·5 ,,	7	6·7	6·3	290	9	4·1	2·7	299	11	5·6	3·9	297	22	8·1	5·6	279	26	9·4	7·6	288	28	9·4	7·1	293
2·0 ,,	3	1·8	1·1	85	8	3·7	0·9	259	7	2·3	1·3	125	15	5·8	2·6	303	23	9·5	7·4	287	28	8·7	6·8	292
2·5 ,,	3	2·2	2·1	95	6	4·8	1·2	244	6	2·3	1·8	109	11	6·0	2·3	302	20	7·6	5·1	286	26	8·6	5·8	287
3·0 ,,	2	4·3	4·2	97	5	2·9	1·9	137	6	3·6	3·3	109	6	5·7	2·5	268	16	7·5	4·1	278	25	8·8	5·5	280
4·0 ,,					2	5·5	5·5	98	5	4·3	4·0	120	2	7·3	6·7	261	13	6·2	2·2	198	18	6·3	2·0	277
5·0 ,,					2	7·7	7·5	103	4	7·9	5·7	123					7	4·5	2·1	133	16	6·3	1·1	190
6·0 ,,					2	8·3	8·2	94	3	9·0	8·8	110					4	4·3	1·7	98	14	5·9	2·3	128
7·5 ,,									2	10·7	10·7	92					2	6·0	5·9	99	10	5·3	2·8	118
9·0 ,,									1	11·0	11·0	105					1	15·0	15·0	90	5	9·1	9·1	92

Height in km.	MINICOY								NAGERCOIL												NAGPUR			
	0700				1400				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	4·2	4·0	290	31	4·2	4·0	292	31	5·6	5·3	288	31	5·1	4·8	284	31	8·5	7·9	284	31	1·4	1·1	244
0·15 a. ground.	30	9·1	8·7	286	30	9·1	8·8	288	28	11·0	10·8	298	28	9·3	9·1	295	31	13·4	13·2	284	22	4·7	2·3	234
0·6 a. s. l.	30	13·7	13·2	290	29	13·8	13·5	288	27	16·1	15·9	301	28	17·3	16·9	301	31	15·4	15·1	295	22	5·3	2·7	247
1·0 ,,	29	15·8	15·6	292	28	15·2	14.9	290	26	16·3	16·1	300	27	17·0	16·7	299	31	15·2	14·8	298	22	5·8	3·6	289
1·5 ,,	26	14·8	14·5	295	25	14·4	14·1	292	26	15·6	14·7	291	27	15·4	15·0	295	31	15·1	14·6	297	15	5·1	3·1	295
2·0 ,,	23	12·8	12·6	289	20	12·4	12·1	288	23	11·9	11·4	286	26	13·4	12·8	288	28	15·0	14·1	292	11	4·5	2·7	282
2·5 ,,	22	11·2	10·7	283	14	9·3	8·9	283	16	8·7	6·7	282	24	9·7	8·9	284	26	11·6	10·7	284	1	7·0	7·0	260
3·0 ,,	19	9·7	9·2	278	12	8·3	8·0	278	11	5·3	2·4	297	22	7·5	5·8	284	23	9·1	7·6	280				
4·0 ,,	6	6·4	5·7	281	7	6·0	4·6	277	3	4·7	2·1	201	14	6·3	2·1	307	20	8·1	5·1	274				
5·0 ,,	4	9·2	6·3	281	2	8·0	6·9	64	1	5·5	5·5	170	10	5·3	1·5	129	12	5·8	2·0	263				
6·0 ,,	1	4·5	4·5	75	1	11·5	11·5	85					8	7·7	5·1	114	11	6·4	0·7	262				
7·5 ,,	1	11·0	11·0	90	1	14·0	14·0	80					6	8·3	8·1	97	6	9·0	5·2	103				
9·0 ,,					1	6·5	6·5	80					3	10·0	9·3	115	5	9·4	8·0	99				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

AUGUST 1947

ght in km.	NAGPUR								NEW DELHI												POONA			
	0700				1600				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
ace.	31	1·1	0·7	254	31	2·8	1·6	266	31	2·5	0·3	53	31	1·7	0·3	136	31	2·7	0·7	107	31	2·0	2·0	269
a. ground.	25	4·4	3·2	253	27	4·4	1·9	269	31	6·6	2·4	150	31	6·0	2·0	148	30	4·9	2·5	105	30	6·0	5·8	261
a. s. l.	25	5·5	3·8	262	27	4·7	3·0	281	31	7·4	2·7	170	30	7·5	1·3	160	30	5·1	2·5	89	30	4·4	4·3	257
,,	24	5·7	3·5	273	26	5·6	4·4	286	30	7·6	2·0	174	28	7·6	1·0	105	30	4·7	1·4	85	30	7·6	7·3	268
,,	20	5·8	3·8	287	24	6·0	5·0	292	21	6·2	2·5	131	27	6·6	1·9	79	26	4·3	0·8	354	22	8·3	7·7	268
,,	15	4·7	3·3	276	21	5·9	5·1	286	9	5·2	2·6	93	22	5·8	3·1	70	23	5·7	1·3	20	18	5·9	3·5	265
,,	12	5·1	3·9	287	14	5·6	4·3	291	2	6·0	2·5	116	10	5·7	3·5	73	13	5·9	1·3	275	15	4·5	2·2	207
,,	10	4·7	3·1	293	10	4·3	1·9	276					7	3·9	3·0	89	5	6·6	3·7	115	12	4·0	1·7	206
,,	6	2·8	1·0	120	3	2·6	1·8	229					1	1·5	1·5	165	2	5·5	5·4	128	5	3·5	2·2	270
,,	3	5·2	4·5	107													1	2·0	2·0	50				
,,	2	7·0	7·0	90													1	1·0	1·0	35				
,,																								
,,																								

ght in km.	POONA								PORT BLAIR								RAIPUR							
	0700				1600				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
face.	31	1·3	1·3	269	31	3·5	3·3	268	31	2·7	2·4	232	31	4·7	4·3	245	31	2·0	1·5	228	31	2·5	1·7	242
5a ground.	31	4·8	4·5	260	31	6·9	6·3	270	30	5·9	5·5	225	28	5·8	5·2	233	23	5·5	3·9	242	26	4·9	3·5	241
a. s. l.	31	2·8	2·6	260	31	4·9	4·4	270	30	7·9	7·3	231	26	6·8	6·5	238	22	5·7	3·7	246	26	5·5	3·7	254
,,	31	7·9	6·4	264	31	8·5	7·8	271	25	6·9	6·3	236	21	6·8	6·1	240	21	5·2	2·6	256	21	5·3	3·6	271
,,	23	8·4	6·4	263	30	9·2	8·6	267	20	5·5	4·6	231	13	5·2	4·4	245	14	4·7	2·2	275	18	5·2	2·9	285
,,	18	6·9	3·1	249	19	5·8	4·4	263	18	4·7	3.3	230	11	4·3	2·7	235	10	4·7	1·6	231	13	4·7	1·2	305
,,	16	6·1	1·7	222	14	5·6	3·3	257	18	4·1	2·7	237	6	2·7	1·7	103	6	6·1	2·9	243	10	5·3	2·0	304
,,	14	5·9	1·2	246	11	4·9	2·3	260	17	4·1	1·6	227	6	3·4	2·5	94	4	5·4	1·3	201	9	4·6	1·7	360
,,	10	4·8	2·9	89	7	4·0	2·2	141	10	4·3	1·6	118	4	4·6	3·8	67					1	3·0	3·0	180
,	8	4·9	2·3	126	7	4·1	3·6	150	8	4·3	4·0	97	3	6·0	5·5	81								
,,	4	3·9	1·9	107	6	6·5	6·1	137	8	5·6	5·3	93	2	5·5	4·9	60								
,,									4	7·5	7·3	86	2	6·5	6·3	101								
,,									3	9·2	8·9	112	1	11·0	11·0	120								

3DGob

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

AUGUST 1947

Height in km.	RAIPUR 1600				SAHARSA 0700				SAHARSA 1600				TEZPUR 0100				TEZPUR 0700				TEZPUR 1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	3·0	1·9	268	31	1·3	1·2	81	31	1·9	1·1	95	31	0·7	Calm	Calm	31	0·6	0·2	124	31	1·2	0·3	160
0·15 a. ground.	28	6·0	3·8	268	28	4·9	4·5	99	20	4·8	3·1	112	29	3·9	0·3	237	30	3·1	1·1	125	30	4·0	0·8	162
0·6 a. s. l.	28	6·7	4·3	266	25	7·0	6·2	114	29	5·9	4·2	105	27	4·6	1·2	255	30	3·7	0·6	151	30	3·6	1·0	164
1·0 „	25	6·7	4·3	269	20	8·4	7·5	106	26	6·2	4·5	114	25	3·8	0·9	248	25	4·8	0·6	157	30	3·9	1·2	154
1·5 „	19	6·0	3·7	271	16	9·7	9·1	100	21	6·2	4·2	115	25	4·1	1·5	235	21	4·4	0·9	103	27	4·1	1·6	158
2·0 „	11	6·2	3·1	269	13	8·7	7·7	103	16	6·5	4·2	118	23	4·9	2·2	238	19	4·1	1·0	103	26	4·6	1·8	176
2·5 „	4	5·5	2·8	233	8	4·1	2·6	108	12	6·3	2·7	109	20	5·4	2·6	236	16	4·0	0·9	78	25	4·4	2·2	169
3·0 „	3	5·2	1·5	239	6	4·2	1·7	100	11	5·6	3·1	104	18	6·9	3·5	215	11	4·6	2·2	122	23	4·4	1·7	161
4·0 „	2	2·5	2·3	23	5	6·1	0·9	6	6	6·0	2·5	125	7	3·1	1·6	170	7	3·9	0·7	154	21	3·9	1·1	96
5·0 „					3	2·2	0·4	302	6	5·7	5·1	104					4	3·0	2·1	223	19	4·8	2·6	91
6·0 „					1	2·5	2·5	75	5	6·4	4·9	88					3	5·8	1·0	61	17	4·5	1·7	60
7·5 „									2	9·3	8·8	95					2	5·0	2·8	2	9	5·2	2·7	59
9·0 „									2	8·7	7·4	74					2	1·3	0·9	112	5	6·1	3·7	47

Height in km.	TRICHINOPOLY 0100				TRICHINOPOLY 0700				TRICHINOPOLY 1600				TRIVANDRUM 0700				UDAIPUR 0100				UDAIPUR 0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	6·3	6·1	276	31	6·0	5·9	274	31	7·3	5·9	265	31	2·9	2·4	328	31	1·5	1·1	258	31	1·2	0·8	226
0·15 a. ground.	27	8·1	7·7	264	31	8·9	8·7	273	31	8·6	6·8	262	26	6·3	6·0	329	25	4·8	4·4	250	25	4·0	2·4	283
0·6 a. s. l.	27	10·4	10·1	269	31	11·7	11·3	274	31	8·4	6·8	264	24	11·2	10·7	310	25	5·8	5·1	251	25	5·6	4·2	253
1·0 „	27	9·8	8·8	268	31	11·1	10·6	273	31	8·7	7·6	268	14	12·5	12·0	311	24	6·4	5·2	258	24	5·5	3·6	266
1·5 „	27	8·1	6·7	268	31	9·7	8·7	270	31	9·3	8·6	271	13	11·0	10·4	307	21	5·7	3·1	283	16	4·0	0·8	3
2·0 „	24	5·4	3·8	280	30	8·0	6·4	271	31	10·2	9·0	275	11	8·6	7·5	305	15	4·2	2·6	38	11	4·9	3·7	7
2·5 „	21	3·9	1·6	286	26	7·4	4·9	279	22	8·3	6·6	273	9	8·4	6·3	310	10	5·7	4·4	50	6	6·1	4·2	2
3·0 „	18	4·1	0·6	283	23	6·0	2·5	288	20	7·3	4·9	276	9	7·9	4·4	307								
4·0 „	2	10·5	7·4	162	14	5·1	2·8	125	13	5·0	0·6	25	4	4·5	3·7	81								
5·0 „	1	9·0	9·0	115	12	6·5	5·0	100	8	5·6	5·3	89	4	5·7	5·5	100								
6·0 „					11	7·4	7·0	93	6	8·5	7·9	87	4	7·5	7·5	103								
7·5 „					7	8·9	8·6	99	3	9·0	9·0	97	1	15·0	15·0	85								
9·0 „					6	10·0	9·8	98	1	6·5	6·5	120												

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

AUGUST 1947

Height in km.	UDAIPUR				VENGURLA												VERAVAL							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·1	1·1	250	31	0·5	0·5	269	31	0·6	0·5	275	31	1·5	1·3	267	31	8·1	6·9	263	31	6·0	5·2	262
0·15 a. ground.	28	5·5	3·3	251	20	4·8	3·3	294	25	5·0	2·7	302	23	7·5	6·7	278	29	8·5	7·6	258	30	7·7	6·8	257
0·6 a. s. l.					18	6·6	5·3	304	24	7·8	5·7	307	21	8·1	7·3	285	28	9·2	8·5	258	28	9·3	8·5	261
1·0 ,,	28	5·1	3·2	253	11	5·3	4·7	316	17	7·9	6·1	316	15	7·2	5·9	297	23	7·8	6·9	257	21	8·3	7·6	258
1·5 ,,	25	5·5	2·7	268	9	4·6	1·9	293	10	5·2	2·5	17	9	4·5	0·9	321	17	7·1	5·6	251	18	7·2	5·5	236
2·0 ,,	21	5·1	2·0	266	5	3·1	1·3	208	7	6·3	3·7	108	6	3·8	2·6	111	11	5·7	3·4	257	10	4·7	3·0	181
2·5 ,,	19	5·1	2·0	248	2	3·0	1·3	276	3	5·8	4·9	126	3	3·5	3·1	117	5	4·7	2·7	262	6	4·0	3·6	170
3·0 ,,	15	4·4	1·4	258					3	6·7	5·8	105	2	3·5	3·3	129	4	3·9	2·8	263	6	3·7	3·3	151
4·0 ,,	2	6·0	1·8	351					2	7·5	7·5	96					3	2·0	0·8	28	5	3·5	2·9	108
5·0 ,,	1	2·5	2·5	70																	3	4·2	4·1	83
6·0 ,,																					2	8·3	8·3	86
7·5 ,,																					2	10·3	10·3	70
9·0 ,,																					1	11·5	11·5	80

Height in km.	VERAVAL				VIZAGAPATAM											
	1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	7·5	6·9	259	31	1·4	1·1	259	31	1·2	1·0	254	31	2·2	1·7	211
0·15 a. ground.	31	9·2	8·7	259	29	6·1	5·3	245	31	5·6	5·1	259	30	5·7	4·1	214
0·6 a. s. l.	29	10·5	9·9	258	29	7·3	6·5	244	31	8·1	6·9	256	30	6·3	4·5	248
1·0 ,,	26	9·6	9·0	259	27	7·0	6·0	259	31	7·6	6·0	269	28	6·9	4·8	269
1·5 ,,	22	7·6	6·7	256	23	6·4	4·3	289	31	8·0	5·3	281	27	7·2	5·0	298
2·0 ,,	18	6·8	5·4	249	18	6·5	3·8	294	30	8·8	5·3	291	27	8·0	5·1	294
2·5 ,,	17	7·1	6·0	243	13	5·5	3·3	283	25	7·6	5·0	283	26	8·3	4·7	284
3·0 ,,	14	6·7	5·1	236	9	4·8	2·5	275	24	7·1	4·1	272	24	7·5	3·1	273
4·0 ,,	12	5·1	2·5	212	1	3·0	3·0	25	18	5·4	6·1	221	22	7·3	1·8	237
5·0 ,,	9	4·3	1·2	132					15	5·4	2·2	132	16	7·0	1·3	150
6·0 ,,	9	6·1	3·6	76					10	7·7	5·2	95	13	6·5	3·1	122
7·5 ,,	7	7·0	5·3	66					5	7·4	6·8	117	8	6·2	5·1	87
9·0 ,,	7	9·6	8·8	80									8	8·8	8·3	98

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 km. above sea level

MINICOY 1947

Height in km.	APRIL								MAY								JUNE							
	0700				1400				0700				1400				0700				1400			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	2·6	2·2	292	30	3·2	2·7	309	31	1·9	1·5	301	31	2·6	2·1	304	30	4·1	3·7	274	30	4·9	4·7	279
0·15 a. ground.	28	5·7	4·4	286	30	5·7	4·7	308	29	4·2	3·5	301	30	4·9	4·2	305	30	8·9	8·1	274	29	9·4	9·0	278
0·6 a. s. l.	28	5·8	4·6	285	30	6·6	5·3	304	29	4·1	3·4	300	30	4·8	4·2	310	30	10·8	10·2	277	29	11·1	10·7	280
1·0 ,,	28	5·7	4·3	283	30	6·1	4·6	304	29	3·8	2·7	300	30	3·9	3·1	310	30	11·8	11·4	281	29	12·6	12·2	285
1·5 ,,	27	4·2	1·8	286	28	5·4	2·6	309	26	3·3	1·1	331	29	3·8	1·7	328	29	11·5	11·3	283	28	11·3	11·1	286
2·0 ,,	24	4·8	0·6	107	27	5·8	1·1	346	26	4·5	1·8	60	25	4·7	2·4	50	29	10·5	10·1	280	25	11·2	11·0	284
2·5 ,,	23	5·9	2·6	100	25	6·7	1·3	36	23	6·6	4·9	67	21	6·4	5·4	70	27	9·8	9·2	281	20	10·3	9·7	283
3·0 ,,	22	5·8	2·4	96	23	5·6	0·4	87	20	7·7	6·7	72	21	7·9	6·8	72	23	9·9	8·6	284	15	8·6	8·1	282
4·0 ,,	18	4·9	1·4	126	21	4·9	0·7	157	19	6·5	5·7	75	19	6·6	4·2	62	14	9·5	8·2	279	7	10·4	9·4	273
5·0 ,,	17	6·0	3·9	93	19	5·3	2·9	87	18	5·7	3·7	67	17	5·1	2·7	76	9	7·3	6·8	271	5	7·0	5·9	273
6·0 ,,	15	6·5	4·9	91	13	5·7	2·8	79	17	6·1	3·1	77	11	5·2	1·6	65	6	6·1	4·4	284	4	4·0	3·9	265
7·5 ,,	10	5·2	4·0	43	11	5·0	1·3	58	13	5·3	1·9	59	8	5·4	1·2	43	1	1·0	1·0	30	1	7·5	7·5	255
9·0 ,,	6	5·5	4·9	66	7	5·6	3·2	79	10	6·1	0·3	288	4	6·3	3·3	269	1	4·5	4·5	100	1	5·5	5·5	265

Height in km.	JULY																							
	0700				1400																			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
Surface.	31	3·7	3·4	269	31	4·1	3·8	272																
0·15 a. ground.	29	8·7	7·9	268	29	8·5	7·8	265																
0·6 a. s. l.	29	11·3	10·5	270	29	10·7	9·9	270																
1·0 ,,	29	12·8	12·1	279	28	12·7	11·9	279																
1·5 ,,	29	13·2	12·6	285	24	13·9	12·8	284																
2·0 ,,	29	11·8	11·3	285	24	12·1	11·6	285																
2·5 ,,	28	11·2	10·7	281	21	11·5	11·2	280																
3·0 ,,	20	10·5	9·9	275	15	10·0	9·4	275																
4·0 ,,	10	7·7	5·9	258	7	8·7	6·9	253																
5·0 ,,	6	6·0	1·4	210	2	3·0	2·7	119																
6·0 ,,	4	8·1	2·9	271	1	9·0	9·0	90																
7·5 ,,	3	4·5	2·6	269																				
9·0 ,,	2	7·0	6·3	237																				

Table B—Monthly mean directions and velocities of upper winds

Winds above 9 km. above sea level

AUGUST 1947

Ht. in kms. A.S.L.	n	V	v	D
		AMBALA		
10	1	8·5	8·5	255
11	1	7·0	7·0	220
12	1	11·0	11·0	200
13	1	13·0	13·0	220
14	1	13·5	13·5	220
15	1	13·0	13·0	230
		ANANTAPUR		
10	1	21·0	21·0	110
11	1	26·5	26·5	115
		COOCH BEHAR		
10	3	3·3	1·9	124
11	2	2·7	1·7	203
12	2	4·3	2·9	285
13	1	4·5	4·5	5
14	1	7·0	7·0	355
15	1	10·0	10·0	360
16	1	10·5	10·5	350
17	1	12·0	12·0	355
18	1	17·0	17·0	10
19	1	15·5	15·5	5
20	1	17·0	17·0	360
		GOPALPUR		
10	2	13·7	13·7	78
11	2	16·7	16·7	80
12	1	20·5	20·5	80
		JAMSHEDPUR		
10	1	5·5	5·5	40
		MALEGAON		
10	1	4·5	4·5	85
		MASULIPATAM		
10	4	10·1	9·9	96
11	4	1·	1·	92
		MINICOY		
10	1	3·5	3·5	105

Ht. in kms. A.S.L.	n	V	v	D
		NAGERCOIL		
10	3	13·8	12·4	108
11	3	16·0	14·7	117
12	2	17·0	15·1	124
13	2	22·3	21·8	112
14	1	34·0	34·0	85
		PORT BLAIR		
10	1	11·5	11·5	100
		SAHARSA		
10	1	6·5	6·5	20
		TEZPUR		
10	4	4·6	2·3	337
11	2	6·5	6·3	329
12	2	6·3	5·9	338
13	2	9·0	7·9	11
14	2	10·3	9·9	17
15	2	11·0	10·0	9
16	1	19·0	19·0	25
17	1	22·5	22·5	40
18	1	21·0	21·0	40
19	1	23·5	23·5	45
20	1	30·0	30·0	40
		VERAVAL		
10	1	7·5	7·5	75
11	1	17·0	17·0	85
12	1	20·5	20·5	90
13	1	25·5	25·5	90
14	1	36·0	36·0	85
		VIZAGAPATAM		
10	6	10·8	10·3	92
11	4	11·5	11·4	90
12	4	13·8	13·5	92
13	4	22·1	19·1	89
14	3	22·7	22·7	72

Ht. in kms. A.S.L.	n	V	v	D
		MINICOY 1947		
		APRIL		
10	6	6·7	5·8	93
11	1	8·0	8·0	125
12	1	16·0	16·0	100
13	1	19·0	19·0	90
14	1	22·0	22·0	90
15	1	23·0	23·0	90
16	1	15·5	15·5	105
		MAY		
10·0	3	9·7	6·3	282
11·0	2	11·0	5·8	187
12·0	2	8·3	6·3	180
13·0	1	9·5	9·5	125
14·0	1	4·0	4·0	195
		JULY		
10·0	1	9·5	9·5	330

Ht. in kms. A.S.L.	n	V	v	D

H33DGOb—325—5-10-52—GIPS

Registered No. B—3097.

INDIA WEATHER REVIEW, 1947

Monthly Weather Report

September.

LIBRARY
MAY 1 1953
WEATHER BUREAU

Published by authority of the Government of India

Chief features.—(1) Excess of rainfall generally over the country ; (2) two depressions in the Bay of Bengal and one in the Arabian Sea.

The cyclonic storm which was over Cutch at the end of August weakened *in situ* by the 1st September and passed rapidly northeastwards as a low pressure wave. It was responsible for the extension of the monsoon into Sind and the west Punjab. A depression formed in the north Bay on the 1st and moved into south Bengal by the next morning. It gave some locally heavy rain there, Calcutta recording 9″ between 2 A. M. and 5 P. M. of the 2nd September. The depression then moved westnorthwestwards upto Gwalior by the 6th. . After persisting there for two days, it curved towards northeast and moved to the east United Provinces where it filled up by the 12th. Under the influence of this depression, the monsoon continued active to strong over the belt of the country from the north Konkan and Gujarat to Bengal and Assam during the first ten days of September. Locally heavy rain occurred in east Rajputana, west Central India and the west United Provinces. Widespread rain continued to fall in the belt of the country from the United Provinces and the Central Provinces to northeast India till the 17th.

In the beginning of the second week very heavy rain fell in southeast Bengal in association with a low pressure area which moved from the northeast Bay into Burma across the Arakan.

Only scattered showers occurred in the south Deccan and the Madras Presidency during the first half of September. But during the second half considerable amount of rain fell over these regions in association with two low pressure areas which moved westwards across the Peninsula. The first of these started from the west Central Bay, crossed into the Peninsula on the 18th and moving across the Deccan emerged into the east Central Arabian Sea off the north Konkan, on the 22nd. Intensifying into a deep depression, it moved into the Gulf of Cambay and crossed the coast near Surat. Thereafter, it weakened rapidly but continued to move northeastwards until it filled up over the east Punjab on the 27th. In association with this, widespread rain fell in the whole of the Peninsula between the 20th and 24th and in east Gujarat, east Rajputana, west Central India, the east Punjab and the west United Provinces between the 20th and 22nd. Rainfall was locally heavy in the north Bombay Deccan and the north Konkan and very heavy in the east Punjab and the hills of the west United Provinces. The heavy rains in the Punjab resulted in serious floods in all the rivers of the Province, which paralysed all means of transport and communication and caused considerable hardship to the stranded refugees. The second depression, which was deep, from the Central Bay crossed the coast near Vizagapatam on the 26th and moving across Hyderabad to the north Bombay Deccan became unimportant there by the 30th. It was responsible for widespread and locally heavy rain along the Circars coast, in Hyderabad and the north Bombay Deccan.

The monsoon withdrew from northwest India and the central parts of the country after the 27th and from the Peninsula by the 30th on which date it was confined to the eastern divisions of northeast India.

The total rainfall of the month was in moderate to large excess in Chota Nagpur, the west United Provinces, Rajputana, Gujarat, Central India, Berar, the west Central Provinces, the Konkan, Malabar and the Madras Deccan and in slight excess in the Bay Islands, Assam, west Bengal, the east United Provinces, the east Central Provinces, Hyderabad, southeast Madras and the north Madras coast. Elsewhere it was normal except in Orissa where it was in moderate defect. Averaged over the plains of India, the rainfall for the month was 43% in excess.

The maximum temperature was below normal in the west United Provinces, east Rajputana, Gujarat, west Central India, Berar, the west Central Provinces, Mysore and the Madras Deccan. Minimum temperature was normal everywhere. Relative humidity was in excess in the west United Provinces, Rajputana, Gujarat and west Central India and normal elsewhere. Cloud amount was in excess in west Bengal, the United Provinces, Rajputana, Gujarat, Central India, the Central Provinces, north Hyderabad, Malabar and sotheast Madras.

Data from the East Punjab and Kashmir are absent

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 12 chief political divisions and the 25 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

N.B.—The Indian Standard Time used in this publication is 5 hours 30 minutes in advance of G. M. T.

POONA 5,
The 28th November, 1947.

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

—	Rainfall.				Departure from normal of				
							8 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.	"	"	"		°	°	Mbs.	%	
am ..	12·31	10·32	+1·99	+19	+0·4	+1·4	+0·7	0	+0·9
st Bengal ..	12·43	10·36	+2·07	+20	—0·1	+0·6	+0·4	+1	+1·4
ssa ..	5·80	8·60	—2·80	—33	+0·9	+0·8	+0·6	—1	+0·9
ar ..	8·89	8·50	+0·39	+5	+0·6	+0·7	+1·2	+1	+0·8
ed Provinces	12·11	7·05	+5·06	+72	—1·4	+1·7	+3·1	+6	+1·9
t Punjab ..	9·91	4·97	+4·94	+99	—4·5	+1·5	+4·8	+14	+3·5
jputana ..	8·06	2·62	+5·44	+2·08	—3·4	+0·8	+3·0	+10	+2·3

—	Rainfall.				Departure from normal of				
							8 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.*	"	"	"		°	°	Mbs.	%	
8. Bombay ..	9·01	5·73	+3·28	+57	—1·9	+0·8	+1·2	+5	+1·1
9. Central India ..	14·12	7·58	+6·54	+86	—2·1	+0·9	+1·8	+7	+2·4
10. Central Provinces and Berar.	11·10	8·12	+2·98	+37	—1·7	+0·7	+1·1	+4	+2·1
11. Hyderabad ..	8·85	7·46	+1·39	+19	—1·6	+0·8	+0·6	+4	+1·0
12. Mysore ..	5·91	5·91	0	0	—2·7	+0·7	+0·4	+4	+1·3
13. Madras ..	7·18	5·33	+1·85	+35	—1·6	0	+0·4	+3	+1·5
Mean of India	9·53	6·56	+2·97	+45	—1·7	+0·8	+1·6	+5	+1·7

Division									
y Islands ..	21·29	17·40	+3·89	+22	+1·1	+0·7	+0·4	+2	+1·0
sam ..	12·31	10·32	+1·99	+19	+0·4	+1·4	+0·7	0	+0·9
ngal ..	12·43	10·36	+2·07	+20	—0·1	+0·6	+0·4	+1	+1·4
issa ..	5·80	8·60	—2·80	—33	+0·9	+0·8	+0·6	—1	+0·9
ota Nagpur	10·37	7·87	+2·50	+32	+0·5	+0·6	+1·1	+1	+1·1
har ..	8·23	8·79	—0·56	—6	+0·7	+0·7	+1·3	+1	+0·6
ited Provces, East.	8·58	7·69	+0·89	+12	—0·4	+1·8	+2·5	+8	+1·3
ited Provces, West.	15·64	6·40	+9·24	+144	—2·6	+1·6	+3·8	+10	+2·7
st Punjab,	9·91	4·97	+4·94	+99	—4·5	+1·5	+4·8	+14	+3·5
shmir ..		data incomplete							
jputana, st.	2·60	1·10	+1·50	+136	—1·5	+1·6	+3·3	+8	+1·0
jputana, st.	13·52	4·14	+9·38	+227	—4·9	+0·3	+2·8	+12	+2·6
jarat ..	8·35	3·81	+4·54	+119	—2·8	+0·9	+1·7	+7	+2·0

—	Rainfall.				Departure from normal of				
							8 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
Sub-Division—*contd.*									
14. Central India, West.	16·86	7·81	+9·05	+116	—2·9	+0·9	+1·5	+8	+3·1
15. Central India, East.	10·47	7·28	+3·19	+44	—0·9	+1·0	+2·2	+5	+1·4
16. Berar ..	11·33	5·92	+5·41	+91	—2·1	+0·7	+0·9	+3	+0·9
17. Central Provinces, West.	10·52	7·78	+2·74	+35	—2·2	+0·7	+1·4	+5	+2·8
18. Central Provinces, East.	11·71	9·42	+2·29	+24	—1·0	+0·8	+0·7	+4	+1·9
19. Konkan ..	17·43	10·52	+6·91	+66	—0·2	+0·4	+0·4	+1	+0·6
20. Bombay Deccan ..	5·92	5·52	+0·40	+7	—1·5	+0·8	+1·0	+4	+0·3
21. Hyderabad, North.	9·46	8·05	+1·41	+18	—1·7	+0·8	—0·7	+3	+1·2
22. Hyderabad, South.	8·03	6·67	+1·36	+20	—1·5	+0·2	+0·5	+5	+0·9
23. Mysore ..	5·91	5·91	0	0	—2·7	+0·7	+0·4	+4	+1·3
24. Malabar ..	13·95	7·65	+6·30	+82	—0·4	—0·4	+0·5	+4	+2·0
25. Madras, South-east.	4·59	3·95	+0·64	+16	—1·4	+0·1	+0·2	+2	+2·0
26. Madras, Deccan.	7·34	5·49	+1·85	+43	—3·9	—0·8	+1·0	+5	+1·1
27. Madras Coast, North.	6·84	6·09	+0·75	+12	—1·1	+0·4	+0·3	0	+0·4

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 humid %		
		Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I.S. T.	Departure from normal.	Mean 17 hrs.
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 ..	361	1000·8	+0·3	998·2	84·2	+1·1	87	10,13,30	74·5	+0·7	72	28,29	79·3	78·0	76·8	75·9	30·3	+0·4	29·7	88	+2	
Assam																						
Dibrugarh * ..	348																					
Sibsagar ..	317	996·4	—0·5	992·3	88·6	+1·0	97	2	16·7	+0·5	72	29	81·0	84·4	78·6	79·8	32·3	+0·9	32·7	90	0	
Teapur ..	258	998·7	—0·4	994·3	90·2	+1·4	96	2	77·0	+0·5	75	5 days	86·5	84·7	78·2	79·8	31·8	+0·7	32·2	90	+1	
Gauhati ..	182	1000·6	—0·3	996·5	89·3	—0·1	95	2	77·1	+0·9	74	16·30	82·3	83·8	79·2	79·4	32·7	+1·6	32·2	86	+1	
Dhubri ..	115	1002·1	—1·1	999·0	86·0	+0·3	93	2	77·3	0	73	22	79·7	84·1	78·2	80·0	32·3	+0·9	33·1	94	+6	
Silchar ..	96	1004·4	—0·2	1000·3	87·8	—1·9	95	23	76·2	0	71	26	79·6	83·9	77·6	79·5	31·3	—0·2	32·4	92	+5	
West Bengal																						
Dum Dum ..	33	1004·6	..	1001·3	89.5	..	93	17	79·0	..	74	10	83·5	84·7	79·0	79·5	31·8	..	32·1	81	..	
Calcutta ..	21	1005.0	—0·2	1001·6	90·7	+0·8	96	17	79·6	+1·6	76	9	82·2	85·1	79·9	80·4	33·7	+1·1	33·4	90	+4	
Saugor Island ..	10	1004·7	—0·5	1002·2	86·9	—0·8	89	4 days	80·9	+1·4	77	4 days	83.4	84·3	79·9	79·9	33·3	+0·4	32·8	84	0	
Sandheads†	28																					
Midnapore ..	149	1000·3	—0·3	997·1	90·4	+0·7	93	1,17	78·7	+0·6	76	2	82.3	85·2	79·3	79·9	32·8	+1·1	32·5	87	+2	
Burdwan ..	106	1002·1	—0·1	998·6	89·4	—0·6	93	17,18,19	79·1	+0·5	75	9	83·0	85·6	79·4	79·7	32·7	+0·4	31·9	85	—1	
Krishnagar ..	48	1004·2	+0·1	1001·0	90·9	+0·8	96	17	78·1	+0·1	74	9	83·1	85·3	80·3	80·4	34·0	+1·1	33·1	88	+4	
Asansol ..	414	991·2	—0·1	987·9	88·5	—1·4	95	18	77·2	+0·2	73	19	82·0	84·7	78·6	79·2	31·8	—0·1	31·6	85	—1	
Berhampore ..	62	1003.2	—0·8	999·9	91·0	+1·4	102	18	78·2	—0	74	9,24	83·6	84·3	79·9	80·1	33·3	+0·4	33·3	84	—1	
Malda ..	103	1002·4	0	993·9	87·9	—1·1	93	18	78·5	+0·2	74	14	82·6	85·1	79·2	79·8	32·5	—0·3	32·2	86	+2	
Jalpaiguri ..	271	997·2	—0·4	993·6	87·5	—0·6	95	23	76·4	+0·5	74	29,30	79·0	84·2	76·9	79·1	30·7	—0·2	31·7	91	+1	
Orissa																						
Balasore ..	65	1003·3	0	1000·2	89·2	+0·4	92	8,10	79·1	+1·1	75	10,24	83·6	83·9	79·9	79·5	33·3	+1·0	32·3	84	—2	
Chandbali ..	20	1004·9	+0·3	1001·9	90·6	+1·8	95	18	78·9	+0·6	..	23	83·4	85·1	79·5	79·9	32·6	+0·2	32·6	84	—2	
Puri ..	20	1004·9	0	1001·9	89·4	+0·8	93	10	81·1	+1·4	77	19,22	84·2	85·8	79·8	80·5	33·8	+1·5	33·1	82	—1	
Gopalpur ..	56	1003·7	—0·1	1000·6	88·7	+0·1	93	2,19	79·1	+0·7	76	22	82·9	84·9	78·9	80·1	33·1	+1·2	32·8	83	—1	
Cuttack ..	87	1002·4	—0·5	999·3	91·2	+1·2	95	18	78·8	+1·0	76	10	82·3	85·2	78·8	79·3	32·0	+0·9	31·5	84	+1	
Angul ..	455	990·1	+0·1	986·1	89·7	+0·9	93	4 days	77·6	+1·1	75	18	81·7	84·0	77·3	77·8	30·0	—0·3	29·8	81	—4	
Sambalpur ..	486	988·8	—0·4	985·3	89·0	+0·3	93	17	77·1	+0·2	74	19	80·3	85·0	77·2	78·8	30·5	+0·3	30·9	87	+2	

*Date rejected
†Data not available for a complete month.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I.S.T.									17 hrs. I.S.T.									
Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
8·7	+1·0	9·4	21·29	+3·89	3·19	23	23	+1·1	9·2	—1·2	0	0	0	0	1	12	14	2	1	0	0	0	0	1	13	13	2	1	Port Blair.
																													Assam
																													Dibrugarh*
8·8	+0·4	7·6	17·90	+6·07	2·15	20	17	+2·2	2·3	+0·5	1	6	5	1	5	5	0	1	6	3	5	3	2	3	6	1	1	6	Sibsagar
7·0	—0·3	4·9	6 27	—0·01	1·48	11	16	+3·3	1·1	—0·3	0	2	15	2	2	0	0	0	9	0	0	12	0	0	1	1	0	16	Tezpur.
7·8	+1·0	7·4	6·74	+0·15	2·74	6	10	+0·7	2·2	+0·9	3	7	4	3	2	3	1	4	3	0	4	3	2	1	10	1	3	6	Gauhati.
7·8	+1·3	7·5	14·25	+0·23	2·43	30	16	+3·5	3·8	+0·5	1	1	7	1	4	4	5	0	7	1	3	5	8	1	5	0	0	7	Dhubri.
8·8	+1·5	7·6	18·12	+2·80	2·75	23	22	+5·8	1·1	—0·2	2	7	4	3	1	2	2	2	7	2	1	0	2	0	6	10	2	7	Silchar.
																													West Bengal
8·0	..	8·6	11·30	..	2·45	2	15	..	..	..	0	1	7	3	9	4	1	1	4	1	1	2	7	11	4	0	0	4	Dum Dum.
7·9	+0·8	8·9	14·00	+4·05	5·73	3	9	—4·2	2·5	—0·3	0	2	5	2	7	8	0	0	6	0	0	2	5	5	10	1	0	7	Calcutta.
7·4	—0·2	7·4	9·20	—1·15	5·46	2	8	—4·9	11·4	+3·0	0	2	2	5	5	12	2	0	2	1	0	1	5	9	14	0	0	0	Saugor Island.
																													Sandheads.†
8·7	+3·1	8·7	11·19	+2·68	3·05	2	12	+0·1	2·8	+0·9	0	2	3	6	6	9	0	1	3	1	2	0	4	13	3	0	1	6	Midnapore.
7·1	+0·4	7·9	9·10	+0·30	2·92	9	9	—2·3	4·0	+2·2	1	1	11	2	1	9	3	1	1	0	0	9	5	7	3	1	2	3	Burdwan.
7·7	+1·0	8·9	8·66	+0·70	1·90	8	11	—0·2	2·8	0	0	4	2	9	11	1	0	0	3	1	0	2	9	7	2	0	0	9	Krishnagar.
7·8	+1·3	8·0	14·91	+6·66	3·69	19	14	+3·3	3 2	—0·8	0	1	2	10	7	1	2	0	7	1	1	2	12	4	0	0	1	9	Asansol
7·9	+1·1	8·0	13·74	+4·60	3·13	8	16	+4·5	1·6	—0·9	0	0	9	3	10	1	0	0	7	1	0	6	1	7	0	0	0	15	Berhampore.
7·8	+2·6	6·8	16·33	+4·81	3·87	13	11	—0·6	3·8	—0·1	0	3	5	7	7	2	1	1	4	0	4	6	6	6	1	0	1	6	Malda.
8·3	+2·8	7·9	17·76	—3 46	2·13	30	17	+0·6	3·0	+1·5	5	7	7	5	1	0	0	1	4	1	4	7	2	7	3	4	0	2	Jalpaiguri.
																													Orissa
9·2	+2·7	9·1	9·91	—1·15	2·18	3,10	13	+0·1	4·3	+1·8	0	5	1	1	7	10	0	0	6	0	0	1	10	9	5	0	0	5	Balasore
(C) 6·9	+0·2	(C) 6·7	5·34	—3·58	1·39	24	11	—3·1	(C) 5·1	0	3	2	2	2	5	5	3	0	6	1	0	2	14	7	1	3	0	0	Chandbali.
6·7	+0·8	6·9	5·92	—3·13	1·72	1	10	—2·1	12 1	+4·0	0	4	5	1	3	13	4	0	0	0	1	1	7	11	9	1	0	0	Puri.
7·4	+2·2	7·2	6·13	—1·35	1·71	26	8	—1·5	10·0	+3·5	7	1	0	1	2	8	1	2	8	1	1	3	7	10	8	0	0	0	Gopalpur.
6.8	+0·5	7·4	5·39	—4·37	0·95	10,27	12	—0·6	3·2	+1·4	0	5	2	0	2	2	5	1	13	0	0	2	6	4	6	3	1	8	Cuttack.
8·9	+0·1	7·8	6·47	—0·88	1·48	18	11	—0·2	4·3	+0·5	0	2	3	2	2	2	2	1	16	0	1	4	7	10	1	5	2	0	Angul.
8·2	+1·9	9·6	5·57	—3·48	1·55	19	12	+0·6	4·1	+1·3	0	7	3	1	6	6	0	1	6	2	4	2	1	3	16	1	0	7	Sambalpur.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
Chota Nagpur																						
Jamshedpur ..	423	990·7	—0·1	987·4	89·8	—0·1	93	7,18,19	78·1	+0·5	75	4	81·9	84·6	77·8	77·1	30·7	+0·3	31·4	83	—1	78
Chaibasa ..	742	979·9	—0·1	976·5	90·2	+0·9	94	17	76·8	+0·8	74	17	80·0	84·6	77·2	78·4	30·7	+1·2	30·4	88	+4	75
Ranchi ..	2,150	933·2	—0·3	930·4	85·2	+1·1	93	24	72·0	+0·1	70	19	76·2	78·9	73·6	74·6	26·9	+1·1	27·1	88	+4	82
Hazaribagh ..	2,006	938·0	- 0·2	935·1	85·9	+1·2	89	13,30	72·8	+0·5	70	19	77·3	80·1	74·1	75·2	27·2	+1·3	27·4	86	+2	80
Daltenganj ..	725	980·1	—0·7	976·5	89·7	0	94	30	76·3	+0·9	74	7,15 20	82·3	83·8	77·6	78·2	30·3	+1·6	30·5	80	—2	78
Dhanbad ..	839	976·2	..	..	86·0	..	91	17,18,19	74·8	..	70	19	80·1	..	77·6	..	31·2	..	..	89	..	..
Bihar																						
Purnea ..	124	1001·6	—0·3	998·1	90·1	+1·1	96	19	78·2	+0·8	72	29	83·1	85·1	79·7	80·5	33·1	+0·7	33·5	86	—2	81
Darbhanga ..	161	1000·0	—0·3	996·5	91·3	+2·1	95	27,29	79·0	+0·5	75	30	83·3	86·4	80·1	80·9	33·7	+2·6	33·5	86	+6	79
Motihari ..	218	998·8	—0·1	994·3	..	..	..	..	78·3	+1·3	74	14	81·0	84·6	80·0	80·2	33·1	+1·4	33·1	83	0	83
Patna ..	173	999·0	—0·6	995·7	90·3	+0·6	95	2	80·2	+1·3	76	6,14	84·5	86·1	80·0	79·6	32·9	+0·9	31·6	82	0	75
Dehri ..	352	992·4	..	988·9	89·8	..	93	2,29,30	78·8	..	74	15	83·1	85·6	79·2	79·4	32·7	..	31·6	84	..	75
Gaya ..	365	992·0	—0·7	988·6	91·0	+0·5	94	26,2 ,30	79·0	+1·9	75	15	83·3	87·2	78·7	79·7	31·5	+1·2	31·2	82	+4	71
Naya Dumka ..	489	983·0	—0·3	934·9	88·6	—0·5	93	17,19	77·1	+0·4	75	4 days	81·3	84·0	78·4	79·2	31·8	+0·9	31·8	86	+2	79
Sabour ..	122	1001·3	+0·4	997·7	89·3	0	96	23	79·0	+0·7	74	13	83·2	85·4	80·1	80·6	33·7	+1·2	33·4	87	+1	81
U.P. East																						
Gonda ..	360	992·8	..	989·1	90·2	—0·9	95	4	78·5	+1·4	74	14	82·1	85·5	79·1	80·0	32·6	+1·7	32·0	87	+3	75
Gorakhpur ..	254	995·7	—1·1	992·4	91·3	+0·9	95	19,20 27	79·6	+2·4	76	14,15	83·1	87·5	79·5	80·7	32·9	+1·8	33·0	85	+1	73
Benares ..	250	995·7	—0·9	992·5	91·7	+0·7	97	30	79·3	+2·0	76	15	83·3	87·0	80·1	80·1	33·7	+3·0	32·0	86	+3	74
Allahabad (Bamrauli)	322	992·8	—1·4	989·9	90·8	—0·7	96	30	78·5	+1·9	75	8	82·5	86·5	79·2	79·7	32·6	+2·2	31·5	86	+4	73
Fatehpur ..	375	991·3	..	987·9	90·1	—1·0	97	30	78·0	+1·3	75	4 days	82·4	86·0	79·6	80·6	33·2	+2·3	33·3	82	—2	79
Cawnpore ..	414	990·1	—0·8	986·9	90·3	—0·6	96	3	78·1	+1·9	75	8,9,24	81·8	85·6	79·3	80·1	33·1	+3·5	32·1	89	+4	78
Lucknow ..	371	991·6	—0·8	988·4	90·3	—1·6	95	29	78·4	+1·9	74	21	81·3	85·6	79·5	80·7	33·5	+3·5	33·4	91	+9	81
Bahraich ..	407	999·0	—1·2	987·8	91·0	—0·2	98	4	78·3	+1·5	74	24	82·8	85·3	79·0	81·9	32·1	+2·3	35·7	84	+3	74
U.P. West																						
Jhansi	824	975·7	—1·9	973·2	87·0	—4·7	91	6days	75·6	—0·2	73	8,9,24	77·9	83·6	76·3	78·6	30·4	+3·1	31·6	93	+16	80
Agra	553	985·2	—1·0	982·5	84·4	—3·5	96	5	77·9	+1·7	74	23,24	79·9	86·1	77·5	80·3	31·4	+4·1	32·6	90	+12	76
Mainpuri ..	516	985·9	—1·5	983·5	90·4	—2·5	98	3	78·4	+2·8	75	4days	81·2	85·6	78·7	80·4	33·5	+5·5	33·1	90	+11	81
Aligarh	615	982·9	..	980·2	90·3	—2·0	98	3,4	77·6	+1·7	74	22,23	80·3	87·9	78·1	79·9	31·9	+5·2	31·6	91	+17	73
Bareilly ..	568	984·8	—1·1	981·5	90·5	—0·4	96	2,4,5	77·6	+1·9	73	28	81·7	85·9	78·7	79·6	32·1	+3·3	31·7	88	+5	76
Roorkee	899	973·5	—1·2	970·3	87·6	—2·9	96	4	75·1	+2·0	74	26	78·4	84·4	75·6	78·4	29·0	+2·5	30·4	87	+5	76
Dehra Dun ..	2,239	930·1	—0·4	987·7	83·0	—1·9	89	4 days	70·6	+1·1	63	28	74·9	79·9	72·4	75·1	26·2	+2·7	28·0	89	+6	81
East Punjab																						
New Delhi ..	714	979·2	—1·6	976·3	90·4	—3·1	99	1,2,3	77·2	+1·7	71	29	80·1	86·6	77·1	78·4	30·3	+4·4	29·5	87	+1 3	69
Hissar (J) ..	725	979·2	..	977·9	94·0	..	..	..	77·3	..	..	..	79·7	83·9	78·1	80·6	32·2	..	34·4	94	..	90
Ambala ..	892	973·6	—1·1	971·2	88·0	—6·0	98	2,3	75·3	+1·4	71	5days	77·7	84·7	76·7	79·3	31·0	+5·2	32·2	92	+15	78
Ludhiana (K) ..	812	997·9	..	975·4	88·0	..	..	..	74·9	..	..	..	76·8	84·2	75·4	78·0	29·9	..	30·1	93	..	77

(J) Observations for 21 days.

Cloud amount. (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more.)		Wind velocity. miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.									
Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
																													Chota Nagpur
7·3	+0·2	8·7	9·49	+2·38	3·43	3	13	+1·8	3·7	+0·6	0	1	8	2	1	5	8	2	3	0	4	11	4	1	1	4	1	4	Jamshedpur.
8·9	+2·5	9·5	11·31	+3·39	3·92	4	10	—1·6	1·6	0	1	2	1	2	3	7	4	2	8	0	4	0	6	3	7	1	0	9	Chaibasa.
6·6	+0·2	7·6	6·66	—2·64	2·05	3	7	—5·3	..	..	2	0	3	0	8	0	1	0	16	1	0	2	3	3	0	0	0	21	Ranchi.
7·3	+0 3	7 9	7·24	—1 70	2·85	4	9	—2·5	4·7	—0·6	0	1	1	6	6	6	2	3	5	1	1	4	8	6	1	1	4	4	Hazaribagh
6·2	+1·8	7·9	14·02	+6·88	5·86	4	14	+4·7	2·7	—0·1	0	2	8	1	0	1	8	0	10	0	1	10	1	3	0	3	5	7	Daltonganj.
..	..	..	12·17	..	3·06	3	15	..	4·0	..	1	2	9	4	5	5	3	0	1	.	.	.	.	.	.	.	.	.	Dhanbad.
																													Bihar
7·2	+1·3	6·4	12·83	+1·23	3·63	7	14	+2·5	2·2	+0·3	1	1	10	3	2	1	0	0	12	0	4	8	2	2	2	0	0	12	Purnea.
6·8	+0·9	6·7	3·88	—5·36	0·51	8	10	+0·6	3·1	+0·5	0	7	8	8	0	1	3	1	2	0	4	4	13	0	2	1	1	5	Darbhanga.
7·6	+2·7	6·6	8·63	—0·37	3·31	6	10	+0·9	2·4	—0·6	0	0	19	1	0	0	4	0	6	0	1	8	0	1	0	3	0	17	Motihari
6·6	+0·5	6·6	8·45	—0·15	3·98	6,8	8	—1·2	3·9	+0·6	0	5	12	2	1	3	3	1	3	0	5	10	5	1	0	2	1	6	Patna.
5·0	..	6·9	6·55	—0·84	1·90	7	9	+0·1	2·6	..	0	1	2	11	5	3	0	2	6	1	1	3	7	0	2	1	8	7	Dehri.
5·9	+1·3	7·6	6·72	—0·78	1·78	8	9	—0·3	3·8	—0·7	0	0	10	4	5	2	0	0	9	0	6	7	3	3	0	1	4	6	Gaya.
5·9	+0·2	5·9	14·02	+4·43	2·85	24	15	+2·5	3·7	+1·8	0	6	0	7	0	3	0	2	2	0	4	2	18	0	2	0	1	3	Naya Dumka.
7·3	+0·2	6·9	8·60	+0·24	2·50	6	14	+4·2	4·1	—0·4	0	1	7	11	5	5	1	0	1	0	3	12	8	1	1	2	3	0	Sabour.
																													U.P. East
5·7	+0·5	6·6	8·22	—0·92	3·55	14	8	—2·2	2·9	—0·2	1	0	20	2	1	0	2	0	4	0	0	16	4	2	1	4	0	3	Gonda.
6·0	+1·7	6·9	6·55	—1·97	1·65	14	12	+2·7	2·8	+1·1	1	7	8	5	1	1	2	0	5	0	8	6	4	1	3	1	2	5	Gorakhpur.
5·7	+0·4	7·3	2·91	—4·31	0·73	5	9	+0·3	4·6	+1·8	1	1	10	5	1	6	3	0	3	2	3	8	3	1	5	3	1	4	Benares.
6·7	+1·1	8·0	4·74	—3·62	1·82	16	9	—0·5	3·8	+0·1	0	2	9	6	2	4	4	1	2	0	3	8	5	1	1	6	1	5	Allahabad (Bamrauli).
6·0	+1·4	6·0	12·98	+7·47	4·42	4	9	+0·4	1·5	—1·2	0	0	9	0	0	1	3	1	16	0	2	2	0	0	1	1	0	24	Fatehpur.
5·5	+2·2	7·0	9·76	+2·97	4·19	11	12	+4·7	5·1	0	2	6	11	2	2	2	1	1	3	3	4	6	2	3	5	2	2	3	Cawnpore.
5·0	+0·5	6·2	10 53	+3·13	3·31	24	12	+4·1	2·0	+0·3	1	0	14	1	6	0	1	0	7	0	1	7	0	7	1	2	1	11	Lucknow.
5·8	+2·3	7·0	12·98	+4·40	4·11	14	8	—0·7	+4.0	+2·0	2	0	9	9	0	2	0	3	5	2	0	5	7	0	2	3	2	9	Bahraich.
																													U.P. West
7·1	+3·5	8·5	9·98	+4·08	1·62	10	15	+8·0	1·0	—2·0	2	6	0	0	1	4	4	0	13	0	3	1	0	1	2	2	2	19	Jhansi.
6·4	+2·5	5·6	14·16	+9·58	4·55	11	13	+7·4	2·2	—1·2	2	4	4	1	0	1	4	1	13	4	4	2	0	4	0	4	2	9	Agra.
6·1	+1·8	6·5	7·17	+2·08	1·74	16	10	+3·6	1·8	+0·1	1	2	5	6	1	1	3	5	6	2	1	4	5	2	3	5	4	4	Mainpuri.
6·7	+3·4	7·0	17·08	+11·78	6·37	22	16	+9·9	3·6	—0·3	1	0	9	3	0	1	1	3	12	3	2	6	0	1	1	4	0	13	Aligarh.
7·0	+2·9	8·1	5·88	—1·62	1·15	24	11	+4·2	2·6	+1·0	1	0	6	10	5	2	1	1	4	3	2	7	3	3	3	4	0	5	Bareilly.
6·0	+2·4	3·1	26·20	+1·98	6·39	26	16	+11·0	2·5	+0·8	0	5	1	20	2	0	0	1	1	3	4	0	13	0	1	0	8	1	Roorkee.
7·2	+2·5	6·6	32·74	+22·12	4·92	26	22	+11·1	1·3	—0·3	3	3	0	1	0	1	1	3	18	2	3	0	1	2	1	6	4	11	Dehra Dun.
																													East Punjab
7·0	+3·8	7·4	11·83	+6·99	2·82	15	14	+9·4	2·1	..	2	6	1	3	1	4	3	2	8	6	8	2	0	1	1	4	6	2	New Delhi.
6·8	..	6·5	12·01	..	2·40	18	12	..	3·4	..	1	3	1	3	2	3	2	6	0	3	8	0	2	2	1	1	4	0	Hisar (J).
6·3	+3·2	4·3	7·99	+2·88	3·00	21	17	+12·3	..	..	0	2	0	18	0	1	0	1	8	0	2	0	14	0	0	0	9	5	Ambala.
5·5	..	4·7	20·55	..	13·57	26	..	..	..	..	1	2	3	1	0	3	0	0	10	1	4	0	3	0	4	0	1	7	Ludhiana (K).

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 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
Kashmir																						
Srinagar (*R*) ..	5,205																					
Gulmarg (*R*) ..	8,709																					
Dras (*R*)	10,059																					
Leh (*R*)	11,529																					
Skardu (*R*) ..	7,505																					
Gilgit (*R*) ..	4,890																					
Misgar (*R*) ..	10,190																					
Rajputana, West																						
Sri Ganganagar ..	580	993·9	..	981·0	96·0	—0·4	104	7,8	77·6	+3·5	69	27	81·9	92·7	76·0	78·1	28·0	—5·2	26·2	78	+15	53
Bikaner	734	978·6	—1·5	975·9	94·9	..	102	5	77·1	..	70	27,28	80·2	92·8	75·2	77·2	28·1	..	26·3	78	..	52
Phalodi	800	978·6	..	975·2	94·0	..	100	5	75·9	..	70	27	76·7	91·4	74·9	82·7	29·0	..	34·7	91	..	67
Jodhpur	736	979·4	—0·2	976·7	90·7	—3·5	97	3,22	75·7	+0·9	72	26,27,29	78·8	89·1	74·7	76·2	28·3	+3·5	25·0	81	+5	54
Barmer	638	982·3	—1·2	979·5	94·7	—0·5	100	23,30	76·2	+0·5	73	29	78·9	93·6	73·9	76·7	26·3	+1·2	24·0	78	+4	46
Rajputana, East																						
Sikar	1,406	956·5	..	953·9	89·6	..	97	4 days	73·4	..	65	27,28	76·7	84·5	73·9	76·1	27·3	..	27·1	87	..	65
Jaipur	1,431	956·1	—1·9	953·5	87·7	—5·4	94	5	73·8	+1·0	67	28	77·7	81·4	74·6	75·6	27·9	+4·1	27·6	86	+13	77
Ajmer	1,593	951·0	—1·6	948·0	85·2	—4·8	92	3	73·5	—1·0	66	23,29	77·1	83·2	73·2	75·2	26·3	+2·4	26·2	83	+13	69
Kotah	843	975·9	—1·3	973·0	86·9	—5·4	92	3,4,23	76·3	—0·1	72	8	78·6	83·2	75·6	77·6	23·9	+3·4	30·0	87	+15	78
Brijnagar	1,053	968·2	—1·6	965·8	85·3	—4·1	89	4 days	74·4	+1·1	70	2	76·7	82·5	74·5	76·6	28·5	+1·4	29·0	90	+6	75
Udaipur ..	1,910	940·7	..	938·5	84·0	..	89	20	71·3	..	66	27	74·3	80·1	71·6	73·2	25·3	..	24·8	88	..	73
Gujrat																						
Deesa (*R*)	466																					
Bhuj	343	993·4	—1·7	991·0	90·8	—1·8	99	24	76·0	+1·3	71	20	77·8	88·3	74·7	75·6	23·1	+1·2	24·4	86	+7	57
Dwarka	37	..	..	..	84·3	—0·9	87	24,26	77·8	+0·1	74	1	79·0	82·5	76·4	77·9	30·0	+1·1	30·7	89	+1	81
Jamnagar ..	60	1003·3	—1·9	..	86·4	—3·0	93	26	75·1	+0·6	71	15	79·4	..	76·4	..	29·7	+1·5	..	86	+4	..
Rajkot	432	990·4	—2·1	988·1	87·3	—4·5	95	23	74·3	+1·7	72	19,23,24	76·5	85·5	74·7	76·0	23·6	+1·9	26·3	92	+8	65
Veraval*	26																					
Surat	39	1004·2	—2·4	1002·1	86·2	—2·5	93	24	76·7	+0·8	72	29	78·8	83·1	76·8	78·4	30·8	+1·9	31·3	91	+7	80
Bhavnagar ..	55	1003·6	—2·1	1001·0	87·8	—4·6	92	11,21,22	75·1	+0·2	73	28	77·1	84·1	74·9	77·7	28·4	+1·6	29·4	87	+9	75
Ahmedabad ..	163	999·8	—2·2	997·0	89·0	—3·6	96	22,23,30	77·0	+1·0	75	5 days	78·4	86·4	76·0	78·3	29·4	+2·2	29·5	89	+8	69
Dohad	1,093	968·6	..	965·8	84·2	—1·9	89	4 days	73·3	+0·4	71	13,19	75·0	81·3	73·8	75·9	27·8	+0·9	23·0	94	+5	76
Baroda ..	115	1001·7	..	998·9	88·1	—2·5	94	23	76·2	+1·6	74	26	78·0	84·3	76·7	78·7	30·8	+2·6	30·9	94	+10	78
Central India, West																						
Neemuch	1,626	950·1	—1·8	947·9	83·3	—4·6	88	20,21,22	72·0	+0·8	70	4 days	74·2	80·1	72·9	74·7	27·1	+2·3	27·1	94	+12	77
Indore	1,823	943·6	—2·0	941·1	82·8	—2·6	87	20,22,23	71·2	+1·2	69	12,13,26	73·0	80·2	71·5	73·4	25·7	+0·9	25·3	93	+6	73
Bhopal ..	1,643	949·3	—1·3	946·7	83·9	—2·0	90	20,23,28	72·6	+0·5	71	7,8,30	74·9	80·8	72·7	74·8	26·6	+1·5	27·0	90	+6	76
Guna	1,571	951·6	—0·9	949·4	84·6	—2·5	91	23	72·6	+1·1	70	7,8	74·9	82·4	73·5	77·3	27·6	+1·2	29·9	94	+8	80
Gwalior ..	681	930·6	..	977·5	88·6	..	94	4	77·9	..	76	9,11,12	80·3	85·4	77·3	79·4	30·6	..	31·6	87	..	76
Madhosagar ..	757	977·9	..	975·3	88·6	..	94	4,5	76·8	..	75	6 days	79·4	83·9	76·7	78·6	30·1	..	31·0	88	..	79
Central India, East																						
Nowgong ..	750	978·6	—1·4	975·3	88·0	—2·3	93	23,30	76·1	+1·3	73	8	79·5	85·0	77·4	79·7	31·1	+2·9	32·2	90	+6	79
Satna	1,041	968·4	—1·3	965·5	87·8	—0·4	92	23	75·6	+0·8	73	8,20	78·8	83·8	76·8	77·5	30·6	+2·5	29·4	88	+5	76
Umaria	1,506	953·7	..	950·8	86·4	0	91	22,30	74·0	+0·9	71	5	77·5	83·2	74·6	76·7	28·1	+1·3	28·7	87	+4	75
BERAR—																						
Akola	925	973·7	—1·9	970·5	87·9	—1·5	94	20,23	73·8	+0·7	72	14	76·6	84·1	73·5	75·3	26·8	+1·5	26·0	86	+5	66
Amraoti	1,213	964·4	—0·9	961·2	85·5	—2·7	92	16,17	73·1	+0·6	70	5	75·7	82·2	72·5	74·4	25·8	+0·2	25·6	85	+2	70

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION
											8 hrs. I. S. T.									17 hrs. I. S. T.									
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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	SW	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
																													Kashmir
																													Srinagar. (*R*)
																													Gulmarg. (*R*)
																													Dras. (*R*)
																													Leh. (*R*)
																													Skardu. (*R*)
																													Gilgit. (*R*)
																													Misgar. (*R*)
1·9	+1·0	2·4	0·70	+0·58	0·52	26	2	+1·5	3·2	—2·4	1	1	4	2	2	8	1	0	11	2	3	5	1	0	1	1	2	15	**Rajputana, West**
1·0	—0·3	1·6	2·77	+1·46	1·00	13	4	+1·9	5·3	—0·1	0	2	0	2	0	12	1	3	10	0	5	0	4	0	11	1	4	5	Sri Ganganagar.
1·6	..	1·9	3·29	+2·34	1·86	3	4	+2·3	8·9	..	1	2	0	1	3	18	2	1	2	3	7	0	2	3	12	0	1	2	Bikaner.
6·3	+2·3	6·0	6·04	+3·64	2·37	26	4	+1·2	2·6	—4·7	0	5	0	0	0	8	7	1	9	1	9	2	0	1	12	4	0	1	Phalodi.
4·4	+1·1	5·5	0·22	—0·51	0·09	3	0	—1·4	4·5	—1·2	0	0	0	0	2	9	3	5	11	1	6	0	2	4	10	1	2	4	Jodhpur.
																													Barmer
6·2	..	7·2	11·81	..	2·60	23	12	..	2·9	..	0	0	3	0	0	3	12	3	9	5	3	1	2	1	5	7	5	1	**Rajputana, East**
6·9	+3·4	8·6	10·12	+6·10	1·36	15	19	+14·3	3·7	—0·3	6	1	5	1	1	0	4	6	6	10	1	3	0	1	1	6	4	4	Sikar.
6·6	+3·1	7·3	8·31	+5·61	2·20	16	11	+7·0	5·0	+0·9	1	2	0	1	0	7	10	1	8	3	6	1	1	0	7	9	1	2	Jaipur.
8·3	+4·5	8·1	17·46	+12·75	4·58	7	15	+9·3	3·0	+0·4	3	3	1	0	2	6	6	5	4	6	2	0	0	1	0	4	7	10	Ajmer.
8·0	+3·3	7·3	18·32	+12·09	3·51	7	18	+11·1	4·3	+1·2	2	2	0	1	2	3	9	10	1	3	2	2	2	1	3	6	7	4	Kotah.
8·3	..	8·5	13·38	+9·53	3·75	24	13	+7·6	3·2	..	1	0	0	2	1	7	3	2	14	5	2	0	0	2	12	3	2	4	Brijnagar.
																													Udaipur
																													Gujrat
																													Deesa. (*R*)
6·8	+2·0	6·6	2·37	+0·56	1·65	2	3	+0·8	7·1	—0·5	0	0	1	0	0	10	11	5	3	5	1	0	0	0	8	11	5	0	Bhuj.
7·9	+2·6	7·4	4·40	+2·93	2·13	1	4	+2·0	11·4	+2·9	1	0	0	0	0	5	16	7	1	0	0	0	0	0	11	11	8	0	Dwarka.
4·8	+0·3	..	9·11	+6·88	5·23	2	4	+1·3	5·7	—3·3	0	0	0	0	0	8	9	0	13	..	..	..	..	..	..	..	..	..	Jamnagar.
6·2	+0·8	6·5	6·29	+2·95	2·82	3	8	+4·1	10·7	+3·7	0	0	0	0	5	11	8	5	1	1	0	0	1	1	10	12	5	0	Rajkot.
																													Veraval.*
9·0	+2·5	7·9	13·93	+8·13	2·30	24	15	+7·6	5·3	+1·5	1	0	0	0	0	9	6	4	10	0	0	0	0	1	21	4	4	0	Surat.
7·9	+2·1	8·5	21·50	+17·64	9·54	25	11	+5·3	4·8	—0·3	0	0	0	0	1	14	9	3	3	1	0	1	2	6	9	7	4	0	Bhavnagar.
8·5	+3·4	7·5	3·85	—0·31	1·04	4	8	+2·8	2·9	—0·6	1	1	1	1	0	7	9	5	5	2	2	1	0	1	8	8	4	4	Ahmedabad.
8·7	+1·8	6·7	5·14	—0·49	1·52	2,4	8	+0·8	10·9	+4·4	1	2	2	1	2	9	13	0	0	3	0	2	2	0	10	12	1	0	Dohad.
8·5	+3·0	8·4	8·58	+2·62	2·02	5	11	+4·3	2·8	—0·6	1	0	0	0	1	8	5	0	15	1	1	0	0	1	10	6	5	6	Baroda.
																													Central India, West
8·6	+4·1	8·8	14·66	+9·69	6·99	7	12	+5·9	6·1	+0·1	0	5	3	1	0	6	13	1	1	0	8	2	0	0	9	10	1	0	Neemuch.
9·0	+2·3	8·1	10·08	+3·62	2·50	3	13	+4·6	4·6	+1·0	2	2	2	3	0	7	9	5	0	2	3	1	3	0	13	6	2	0	Indore.
8·2	+2·5	7·9	19·60	+9·18	9·18	2	8	—2·2	4·6	+0·1	1	2	0	2	1	5	9	4	6	1	2	2	1	2	2	13	3	4	Bhopal.
8·1	+3·5	6·9	23·10	+13·69	11·75	6	13	+4·4	5·4	+1·5	3	0	0	1	1	5	10	1	9	3	0	2	0	3	4	7	5	6	Guna.
7·5	..	8·8	9·75	..	1·65	9	15	..	2·4	..	3	1	1	2	2	4	4	1	12	3	2	2	3	0	2	4	2	12	Gwalior.
8·1	..	9·0	8·86	..	1·58	4	14	..	6·0	..	3	4	1	2	0	6	6	2	6	4	6	0	3	1	5	4	5	2	Madhosagar.
																													Central India, East
8·8	+1·8	7·4	9·09	+3·28	1·57	5	13	+5·8	3·2	+1·4	0	6	2	1	2	14	0	0	5	1	2	3	1	4	9	5	1	4	Nowgong.
6·3	+1·2	6·5	10·10	+3·21	3·77	11	11	+2·1	3·2	—0·1	0	1	3	4	2	6	5	0	9	0	1	3	1	2	7	6	2	8	Sutna.
7·6	+1·1	7·5	12·21	+3·08	4·76	5	11	+0·6	3·1	—0·1	1	0	4	7	0	8	8	0	2	0	2	4	2	0	5	10	5	2	Umaria.
																													Berar
6·5	+0·5	6·9	9·33	+3·53	3·20	6	9	+1·4	5·8	+0·9	0	2	0	1	0	1	20	2	4	2	3	1	1	0	0	12	10	1	Akola.
6·3	+1·2	7·5	13·33	+7·29	5·62	28	12	+3·7	7·1	+2·8	1	3	0	3	5	12	4	2	0	2	4	1	5	0	11	0	7	0	Amraoti.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
C.P., West																						
Khandwa ..	1,044	969·2	—2·3	(b) 966·2	85·6	—2·8	92	20	72·6	—0·4	70	2,3	76·2	(b) 81·8	73·5	75·0	26·9	+1·3	26·6	87	+3	(b) 72
Hoshangabad ..	992	971·1	—1·9	968·0	83·9	—2·8	91	23	74·0	+0·7	72	1,2,8	75·9	82·4	74·3	76·3	28·3	+1·2	28·2	92	+4	75
Saugor	1,808	943·6	—1·3	(c) 940·9	83·4	—2·9	89	28	72·2	+0·8	70	8,11,'0	74·8	(c) 80·1	72·6	(c) 74·5	26·5	+1·6	(c) 26·9	90	+7	(c) 76
Jubbulpore ..	1,289	960·8	—1·1	957·7	86·1	—1·0	92	27	74·1	+1·8	71	1	78·0	82·4	74·6	76·2	27·7	+1·4	28·0	85	+1	75
Seoni	2,027	937·2	—0·7	934·3	83·1	—1·9	89	16	71·6	+1·2	63	1	74·2	80·2	72·0	74·3	25·9	+1·2	26·5	89	+7	71
Nagpur ..	1,202	979·4	—1·1	966·9	88·0	—1·8	95	16,17	74·9	+0·2	73	1,6,20	78·1	85·2	74·5	78·2	27·6	+1·6	29·8	84	+6	73
C.P., East																						
Gondia ..	1,026	970·3	..	967·0	86·2	..	91	18,19	75·2	..	70	19	77·7	84·4	75·1	77·4	28·6	..	28·9	88	..	73
Pendra ..	2,040	936·5	—0·7	933·5	83·5	—0·1	88	17	72·3	+1·8	69	24	75·3	79·1	73·5	74·8	27·6	+2·0	27·7	92	+7	82
Champa ..	805	977·9	..	974·2	88·1	..	93	17	76·5	..	74	1,14	78·3	85·6	76·3	78·6	30·0	..	30·3	90	..	73
Raipur ..	970	972·4	—0·4	969·0	86·2	—1·9	90	17,18,22	74·9	—0·1	73	4 days	78·3	84·3	76·0	76·8	29·6	+1·1	28·1	89	+5	71
Titlagarh	691	931·9	..	978·2	89·5	..	94	18	78·9	..	73	19	79·3	84·4	75·7	77·2	28·7	..	28·6	85	..	73
Kanker	1,318	961·2	0	957·8	85·5	—0·4	89	5 days	73·9	+1·0	70	19	77·7	82·0	74·7	77·2	23·0	+0·9	29·7	86	+1	81
Chanda	634	984·0	—1·0	980·5	87·2	—1·7	92	16	75·2	+0·7	73	25,28	78·5	83·7	74·9	76·9	23·0	+0·1	28·5	85	+2	74
Jagdalpur ..	1,815	944·6	—0·7	941·5	83·9	—0·8	88	4 days	71·2	+0·7	69	3,19,27	75·2	80·3	73·1	75·1	27·0	—0·4	27·6	91	+4	79
Konkan																						
Dahanu	15	1005·8	..	1004·0	84·9	..	92	26	75·9	..	73	29,30	78·1	82·2	77·0	79·4	31·2	..	33·0	95	..	88
Bombay	35	1005·7	—1·8	1003·9	85·4	—0·1	89	21	76·3	+0·6	68	29	78·7	81·4	76·4	77·3	30·0	+0·6	30·3	90	+2	83
Alibag	23	1007·0	—1·1	..	84·4	—0·6	89	21	75·9	—0·1	70	30	78·5	..	76·5	..	29·5	+0·3	..	91	+5	..
Harnai	66	1005·2	..	1003·7	81·5	..	89	28	76·2	..	70	29,30	78·4	81·4	75·6	76·7	29·1	..	30·6	88	..	80
Devgad	117	1003·8	..	1002·3	84·5	..	89	14	77·4	..	74	2,30	78·8	81·5	76·6	77·5	30·2	..	30·4	90	..	85
Marmagao ..	202	1002·3	—0·4	999·6	82·8	+0·1	85	16	75·4	+0·7	71	30	78·9	80·5	75·9	76·3	29·3	+0·3	28·9	87	—3	82
Honavar	85	1007·2	..	1004·8	83·7	..	87	15	74·0	..	72	11	77·1	80·2	75·9	76·7	29·9	..	29·8	95	..	87
Bombay, Deccan																						
Jalgaon	660	980·3	..	978·3	86·8	..	91	5 days	73·2	..	70	12	76·0	84·3	74·2	76·9	27·8	..	27·8	92	..	72
Malegaon	1,432	957·3	—2·0	954·4	86·4	—2·3	92	16,21	71·2	+1·0	67	13	75·2	82·4	72·2	73·8	25·6	+1·8	24·7	84	+5	66
Ahmednagar ..	2,154	934·1	—1·7	930·9	85·1	—1·0	92	16	68·9	+1·0	64	11,12	72·7	80·9	69·3	71·9	23·0	+0·6	23·0	84	+3	65
Poona	1,834	945·1	—1·5	943·1	82·6	—2·0	89	21	70·0	+1·1	64	30	72·6	78·7	69·9	71·7	23·3	+0·8	23·8	87	+3	73
Sholapur	1,570	954·6	—0·5	(b) 950·8	83·0	—0·7	93	12	70·9	—0·1	67	30	73·7	(b) 82·7	70·5	(b) 72·6	24·1	+1·0	(b) 23·1	85	+5	(b) 63
Miraj	1,817	946·3	—1·3	943·6	83·7	—0·6	88	18	69·2	+1·3	65	30	71·8	77·6	70·0	72·2	24·3	+0·7	24·6	91	+5	69
Bijapur	1,950	943·4	+0·5	938·9	85·6	—1·8	92	13	..	..	..	..	72·8	82·3	69·7	71·8	23·7	+0·9	22·4	85	+4	62
Belgaum	2,562	922·6	—0·8	920·2	77·8	—1·6	82	16,21,22	66·6	+0·9	60	29	68·7	73·6	67·4	70·3	22·5	+0·2	24·0	94	+2	85
Gadag	2,131	937·0	—0·3	933·0	83·4	—1·9	87	27	69·3	+0·5	68	7 days	71·7	79·5	70·1	74·5	24·7	+2·3	27·1	92	+7	79
Hyderabad, North																						
Aurangabad ..	1,905	942·5	—1·6	939·3	84·7	—1·5	91	16	70·1	+0·9	67	29	73·0	81·9	70·3	72·9	24·1	+1·2	24·0	87	+6	66
Parbhani	1,350	958·9	..	955·1	87·2	..	92	4 days	71·6	..	67	30	75·0	83·1	71·6	74·2	24·8	..	24·7	83	..	66
Bidar	2,178	933·5	..	930·2	82·0	—2·3	87	17	69·6	+0·8	66	30	72·9	79·5	70·2	72·1	24·0	+0·3	23·8	87	+1	72
Nizamabad ..	1,250	963·3	—1·4	960·0	86·3	—1·3	91	16	73·5	+0·6	70	30	75·6	83·3	72·6	73·1	26·1	+0·5	23·1	86	+3	69
Peddapalli (R) ..	755																					
Hyderabad South																						
Gulbarga	1,503	(b) 956·3	—0·9	(b) 952·5	(b) 88·3	—0·3	90	6,19	(b) 71·1	—0·4	67	28	(b) 74·7	(b) 82·5	(b) 70·9	(b) 73·4	(b) 29·3	+5·7	(b) 18·9	(b) 83	+2	(b) 67
Raichur	1,311	963·0	—0·9	959·1	86·8	—2·5	92	14	72·1	—0·5	70	4 days	74·5	84·5	71·3	74·4	24·7	+0·5	24·6	83	+4	61
Hyderabad (Begumpet)	1,778	946·6	—0·8	943·5	84·6	—1·6	90	17	72·0	+0·6	70	8,23	74·2	80·7	71·6	74·1	25·5	+0·5	26·2	88	+5	71
Hanamkonda ..	881	975·9	—1·2	972·6	87·9	—0·3	92	6,16	74·9	+0·4	72	27,28	77·9	84·0	74·5	76·4	27·5	+0·5	27·8	85	+5	71
Khammamett ..	367	993·7	..	992·2	89·4	..	95	18	76·2	..	72	28	80·3	86·0	76·5	77·7	29·5	..	28·7	84	..	68

Cloud amount. (Tenths of sky.)			Rainfall, inches.				Number of rainy days. (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.									
8 hrs. I. S. T.	Departure from normal	Mean 17 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
																													C. P., West
7	+3·2	9·1	4·13	—1·56	0·71	6	9	+1·9	6·4	+1·4	1	2	1	2	4	8	8	4	0	1	2	1	2	1	7	10	6	0	Khandwa.
7	+2·5	7·8	15·98	+7·62	6·42	1	16	+6·5	3·3	+1·2	1	2	1	1	4	10	4	1	6	0	1	4	0	1	7	13	2	2	Hoshangabad.
5	+3·2	7·9 (c)	14·65	+7·05	6·27	5	12	+2·4	9·2	—0·3	1	5	2	3	1	7	9	2	0	1	2	3	3	1	7	7	4	0	Saugor.
6	+2·0	8·2	10·70	+2·29	3·21	5	12	+2·3	4·6	+2·4	0	2	2	3	1	7	9	0	6	0	3	0	3	3	8	8	2	3	Jubbulpore.
6	+3·2	7·0	13·60	+5·01	8·19	1	10	—0·9	3·8	+0·8	5	4	2	4	4	5	4	1	0	3	3	2	5	5	5	3	1	0	Seoni.
6	+2·7	8·7	4·04	—3·97	1·22	20	8	—2·6	4·1	—0·6	3	2	1	1	5	7	3	3	5	1	1	0	2	4	3	9	3	7	Nagpur.
																													C. P., East
5	..	6·1	5·54	..	3·72	1	12	..	3·9	..	3	3	1	4	1	9	3	6	0	4	4	1	2	2	9	2	6	0	Gondia.
0	+2·6	7·9	11·36	—3·46	1·40	4	17	+5·7	3·8	+0·6	3	6	2	6	8	3	0	2	0	2	1	1	4	11	3	3	5	0	Pendra.
0	..	7·1	7·08	..	1·22	14	15	..	5·2	..	4	2	5	1	0	5	5	2	6	1	1	2	3	6	4	8	3	2	Champa.
9	+3·1	7·8	14·43	+6·74	1·84	25	17	+6·7	4·2	+0·5	0	3	1	2	0	15	1	1	7	0	8	0	2	0	13	0	2	5	Raipur.
1	..	6·4	7·30	..	3·38	25	10	..	1·6	..	1	1	0	2	4	3	0	0	19	2	2	0	2	3	2	3	2	14	Titlagarh.
4	+1·4	9·9	13·63	+3·39	5·10	23	13	+0·7	4·4	+0·8	0	0	0	0	0	8	3	0	19	0	0	1	0	0	9	5	1	14	Kanker.
3	+0·5	7·1	5·38	—3·53	2·27	27	9	—1·7	3·9	+0·8	0	0	0	4	0	14	1	0	1	0	1	0	8	0	4	1	11	5	Chanda.
1	+1·8	8·0	13·77	+3·39	2·40	22	21	+7·4	3·2	+0·8	0	1	0	0	2	9	0	2	16	0	0	0	1	0	14	1	8	6	Jagdalpur.
																													Konkan
6	..	8·3	22·65	..	5·72	3	17	..	12·7	..	0	1	8	7	0	5	7	1	1	0	0	0	1	1	7	18	3	0	Dahanu.
3	+1·2	7·8	25·44	+15·05	10·45	23	18	+5·3	7·7	+0·7	1	1	2	0	3	6	10	2	5	1	0	0	1	1	8	13	6	0	Bombay
5	+1·2	..	15·48	+5·01	4·84	23	18	+3·5	11·2	+2·4	0	1	5	1	1	9	5	0	8	..	..	..	..	..	..	..	..	..	Alibag
..	..	..	12·92	..	2·45	22	17	..	10·2	..	1	5	6	2	1	5	7	3	0	1	0	0	0	1	6	14	8	0	Harnai.
0	..	8·8	7·57	..	1·60	22	11	..	10·9	..	0	5	4	2	1	4	9	5	0	0	0	1	1	0	1	8	19	0	Devgad.
5	—0·6	6·9	6·97	—0·69	2·15	4	14	—0·2	9·0	+3·6	5	4	1	1	2	5	9	3	0	0	0	0	0	0	5	16	9	0	Marmagao.
9	..	8·1	21·84	+8·27	2·94	23	25	+8·4	1·9	..	0	0	5	1	1	2	4	1	16	0	0	0	0	0	4	14	5	7	Honavar.
																													Bombay Deccan
2	..	5·7	7·52	+1·51	1·51	29	14	+6·3	5·2	..	0	2	2	0	0	7	14	2	3	5	1	3	0	1	0	10	9	1	Jalgaon.
0	+1·6	7·6	8·29	+2·50	4·03	29	7	—0·7	5·9	0	0	0	0	2	0	18	0	10	0	1	2	0	0	0	8	7	12	0	Malegaon.
0	+0·5	7·0	13·05	+6·51	4·46	29	9	—0·4	4·5	—1·7	0	0	0	0	0	5	0	25	0	0	1	0	1	0	6	4	14	4	Ahmednagar.
7	+1·0	8·4	5·03	—0·26	1·20	30	10	—1·4	3·7	—3·0	0	0	0	0	0	0	18	1	11	0	0	0	0	0	2	26	2	0	Poona.
2	+1·0	8·9	5·20	—2·39	2·31	21	8	—1·1	7·3	+0·9	0	0	0	0	0	15	2	13	0	0	0	1	0	0	13	6	8	1	Sholapur.
1	—1·8	7·1	1·47	—2·41	0·43	3	6	+0·3	8·6	+1·1	0	0	0	0	0	8	16	6	0	1	0	0	0	0	2	23	4	0	Miraj.
7	—1·3	6·1	4·16	—1·38	1·02	19	8	0	7·2	+1·2	3	0	0	0	0	8	12	7	0	4	0	0	0	0	9	14	3	0	Bijapur.
4	+0	7·6	4·50	—0·30	0·62	1	12	+2·9	5·2	+1·4	0	0	0	0	0	24	6	0	0	0	0	0	0	0	26	4	0	0	Belgaum.
5	+1·8	8·7	4·09	—0·59	1·22	18	7	—0·6	9·7	+1·5	0	0	0	0	0	7	12	11	0	0	0	0	0	0	6	15	9	0	Gadag.
																													Hyderabad North
0	0·4	7·1	7·44	+0·75	2·69	29	8	—1·0	8·7	+1·8	0	0	0	1	1	5	21	2	0	3	0	0	0	0	1	20	4	2	Aurangabad.
6	..	8·0	8·28	+0·23	3·47	28	9	—0·5	..	..	0	0	1	2	1	1	20	5	0	0	0	0	1	2	1	22	3	1	Parbhani.
0	+1·0	8·	9·06	+0·52	1·21	20	10	—1·0	10·1	+2·4	1	1	0	0	0	8	10	10	0	4	1	0	0	0	9	10	4	2	Bidar.
0	+1·2	7·5	13·05	+4·14	7·19	23	15	+6·0	4·1	+1·0	1	0	0	0	1	5	3	5	5	0	0	1	0	2	9	5	10	3	Nizamabad.
																													Peddapalli (R)
																													Hyderabad South
(b) 7·0	(b) +0·9	(b) 7·5	4·91	—2·55	1·23	19	8	—2·1	(c) ·3	+3·1	2	0	0	0	0	10	12	4	1	2	2	0	0	1	10	10	4	0	Gulbarga.
8	..7	7·9	4·62	—1·61	1·20	15	8	—1·4	9·9	+2·3	0	0	0	0	0	13	10	7	0	0	0	0	0	1	8	6	15	0	Raichur.
9	+1·3	8·6	10·80	+4·35	3·71	23	13	+3·3	8·5	+2·4	1	0	0	0	0	6	12	8	3	4	0	0	0	0	7	11	5	3	Hyderabad (Begumpet)
9	—0·4	7·2	8·67	+1·33	3·81	27	8	—1·1	5·7	+1·4	2	0	0	2	5	2	9	7	3	4	1	0	3	4	2	9	6	1	Hanamkonda.
5	..	6·7	10·99	..	6·00	28	8	..	4·4	..	0	1	0	4	3	7	7	3	5	7	2	0	2	2	6	7	4	0	Khammamath,

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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 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
Mysore																						
Chitaldrug ..	2,405	(b) 928·1	—0·4	924·6	(c) 81·5	—2·8	85	9,15	(c) 68·3	+0·3	65	30	(b) 70·5	79·4	(b) 68·1	71·1	22·5	+0·7	22·6	(b) 89	+6	66
Hassan	3,149	904·8	..	902·3	77·6	—3·4	82	22	65·6	+0·8	61	30	68·1	72·3	66·0	68·0	21·0	+0·1	21·6	89	+4	80
Bangalore ..	3,021	908·6	—0·4	905·4	79·7	—2·4	83	6,9	66·3	+1·0	63	4	68·3	76·9	66·8	68·9	21·8	+0·6	20·8	92	+5	67
Mysore	2,518	925·1	—0·5	922·3	81·1	—3·1	85	12	67·2	+0·6	64	4	69·8	76·9	67·5	70·3	22·0	+0·4	22·6	89	+7	73
Malabar																						
Mangalore ..	72	1007·9	—0·2	1005·2	83·2	—1·1	86	4,5	74·0	—0·3	71	19,20	76·3	80·7	75·1	76·7	29·2	+0·5	29·6	94	+3	83
Calicut	27	1009·7	0	1006·9	83·8	—0·6	87	5,13	74·2	—0·4	70	19	76·3	81·3	74·9	76·9	28·9	+0·3	29·6	93	+2	81
Palghat	319	999·5	..	996·3	83·3	..	86	9,12,22	73·1	..	71	7,15,19	75·1	79·5	74·0	75·7	28·2	..	28·6	95	..	84
Cochin	10	1010·8	0	1007·9	82·5	+0·5	85	5 days	74·4	—1·0	71	12	77·0	80·1	75·1	76·3	28·9	+0·4	29·2	91	+4	83
Alleppey ..	12	1010·6	..	1007·8	83·7	..	87	4	74·4	..	72	10,17	76·9	80·3	75·3	76·2	29·2	..	29·0	92	..	82
Trivandrum ..	211	1003·9	+0·4	1000·9	83·7	..	86	4,12	73·2	..	71	13,19	75·4	80·1	74·1	75·7	28·2	+0·7	28·3	94	+8	81
Nagarcoil ..	195	1003·6	..	(b) 1000·6	86·7	..	91	21	74·7	..	72	22,23	76·9	81·9	73·8	75·1	27·1	..	26·7	86	..	72
Madras, South-East																						
Pamban	37	1007·7	—0·2	1004·0	88·2	—1·0	91	1	78·9	+0·2	75	2	83·5	83·9	78·8	79·2	31·5	+1·5	32·0	80	0	80
Madura	437	993·9	+0·4	989·9	94·0	+0·2	99	6	76·2	+0·3	73	14	81·0	88·0	73·5	75·7	24·8	—0·3	24·8	69	0	56
Negapatam ..	31	1007·8	—0·1	1003·9	91·5	—1·2	96	1,3	77·8	+0·4	73	10,12,13	81·1	87·5	75·3	78·3	27·3	—0·4	28·9	75	0	65
Trichinopoly* ..	255	(k) 999·7	—0·6	(k) 995·5	93·0	—2·3	98	2,6	75·5	—0·7	72	8	79·6	89·1	74·0	76·6	26·2	+0·8	25·6	76	+4	56
Coimbatore ..	1,341	963·5	—0·5	960·3	87·1	—1·6	90	10,11	71·6	+0·7	69	19	74·7	81·9	70·9	72·7	24·1	—1·0	23·3	82	—2	63
Salem	913	977·8	—·5	973·3	89·2	—2·6	95	6	73·6	+0·6	72	8	75·5	86·3	72·5	75·7	25·9	0	25·6	86	+5	61
Cuddalore ..	39	1007·0	0·3	1003·0	92·0	—0·5	99	4 days	76·2	—0·6	71	days 12	79·1	87·7	74·9	78·4	27·6	—0·8	29·0	82	+4	66
Vellore	703	984·0	—0·2	979·8	90·5	—1·7	98	6	75·9	+0·6	73	22	78·3	88·0	74·2	78·0	27·1	+1·3	28.2	81	+5	63
Madras	51	1006·0	—0·3	1002.2	91·8	—2·1	99	5	76·8	—0·4	72	7	80·9	86·4	75·8	77·9	28·2	+0·6	28·7	79	+4	68
Arogyavaram ..	2,299	931·3	..	928·0	83·6	..	90	7	70·5	..	68	30	76·8	81·4	71·1	74·3	24·9	..	26·1	88	..	71
Madras, Deccan																						
Cuddapah ..	428	993·9	—0·1	989·3	89·6	—4·0	95	6,8	74·6	—1·9	71	22	81·1	86·6	74·9	76·7	26·7	+0·4	26·9	75	+1	63
Bellary	1,473	958·1	—0·7	954·5	85·9	—4·6	88	6 days	73·0	0	69	30	75·1	83·2	70·9	73·7	24·0	+1·7	24·1	81	+8	63
Kurnool	923	976·2	—0·6	972·2	87·4	—2·6	91	4	73·6	—0·4	71	11,30	76·4	84·8	72·5	75·2	25·5	+0·8	25·5	82	+4	64
Rentichintala ..	348	994·5	..	990·8	90·6	—3·1	95	10	76·9	—0·4	73	23	79·9	87·9	75·4	77·6	28·0	+0·9	27·4	80	+7	61
Anantapur ..	1,148	968·6	..	964·7	87·5	..	92	6,7	73·3	..	69	30	75·5	84·9	71·4	73·6	24·5	..	23·2	81	..	58
Madras Coast, North																						
Nellore	66	1004·8	—0·6	1001·3	93·9	—0·8	99	6	78·7	+0·5	75	23	82·1	89·1	76·0	78·3	27·9	+0·3	28·1	75	+2	81
Ongole	38	1005·3	..	1001·7	92·8	..	98	6,7	78·8	..	74	18	82·3	88·3	76·3	77·5	28·2	..	27·3	75	..	62
Masulipatam ..	10	1006·2	—0·6	1002·8	88·8	—1·7	93	3,10	78·2	+0·6	75	5 days	81·2	86·1	78·3	79·3	31·8	+1·0	31·1	87	+3	74
Cocanada	26	1005·4	—0·3	1002·2	88·1	—1·7	92	10,11	78·9	+0·8	74	26, 27	82·3	85·5	78·0	79·0	30·8	+0·1	30·9	82	—1	74
Vizagapatam ..	126	1001·5	—0·3	998·5	88·1	—0·3	93	3	78·1	—0·3	73	25	83.0	84·7	78·3	79·0	31·0	+0·9	31·3	80	0	77
Calingapatam ..	19	1004·6	—0·6	1002·0	88·8	—1·0	93	2,3,11	79·0	+0·6	76	23,25,26	81·7	85·4	77·9	79·6	30·9	—0·9	31·9	84	—2	77

and cloud to Aerodrome site. Other elements refer to cantonment sites (k) Mean of 20 days.

Cloud amount. (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10" or) more.)		Wind velocity. miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I.S.T.									17 hrs. I.S.T.									
Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
(b)			(b)						(c)																				**Mysore**
9·3	+1·5	8·4	3·59	..	1·78	18	7	..	7·3	+1·4	0	0	0	0	0	9	17	3	0	0	0	0	0	0	10	15	5	0	Chitaldrug.
7·8	+0·6	7·8	3·65	—0·68	1·02	14	12	+3·9	7·9	+2·8	1	0	0	1	4	15	3	6	0	0	0	0	0	4	18	2	6	0	Hassan.
9·3	+1·1	9·0	3·77	—2·89	0·68	12	9	+0·1	9·1	+3·3	0	0	0	0	0	5	17	8	0	1	0	0	0	0	3	13	11	2	Bangalore.
9·1	+1·9	9·9	6·42	+1·47	1·88	14	13	+4·8	7·0	+1·0	0	0	0	0	0	11	18	0	1	0	0	0	0	0	7	21	1	1	Mysore.
																													Malabar
8·8	+1·5	8·7	15·72	+5·24	2·25	14	26	+10·5	4·5	+0·6	1	1	11	4	0	5	1	3	4	2	0	0	0	1	11	6	10	0	Mangalore.
9·2	+2·4	8·7	14·65	+6·71	2·80	15	24	+12·3	5·8	+1·4	4	7	6	0	1	4	3	3	2	1	0	1	0	0	7	13	8	0	Calicut.
9·0	..	8·5	11·19	..	1·79	28	20	..	6·5	..	0	0	0	0	0	11	17	2	0	0	0	0	0	0	9	18	3	0	Palghat.
9·1	+2·7	8·5	19·15	+11·48	2·48	10	23	+9·3	5·7	+1·3	6	3	5	2	0	0	4	1	9	2	0	0	0	1	5	16	6	0	Cochin.
9·3	..	9·0	18·51	..	3·66	10	21	..	5·1	..	3	3	1	0	0	2	2	9	10	1	0	0	0	0	2	10	16	1	Alleppey.
8·2	+1·4	7·5	6·27	+1·76	1·24	10	14	+5·9	5·8	0	9	3	0	0	1	1	2	13	1	2	0	0	0	0	1	9	18	0	Trivandrum.
9·0	..	8·5	3·19	..	1·27	27	8	..	9·9	..	0	0	0	0	0	0	19	11	0	0	0	0	0	0	1	25	4	0	Nagercoil.
																													Madras, South East
6·1	+2·5	5·3	1·71	+0·57	1·46	20	3	+1·1	8·5	+0·7	0	0	1	3	15	9	1	1	0	1	0	1	8	13	6	1	0	0	Pamban.
6·9	+0·9	8·2	5·97	+1·27	1·23	6	8	+1·5	3·6	+0·4	2	0	0	0	0	0	8	13	7	2	2	1	3	1	4	6	5	6	Madura.
7·6	+2·3	7·1	2·58	—0·72	0·89	12	4	—1·1	5·4	+0·6	0	0	0	0	1	13	14	2	0	0	0	0	3	10	12	4	1	0	Nagapatam.
7·0	+1·7	7·7	5·81	+1·09	1·59	22	7	+1·0	5·4	+0·8	0	0	0	0	0	1	22	5	2	0	0	0	1	4	3	9	8	5	Trichinopoly*.
7·3	+2·4	8·2	0·19	—1·40	0·08	18	0	—3·3	10·1	+5·4	0	0	0	1	13	14	2	0	0	0	0	0	1	11	14	4	0	0	Coimbatore.
7·4	+1·5	8·3	7·84	+1·77	2·81	15	7	—1·5	3·6	+0·5	0	0	0	0	4	17	6	0	3	0	0	1	0	2	6	7	1	13	Salem.
7·1	+1·1	7·1	9·55	+4·34	2·12	12	13	+6·8	5·3	+1·4	0	0	0	0	2	11	14	1	2	1	0	2	10	3	1	7	3	3	Cuddalore.
8·1	+3·1	8·0	6·63	—0·25	2·57	22	10	+1·9	3·2	+0·1	1	0	0	0	0	3	8	6	10	0	0	1	2	1	11	6	3	6	Vellore.
8·2	+2·0	8·5	5·33	+0·65	1·83	14	9	+2·0	8·1	—1·9	0	0	0	0	1	12	15	2	0	0	3	4	15	4	1	3	0	0	Madras.
8·4	..	8·9	2·22	..	0·65	19	6	..	5·8	..	0	0	0	0	0	0	16	10	4	0	0	0	0	0	2	7	18	3	Arogyavaram.
																													Madras, Deccan
7·6	+0·9	8·0	8·09	+2·06	3·20	15	10	+1·7	3·7	—1·2	0	0	0	0	0	0	12	4	14	0	1	0	1	1	0	6	3	18	Cuddapah.
7·4	+2·1	8·6	5·09	+0·22	1·33	19	12	+··	6·8	+0·5	0	0	0	0	0	5	16	6	3	1	0	1	0	0	5	14	6	3	Bellary.
8·2	+1·4	9·4	7·31	+1·35	3·02	18	7	—2·2	9··	+3·2	0	0	0	0	0	12	14	4	0	0	0	0	1	1	6	12	5	5	Kurnool.
7·4	+0·2	8·8	6·87	+2·11	2·26	19	7	—6·8	·3	—0·6	0	0	0	0	1	12	6	1	10	2	2	1	1	1	7	8	5	3	Rentichintala.
7·3	..	8·7	9·31	+3·03	3·57	18	1	+5·1	7·9	..	0	0	0	0	0	6	20	2	2	0	0	0	0	1	3	18	6	2	Anantapur.
																													Madras, Coast North
7·7	+0·9	7·5	3·02	—1·44	0·75	23	8	+2·1	4·3	0	0	0	0	0	3	4	18	2	3	0	0	1	5	3	1	8	11	1	Nellore.
7·6	..	8·2	9·57	..	5·81	18	7	..	4·9	..	0	0	0	0	0	7	12	2	9	1	1	1	3	0	2	12	3	7	Ongole.
6·3	—0·4	6·7	8·53	+2·16	1·14	29	11	+1·1	5·3	+0·8	3	0	0	0	1	9	7	6	4	0	0	2	6	3	4	6	9	0	Masulipata
6·7	0	6·7	6·14	—0·02	3·20	27	4	—4·8	6·5	+2·3	0	4	0	3	0	16	2	3	2	0	0	1	6	0	20	0	3	0	Cocanada.
6·7	—0·5	6·8	8·78	+2·23	2·67	25	7	—2·1	4·2	+0·8	3	0	0	0	0	6	6	1	14	2	0	4	5	11	4	3	0	1	Vizagapatam.
7·8	+2·2	8·1	7·74	+0·9	5·80	26	4	—5·1	7·4	+2·9	2	0	0	0	0	5	12	11	0	0	0	2	7	10	8	2	1	0	Calingapatam.

TABLE 11—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
Hill Stations excluding Kashmir																						
Shillong	4,921	848·6	—0·1	845·7	74·8	+0·5	80	2,23	62·0	+0·4	60	8days	69·4	69·8	66·1	67·1	20·5	+1·1	22·5	83	+1	86
Cherrapunji ..	4,309	867·3	—0·2	864·5	72·6	—0·7	79	2,23	64·8	+0·2	62	1,13	68·7	69·1	67·0	67·5	22·0	+1·0	22·3	92	+5	93
Aijal	2,599	888·9	..	885·7	77·3	..	81	2	65·2	..	63	9,25,30	70·0	71·9	69·0	70·6	23·9	..	25·9	95	..	95
Darjiling .. .	7,432	775·9	—0·4	773·7	67·6	+3·0	73	1,5,22	57·3	+1·3	55	29	61·2	61·7	60·2	60·9	17·3	+0·9	17·7	95	+2	95
Kalimpong .	3,965	876·2	—1·5	874·1	75·1	+0·4	82	1	66·8	+1·0	65	20,30	69·1	71·6	68·0	70·4	23·7	+1·2	25·0	94	+2	94
Katmandu ..	4,388	864·9	..	862·0	82·8	+0·2	88	1,3	67·5	+1·8	64	18	71·7	75·7	68·9	71·2	23·0	+1·8	24·3	87	+5	81
Muktesar	7,592	790·9	—0·9	769·2	66·9	—0·8	76	4	56·8	+1·7	52	25	59·5	62·5	58·1	60·9	16·3	+2·0	17·7	93	+9	92
Mussooree ..	6,699	795·8	..	793·5	66·4	—1·1	72	4,6	59·0	+1·7	54	27	63·0	63·7	61·5	63·4	18·1	+2·0	19·2	91	+0	98
Simla	7,224	779·4	+1·2	778·5	65·7	—2·7	72	5	58·0	—1·2	53	23,26	60·6	63·5	58·3	61·3	15·7	—1·3	17·5	88	—1	89
Abu	3,945	876·2	—1·5	872·3	73·3	—1·9	81	3,24	65·6	+0·8	62	10,11	67·3	71·1	65·2	67·8	21·2	+2·6	22·7	91	+8	82
Pachmarhi ..	3,528	889·8	—1·1	886·8	74·6	—2·9	80	19	67·1	+1·0	65	1	69·2	73·5	67·7	70·0	22·6	+1·2	23·7	93	+7	84
Mahabaleshwar ..	4,534	859·8	—1·5	858·4	66·7	—1·1	72	20,22	60·4	—0·4	55	30	61·8	63·8	61·6	63·4	18·7	—0·4	19·7	99	—1	97
Mercara	3,781	884·3	—0·6	882·4	67·3	—4·5	73	22	62·3	+0·5	59	30	64·0	67·5	63·6	66·3	19·9	+0·5	21·6	98	+3	94
Ootacamund ..	7,364	779·5	+0·3	777·7	63·8	+2·7	70	22	52·0	+1·0	48	3	54·7	59·0	53·7	57·0	13·7	+0·6	15·1	94	+8	90
Cooncor	5,730	825·7	..	..	68·8	—2·3	73	1,5	57·3	+1·0	52	11	63·8	..	58·6	..	15·0	+0·7	..	74	+5	..
Kodaikanal ..	7,688	770·7	+0·5	768·9	62·4	—0·3	66	5	53·0	+1·0	49	3	55·9	57·7	52·9	56·2	12·6	+0·1	14·9	83	+4	92
Cylon																						
Colombo	24	1010·1	—0·2	1007·6	84·3 (f)	—0·7	87	7	76·1	—0·5	73	4 days	79·0	80·9	75·5	75·9	28·6	—0·2	28·3	84	—2	78
Trincomalee ..	24	1008·4	+0·6	1004·3	91·4	—0·6	94	6 days	77·2	+0·5	71	12	80·3	87·2	75·3	76·5	27·7	+0·5	26 3	78	—3	59
Hambantota ..	61	1007·2	—0·9	1004·0	87·4	+0·8	93	1	76·0	0	73	30	78·2	83·2	74·9	76·7	28·1	—0·2	28·4	85	—3	73
Mannar	12	1009·0	..	1005·9	86·7	..	89	13	78·9	..	76	18	81·3	82·6	77·0	77·1	29·7	..	29·2	81	..	77

(b) Mean of 29 days.
(e) Mean of 18 days.
(f) Mean of 25 days.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																			STATION
											8 hrs. I. S. T.									17 hrs. I. S. T.										
Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 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
																													Hill Stations Excluding Kashmir
8·2	+1·2	9·1	16·48	+4·69	26·0	8	21	+3·7	2·0	+0·5	1	1	3	3	1	1	0	0	20	2	0	0	3	1	2	0	1	21	Shillong.
8·3	+0·7	7·1	44·73	+1·38	11·24	8	23	+3·8	4·8	+0·9	0	5	6	2	6	5	1	0	5	1	4	4	3	1	10	3	1	3	Cherrapunji.
8·3	..	8·1	13·67	..	1·60	19	22	..	3·5	..	0	1	16	3	2	3	0	0	5	0	0	4	0	2	5	12	1	6	Aijal.
8·7	+0·7	9·3	15·23	—3·67	3·27	10	19	+2·0	4·3	+1·1	0	1	15	4	2	1	1	1	5	1	0	12	2	4	3	6	2	0	Darjiling.
7·5	+0·6	7·6	13·45	+2·13	4·10	10	15	+2·3	4·6	—1·0	0	0	0	3	0	0	4	12	11	0	0	0	18	3	0	0	1	8	Kalimpong.
8·4	+0·9	8·5	8·47	+1·31	2·36	9	16	+2·7	0·5	—0·3	0	1	1	1	0	0	0	0	27	4	0	3	1	0	0	0	1	21	Katmandu.
6·2	+0·8	7·7	11·18	+3·25	1·88	25	18	+7·9	5·9	+0·9	0	7	8	3	1	2	2	2	5	0	2	5	3	0	8	10	1	1	Muktesar.
2·7	..	2·5	31·26	+2·13	7·86	26	23	+10·2	2·0	—1·8	3	5	2	2	5	3	1	0	6	0	0	0	2	10	4	0	0	9	Mussooree.
7·2	—1·0	9·0	16·43	—0·42	4·34	26	15	—4·7	1·3	+1·2	1	3	1	4	3	0	0	0	18	1	2	1	1	6	4	1	1	13	Simla.
7·9	+2·4	8·1	10·48	+1·11	1·80	4	14	+6·4	4·5	—0·9	4	1	0	0	1	8	1	0	15	4	5	0	0	4	8	1	0	8	Abu.
8·9	+2·4	8·1	17·96	+3·77	3·54	1	17	+3·9	3·8	—0·6	2	1	1	3	3	1	11	5	3	3	3	3	0	4	1	10	6	0	Pachmarhi.
9·4	+0·7	9·8	43·50	+14·76	6·42	24	25	+2·4	5·1	—2·7	1	0	0	0	1	16	0	2	10	0	0	0	0	0	15	1	1	13	Mahabaleshwar.
8·5	+0·5	8·0	19·01	+7·93	2·63	18	24	+5·8	8·0	+2·8	0	0	0	0	0	8	15	7	0	0	0	0	0	0	9	15	6	0	Mercara.
8·1	+1·0	8·7	5·08	—0·75	1·00	14	10	—2·0	4·9	+1·4	0	0	0	0	0	8	11	3	8	0	1	0	0	0	4	12	6	7	Ootacamund.
8·9	+2·6	..	3·19	—0·37	0·61	14	8	+1·0	3·8	+0·3	2	1	0	5	2	3	0	6	11	..	..	..	..	..	..	..	..	..	Coonoor.
7·4	+1·8	9·5	6·34	—0·94	1·45	23	13	+1·1	8·9	+1·6	0	0	0	1	0	1	14	14	0	1	0	0	1	2	0	12	14	0	Kodaikanal.
																													Ceylon—
8·6	+1·3	8·6	7·28	+1·61	1·82	22	12	+3·2	..	..	0	0	0	2	3	8	14	3	0	0	0	0	0	0	15	14	1	0	Colombo.
8·9	+1·4	9·0	6·97	+3·08	3·24	12	3	—2·4	..	..	0	0	0	0	0	30	0	0	0	1	0	0	0	0	29	0	0	0	Trincomalee.
8·9	+1·2	9·2	0·54	—2·12	0·29	14	2	—2·8	..	..	0	0	0	0	0	26	4	0	0	0	0	0	0	0	27	3	0	0	Hambantota.
7·	..	6·9	0·50	..	0·40	18	1	..	..	..	0	0	0	0	14	14	2	0	0	0	0	0	0	18	12	0	0	0	Mannar.

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. (I. S. T.) AT 4TH CLASS STATIONS—SEPTEMBER, 1947.
(2-30 HRS. G. M. T.)

STATION	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature 8 hrs. I. S. T. °F.	Mean wet bulb temperature 8 hrs. I. S. T. °F.	Vapour, pressure mbs.		Relative Humidity %		Mean cloud amount 8 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 8 hrs. I. S. T.	Departure from normal	Mean 8 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 8 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 . .	90·9	+2·3	97	1	80·6	+5·4	75	10	84·3	78·9	31·2	+0·7	77	—11	..	14·17	+6·79	4·25	20	14	+3·2	..	..
Kashmir																							
Jammu . .	88·5	—3·4	95	5	74·4	—0·7	66	26,27	78·3	74·5	27·2	+4·1	84	+13	5·2	23·25	+19·74	5·18	17	14	+9·9	N27E	..
Kargil (R) . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mysore																							
Balehonnur . .	74·5	—1·9	79	22	65·2	+0·7	59	30	67·5	66·6	21·9	+0·3	95	—1	..	9.80	—2·12	1·27	17	18	+2·0	..	..
Tibet																							
Yatung (Chumbi) .	64·9	+2·2	71	2	45·6	—1·5	39	17	55·8	54·9	14·3	+1·9	94	+6	7·3	2·87	—1·48	0·31	10	12	+1·0	..	..

(R) The Registers not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. (I. S. T.) AT 5TH CLASS STATIONS—SEPTEMBER, 1947.
(2-30 HRS. G. M. T.)

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 (R)							Kashmir	Sonamarg (R)						
West Bengal ..	Bankura ..	9·45	+1·58	1·58	2	16	+5·0		Gurez (R)						
	Cooch Behar (R)	..	..	..	..	..	..								
Bihar	Muzaffarpur ..	4·43	—4·22	1·30	13	10	+0·5	Bombay, Deccan ..	Khandala (R)						
	Chapra ..	7·47	—0·01	3·46	14	7	—1·7	Madras Southeast ..	Palamcottah ..	0·25	—0·98	0·25	22	1	—1·2
	Arrah ..	7·88	—0·31	1·64	6	13	+3·5	Sikkim	Lachung ..	2·43	—5·26	0·24	30	11	—3·2
United Provinces, West	Meerut ..	11·89	+6·03	4·25	25	14	+8·9								
East Punjab ..	Dharampore ..	22·13	—15·02	5·10	26	20	+12.5								
	Kyelang ..	9·85	+8·24	4·75	26	5	+2·4								
	Dalhousie ..	26·24	+19·39	7·41	26	18	+9·7								

(R) Registers not received.

MONTHLY WEATHER REPORT, SEPTEMBER, 1947

Monthly Means of Upper Winds

Note.—Data upto 9·0 Km. a. s. l. are given under Table A and data above 9·0 Km. under Table B. In Tables A & B,

n represents the number of observations,

V represents the mean speed in m/sec. irrespective of directions,

v represents the resultant mean velocity in m/sec.,

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

For the co-ordinates of the stations for which data have been published in these tables and other Particulars, please refer to the introduction to the Monthly Weather Report, January 1947, and the subsequent issues. The data for Minicoy have been included in the issue of January 1948.

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 Km. above sea level.

SEPTEMBER 1947

Height in km.	AHMEDABAD												ALLAHABAD											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	2·2	1·4	248	30	1·9	1·1	255	30	2·5	1·1	234	30	1·4	0·8	91	30	3·5	0·9	118	30	2·2	0·8	101
0·15 a. ground	29	6·3	3·3	250	30	6·0	3·8	271	30	5·5	2·5	244	30	5·9	2·4	146	28	5·2	1·7	134	30	4·3	1·7	93
0·6 a. s. l.	26	7·2	4·0	270	23	7·4	4·3	291	30	6·1	2·9	262	29	6·1	2·5	154	26	5·8	2·1	165	29	5·6	2·2	103
1·0 „	24	6·5	2·3	280	21	6·5	3·3	298	27	7·0	4·1	270	25	5·9	2·0	171	26	5·7	2·3	156	28	6·4	2·2	123
1·5 „	13	6·5	3·0	48	17	6·5	1·1	343	18	7·2	3·9	305	24	5·6	1·8	177	22	4·8	1·5	120	19	6·6	3·2	145
2·0 „	7	6·5	5·2	62	12	7·7	3·4	25	7	6·4	5·1	354	22	5·1	2·2	140	20	5·6	2·1	125	13	5·8	3·3	144
2·5 „	2	4·5	2·3	38	6	7·7	6·3	32	5	6·8	5·1	355	19	4·9	2·7	140	19	5·8	2·3	137	10	5·4	4·3	123
3·0 „	2	5·5	3·7	52	5	7·0	6·1	18	3	5·8	5·5	19	13	5·6	3·7	149	16	6·0	3·5	132	10	6·1	5·1	126
4·0 „					1	3·0	3·0	35	2	5·0	4·9	50					8	4·2	2·6	121	6	6·4	6·0	115
5·0 „					1	4·0	4·0	10	1	1·0	1·0	340					7	3·6	2·0	124	3	7·3	5·9	127
6·0 „					1	4·0	4·0	20									6	3·3	1·9	91	2	7·5	6·6	137
7·5 „																	3	4·8	3·9	143				
9·0 „																	2	4·7	2·1	142				

Height in km	AMBALA												ANANTAPUR								ASANSOL			
	0100				0700				1600				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	1	2·0	2·0	315	30	1·2	0·9	103	28	1·7	0·3	98	30	2·7	2·6	262	30	4·2	3·7	272	30	1·1	0·9	165
0·15 a. ground	1	5·0	5·0	330	25	4·7	3·4	112	26	4·0	1·7	81	25	9·1	8·9	257	27	8·4	7·7	272	20	4·1	3·5	169
0·6 a. s. l.	1	5·0	5·0	330	25	4·7	3·0	128	26	4·9	3·0	94	25	12·3	12·0	262	28	8·4	7·9	270	20	5·5	4·8	182
1·0 „	1	4·0	4·0	310	23	4·0	1·7	140	26	5·6	3·4	122	23	15·1	11·4	275	27	8·3	8·0	273	18	5·2	3·4	180
1·5 „	1	4·0	4·0	300	21	4·9	1·2	118	24	7·0	3·9	127	19	15·6	14·9	277	24	9·7	9·5	274	12	4·6	1·9	166
2·0 „	1	3·5	3·5	310	17	5·4	1·3	34	21	6·5	3·4	116	13	11·5	11·1	279	18	11·0	10·4	277	6	4·1	0·9	72
2·5 „					12	5·6	2·1	357	18	4·9	1·7	112	10	11·3	10·4	271	9	9·7	7·6	287	2	3·5	2·9	4
3·0 „					10	4·7	2·4	355	18	4·4	1·5	135	8	10·7	10·3	273	4	4·6	2·5	52	2	3·5	2·9	2
4·0 „					8	3·7	1·0	324	12	4·9	1·1	276	4	10·6	10·5	281	3	2·7	0·1	315				
5·0 „					6	3.8	2·3	246	9	5·8	4·8	262	3	7·2	4·5	286	1	5·0	5·0	15				
6·0 „					5	7·1	5·2	245	8	6·9	6·2	267	2	4·0	1·7	49	1	10·0	10·0	95				
7·5 „					1	3·0	3·0	150	4	12·0	11·2	249												
9·0 „									2	9·3	6·4	276												

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 Km. above sea level.

SEPTEMBER 1947

Height in km.	ASANSOL								BALASORE				BANGALORE								BAREILLY			
	0700				1600				0700				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·6	0·8	142	30	1·9	1·3	134	30	3·0	1·1	197	30	3·5	3·3	258	30	4·3	3·9	271	30	1·3	1·1	96
0·15 a.ground.	28	3·4	1·7	134	28	3·8	2·5	134	30	4·9	2·8	223	29	7·4	7·0	260	30	7·7	6·9	268	29	5·8	4·6	112
0·6 a. s. l.	23	4·5	2·4	200	28	4·2	2·4	138	30	5·6	2·8	222									29	7·2	6·0	123
1·0 „	19	4·9	2·3	204	25	4·8	2·7	147	29	6·2	2·9	225	29	6·2	6·0	258	30	6·4	5·5	269	23	6·9	6·0	123
1·5 „	16	5·1	1·6	173	20	4·8	3·0	161	29	6·4	2·0	215	9	12·4	11·7	267	30	7·5	6·8	275	23	6·3	5·0	123
2·0 „	14	5·0	2·1	120	11	4·3	2·5	190	26	5·7	2·0	223	5	12·6	12·0	275	27	7·3	6·7	280	20	6·7	5·1	119
2·5 „	9	4·1	2·2	70	7	3·4	1·2	142	24	5·5	2·3	205	4	9·9	8·7	286	16	8·5	7·9	278	16	5·5	3·8	109
3·0 „	8	4·2	1·5	86	6	4·2	1·0	99	24	5·7	2·9	207	2	3·7	1·5	244	12	7·5	6·4	280	14	5·4	3·5	106
4·0 „	1	6·0	6·0	75	4	5·9	2·7	86	19	5·9	2·6	202	1	6·0	6·0	260	9	5·6	3·8	295	7	3·6	1·4	53
5·0 „					3	6·5	5·0	86	17	5·1	1·7	181					7	5·9	1·8	351	6	4·0	1·2	335
6·0 „					2	5·7	4·1	85	11	5·4	2·1	183					2	11·5	11·5	22	3	3·7	3·4	268
7·5 „									7	8·1	7·0	137					2	9·3	2·8	9	1	3·0	3·0	225
9·0 „									3	7·0	6·2	130												

Height in km.	BAREILLY				BHOPAL												BHUJ							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·0	0·9	87	30	3·6	2·0	269	30	3·4	1·7	275	30	3·4	1·9	268	30	2·3	2·1	229	30	1·5	1·4	230
0·15 a. ground.	29	4·2	1·8	80	22	6·9	2·2	267	25	6·1	2·4	272	23	5·3	2·3	274	27	7·1	6·2	251	29	6·3	5·2	256
0·6 a. s. l.	29	4·5	2·7	98	9	7·9	0·6	116	25	5·5	2·0	284	16	6·7	1·9	254	25	9·1	7·2	260	25	8·9	6·4	274
1·0 „	29	5·1	3·3	114	1	4·0	4·0	130	18	8·3	2·8	289	4	5·5	2·9	263	23	8·0	4·7	261	22	7·7	4·5	281
1·5 „	26	6·4	4·6	118	1	4·0	4·0	140	13	7·0	1·3	294	1	7·0	7·0	280	12	6·2	1·3	319	14	6·3	2·2	317
2·0 „	22	6·0	3·3	123	1	4·5	4·5	120	7	7·4	3·3	133					9	4·9	2·0	33	11	6·4	3·2	32
2·5 „	14	5·1	1·1	124					4	6·4	3·5	152					6	6·0	5·6	36	8	7·7	6·2	29
3·0 „	14	4·8	0·9	113					1	3·0	3·0	80					4	6·9	5·5	39	7	6·9	6·2	45
4·0 „	10	4·5	1·1	15													1	4·0	4·0	75	5	5·0	1·8	122
5·0 „	6	4·5	3·1	307																	4	4·6	3·9	153
6·0 „	5	5·6	4·5	269																	3	5·3	4·5	206
7·5 „	4	6·9	6·7	269																	2	1·7	1·7	184
9·0 „	2	7·0	6·9	250																	1	4·0	4·0	180

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 Km. above sea level.

SEPTEMBER 1947

Height in km.	BHUJ				BIKANER								BOMBAY											
	1600				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	3·0	1·8	256	30	1·8	1·1	242	30	2·0	0·6	279	30	3·1	2·6	258	30	2·7	2·1	245	30	4·8	3·4	267
0·15 a. ground	28	6·8	4·8	263	30	6·0	4·3	247	30	4·7	1·3	312	22	5·9	5·3	254	28	5·6	4·0	238	27	6·9	6·3	267
0·6 a. s. l.	28	7·1	5·3	264	28	7·1	5·1	274	30	4·7	1·3	308	22	7·4	6·9	260	24	7·7	6·9	260	26	8·4	7·6	274
1·0 „	25	6·7	4·4	278	28	5·1	1·9	323	29	4·7	1·3	293	13	5·8	5·4	268	20	7·0	6·2	264	24	8·0	7·3	270
1·5 „	12	6·7	5·5	355	28	4·7	2·3	22	29	4·2	1·4	329	6	7·0	6·2	283	16	7·0	5·7	255	20	6·9	5·9	266
2·0 „	10	6·3	5·7	11	27	5·3	3·9	27	24	4·9	2·7	353	2	3·7	2·1	329	6	4·3	1·5	323	12	5·0	3·2	260
2·5 „	8	6·9	6·5	12	25	5·1	3·7	32	24	5·4	4·1	346					3	3·2	1·6	113	7	3·3	0·6	315
3·0 „	8	6·7	6·3	26	24	4·7	3·6	26	20	6·2	5·1	341					2	2·7	0·3	315	7	3·0	1·7	308
4·0 „	5	4·2	1·9	75	22	5·0	2·7	14	16	6·6	4·1	305					1	2·0	2·0	90	5	2·8	2·0	348
5·0 „	5	4·3	1·1	47	18	3·4	0·1	183	13	6·3	2·5	279									3	4·8	4·2	90
6·0 „	2	4·5	3·1	54	13	3·9	1·4	186	12	7·8	4·1	284									2	6·3	6·3	119
7·5 „					2	6·3	5·9	206	5	7·2	3·8	264												
9·0 „					1	8·5	8·5	260	3	8·3	7·6	246												

Height in km.	CALCUTTA												COCHIN											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·6	1·1	188	30	2·1	1·0	151	30	2·2	1·5	161	30	2·0	1·1	261	30	1·5	0·7	360	30	4·0	3·2	276
0·15 a. ground	27	8·0	5·3	177	28	4·2	2·0	182	30	4·1	3·3	169	21	3·0	1·3	284	28	3·1	1·3	300	30	4·7	4·1	272
0·6 a. s. l.	24	9·1	6·9	208	28	6·3	3·5	206	29	5·7	4·4	174	21	6·0	5·6	296	27	6·8	6·1	299	29	7·6	7·1	290
1·0 „	23	8·2	5·3	199	27	5·8	2·9	201	27	6·2	4·0	167	18	8·1	7·7	297	24	9·4	8·5	297	22	8·9	8·9	294
1·5 „	21	6·7	4·1	191	22	5·0	2·5	169	23	5·1	2·9	161	14	8·3	7·9	289	16	10·9	10·3	295	16	8·6	8·1	293
2·0 „	19	5·7	3·7	157	20	4·7	2·3	181	18	5·0	3·0	139	11	8·7	8·3	286	11	9·5	9·1	293	14	8·7	8·3	296
2·5 „	15	4·2	2·9	140	15	4·7	2·2	170	14	4·1	1·7	170	8	8·5	7·9	296	9	9·2	8·4	287	13	7·7	7·1	299
3·0 „	22	4·3	2·3	126	14	5·5	2·7	189	11	4·3	1·9	204	5	7·8	7·1	297	8	9·4	8·7	278	11	6·9	6·1	306
4·0 „	4	4·9	1·5	199	10	5·7	2·2	149	7	4·9	2·9	240	2	3·3	1·1	302	5	4·5	3·1	276	6	4·5	3·8	286
5·0 „					8	5·4	3·8	139	2	5·0	4·6	265					4	4·4	2·3	63	4	3·5	2·1	332
6·0 „					5	5·7	4·0	116	2	4·5	3·3	284					2	5·7	3·8	128	4	3·4	1·8	66
7·5 „					2	7·3	7·1	128													3	6·8	6·6	104
9·0 „																					1	12·0	12.0	110

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above sea level.

SEPTEMBER 1947

Height in km.	COOCH BEHAR								CUTTACK												DEOLALI			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·2	0·7	84	30	1·0	0·4	166	30	0·7	0·3	212	30	0·7	0·1	244	30	1·6	0·9	177	18	3·3	3·1	244
0·15 a. ground	22	3·3	2·1	86	28	2·9	1·3	185	28	4·8	2·6	210	30	4·4	1·5	210	30	5·3	2·8	163	18	6·5	6·2	241
0·6 a. s. l.	17	3·3	2·0	128	26	3·4	1·8	173	26	7·2	4·8	224	30	6·0	2·9	225	30	5·7	3·2	172	18	4·2	4·0	241
1·0 ,,	11	3·3	1·5	108	24	4·2	2·3	168	26	7·3	4·4	227	30	6·6	2·7	239	28	5·3	1·8	193	17	8·4	7·8	252
1·5 ,,	9	4·7	1·5	101	20	4·3	1·7	169	25	6·8	3·4	222	25	6·8	2·2	249	26	6·0	1·6	238	14	7·4	5·8	264
2·0 ,,	5	4·0	1·3	87	19	4·7	1·5	129	18	5·3	3·3	200	21	5·9	2·4	234	20	6·1	2·2	233	10	6·4	4·6	274
2·5 ,,	3	3·2	2·0	106	16	4·6	2·9	102	15	4·8	2·4	201	20	5·7	2·6	226	16	5·9	1·5	205	5	4·9	1·7	241
3·0 ,,	3	3·0	1·8	89	13	4·6	2·6	105	11	3·9	2·4	172	19	5·7	2·7	217	13	6·6	2·7	189	5	4·1	1·3	353
4·0 ,,	3	1·7	1·2	38	8	5·1	3·2	93	3	4·3	2·6	133	16	6·4	2·2	180	11	5·0	1·7	146	4	3·9	3·5	63
5·0 ,,	3	1·5	1·0	151	6	5·6	5·4	85					9	4·0	2·6	117	10	4·3	0·5	126	1	3·0	3·0	115
6·0 ,,	2	4·3	3·3	221	4	5·6	5·0	73					8	3·7	2·5	90	7	5·0	1·2	110	1	2·5	2·5	115
7·5 ,,	2	1·3	0·8	97	3	3·7	2·7	53					5	5·9	4·9	86	6	4·3	2·4	136				
9·0 ,,	2	4·0	2·7	107	1	3·5	3·5	150					3	8·5	8·4	90	4	6·6	5·5	79				

Height in km.	GADAG								GAYA												GOPALPUR			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	5·0	4·6	253	30	6·1	5·5	260	30	1·6	1·1	118	30	1·9	1·0	124	30	2·3	1·0	70	30	3·1	1·1	222
0·15 a. ground	30	8·7	8·2	258	30	9·0	8·1	262	28	4·3	2·8	145	30	4·3	2·3	159	30	4·2	2·0	70	29	4·4	1·4	247
0·6 a. s. l.									28	5·0	3·5	155	30	5·4	2·9	197	30	4·8	2·3	87	29	4·8	2·5	235
1·0 ,,	29	11·5	9·9	278	30	9·3	8·5	268	27	4·3	2·6	166	30	4·9	1·9	190	29	4·8	2·1	132	29	5·3	2·2	242
1·5 ,,	18	11·6	10·1	285	27	10·6	10·0	272	26	4·1	1·7	173	27	5·5	1·7	171	28	5·8	2·8	159	25	6·3	3·6	262
2·0 ,,	14	8·4	6·3	304	20	8·8	8·0	280	21	4·4	1·9	166	24	5·7	1·8	143	26	6·1	2·8	167	23	5·9	2·7	247
2·5 ,,	10	5·3	3·0	338	13	7·2	5·8	299	10	3·8	1·3	155	24	5·1	1·5	145	24	6·1	2·8	153	20	4·3	1·7	182
3·0 ,,	8	5·3	3·9	12	12	7·4	6·0	298	7	4·1	2·5	127	23	5·1	1·7	138	22	5·5	2·3	140	17	4·8	2·2	177
4·0 ,,	5	3·7	2·6	360	4	4·0	2·5	319					15	4·8	3·8	115	14	4·6	2·4	123	13	5·1	2·8	143
5·0 ,,	1	5·0	5·0	55	1	2·5	2·5	85					13	4·8	3·6	106	7	4·9	4·1	106	11	5·1	2·6	126
6·0 ,,	1	7·0	7·0	85	1	6·0	6·0	80					8	4·1	1·8	124	4	5·3	4·7	80	8	5·1	3·9	104
7·5 ,,													3	4·5	3·2	73	2	6·7	6·7	91	3	7·2	7·0	94
9·0 ,,													3	5·7	4·4	88	1	11·5	11·5	120	2	9·0	9·0	92

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 km. above sea level.

SEPTEMBER 1947

Height in km.	GOPALPUR				GORAKHPUR								HYDERABAD (Dn.)											
	1600				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	6·2	4·9	171	30	1·8	1·5	90	30	2·4	1·5	100	30	3·4	3·1	264	30	3·8	3·4	266	30	3·9	3·1	274
0·15 a. ground	30	6·8	5·3	173	26	5·2	3·9	96	29	4·8	3·0	102	30	7·6	6·3	270	30	7·3	6·1	274	30	6·3	4·7	280
0·6 a.s.l.	30	5·4	3·3	178	22	6·6	4·8	121	29	5·0	3·6	113	30	5·6	4·8	262	30	5·2	4·5	268	30	5·5	4·1	276
1·0 „	28	5·3	2·1	191	20	6·9	5·6	117	28	5·8	4·4	118	30	9·7	7·6	279	29	10·0	7·9	288	29	6·7	4·9	278
1·5 „	26	6·1	1·4	243	19	6·6	5·4	100	18	4·2	2·6	140	28	9·4	6·6	292	24	9·5	7·1	291	28	7·9	6·5	273
2·0 „	23	6·8	2·7	280	15	5·3	3·5	103	18	4·2	2·3	145	26	8·9	6·0	293	21	8·1	4·9	299	28	8·9	7·1	272
2·5 „	20	6·8	1·9	270	12	4·9	2·4	100	13	4·3	2·7	141	15	6·5	4·8	293	17	6·8	3·8	287	15	6·6	4·4	272
3·0 „	19	5·5	2·1	244	9	3·7	2·0	98	10	4·7	3·2	423	10	4·1	1·7	281	17	6·5	2·5	279	10	4·5	2·0	278
4·0 „	10	4·1	1·9	136	4	4·0	2·1	103	7	2·9	0·7	190					13	5·6	1·5	215	3	3·8	2·8	355
5·0 „	10	3·5	1·3	81	1	1·5	1·5	155	4	3·4	0·7	231					10	6·3	2·8	112	1	6·5	6·5	30
6·0 „	6	3·8	3·4	106													8	6·4	6·3	84				
7·5 „	2	3·3	3·3	96													3	7·0	6·8	91				
9·0 „	1	6·5	6·5	90																				

Height in km.	JAMSHEDPUR								JHARSUGUDA												JODHPUR			
	0700				1600				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·4	0·2	153	30	1·9	0·6	134	30	1·9	0·6	167	30	1·9	0·6	186	30	2·1	0·7	208	30	1·5	0·7	229
0·15 a. ground	29	3·1	0·7	185	30	4·2	1·2	135	26	5·5	2·6	172	28	4·5	1·2	169	30	4·4	1·2	207	27	6·5	3·5	214
0·6 a. s. l.	29	5·1	2·6	217	30	4·7	1·6	152	25	6·6	3·8	198	27	5·7	1·7	213	30	4·9	1·4	217	26	7·6	4·1	222
1·0 „	28	6·2	2·9	218	30	5·7	2·0	165	34	6·8	4·2	203	25	6·2	2·2	220	28	5·2	1·7	197	25	7·5	3·6	238
1·5 „	22	6·0	2·8	164	24	6·3	2·0	166	20	6·1	2·8	211	19	5·1	1·1	202	24	5·9	1·7	160	20	5·5	2·1	340
2·0 „	18	5·1	3·6	114	23	6·6	1·7	171	14	5·2	2·8	219	18	5·6	1·4	223	23	6·1	2·1	171	9	4·5	3·3	306
2·5 „	17	5·2	3·4	117	19	6·4	1·3	143	10	5·5	3·4	162	17	5·5	1·3	204	19	6·1	2·0	151	7	5·2	4·4	63
3·0 „	15	4·8	3·1	122	15	5·1	2·8	120	8	5·2	4·3	162	14	5·3	1·3	171	15	5·0	2·0	138	4	6·4	5·6	68
4·0 „	10	5·0	1·3	123	10	4·5	3·4	115	1	2·0	2·0	95	13	4·7	1·8	161	13	5·2	1·4	145				
5·0 „	6	5·4	0·7	21	7	3·9	1·5	87					11	4·9	3·1	127	9	4·7	2·8	124				
6·0 „	3	5·7	2·9	105	3	4·3	3·5	171					10	5·2	3·0	101	7	6·2	4·5	124				
7·5 „													6	6·0	5·2	79	2	3·7	3·2	77				
9·0 „													2	4·7	4·7	97								

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 km. above sea level.

SEPTEMBER 1947

Height in km.	JODHPUR								JUBBULPORE								MADHOSAGAR							
	0700				1600				0700				1600				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·7	1·1	223	30	3·3	1·9	222	30	1·5	0·9	237	30	2·0	1·0	256	30	2·4	1·3	247	30	3·1	0·6	322
0·15 a. ground	29	5·3	3·2	211	29	5·0	1·9	222	25	4·2	2·0	237	25	5·2	2·2	256	28	5·4	1·1	261	29	4·9	1·0	336
0·6 a. s. l.	28	7·1	5·1	204	29	5·7	1·8	212	25	4·8	2·2	244	25	5·5	2·4	257	22	6·8	1·2	333	29	5·2	1·4	334
1·0 „	22	7·2	3·6	203	27	5·4	1·7	235	22	7·0	2·1	250	25	5·7	2·5	255	20	7·0	0·9	9	27	5·1	1·2	331
1·5 „	18	6·6	1·7	321	24	5·0	1·2	354	19	5·8	0·7	104	22	6·2	2·1	231	17	6·6	0·9	90	21	5·7	1·0	50
2·0 „	15	6·5	4·5	42	18	5·6	3·8	27	18	6·2	2·2	114	18	7·1	2·4	216	14	6·6	2·5	131	11	5·9	2·8	93
2·5 „	14	8·0	6·0	43	14	6·8	6·3	68	16	6·6	3·3	104	15	6·7	2·5	201	10	5·7	2·0	71	5	8·1	7·4	140
3·0 „	7	5·7	5·1	74	11	6·6	5·5	75	15	6·8	3·5	113	13	6·8	2·6	180	8	5·1	1·7	93	4	7·1	6·4	134
4·0 „	5	7·3	6·6	60	7	8·4	6·2	63	7	7·3	3·5	152	11	5·8	2·3	130	4	5·6	2·7	176				
5·0 „	2	2·5	1·9	20	3	9·5	6·2	9	7	9·9	6·4	146	4	3·8	3·4	262	3	5·0	2·3	104				
6·0 „	2	3·5	0·7	3	2	3·3	3·3	258	4	6·5	2·0	218	2	3·7	2·6	258	3	3·7	1·9	99				
7·5 „					1	3·5	3·5	260	1	10·0	10·0	90					2	2·7	1·9	17				
9·0 „																	1	2·0	2·0	60				

Height in km.	MADRAS												MALEGAON											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	2·5	2·1	231	30	2·7	2·4	246	30	3·8	1·5	234	30	2·8	2·3	272	30	2·0	1·8	263	30	3·9	2·0	284
0·15 a. ground	30	6·4	5·3	229	30	7·8	6·9	255	30	5·1	2·1	240	25	7·3	6·6	271	30	6·4	5·5	270	27	8·1	5·7	271
0·6 a. s. l.	30	7·8	7·1	253	30	9·5	9·0	274	30	5·1	3·7	261	25	7·3	6·6	271	30	6·4	5·5	270	27	8·1	5·7	271
1·0 „	30	7·8	6·9	273	29	9·1	8·6	286	30	5·6	4·4	273	25	8·6	7·1	275	29	8·4	6·7	278	27	7·3	5·3	275
1·5 „	27	8·1	7·1	275	28	7·6	6·7	286	26	7·1	6·0	282	22	7·7	5·5	282	21	7·6	5·5	278	25	7·2	5·5	268
2·0 „	17	7·9	5·8	277	26	7·1	6·0	284	23	7·9	7·1	379	18	6·3	3·7	285	17	6·7	3·9	268	18	7·1	5·8	265
2·5 „	9	6·2	3·9	294	19	6·2	5·5	273	20	7·3	5·9	275	11	4·2	1·9	318	14	5·5	2·2	284	12	5·3	3·4	273
3·0 „	4	4·7	2·9	267	19	6·2	5·1	272	18	6·6	4·9	270	10	4·9	3·1	312	13	4·5	2·5	308	8	4·6	1·4	311
4·0 „					9	7·2	6·6	253	13	4·5	1·6	305	4	3·6	1·4	2	9	4·3	1·3	58	3	5·5	1·0	242
5·0 „					6	6·8	4·5	238	10	3·3	0·4	343					6	3·6	3·3	75	1	1·0	1·0	205
6·0 „					6	6·5	4·0	224	9	4·3	1·5	188					6	5·5	5·1	76	1	4·0	4·0	90
7·5 „					2	7·0	6·7	116	1	3·0	3·0	165					6	7·2	7·1	88	1	7·0	7·0	80
9·0 „									1	7·5	7·5	70					6	9·0	8·9	90				

Table A—Monthly Mean Directions and Velocities of Upper Winds,

Winds upto 9 km. above sea level.

SEPTEMBER 1947

Height in km.	MANGALORE												MASULIPATAM											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	29	2·2	0·9	265	30	2·1	0·3	103	30	3·9	2·6	275	30	1·1	0·9	226	30	1·1	1·1	243	30	2·0	1·2	252
0·15 a. ground	23	4·0	2·8	273	28	4·1	1·1	299	30	6·1	4·6	272	29	7·6	4·8	240	28	6·5	5·6	253	30	5·3	2·8	252
0·6 a. s. l.	21	6·4	5·6	291	27	6·4	5·5	290	27	7·5	6·8	287	29	9·1	6·9	251	28	8·5	7·4	262	30	6·0	4·5	270
1·0 „	17	7·7	7·0	293	20	8·3	7·8	293	21	7·9	7·3	292	29	8·6	7·1	266	28	8·9	7·4	270	29	7·1	5·4	278
1·5 „	11	8·1	7·7	281	11	8·0	7·7	288	14	6·8	6·4	298	25	8·3	6·6	273	28	8·5	6·8	281	26	8·4	6·6	279
2·0 „	4	6·1	6·1	286	8	7·3	6·9	289	9	5·0	4·5	300	19	6·7	5·1	287	26	7·6	5·5	279	26	8·5	6·2	276
2·5 „	1	7·5	7·5	280	3	7·7	7·6	300	7	4·0	3·7	308	14	4·6	3·0	299	24	6·2	4·0	287	25	8·2	6·0	268
3·0 „									5	3·6	3·1	303	11	3·8	1·5	297	21	5·7	2·6	291	22	8·0	5·7	268
4·0 „									4	4·1	2·7	294	6	2·7	1·7	86	16	6·0	1·4	245	15	8·2	6·3	262
5·0 „									2	5·5	5·5	287					13	5·5	2·8	103	10	6·1	2·5	206
6·0 „									2	1·7	0·5	72					11	5·8	4·9	102	8	5·7	1·2	115
7·5 „									1	1·5	1·5	240					10	7·7	7·3	103	6	7·1	5·6	89
9·0 „																	7	9·6	9·6	100	4	9·1	8·3	87

Height in km.	NAGERCOIL												NAGPUR											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	4·6	4·4	283	30	4·6	4·4	278	30	6·8	6·1	274	30	1·7	0·7	269	30	2·2	1·0	233	30	3·5	1·6	242
0·15 a. ground	29	10·3	10·2	295	29	9·5	9·4	295	30	12·1	11·9	276	27	5·7	2·4	293	30	5·6	1·8	284	28	5·5	2·3	244
0·6 a. s. l.	28	16·6	16·3	296	29	15·6	15·2	297	30	12·7	12·6	290	27	6·4	2·7	295	29	7·3	2·7	293	28	6·0	2·3	254
1·0 „	26	15·6	15·4	294	28	16·4	16·0	295	29	14·8	14·5	297	25	7·1	2·8	288	27	7·4	3·5	290	27	7·1	2·8	259
1·5 „	26	14·0	13·7	285	27	14·1	13·7	287	29	14·6	14·0	293	15	5·3	2·4	273	24	6·6	3·0	293	24	7·2	2·0	253
2·0 „	25	15·7	15·2	282	27	13·6	13·1	284	29	13·2	12·6	289	5	4·0	2·5	228	18	5·3	1·7	289	22	7·4	2·2	252
2·5 „	23	11·6	11·1	283	26	12·9	12·3	282	29	12·2	11·3	286	2	4·7	4·4	146	14	5·2	0·5	200	16	5·2	2·0	241
3·0 „	23	7·6	6·3	284	25	8·1	6·6	281	29	10·6	9·9	284	1	10·0	10·0	125	11	4·4	3·5	205	10	4·5	1·7	160
4·0 „	6	4·1	2·4	300	17	6·9	5·4	285	26	9·7	9·1	282					6	4·2	3·1	105	5	5·8	5·3	158
5·0 „	2	4·0	4·0	313	11	4·6	3·5	305	20	7·9	6·7	291					6	5·0	4·5	87	2	3·3	2·9	23
6·0 „	1	3·0	3·0	300	7	4·8	2·1	315	16	5·7	4·7	276					3	6·0	4·8	111	1	4·5	4·5	345
7·5 „					4	6·0	5·1	87	9	4·4	2·0	79												
9·0 „					2	11·5	9·8	75	8	7·6	5·7	88												

Table A—Monthly mean directions and velocities of upper winds.

Winds upto 9 km. above sea level.

SEPTEMBER 1947

Height in km.	NEW DELHI												POONA											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·5	0·6	59	30	1·7	0·1	326	30	2·7	0·3	295	30	1·9	1·9	271	30	1·3	1·3	266	30	3·5	3·5	272
0·15 a. ground	26	3·8	1·4	124	24	3·8	0·6	97	27	4·7	0·7	75	30	6·8	6·5	257	30	6·1	6·0	257	30	7·4	7·1	260
0·6 a. s. l.	26	4·1	1·7	148	23	4·5	0·7	128	27	4·7	1·0	83	30	4·9	4·8	275	30	4·1	3·9	255	30	5·5	5·3	260
1·0 „	23	4·6	1·5	149	17	4·5	0·6	162	27	4·5	1·0	105	30	8·3	7·9	265	30	8·7	7·9	267	30	8·5	8·0	263
1·5 „	21	4·9	0·1	250	14	5·5	0·3	142	26	5·3	0·6	120	20	9·3	8·7	270	25	9·5	8·3	270	26	9·8	9·3	267
2·0 „	13	4·8	0·9	6	12	5·5	0·5	95	22	5·6	0·4	135	16	6·9	5·3	266	20	6·1	4·2	277	17	8·2	7·0	273
2·5 „	6	4·7	2·9	198	12	5·3	1·0	111	15	5·0	0·7	293	12	6·0	3·4	274	16	4·6	1·9	276	10	6·0	4·5	266
3·0 „	5	4·0	1·9	153	10	4·8	1·8	70	12	4·3	2·6	309	10	5·1	3·3	326	15	4·2	2·1	301	8	4·6	3·2	278
4·0 „	1	2·5	2·5	25	7	3·9	1·4	96	5	3·3	1·4	5					13	3·9	2·5	35	6	2·5	1·9	354
5·0 „					2	4·5	4·1	184	4	4·1	1·7	325					8	6·3	2·6	106	2	3·7	3·1	78
6·0 „					2	4·3	4·3	150	2	6·0	2·7	273					4	6·3	6·1	90	2	5·7	4·9	75
7·5 „									2	6·5	0·5	276					3	5·8	5·2	77	1	10·0	10·0	85
9·0 „									1	11·0	11·0	290					2	6·5	6·3	62				

Height in km.	PORT BLAIR								RAIPUR												SAHARSA			
	0600				1700				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	3·0	2·7	241	30	4·9	4·7	249	30	2·3	1·5	216	30	1·9	0·8	225	30	2·2	1·1	260	30	1·0	0·8	88
0·15 a. ground	28	6·1	5·7	236	25	6·6	6·3	245	28	5·3	2·8	220	25	4·6	2·3	226	29	4·7	1·4	242	26	4·2	2·7	92
0·6 a. s. l.	28	8·0	7·5	241	23	8·3	7·9	245	28	6·1	3·3	230	25	5·6	2·9	238	29	4·7	1·5	244	21	4·0	2·3	118
1·0 „	25	6·9	6·4	246	22	7·6	7·2	249	24	6·5	3·1	244	18	5·9	2·8	255	26	6·3	3·2	248	20	4·6	2·8	106
1·5 „	24	6·7	6·1	246	15	6·8	6·3	247	11	4·5	0·8	169	15	5·1	1·7	257	16	6·6	1·3	196	17	5·6	3·4	94
2·0 „	21	6·4	5·7	247	9	6·7	6·4	245	6	3·9	1·5	86	8	3·5	1·8	127	9	7·9	3·1	239	17	5·7	3·8	93
2·5 „	19	4·8	4·1	249	7	5·3	4·9	244	1	2·0	2·0	170	7	4·1	2·0	145	5	4·5	2·9	247	16	5·8	4·0	100
3·0 „	17	4·7	3·9	239	5	5·5	4·7	249					5	4·7	4·0	164	3	5·3	2·4	248	14	5·1	3·4	100
4·0 „	10	4·3	3·2	229	3	4·0	3·8	234									1	2·0	2·0	45	10	4·1	0·9	129
5·0 „	6	4·2	2·1	229	2	4·0	2·1	221									1	4·0	4·0	25	8	3·6	2·0	112
6·0 „	2	4·0	2·7	170	1	2·0	2·0	80													7	2·9	1·4	96
7·5 „	1	7·5	7·5	60																				
9·0 „	1	11·5	11·5	75																				

Table A—Monthly mean directions and velocities of upper winds.

Winds upto 9 km. above sea level.

SEPTEMBER 1947

Height in km.	SAHARSA				TEZPUR												TRICHINOPOLY							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·5	0·6	119	30	0·5	0·1	82	30	0·7	0·3	88	30	0·5	0·3	217	30	4·7	4·6	273	30	3·5	3·4	271
0·15 a. ground	30	4·1	1·6	109	24	2·8	0·6	161	26	2·8	1·2	93	28	2·6	0·1	283	29	8·7	8·5	269	30	8·1	8·0	272
0·6 a. s. l.	30	5·1	2·6	126	24	3·2	2·0	235	22	3·2	1·7	125	28	3·1	0·5	232	29	13·2	13·1	276	30	13·1	13·0	274
1·0 „	28	5·6	2·8	117	22	3·5	1·5	237	20	4·0	1·5	110	27	4·1	1·4	216	29	11·5	11·2	275	30	11·8	11·3	278
1·5 „	24	5·5	2·5	134	17	4·7	2·3	241	13	4·1	1·4	98	26	4·9	2·0	217	29	7·7	7·1	273	30	9·2	8·5	279
2·0 „	20	4·7	1·3	153	16	4·7	3·1	232	12	4·7	0·8	148	25	5·1	2·0	207	29	6·9	6·2	280	30	8·0	7·1	277
2·5 „	14	4·3	1·3	230	15	4·5	3·3	230	10	4·5	1·3	129	24	5·3	2·1	215	21	6·8	6·2	280	27	7·1	6·4	277
3·0 „	12	4·3	0·3	206	12	5·6	3·4	227	9	4·2	2·5	109	23	4·8	1·5	219	20	6·4	5·7	282	24	6·3	5·9	277
4·0 „	7	3·8	0·9	242	3	3·3	2·0	184	7	3·7	3·4	116	21	3·8	0·7	271					10	5·2	3·9	293
5·0 „	2	2·7	1·8	99					5	4·8	3·5	131	19	3·9	1·5	88					7	3·8	2·2	245
6·0 „	2	2·3	2·1	38					4	4·4	3·2	145	17	4·5	2·4	100					6	4·3	1·5	220
7·5 „	2	7·5	2·1	347					3	5·5	3·4	135	11	5·2	1·1	154					5	7·0	4·4	128
9·0 „	1	6·0	6·0	10					1	6·5	6·5	90	2	7·5	5·9	121					3	10·2	9·0	77

Height in km.	TRICHINOPOLY				TRIVANDRUM				UDAIPUR												VENGURLA			
	1600				0700				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	4·3	3·4	274	30	2·4	2·1	341	30	0·8	0·6	224	30	0·6	0·4	232	30	2·2	1·2	256	30	0·5	0·5	225
0·15 a. ground	30	6·3	5·0	275	28	5·9	5·3	330	25	3·8	2·1	274	24	3·4	2·3	284	27	5·0	1·1	105	24	5·0	3·9	294
0·6 a. s l.	30	6·6	5·8	271	27	10·2	9·7	306													23	7·5	6·3	295
1·0 „	30	7·1	6·5	271	22	11·3	10·9	300	25	6·5	2·5	292	24	4·9	2·3	303	27	4·9	1·5	297	15	8·0	7·4	295
1·5 „	30	7·0	6·7	271	21	11·8	11·3	297	23	5·5	1·1	328	20	5·7	2·7	356	24	4·9	1·4	326	9	6·4	6·2	287
2·0 „	30	8·3	7·8	271	10	12·2	11·9	304	23	5·0	2·2	34	17	5·6	3·5	33	20	5·1	2·1	25	3	4·8	4·8	302
2·5 „	24	8·3	8·1	275	6	8·9	8·5	310	13	4·2	2·7	40	11	5·3	4·3	55	15	5·0	2·6	49	3	5·7	4·3	307
3·0 „	22	7·1	6·8	287	2	9·0	9·0	331	5	3·5	3·2	59	7	4·9	3·4	46	13	4·1	2·0	55	1	4·0	4·0	270
4·0 „	16	5·6	4·3	285	1	5·0	5·0	315					4	3·0	2·6	56	10	4·0	1·1	16				
5·0 „	12	4·0	2·3	284									3	2·2	2·1	41	10	4·9	0·1	6				
6·0 „	9	4·3	1·1	8									1	2·5	2·5	85	6	5·0	0·2	289				
7·5 „	5	8·1	7·4	123									1	1·5	1·5	85								
9·0 „	4	11·8	11·5	108																				

Table A—Monthly mean directions and velocities of upper winds.

Winds upto 9 km. above sea level.

SEPTEMBER 1947

Height in km.	VENGURLA								VERAVAL												VIZAGAPATAM			
	0700				1600				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	0·5	0·4	268	30	2·9	2·4	265	17	7·3	7·1	256	17	6·2	5·9	255	17	6·5	6·1	256	30	0·8	0·7	257
0·15 a. ground	29	4·2	2·2	284	30	6·5	5·9	280	17	7·7	7·3	248	17	9·6	9·3	254	16	8·6	8·4	252	29	5·2	4·4	252
0·6 a. s. l.	28	8·0	6·8	287	27	9·2	8·3	286	17	9·1	9·0	255	16	10·7	10·6	255	16	9·4	9·2	260	28	6·6	5·4	248
1·0 „	20	7·9	7·1	301	15	8·1	7·7	293	8	8·3	8·2	257	14	12·0	11·8	255	13	9·7	9·6	263	28	7·8	5·7	254
1·5 „	14	7·0	5·9	296	11	6·0	5·3	300	4	7·0	6·7	245	10	10·1	9·7	245	10	7·9	6·6	261	27	8·1	5·5	260
2·0 „	7	5·5	4·0	297	8	3·9	3·6	311	1	9·0	9·0	235	6	6·8	5·9	239	6	5·8	4·3	282	20	6·5	3·7	261
2·5 „	6	3·7	2·2	334	5	3·3	2·0	280					2	4·0	3·7	199	6	5·2	3·3	296	11	4·7	2·7	254
3·0 „	6	3·7	0·9	4	5	3·7	2·4	295					1	1·0	1·0	245	5	5·1	3·9	335	10	4·4	2·4	245
4·0 „	3	3·8	3·5	41	4	4·9	2·8	325					1	1·0	1·0	340	2	6·0	6·0	348				
5·0 „	1	5·5	5·5	105	4	4·1	2·2	356					1	2·0	2·0	95	1	4·5	4·5	30				
6·0 „					3	7·0	4·6	80									1	5·5	5·5	355				
7·5 „					1	3·5	3·5	35																
9·0 „					1	7·0	7·0	360																

Height in km.	VIZAGAPATAM																							
	0700				1600																			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·0	0·7	270	30	2·5	2·0	170																
0·15 a. ground	28	4·6	3·3	262	28	5·8	4·6	190																
0·6 a. s. l.	27	6·8	4·7	255	28	6·1	3·9	220																
1·0 „	26	6·7	4·2	263	28	5·9	3·2	245																
1·5 „	25	7·6	5·5	272	27	6·3	3·1	276																
2·0 „	24	7·1	5·0	276	26	6·7	3·2	280																
2·5 „	21	6·3	3·3	277	26	6·3	2·8	267																
3·0 „	19	5·7	2·2	233	25	6·2	2·4	260																
4·0 „	16	4·3	0·9	217	23	6·8	1·9	242																
5·0 „	15	5·5	2·9	110	20	5·9	1·0	236																
6·0 „	14	6.1	3·9	110	13	4·7	2·7	108																
7·5 „	10	7·5	7·3	104	11	5·5	4·1	85																
9·0 „	6	10·3	10·3	103	6	9·5	9·4	88																

Table B—Monthly mean directions and velocities of upper winds.

Winds above 9 km above sea level.

SEPTEMBER 1947

Height in kms.	n	V	v	D	Ht. in kms.	n	V	v	D	Ht. in kms.	n	V	v	D	Ht. in kms.	n	V	v	D
		AMBALA					MADRAS					SAHARSA							
10·0	1	14·0	14·0	270	10·0	1	15·0	15·0	90	10·0	1	5·5	5·5	325					
11·0	1	13·0	13·0	270	11·0	1	19·5	19·5	85			TEZPUR							
12·0	1	15·5	15·5	265			MASULIPATAM			10·0	2	8·7	7·5	112					
		BAREILLY			10·0	2	10·7	10·7	74	11·0	2	7·7	7·3	92					
10·0	2	8·5	7·3	255	11·0	1	13·0	13·0	85	12·0	2	7·7	7·5	88					
11·0	2	7·7	7·5	265	12·0	1	12·0	12·0	100			TRICHINOPOLY							
12·0	1	10·5	10·5	275			NAGERCOIL			10·0	2	20·5	20·5	87					
		BIKANER			10·0	7	12·3	10·1	88	11·0	1	16·0	16·0	95					
10·0	1	5·0	5·0	315	11·0	6	16·4	15·7	99	12·0	1	20·0	20·0	90					
		COOCH BEHAR			12·0	5	21·0	19·9	102	13·0	1	15·5	15·5	80					
10·0	1	4·5	4·5	125	13·0	3	22·2	21·9	90	14·0	1	26·0	26·0	285					
11·0	1	6·0	6·0	80	14·0	2	33·5	33·4	90			VIZAGAPATAM							
12·0	1	4·0	4·0	110	15·0	2	36·7	36·7	90	10·0	4	10·5	10·4	92					
					16·0	2	30·7	30·7	84	11·0	1	13·0	13·0	115					
		GOPALPUR								12·0	1	18·5	18·5	100					
10·0	1	10·0	10·0	100			NEW DELHI			13·0	1	22·0	22·0	105					
11·0	1	11·5	11·5	85						14·0	1	19·5	19·5	90					
12·0	1	11·5	11·5	85	10·0	1	11·0	11·0	260	15·0	1	21·5	21·5	90					
13·0	1	16·5	16·5	80	11·0	1	11·0	11·0	270										
14·0	1	21·5	21·5	80	12·0	1	9·0	9·0	270										

[illegible]DGOb—200—27.12.52—[illegible]

Registered No. B-3097.

INDIA WEATHER REVIEW, 1947

Monthly Weather Report

October

MAY 1 1953
WEATHER BUREAU

Published by authority of the Government of India.

Chief features.—(*1*) One cyclonic storm and a depression from the Bay of Bengal both of which crossed the Arakan Coast and caused very heavy rains there ; (*2*) three western disturbances.

The monsoon continued to be active in northeast India during the first ten days of October and caused local or widespread rain there. Weather became unsettled in the west Central Bay on the 9th and continued so while shifting northwards till the 15th. This was responsible for local or widespread showers along the Orissa-Circars coast between the 9th and 15th and in Chota Nagpur from 8th to 12th.

During the first fortnight of the month, except for local showers for two days in the beginning and towards the end, weather was generally dry in the Peninsula.

A western disturbance moving across the northwest frontier between the 2nd and 5th induced a secondary ' low ' over the northeast Arabian Sea on the 4th. The latter weakened into a trough of low extending from northeast Arabian Sea to the southwest Punjab by the next day. These were responsible for local showers in east Gujarat, east Rajputana, Central India, the east Punjab, the west United Provinces, and the north Central Provinces between the 2nd and 4th.

A depression formed in the northeast Bay of Bengal off the Arakan coast on the 15th morning and crossed coast near Chittagong by the next day. It caused some very heavy downpours in southeast Bengal. About the same time a low pressure wave started moving westward from the south Andaman sea and crossed the extreme south of the Indian peninsula. It strengthened the northeast monsoon in the southern regions of the country and widespread rain fell in the Madras Presidency and Mysore from the 15th to 22nd with some locally heavy falls in the extreme south.

Weather again became unsettled in the south Andaman sea on the 20th and a deep depression formed on the 21st with its centre about 200 miles south of Port Blair. It rapidly intensified into a severe cyclonic storm, moved northwestwards first and then curving towards northeast, crossed coast near Cox's Bazar on the 24th morning. The Storm weakened even before crossing coast ; but associated with it, widespread heavy rain fell in southeast Bengal and the high winds and rain are reported to have caused considerable damage to buildings in the Chittagong—Cox's Bazar area. Widespread rain fell in Assam also on the 24th.

A secondary of a western disturbance that was moving far north of the country caused local showers in west Rajputana and scattered showers in east Rajputana and Kashmir on the 23rd.

After the 25th of the month, weather was mainly dry over the country except for scattered thundershowers in the south Peninsula.

The rainfall of the month was in large excess in Assam, Chota Nagpur and west Rajputana and in slight excess in the Bay Islands. It was normal in west Bengal, Orissa, Bihar and west Central India and in slight defect in the west United Provinces, the east Punjab, south Hyderabad, Mysore and the Madras Presidency outside Malabar. Elsewhere it was in moderate to large defect except in Berar where no rain fell. Average over the plains of India, the rainfall for the month was 19% in defect.

The maximum temperature was below normal in the west United Provinces, the east Punjab, Rajputana, Gujarat, west Central India, Berar, Hyderabad and the Madras Deccan. The minimum temperature was normal. Relative humidity was in excess in the west United Provinces, the east Punjab, Rajputana, Gujarat and Central India. Cloud amount was in excess in the Bay Islands, northeast India outside Bihar and in the east Central Provinces and below normal in Gujarat, Central India, Berar, the Konkan and north Hyderabad. Elsewhere it was normal.

Data from Kashmir are absent.

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.

N.B.—The Indian Standard Time used in this publication is 5 hours and 30 minutes in advance of G. M. T.

S. BASU

	Rainfall.				Departure from normal of				
							8 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	"	"	"		°	°	mds.	%	
1. Assam ..	7·65	4·76	+2·89	+61	—1·6	+0·7	—0·3	+2	+1·5
2. West Bengal ..	4·49	4·75	—0·26	—5	—0·4	—0·2	—0·5	+1	+1·7
3. Orissa ..	5·21	5·81	—0·60	—10	—1·7	—1·1	—0·5	+2	+1·3
4. Bihar ..	3·35	2·59	+0·76	+29	0	—0·3	+0·2	+2	+0·6
5. United Provinces	0·86	1·34	—0·48	—36	—1·3	+0·3	+1·1	+6	—0·1
6. East Punjab ..	0·45	0·58	—0·13	—22	—3·1	+0·7	+1·1	+11	+0·1
7. Rajputana ..	0·57	0·34	+0·23	+68	—3·1	—0·7	+2·1	+10	—0·1

	Rainfall.				Departure from normal of				
							8 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.	"	"	"		°	°	mbs.	%	
8. Bombay ..	1·15	2·55	—1·40	—55	—2·1	—1·3	—0·1	+5	—0·7
9. Central India	0·92	1·44	—0·52	—36	—1·4	—1·1	+0·2	+9	—0·6
10. Central Provinces and Berar.	1·22	2·29	—1·07	—47	—1·7	—0·6	—0·8	+2	+0·3
11. Hyderabad ..	1·15	2·31	—1·16	—50	—2·5	—1·4	—1·3	+1	—0·5
12. Mysore ..	5·26	6·08	—0·82	—13	—1·3	—0·4	—0·4	+1	—0·3
13. Madras ..	6·07	8·12	—2·05	—25	—0·9	—0·4	—0·3	+1	+0·2
Mean of India ..	2·50	3·09	—0·59	—19	—2·1	—0·6	+0·1	+4	+0·1

Sub-division									
1. Bay Islands..	14·81	12·51	+2·30	+18	+0·5	+0·8	+0·5	+2	+1·6
2. Assam ..	7·65	4·76	+2·89	+61	—1·6	+0·7	—0·3	+2	+1·5
3. West Bengal	4·49	4·75	—0·26	—5	—0·4	—0·2	—0·5	+1	+1·7
4. Orissa ..	5·21	5·81	—0·60	—10	—1·7	—1·1	—0·5	+2	+1·3
5. Chota Nagpur	5·58	2·66	+2·92	+110	—0·9	—0·1	+0·6	+3	+1·1
6. Bihar ..	2·46	2·56	—0·10	—4	+0·5	—0·5	—0·1	+1	+0·3
7. United Provinces, East.	0·99	1·79	—0·80	—45	—0·3	+0·5	+0·1	+3	—0·1
8. United Provinces, West.	0·73	0·89	—0·16	—18	—2·4	0	+2·2	+11	0
9. East Punjab.	0·45	0·58	—0·13	—22	—3·1	+0·7	+1·1	+11	+0·1
10. Kashmir ..	Data incomplete.								
11. Rajputana, West.	0·78	0·16	+0·62	+387	—2·4	+0·3	+2·9	+9	—0·1

Sub-division—contd.									
12. Rajputana, East.	0·36	0·53	—0·17	—32	—3·7	—1·5	+1·5	+11	—0·1
13. Gujarat	0·14	0·82	—0·68	—83	—3·2	—0·9	+0·5	+7	—0·6
14. Central India, West.	1·13	1·13	0	0	—2·3	—1·3	+0·3	+11	—0·4
15. Central India, East.	0·64	1·84	—1·20	—65	—0·1	—0·9	0	+6	—0·8
16. Berar ..	0	1·87	—1·87	—100	—2·6	—1·6	—1·5	+2	—1·1
17. Central Provinces, West.	0·70	1·68	—0·98	—58	—1·5	—1·0	—0·9	+1	+0·4
18. Central Provinces, East.	2·34	3·20	—0·86	—27	—1·6	+0·2	—0·5	+3	+0·8
19. Konkan ..	2·65	5·32	—2·67	—50	—1·7	—1·2	—0·3	+2	—1·6
20. Bombay Deccan	1·48	3·05	—1·57	—51	—1·0	—1·7	—0·7	+2	—0·6
21. Hyderabad, North	0·35	2·02	—1·67	—83	—2·9	—1·2	—1·8	—1	—0·9
22. Hyderabad, South	2·21	2·70	—0·49	—18	—2·1	—1·5	—0·9	+2	—0·1
23. Mysore ..	5·26	6·08	—0·82	—13	—1·3	—0·4	—0·4	+1	—0·3
24. Malabar ..	4·72	10·63	—5·91	—56	—0·7	+0·1	+0·1	+1	—0·3
25. Madras, South-east.	7·42	8·39	—0·97	—12	—0·3	—0·2	—0·1	+2	+0·3
26. Madras, Deccan	3·59	4·49	—0·90	—20	—2·5	—1·5	—0·2	+3	—0·1
27. Madras, Coast, North.	6·42	8·48	—2·06	—24	—1·0	—0·3	—0·9	0	+0·6

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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 ..	261	1002·5	+0·5	999·9	84·4	+0·5	87	10,19,28	74·6	+0·8	71	24	80·4	78·3	77·2	75·8	30·5	+0·5	30·3	86	+2	89
Assam																						
Dibrugarh ..	348	1001·3	+0·3	997 9	82·2	—2·1	87	10,18	69·5	0	61	30,31	72·7	77·7	71·0	74·7	25·3	—0·4	28·0	92	+7	86
Sibsagar @. ..	317	1002·2	+0·4	998·3	82·1	—2·2	88	5,19	70·5	—0·1	63	26,29,31	74·6	77·4	72·9	74·2	26·9	—0·5	27·5	93	+2	86
Tezpur	258	1004·3	+0·2	1000·1	85·1	—1·2	92	11,12	70·7	—0·5	62	30,31	75·2	80·4	72·8	75·4	27·3	+1·0	27·8	88	+3	79
Gauhati	182	1006·3	+0·3	1002·2	85·4	—1·6	93	12	70·6	—0·4	62	26	76·2	80·7	72·9	74·3	26·0	—0·9	26·0	85	—1	73
Dhubri	115	1008·2	0	1005·1	83·5	—0·8	88	5,12,18	72·2	—0·6	65	28	75·8	79·9	73·2	74·9	26·8	—0·4	28·3	88	+3	78
Silchar	96	1009·4	+0·4	1005·8	83·9	—4·4	91	11	71·5	—0·7	63	31	74·9	79·7	73·1	75.4	26·9	—1·4	28·0	92	+7	81
West Bengal																						
Dum Dum ..	33	1010·5	..	1007·4	87·8	..	92	9,10	74·2	..	65	28	80·0	81·9	75·2	74·4	27·6	..	25·7	79	..	70
Calcutta	21	1010·8	+0·2	1007·6	88·9	—0·3	95	8,18	75·0	+1·2	66	31	78·3	81·7	75·6	75·5	28·7	+0·2	27·6	88	+3	74
Saugor Island ..	10	1010·6	—0·1	1007·9	85·3	—1·5	89	10	76·3	0	69	28	81·0	81·8	76·2	76·2	28·6	—1·0	28·3	79	—2	76
Sandheads (*R*)	28	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Midnapore ..	149	1006·2	+0 1	1003·2	88·7	—0·4	93	4 days	72·7	—0·7	62	28	77·9	83·4	74·0	74·9	26·9	+0·2	25·7	78	0	66
Burdwan ..	106	1008·2	+0·4	1004 8	88·6	—0·5	93	3,9	73·8	—0·4	66	4 days	79·1	84·1	74·4	76·0	27·0	—0·3	27·0	79	—1	68
Krishnagar ..	48	1009·7	—0·1	1006·9	90·0	+0·5	94	9,10,12	72·9	—0·1	63	28	78·8	83·3	75·4	75·6	28·5	+0·5	26·8	85	+9	70
Asansol	414	997·5	+0·3	994·2	88·5	—0·5	92	3	70·9	+0·1	61	27,28	77·5	81·9	73·2	74·6	25·8	+0·1	25·8	81	+2	70
Berhampore ..	62	1009·5	+0·1	1006·3	89·8	+1·4	95	4	73·2	—0·7	65	28	79·9	82·6	75·1	75·4	27·5	—0·5	26·9	78	—3	70
Malda	103	1008·2	+0·2	1005·1	87·0	—1·1	92	12	72·2	—0·1	64	27	79·6	81·8	74·0	75·0	26·2	—1·5	26·4	76	—2	72
Jalpaiguri ..	271	1002·9	+0·3	999·3	85·2	—1·5	91	11	69·3	—1·0	60	28,29	73·2	82·7	70·3	74·2	23·9	—2·2	24·9	86	0	65
Orissa																						
Balasore	65	1009·2	+0·3	1006·2	87·0	—1·4	91	6,24	73·6	+0·3	62	23	78·5	81·6	74·2	75·6	26·8	—0·7	27·5	80	—1	75
Chandbali ..	20	1010·8	+0·4	1007·9	87·2	—0·7	..	..	74·2	—0·4	64	28	78·9	80·1	75·4	75·3	28·5	—0·4	27·7	85	+1	78
Puri	20	1010·7	+0·5	1007·9	87·3	—1·3	91	9	75·8	—1·2	70	24,25,28	79·6	83·4	75·1	75·8	27·9	—1·1	27·0	80	0	70
Gopalpur	56	1009·4	+0·4	1006·6	86·7	—1·5	90	8 days	73.6	—1·0	66	28	78·1	82·1	74·6	75·7	27·7	—0·2	27·4	84	+3	74
Cuttack	87	1008·2	—0·1	1005·2	89·4	—0·3	94	7,10	74·4	0	65	28	78·0	81·0	74·1	75·4	26·9	—0·5	27·6	82	+1	67
Angul	455	996·1	+0·7	993·0	86·9	—1·6	90	6 days	71·8	+0·2	61	28	76·2	81·5	72·4	74·4	25·4	—0·4	25·9	82	+2	71
Sambalpur ..	486	995·0	+0·2	991·8	87·8	—1·0	96	6 days	70·6	—0·9	59	28	75·1	83·4	72·2	74·1	25·6	+0·2	24·5	86	+7	64

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION
											8 hrs. I. S. T.										17 hrs. I. S. T.									
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
8·1	+1·6	9·0	14·81	+2·30	2·58	5	16	—0·7	7·9	+0·3	2	3	7	3	0	7	6	1	2	1	4	5	3	1	4	7	3	3	Port Blair.
																													Assam
7·5	+2·3	5·1	15·00	+9·01	2·43	2	15	+6·4	1·2	+0·5	8	8	11	1	0	1	2	5	0	3	3	2	1	1	1	1	3	16	Dibrugarh.
9·3	+1·9	6·2	8·80	+3·63	1·63	24	13	+5·1	2·4	+1·0	3	10	5	3	3	1	0	1	5	6	9	1	1	0	1	0	1	12	Sibsagar.
5·6	+1·0	3·4	6·50	+2·40	1·60	9	11	+4·7	1·5	0	0	6	16	3	1	1	0	0	4	0	2	11	0	0	0	0	0	18	Tezpur.
5·7	+0·4	4·8	2·57	—0·21	0·65	4	7	+2·8	2·4	+1·2	10	4	1	4	1	2	1	6	2	2	6	2	3	2	9	0	1	6	Gauhati.
5·8	+2·1	4·8	2·81	—2·09	1·50	7	6	+1·0	3·9	+0·7	2	10	5	1	0	5	1	0	7	1	3	4	2	1	8	3	0	9	Dhubri.
6·7	+1·7	5·0	12·00	+4·75	1·98	13	14	+6·1	1·1	+0·1	4	6	5	6	0	2	1	1	6	3	0	1	2	1	2	5	2	15	Silchar.
																													West Bengal
6·2	..	6·5	2·01	..	1·15	14	6	..	..	..	7	3	3	0	1	1	1	2	13	7	0	2	1	5	1	1	2	12	Dum Dum.
5·3	+1·5	6·3	13·27	—1·21	1·06	4	6	—0·2	1·5	—0·6	3	3	2	1	1	2	1	1	17	2	1	0	2	3	2	0	1	20	Calcutta.
5·8	+0·7	5·5	4·22	—3·85	1·70	12	8	+0·5	6·2	+0·4	6	5	0	1	3	5	3	4	4	3	2	1	4	5	6	2	4	4	Saugor Island.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Sandheads. (R)
6·1	+2·9	5·6	3·40	—0·40	1·10	7	4	—1·6	1·7	+0·3	9	9	1	1	0	1	2	2	6	3	10	2	4	2	1	0	0	9	Midnapore.
5·7	+2·0	5·3	4·00	—0·70	1·52	2	7	+2·6	2·1	+0·8	4	2	3	1	0	4	1	3	13	1	5	3	1	3	1	1	0	16	Burdwan.
5·3	+1·7	5·7	2·64	—1·60	1·08	5	4	—1·0	1·3	—0·5	2	1	0	4	2	0	3	0	19	2	1	1	2	3	0	0	0	22	Krishnagar.
4·5	+0·9	5·0	3·12	—1·22	1·93	12	5	—0·5	2·3	—0·7	4	1	2	1	1	0	3	9	10	4	3	4	1	1	0	3	1	14	Asansol.
5·5	+1·9	5·3	4·28	+0·64	1·56	9	6	+1·5	0·7	—0·7	4	0	2	0	4	0	0	0	21	1	0	5	0	3	0	0	0	22	Berhampore.
4·2	+2·0	4·0	4·80	+0·45	1·86	6	6	+1·7	2·7	—0·1	6	2	4	3	6	4	1	2	3	2	5	2	0	0	1	3	3	15	Malda.
4·7	+1·8	3·5	7·21	+1·65	2·84	14	7	+1·5	2·5	+1·3	6	5	7	1	0	0	0	2	10	2	2	3	2	2	6	3	1	10	Jalpaiguri.
																													Orissa
6·2	+2·3	6·2	6·07	—0·36	2·27	12	7	+0·6	1·7	—0·1	9	2	0	1	1	2	1	6	9	0	3	1	2	2	1	0	2	20	Balasore
(*f*) 4·7	+0·4	(*f*) 4·5	4·96	—2·67	..	..	(*f*) 7	—	(*f*) 2·6	—1·1	11	0	0	2	0	0	4	6	2	2	5	6	5	1	0	0	1	5	Chandbali.
5·0	+1·3	5·7	7·18	—0·03	2·37	13	8	+0·7	6·0	—0·4	16	6	0	2	0	0	3	3	1	1	6	3	13	1	5	0	2	0	Puri.
6·1	+2·6	6·3	7·77	—0·83	3·26	13	9	+2·1	5·5	—0·2	15	1	0	2	0	1	0	11	1	7	6	9	4	2	1	1	1	0	Gopalpur.
5·2	+1·2	5·8	2·20	—3·14	0·90	3	6	—0·3	2·2	+0·9	2	0	2	0	0	0	5	5	17	1	6	4	0	0	1	1	3	5	Cuttack.
5·0	+0·6	6·3	5·08	+1·14	1·09	4	8	+2·3	3·5	+0·4	0	1	0	0	0	0	9	7	14	2	2	3	1	1	0	1	7	14	Angul.
4·8	+1·4	5·8	4·94	+1·90	1·52	4	5	+1·5	2·5	+0·2	6	10	0	0	1	1	0	0	13	4	13	0	1	1	1	0	1	10	Sambalpur.

(*f*)—mean of 25 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
Chota Nagpur.																						
Jamshedpur ..	423	997·2	+0·3	993·8	88·0	—1·7	91	1,2,6	71·2	+0·1	60	28	75·7	83·0	71·6	73·5	25·1	+0·6	23·9	81	+3	63
Chaibasa ..	742	986·1	+0·4	982·9	88·2	0	92	6,7	70·4	+0·3	60	28	74·7	82·6	71·5	74·6	25·0	+0·6	25·6	84	+5	69
Ranchi ..	2,150	938·9	+0·3	936·3	82·7	—0·4	87	1,2	64·7	—1·5	55	23	72·9	76·8	67·5	68·7	20·4	+0·4	20·3	75	+6	66
Hazaribagh ..	2,006	943·9	0	941·4	82·9	—0·7	87	1,4,6	64·6	—1·9	55	27,28	74·3	75·2	67·4	67·7	19·8	+0·4	19·7	70	+2	67
Daltonganj ..	725	987·3	+0·6	983·6	87·7	—1·4	92	1	67·3	+0·8	56	27	74·9	81·5	69·9	71·4	22·7	+0·8	21·7	76	—3	60
Dhanbad ..	839	982·7	..	..	84·3	..	89	4	67·8	..	58	27	77·2	..	72·1	..	25·5	..	..	77	..	..
Bihar.																						
Purnea ..	124	1007·7	+0·3	1004·3	88·5	+0·6	93	[illegible]	69·7	—1·1	61	27,31	78·5	82·9	73·8	76·5	26·4	—0·3	28·2	79	—4	74
Darbhanga ..	161	1006·5	+0·5	1003·1	89·3	+1·1	93	11	70·3	—1·3	62	22,30	78·4	85·6	73·3	76·3	25·7	—0·2	26·6	77	+3	64
Motihari ..	218	1004·3	+0·3	1000·9	..	..	..	..	68·8	+0·5	61	23	77·0	81·4	73·1	75·7	26·0	0	27·8	83	+3	76
Patna ..	173	1005·7	+0·2	1002·5	89·5	+0·9	93	12,17	72·9	+0·1	65	26,27,28	79·3	84·7	72·7	73·3	24·5	—0·7	22·8	71	—1	56
Dehri ..	352	999·5	..	996·3	88·9	..	92	1,13	70·3	..	62	23,26	77·0	84·0	70·8	72·1	23·0	..	21·4	71	..	55
Gaya ..	365	999·0	+0·3	995·9	89·0	+0·4	95	1	70·8	+0·8	61	22,27	76·5	83·0	71·0	71·9	23·4	+0·7	21·7	76	+5	57
Naya Dumka ..	489	994·1	—0·7	991·2	88·6	+0·5	92	2,3,21	70·3	—0·4	60	26	76·5	81·6	72·3	73·2	25·3	0	24·0	78	+3	67
Sabour ..	122	1007·6	+0·2	1004·2	87·8	—0·3	92	10,13	70·1	—0·9	61	4 days	78·1	81·7	73·6	75·8	26·2	—0·2	27·6	80	+1	75
U. P. East.																						
Gonda ..	360	999·5	..	996·3	89·7	—1·1	94	3	67·8	+0·3	59	25,26,27	77·3	83·3	69·7	73·3	23·3	+0·2	23·2	84	+5	59
Gorakhpur ..	254	1002·7	+0·1	999·2	89·8	+0·7	94	13	70·3	+0·9	63	25,26,27	76·7	86·2	71·2	73·2	23·9	—0·6	26·1	75	—3	52
Benares ..	270	1003·1	+0·4	999·9	91·2	+0·7	96	1	67·8	+0·5	59	26,27	74·0	87·1	69·5	72·3	22·6	—0·4	20·0	79	+7	46
Allahabad (Bamrauli)	322	1000·4	+0·2	997·5	91·0	+0·6	94	12	67·5	+0·4	60	22,26,27	74·6	87·6	69·1	70·7	22·1	+0·9	18·2	74	+4	40
Fatehpur ..	375	998·9	..	995·6	91·9	—0·6	96	17	65·7	+0·2	58	27	75·0	85·7	69·3	71·9	22·1	+0·7	21·5	73	+2	50
Cawnpore ..	413	997·5	+0·6	994·7	90·0	—1·2	94	2	66·6	+0·6	58	27	73·6	85·0	68·1	70·9	20·9	+0·2	19·1	74	+3	47
Lucknow ..	371	998·3	—0·1	996·0	90·4	—1·0	94	2	67·6	+0·1	60	22,28	74·8	84·4	69·3	73·8	22·1	+0·4	23·4	75	+3	59
Bahraich ..	407	997·4	+0·4	994·7	89·4	—0·7	93	1	68·2	—0·2	60	22,26	75.1	84·8	70·2	72·3	22·8	—0·3	23·0	77	+1	53
U.P., West.																						
Jhansi ..	824	983·7	+0·3	981·2	89·5	—3·6	93	1,2	67·2	—1·4	57	24	70·4	86·9	64·8	70·5	18·8	+1·2	18·0	72	+14	43
Agra ..	553	992·8	+0·7	990·1	89·8	—3·0	93	1,2	66·2	+1·1	59	23,26	69·8	88·3	65·1	70·1	18·8	+3·8	16·9	76	+21	34
Mainpuri ..	516	992·7	—0·6	991·1	91·8	—1·4	96	1	66·1	+1·1	57	28	71·7	87·1	67·2	73·5	21·0	+2·5	20·5	79	+14	49
Aligarh ..	615	990·4	..	987·9	90·1	—3·1	94	1,2	64·9	—1·0	57	25	71·2	86·8	67·4	68·1	20·8	+5·1	15·4	73	+19	35
Bareilly ..	568	991·8	+0·3	988·8	89·2	—0·5	94	2	67·0	+1·2	58	26	74·3	84·0	68·7	71·3	21·3	+0·7	19·4	74	—2	48
Roorkee* ..	899	980·2	—0·2	977·7	86·5	—1·2	92	1	62·8	+1·6	55	27	67·9	83·3	64·5	69·1	19·1	+1·2	16·2	82	+7	46
Dehra Dun ..	2,239	936 0	+0·4	934·2	81·6	—1·3	88	2	59·7	—0·6	53	4 days	67·2	77·8	61·5	66·9	16·4	+0·7	18·7	72	+1	56
East Punjab.																						
New Delhi ..	714	986·7	+0·1	984·3	88·9	—3·6	93	4	65·1	+0·8	59	25,26	70·7	85·2	63·3	68·4	16·4	+1·2	16·0	64	+6	40
Hissar ..	725	986·8	+0·5	984·8	91·1	—3·6	96	13	62·9	+0·8	5	[illegible]	68·6	85·7	62·5	70·6	17·0	+2·9	18·3	70	+13	45
Ambala ..	892	979·2	—1·1	978·2	89·1	—2 7	93	[illegible]	63·2	+1.1	5	25	68·4	85·4	64·0	71·4	18·4	+2·4	20·0	78	+15	50
dhiana ..	812	983·5	+0·4	981·7	89 6	—2·7	95	[illegible]	63·1	—0·1	54	25	69·0	85·5	64·1	71·2	18·1	+3·1	19·6	76	+12	48

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.									
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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	W	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
																													Chota Nagpur.
5·3	+1·4	5·6	6·92	+4·26	1·64	2	10	—5·8	2·5	+0·4	1	3	2	0	0	2	14	2	7	3	3	4	1	0	1	4	1	14	Jamshedpur.
6·1	+2·6	6·5	4·91	+1·98	1·46	8	6	+1·6	1·1	—0·1	2	1	0	0	0	3	1	0	24	0	1	0	0	0	5	2	0	23	Chaibasa.
2·5	—1·0	3·8	8·25	+5·12	2·45	9	8	+3·2	1·5	—1·4	6	0	0	0	4	0	0	0	21	1	0	1	1	1	0	0	1	26	Ranchi.
3·6	+0·5	3·9	4·53	+1·43	2·33	9	7	+2·4	3·7	—0·6	5	0	0	2	3	1	4	5	11	9	3	0	0	1	0	1	14	3	Hazaribagh.
3·5	+1·3	4·5	2·23	+0·30	1·12	15	4	+0·8	1·7	—0·3	2	1	3	4	0	0	3	0	18	2	5	4	1	0	0	4	5	10	Daltonganj.
..	..	..	7·63	..	2·36	9	7	..	3·5	..	8	7	5	1	2	1	1	2	4	..	..	..	..	..	..	..	..	..	Dhanbad.
																													Bihar.
2·7	—0·1	1·9	2·00	—1·22	0·98	1	4	+0·6	1·5	+0·2	2	3	6	1	1	7	3	0	8	0	1	2	1	0	0	2	0	25	Purnea.
2·6	+0·2	2·0	2·65	+0·35	2·59	3	1	—1·5	1·2	—0·1	0	6	8	3	0	3	7	1	3	0	1	1	2	0	1	5	1	20	Darbhanga.
2·3	+0·4	1·3	2·71	+0·40	1·70	1	4	+1·5	1·1	—0·6	0	0	11	0	1	0	1	1	17	0	0	0	0	0	0	0	0	31	Motihari.
2·8	+0·4	2·6	3·19	+0·89	1·03	2	4	+1·1	2·5	+0·5	1	5	1	4	2	6	2	4	6	2	0	2	0	0	1	6	2	18	Patna.
2·3	..	2·2	0·97	—0·98	0·63	4	2	+0·4	2·0	..	0	0	0	2	4	12	0	4	9	8	5	0	1	0	1	1	9	6	Dehri.
2·7	+0·3	4·1	3·55	+1·62	1·20	6	5	+2·1	3·3	+0·3	1	0	0	3	11	1	1	0	14	6	2	1	0	1	1	2	10	8	Gaya.
3·4	+0·8	3·7	2·71	—1·10	1·30	9	5	+0·4	2·0	+0·8	1	8	0	3	0	6	0	4	9	0	9	0	5	0	1	0	7	9	Naya Dumka
3·6	+0·3	2·7	2·70	—0·44	1·34	7	4	+1·1	2·2	—0·3	2	3	4	4	4	11	2	0	1	2	2	3	2	1	1	3	3	14	Sabour.
																													U. P. East.
1·1	—0·7	1·8	0·36	—1·43	0·12	3	3	+1·3	1·5	—0·5	1	0	9	0	1	0	8	1	11	3	0	3	0	0	0	4	11	10	Gonda.
2·2	+0·7	2·2	1·43	—1·54	0·78	6	3	—0·7	1·5	+0·5	0	2	4	5	2	3	1	2	12	2	2	0	2	0	0	5	6	14	Gorakhpur
1·7	+0·4	1·7	2·73	+0·54	1·72	6	2	—0·2	2·8	+0·8	0	0	3	2	5	13	4	1	3	2	0	3	1	0	3	9	12	1	Benares.
2·0	—0·1	2·0	0·64	—1·70	0·49	6	3	+0·5	2·0	—0·3	0	0	1	0	2	3	8	2	15	6	1	1	0	0	0	4	15	4	Allahabad (Bamrauli).
0·9	—0·6	2·3	0·19	—0·70	0·10	1	1	—1·4	1·1	—0·6	0	0	0	1	0	1	7	2	20	0	0	1	0	0	0	3	1	26	Fatehpur.
0·5	—0·4	1·3	0·05	—1·25	0·05	3	0	—1·5	3·3	—0·2	0	0	4	0	4	0	10	0	13	12	0	0	0	0	0	16	0	3	Cawnpore.
0·7	—0·6	1·3	0·13	—1·15	0·13	6	1	—0·7	1·0	—0·1	0	0	4	1	1	1	2	4	18	0	0	0	1	0	0	4	4	22	Lucknow.
1·7	+0·1	1·3	2·35	+0·77	1·38	3	3	+1·3	1·9	+0·5	1	0	2	1	2	2	2	2	19	0	0	0	0	0	2	0	1	28	Bahraich.
																													U. P., West.
1·0	—0·3	1·5	0·08	—0·91	0·08	5	0	—1·1	1·0	—1·4	0	1	0	0	1	8	5	0	16	0	1	0	0	1	3	2	5	19	Jhansi.
0·7	—0·3	0·5	2·74	+2·03	2·44	2	2	+1·2	1·4	—1·0	3	2	0	0	0	0	6	2	18	3	0	0	0	1	0	2	10	15	Agra.
0·8	—0·4	1·3	0·61	—0·34	0·61	5	1	0	1·3	+0·2	3	0	0	1	1	4	11	5	6	2	1	1	2	1	0	7	10	7	Mainpuri.
1·2	+0·6	1·5	1·28	+0·97	1·26	2	1	+0·7	1·8	—1·3	1	0	1	0	0	0	4	1	24	8	0	0	0	0	1	3	15	4	Aligarh.
1·1	0	1·1	0·14	—1·13	0·14	4	1	+0·1	1·6	—0·6	4	0	7	1	1	0	2	2	14	9	0	0	0	0	1	10	5	6	Bareilly.
0·9	+0·3	1·0	0·03	—0·81	0·03	4	0	—0·9	1·6	+0·8	0	4	0	13	0	1	0	4	9	0	1	0	2	0	1	0	22	4	Roorkee.*
1·2	—0·1	2·3	1·00	—0·26	1·00	3	1	—0·6	2·2	+0·3	5	5	0	0	0	1	3	0	17	5	2	0	0	1	3	10	6	4	Dehra Dun.
																													East Punjab.
1·3	+0·4	1·0	1·39	+0·99	0·75	5	3	+2·4	2·7	..	1	0	2	0	1	3	14	4	6	2	2	1	0	1	0	0	11	7	New Delhi.
0·4	—0·3	0·3	0·19	—0·42	0·19	5	1	+0·4	3·2	0	0	1	0	3	4	13	5	1	3	5	3	0	0	0	1	3	7	9	Hissar.
0·8	—0·1	0·5	0	—0·87	0	..	0	—0·9	..	..	0	0	0	12	0	0	0	12	7	0	0	0	4	0	0	0	26	1	Ambala.
1·0	+0·2	0·7	0·24	—0·19	0·24	5	1	+0·3	0·9	—0·1	0	0	1	1	1	6	2	1	17	1	3	0	0	0	1	3	3	18	Ludhiana

* Observations for 17 hrs. recorded for 30 days only.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2-30 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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
Kashmir																						
Srinagar (*R*) ..	5,205	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gulmarg (*R*) ..	8,709	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dras (*R*) ..	10,059	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leh (*R*) ..	11,529	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Skardu (*R*) ..	7,505	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gilgit (*R*) ..	4,890	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Misgar (*R*) ..	10,190	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rajputana, West																						
Sri Ganganagar	550	991·1	..	956·9	93·1	—2·0	97	4 days	62·1	+2·4	54	25	69·5	89·4	62·3	69·9	15·8	+3·6	15·8	65	+12	32
Bikaner ..	734	986·3	+0·6	983·7	92·8	..	98	3	64·0	..	59	24,26	71·6	90·6	62·7	68·7	15·6	..	14·3	60	..	29
Phalodi ..	783	983·7	..	982·3	94·7	..	100	3	68·5	..	61	24	70·6	93·9	65·2	76·9	19·0	..	23·8	74	..	46
Jodhpur ..	736	987·2	+2·4	984·6	92·1	—3·4	97	3	64·9	—0·5	59	25	69·4	90·1	62·4	66·9	15·8	+1·6	12·2	65	+11	25
Barmer ..	638	990·0	+0·9	987·4	95·4	—1·7	104	3	69·2	—1·1	62	21,26	73·5	92·5	67·5	71·0	20·3	+3·5	16·1	64	+5	32
Rajputana, East																						
Sikar ..	1,406	963·8	..	961·5	90·9	..	96	3	63·1	..	55	26	68·6	87·5	60·3	66·1	14·1	..	12·2	59	..	27
Jaipur ..	1,431	963·7	+0·4	961·1	90·0	—4·1	93	3,13,17	62·7	—1·6	54	26	71·3	86·4	62·9	66·3	15·8	+1·9	12·9	61	+12	31
Ajmer ..	1,593	958·5	+0·7	955·7	86·3	—5·2	91	3,4	62·5	—1·9	54	25,26	73·1	84·5	64·2	65·3	16·7	+2·0	11·5	61	+11	35
Kotah ..	843	983·8	+1·1	981·0	91·3	—3·3	95	2	68·7	—1·6	62	26	73·7	87·7	65·8	69·1	18·2	+2·3	16·3	64	+12	36
Brijnagar ..	1,053	976·2	+0·6	973·2	89·8	—2·1	93	3,16	63·4	—0·7	57	25,26,27	70·1	87·2	64·6	68·1	18·3	+1·2	14·9	73	+9	35
Udaipur ..	1,910	948·3	..	945·9	86·4	..	89	1,2	60·5	..	52	26	66·3	82·8	61·9	65·8	16·8	..	14·9	77	..	40
Gujarat																						
Deesa* ..	466																					
Bhuj ..	343	1000·7	+1·0	998·1	93·5	—2·6	99	2	69·9	—0·6	65	4 days	73·0	91·0	69·2	70·1	22·7	+2·3	15·6	81	+19	32
Dwarka ..	37	1011·6	+1·3	1009·4	84·1	—3·2	90	27	73·9	—1·6	68	31	75·3	81·5	72·8	75·2	26·4	+0·6	27·0	88	+6	74
Jamnagar ..	60	1010·5	+1·0	..	88·7	—4·9	93	13	70·5	—0·3	63	24	76·3	..	71·4	..	24·0	—1·0	..	77	—2	..
Rajkot ..	432	997·9	+1·3	994·7	92·8	—3·0	95	5 days	68·3	—0·4	61	29	73·0	90·6	68·7	70·8	22·4	+1·3	16·8	85	+11	36
Veraval* ..	26	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Surat ..	39	1010·8	+0·8	1007·8	92·7	—1·4	97	6 days	71·1	—1·0	65	29	75·2	89·4	70·8	74·6	25·0	+1·3	22·5	75	+4	49
Bhavnagar ..	55	1010·9	+1·3	1008·1	92·1	—3·7	94	4 days	68·9	—1·8	63	27,28	71·9	89·7	67·4	71·4	20·9	+0·6	18·0	78	+16	39
Ahmedabad ..	163	1007·5	+1·3	1004·5	92·9	—4·3	95	4 days	71·7	—1·0	67	22,28	74·1	90·7	67·5	71·9	20·1	+0·6	17·7	70	+5	37
Dohad ..	1,093	975·6	..	972·1	90·0	—2·9	92	12 days	65·5	—1·4	59	27	69·8	87·1	64·3	68·8	18·1	—2·0	15·8	73	—1	37
Baroda ..	115	1009·1	..	1005·9	92·8	—2·6	95	12	65·9	—0·2	56	27	72·5	88·3	69·0	75·2	12·7	+0·9	23·9	83	+8	54
Central India, West																						
Neemuch ..	1,626	957·4	+0·6	955·5	87·6	—3·4	91	13	63·1	—1·5	57	25,26	68·6	84·8	62·2	66·2	16·5	+0·6	14·4	69	+11	36
Indore ..	1,823	950·9	+1·2	947·9	86·5	—2·2	89	5 days	61·5	—1·8	54	27	67·6	84·3	63·2	65·9	18·0	+0·1	14·2	78	+15	36
Bhopal ..	1,643	956·9	+0·9	954·2	87·6	—1·1	90	4 days	64·1	—1·1	57	22,25,26	72·2	84·2	64·2	66·7	17·2	0	15·3	64	+3	29
Cuna ..	1,571	959·1	+0·8	956·6	87·0	—2·6	90	2	61·5	—0·7	52	20,23	66·4	84·8	62·0	70·0	17·7	+0·6	19·0	81	+16	47
Gwalior ..	681	988·5	..	985·4	89·3	..	93	1	65·6	..	56	25	75·4	86·2	67·4	74·8	19·3	..	24·3	65	..	56
Madhosagar ..	757	985·7	..	983·3	90·5	..	94	19	69·2	..	62	25	74·5	86·1	66·0	68·3	18·0	..	15·6	62	..	38
Central India, East																						
Nowgong ..	750	986·5	+0·8	983·0	89·6	—1·1	93	1,2,3	63·6	—1·2	55	26,27	71·5	86·6	66·2	70·2	19·5	0	17·8	76	+4	43
Sutna ..	1,041	976·3	+0·3	973·1	88·9	+0·5	93	6	65·4	—0·5	57	26,27	71·1	84·1	67·0	69·3	20·8	+0·6	17·7	80	+10	43
Umaria ..	1,506	960·7	.	958·0	87·1	+0·3	90	3	62·0	—1·1	52	27	69·8	83·1	64·8	72·2	18·9	—0·7	22·5	75	+5	56
Berar																						
Akola ..	925	980·7	+0·8	976·9	90·0	—2·6	93	4 days	65·0	—1·9	55	28	70·6	88·5	64·2	68·0	17·6	—1·2	14·1	69	+5	33
Amraoti ..	1,213	971·2	+1·1	967·7	88·3	—2·6	91	17,19,30	67·4	—1·3	60	25	72·5	86·6	64·0	66·9	16·5	—1·8	13·7	60	—1	33

(*R*) Register not received.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more.)		Wind velocity miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I. S. T.										17 hrs. I. S. T.									
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													Kashmir
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Srinagar. (*R*)
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Gulmarg. (*R*)
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Dras. (*R*)
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Leh. (*R*)
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Skardu. (*R*)
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Gilgit. (*R*)
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Misgar. (*R*)
																													Rajputana, West
0·3	0	0·7	0·02	—0·08	0·02	22	0	—0·3	2·7	—1·7	0	0	4	0	2	3	0	0	22	0	1	0	1	0	4	4	2	19	Sri Ganganagar.
0·3	—0·5	1·7	3·22	+3·01	1·80	5	3	+2·6	4·4	..	0	0	0	2	0	14	2	2	11	0	3	0	3	0	20	0	2	3	Bikaner.
1·0	..	1·3	0	—0·07	0	..	0	—0·1	8·7	..	0	0	0	5	5	18	0	0	3	1	2	1	3	6	14	3	0	1	Phalodi.
1·0	—0·3	1·3	0·65	+0·33	0·65	23	1	+0·5	1·5	—3·3	0	3	0	0	0	2	0	0	26	1	1	1	2	2	6	5	0	13	Jodhpur.
0·5	+0·4	0·4	0	—0·10	0	..	0	—0·5	3·7	—1·0	0	1	1	0	0	2	3	4	20	1	1	0	1	5	10	1	2	10	Barmer.
																													Rajputana, East
1·5	..	1·2	0·31	..	0·31	5	1	..	2·5	..	0	0	2	5	2	8	2	0	12	4	0	1	0	1	0	9	14	2	Sikar.
1·3	+0·1	1·8	0·33	—0·15	0·25	2	1	+0·3	3·0	—0·2	11	3	0	0	0	0	0	4	13	5	1	0	0	0	3	8	7	7	Jaipur.
0·3	—0·8	3·3	0·48	+0·10	0·22	23	3	+2·3	2·5	+0·4	0	0	0	0	0	4	2	1	24	1	1	0	1	0	4	12	3	9	Ajmer.
0·8	+0·8	1·0	0·11	—0·54	0·11	4	1	0	2·1	+0·6	2	0	0	0	0	2	7	2	18	5	0	0	2	1	1	1	8	13	Kotah.
1·0	—0·7	1·6	0·47	—0·08	0·45	6	1	—0·6	1·6	0	2	0	0	1	1	1	1	4	21	7	6	2	1	0	1	2	6	6	Brijnagar.
0·9	..	2·5	0·41	—0·16	0·30	2	1	—0·1	1·5	..	0	0	0	0	0	0	0	1	30	1	2	1	3	2	1	5	4	12	Udaipur.
																													Gujarat
																													Deesa*
0·4	—1·0	1·7	0·01	—0·32	0·01	11	0	—0·5	3·8	—0·7	0	0	0	0	0	3	1	2	25	3	2	0	2	2	8	9	2	3	Bhuj.
2·3	—0·1	1·8	0	—0·25	0	..	0	—0·3	7·1	+0·2	7	2	0	1	0	4	3	9	5	1	0	0	0	0	2	6	22	0	Dwarka.
1·0	—0·1	..	0	—0·31	0	..	0	—0·5	3·8	—2·5	0	0	0	0	0	2	3	0	26	..	..	..	..	..	..	..	..	..	Jamnagar.
0·9	—1·4	2·5	0	—0·57	0	..	0	—1·1	5·1	+0·9	2	1	0	2	4	1	6	4	11	2	3	3	1	3	2	6	7	4	Rajkot.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Veraval.*
2·1	—0·6	1·9	0·30	—1·21	0·29	1	1	—1·0	3·2	+0·6	1	6	4	4	2	3	0	2	9	3	4	0	0	0	7	7	5	5	Surat.
1·1	—1·6	2·3	0·34	—0·56	0·34	1	1	+0·1	2·7	—0·7	2	0	1	0	0	9	4	1	14	3	0	13	6	6	3	0	0	0	Bhavnagar.
1·3	—0·3	1·0	0·16	—0·19	0·16	1	1	—0·3	1·7	—1·3	5	4	5	1	1	1	2	3	9	3	4	4	3	1	1	1	5	9	Ahmedabad.
2·0	—0·6	1·4	0	—1·40	0	..	0	—2·0	5·0	+2·1	1	0	3	2	4	7	5	0	9	4	4	2	1	1	5	12	2	0	Dohad.
2·0	+0·3	1·3	0·48	—1·28	0·47	1	1	—0·3	1·2	—0·7	0	0	0	0	3	3	0	0	25	3	3	1	1	0	2	3	4	14	Baroda.
																													Central India, West
1·7	+0·2	3·0	0·51	—0·11	0·51	3	1	+0·1	3·5	—0·4	2	4	1	0	0	1	7	6	10	4	9	1	3	0	5	3	1	5	Neemuch.
1·8	—0·2	3·0	1·56	+0·35	1·54	3	1	—1·5	1·8	0	0	1	1	1	0	4	2	1	21	4	8	2	5	1	1	2	3	5	Indore.
0·9	—1·3	1·7	1·50	—0·16	1·50	4	1	—1·4	2·6	+0·3	0	2	0	2	2	4	6	2	13	5	10	0	1	0	0	5	5	5	Bhopal.
1·2	—0·3	0·9	0·94	—0·89	0·68	4	2	+0·4	2·3	+0·6	0	0	0	3	0	3	2	0	23	4	0	1	0	0	1	7	5	13	Guna.
1·0	..	1·7	0·88	..	0·88	2	1	..	1·5	..	2	0	0	0	0	3	4	3	19	2	1	0	0	0	0	1	7	20	Gwalior.
1·2	..	1·6	0·88	..	0·49	2	3	..	4·4	..	1	0	0	0	1	21	2	2	4	8	1	0	0	0	1	3	17	1	Madhosagar.
																													Central India, East
1·1	—1·0	1·6	0·55	—0·53	0·40	4	2	+0·5	2·2	+1·0	0	0	0	0	1	23	1	0	6	2	3	0	0	0	4	8	7	7	Nowgong.
1·4	—0·8	1·3	0·41	—1·52	0·36	2	1	—1·2	1·9	—0·2	0	0	0	1	2	7	6	3	12	1	1	0	1	0	0	6	11	11	Sutna.
2·3	—0·7	3·0	0·96	—1·51	0·86	4	1	—1·7	1·7	0	0	0	1	0	5	5	4	0	16	3	3	0	1	0	1	4	9	10	Umaria.
																													Berar
1·8	—1·2	2·7	0	—1·82	0	..	0	—2·5	3·1	+0·4	0	1	0	2	2	1	6	2	17	6	4	3	0	1	0	1	14	2	Akola.
2·1	—0·9	3·0	0	—1·91	0	..	0	—2·6	4·6	+1·4	3	11	5	2	1	4	3	2	0	1	8	1	3	0	2	0	16	0	Amraoti.

*Data not reliable.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 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
C. P., West																						
Khandwa ..	1,044	976·5	+0·6	973·2	90·3	—2·2	93	6 days	65·5	—0·6	58	15	71·1	87·0	64·6	67·5	17·9	—0·5	14·2	68	+3	33
Hoshangabad ..	992	978·9	+0·6	975·5	87·8	—1·9	90	18,20,31	65·3	—1·4	56	26,31	69·8	85·3	64·4	69·4	18·2	—1·5	17·3	73	+2	42
Saugor ..	1,808	951·0	+0·8	948·4	85·5	—2·7	89	2,3	64·6	—1·7	56	26	72·1	81·7	63·5	65·4	16·6	+0·5	14·8	61	+4	40
Jubbulpore ..	1,289	968·4	+1·0	965·2	88·3	+0·5	95	3	63·5	0	55	22,27	71·2	84·0	66·1	68·9	19·6	—0·6	17·3	75	+1	44
Seoni ..	2,027	944·0	+1·0	941·1	85·1	—1·3	88	3,30	63·1	—1·0	55	27	70·2	81·7	62·8	64·7	16·5	—1·4	14·0	64	0	38
Nagpur ..	1,022	977·2	+0·6	973·8	90·0	—1·0	93	4	67·9	—1·1	61	28	74·1	86·6	65·7	69·5	17·8	—1·7	16·9	62	—2	39
C. P., East																						
Gondia ..	1,026	977·1	..	973·9	87·5	..	90	4,30	67·8	..	59	27	72·5	85·0	67·3	69·5	20·5	..	17·6	75	..	43
Pendra ..	2,040	943·1	+0·5	940·4	82·7	—0·4	86	3,4	64·3	+0·2	56	22	71·4	77·8	65·6	67·3	18·8	—0·4	18·1	73	+3	57
Champa ..	805	984·5	..	981·2	87·6	..	91	1	70·0	..	61	27,28	72·0	85·0	69·2	72·7	23·2	..	21·9	86	..	55
Raipur ..	970	978·9	+0·6	975·7	87·4	—1·1	91	4	70·9	+1·2	61	31	75·7	83·6	70·5	72·1	23·1	+0·3	22·7	76	+2	53
Titilagarh ..	691	987·8	..	984·7	88·0	..	91	4	71·0	..	61	27,28	74·4	82·4	71·2	72·8	24·7	..	23·3	84	..	62
Kanker ..	1,318	966·9	+0·7	964·0	84·8	—1·7	89	4,5	67·2	0	57	5 days	73·0	82·1	69·6	74·8	23·2	+0·2	26·2	84	+2	70
Chanda ..	634	990·6	+0·9	987·4	87·0	—2·8	90	4	67·0	—1·2	57	28	72·7	84·2	68·2	72·7	21·6	—1·8	22·3	77	+1	56
Jagdalpur ..	1,815	950·0	+0·7	947·0	82·7	—2·2	87	16	67·0	+0·9	53	28	71·1	78·6	68·6	69·9	22·9	—0·9	21·4	88	+6	65
Konkan																						
Dahanu ..	15	1011·7	..	1009·4	87·7	..	95	30	72·2	..	65	28	76·7	85·0	72·2	78·8	24·9	..	30·8	86	..	83
Bombay ..	35	1011·0	+1·1	1008·4	87·6	—1·2	93	5 days	74·6	—1·0	71	28	77·3	83·5	74·3	77·0	27·6	—0·6	28·7	86	+2	73
Alibag ..	23	1012·2	+2·0	..	86·1	—2·4	92	17	72·7	—1·8	67	28	76·1	..	73·2	..	26·6	0	..	86	+7	..
Harnai ..	66	1009·7	..	1008·1	84·1	..	92	29	75·0	..	71	1	77·3	81·6	72·0	76·7	24·4	..	29·1	77	..	78
Devgad ..	117	1007·7	..	1002·0	86·5	..	92	30	77·0	..	72	31	77·4	83·2	74·6	78·1	28·0	..	30·5	90	..	79
Marmagao ..	202	1005·3	+1·4	1002·2	84·3	—1·6	88	19,22	73·8	—0·9	70	28,31	78·3	82·1	74·5	76·3	27·5	—0·2	28·3	83	—2	75
Honavar ..	85	1010·2	..	1007·1	86·0	..	92	31	72·0	..	68	23,28	76·6	82·5	73·7	77·1	27·0	..	29·3	86	..	78
Bombay, Deccan																						
Jalgaon ..	660	988·3	..	985·4	90·8	..	93	8 days	62·9	..	53	28,29	69·6	89·3	64·6	70·7	18·5	..	17·3	75	..	38
Malegaon ..	1,432	964·0	+0·9	959·7	88·7	—3·0	92	25,31	62·6	—3·0	53	27	70·0	85·5	64·8	68·0	18·6	—0·3	15·5	75	+9	37
Ahmednagar ..	2,154	939·7	+0·6	936·3	86·0	—2·6	89	17,18	63·9	—1·7	55	30	69·9	84·0	63·1	68·8	16·9	—1·6	17·9	68	+1	45
Poona ..	1,834	951·0	+1·5	947·2	88·4	—1·0	92	15	65·8	—0·5	57	4 days	69·0	85·6	66·2	69·0	20·8	0	17·5	86	+6	43
Sholapur ..	1,570	959·3	+1·3	955·8	89·3	—1·3	93	15,17,18	66·7	—2·1	60	24	72·7	87·0	64·6	74·6	17·8	—1·8	17·4	65	—2	41
Miraj ..	1,817	950·8	+1·0	947·0	88·2	+1·3	92	9	67·1	—1·2	56	31	71·8	85·7	66·0	69·0	19·5	—1·4	17·5	74	—1	42
Bijapur ..	1,950	947·9	+2·5	943·3	87·3	—1·4	91	9,15	..	..	..	..	74·4	86·3	68·9	69·3	21·9	+1·4	17·5	75	+4	42
Belgaum ..	2,562	926·3	+1·0	923·3	82·5	—0·9	85	11days	63·0	—2·4	56	27	67·1	79·6	64·7	67·0	19·9	—0·9	17·5	88	+5	53
Gadag ..	2,131	940·7	+1·5	936·7	87·9	+1·1	91	4 days	68·1	—0·9	63	27,31	73·5	83·3	67·4	69·5	20·3	—1·1	18·9	75	—3	49
Hyderabad, North																						
Aurangabad ..	1,905	948·6	+1·1	945·4	87·5	—2·2	92	18	64·6	—2·3	56	28,29	73·3	84·2	65·1	67·6	17·8	—0·1	16·4	64	+3	42
Parbhani ..	1,350	965·2	..	961·8	89·1	..	92	17,18,31	64·8	..	56	28,29	72·3	86·1	64·6	67·5	17·3	..	14·6	64	..	35
Bidar ..	2,178	938·6	..	935·6	82·2	—4·1	86	11	67·6	—0·7	62	24	72·6	81·2	64·8	66·5	17·7	—3·5	16·3	65	—8	46
Nizamabad ..	1,250	969·1	+0·5	965·9	87·0	—2·3	89	5 days	67·3	—0·7	59	4 days	72·6	84·7	67·3	69·6	20·4	—1·7	17·9	74	+1	45
Peddapalli (*R*)	755																					
Hyderabad, South																						
Gulbarga ..	1,503	961·1	+1·0	957·3	87·6	—2·9	91	16	67·7	—1·3	59	24	75·3	87·0	66·7	68·6	18·9	—1·6	16·4	61	—8	38
Raichur ..	1,311	967·3	+0·9	963·4	88·1	—1·8	92	4	71·0	—1·2	65	24,26,30	75·2	85·5	68·9	69·8	21·3	—1·4	17·9	72	—1	44
Hyderabad (Begumpet).	1,778	951·8	+1·2	948·7	85·5	—2·7	89	17	66·4	—1·3	57	24	72·3	81·0	68·2	69·9	21·9	—0·2	20·5	81	+6	57
Hanamkonda ..	881	981·6	+0·6	978·4	87·8	—1·7	91	3	68·5	—2·4	62	24	75·1	84·5	70·4	71·5	23·3	—1·0	20·5	78	+2	53
Khammameth ..	267	999·0	..	995·6	89·6	..	93	3,4,16	71·5	..	63	24,29	77·0	85·7	73·4	74·3	26·5	..	23·7	84	..	58

(*R*) Register not received.

Cloud amount. (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
																													C. P., West.
2·7	+0·4	2·6	0·64	—0·75	0·64	4	1	—1·0	3·3	+0·7	1	1	1	0	3	6	6	3	10	8	8	4	0	2	0	3	5	1	Khandwa.
1·3	—1·0	2·6	0·05	—1·23	0·04	4	0	—2·0	2·0	+0·7	0	3	1	1	2	5	1	1	17	10	5	2	0	1	1	5	3	4	Hoshangabad.
1·7	—0·5	2·7	0·67	—0·42	0·67	4	1	—0·9	5·6	—2·1	2	1	1	2	3	9	8	5	0	6	2	0	1	0	3	5	14	0	Saugor.
2·2	+0·1	2·3	0·47	—1·41	0·47	4	1	—1·3	2·1	+0·7	0	0	1	10	7	0	2	0	11	8	5	3	1	0	2	1	6	5	Jubbulpore.
6·1	+3·7	2·3	2·35	+0·08	2·35	4	1	—2·1	3·0	+0·6	7	6	0	0	3	2	0	2	11	16	6	1	2	2	2	0	2	0	Seoni.
2·5	—0·5	4·5	0	—2·17	0	..	0	—3·1	2·6	—1·2	14	2	0	0	1	0	1	6	7	10	11	2	0	2	1	1	2	2	Nagpur.
																													C.P., East
2·6	..	1·9	0·08	..	0·08	5	0	..	2·5	..	14	2	0	1	2	2	2	3	5	12	5	1	0	2	2	1	7	1	Gondia.
3·0	0	3·3	1·76	—1·23	1·06	5	3	—1·1	2·6	+0·5	9	0	0	0	4	3	1	10	4	18	4	0	0	1	1	0	6	1	Pendra.
3·8	..	3·4	2·47	..	2·22	4	2	..	3·3	..	12	3	0	0	1	1	1	8	5	12	2	0	0	0	3	3	8	3	Champa.
4·4	+1·5	4·1	1·45	—0·72	1·15	5	3	—0·3	2·7	+0·3	0	16	0	0	0	6	1	5	3	0	22	0	1	0	2	0	4	2	Raipur.
4·4	..	4·7	2·23	..	0·45	11	7	..	0·6	..	0	1	0	2	3	1	1	0	23	6	3	0	0	0	1	2	3	16	Titlagarh.
5·0	+0·9	6·0	0·76	—3·68	0·58	5	2	—3·3	2·3	0	0	0	0	0	0	1	1	1	28	2	6	0	2	0	1	2	5	13	Kanker.
3·3	+0·4	3·6	3·42	+1·38	2·60	4	2	—0·9	2·1	+0·4	0	1	0	2	0	3	0	7	18	0	4	0	3	0	2	0	4	18	Chanda.
5·4	+1·4	5·5	4·31	—0·05	1·12	11	8	+2·3	1·3	—0·5	0	2	0	0	0	5	0	9	15	0	9	0	0	0	5	0	7	10	Jagdalpur.
																													Konkan
2·9	..	1·0	2·06	..	1·90	1	3	..	6·0	..	0	3	16	9	0	1	2	0	0	13	0	1	0	0	2	6	9	0	Dahanu.
2·8	—1·1	1·3	2·92	+0·38	2·68	1	2	—1·1	5·5	—0·6	4	2	0	1	1	1	1	16	5	0	0	1	1	4	20	5	0	0	Bombay.
2·1	—2·8	..	4·68	—0·35	3·70	1	3	—2·1	2·8	—2·4	0	7	5	2	0	0	0	0	17	..	..	..	..	..	..	..	..	..	Alibag.
..	..	..	9·55	..	6·95	2	4	..	6·3	..	5	5	9	5	2	0	2	3	0	0	1	0	0	1	1	15	13	0	Harnai.
4·7	..	4·1	0·92	..	0·32	17	3	..	6·5	..	4	7	13	2	2	0	0	3	0	1	0	0	0	0	1	7	22	0	Devgad.
4·4	—0·9	4·6	1·04	—5·44	0·38	19	4	—3·9	5·3	+0·6	5	6	14	4	1	0	1	0	0	1	0	0	0	1	2	11	16	0	Marmagao.
4·9	..	5·3	1·97	—5·25	0·62	20	4	—3·9	2·4	..	0	2	23	3	0	0	0	0	3	1	0	0	0	1	0	16	12	1	Honavar.
																													Bombay, Deccan
3·2	..	3·3	0·06	—1·39	0·05	3	0	—1·8	3·1	..	0	5	5	6	2	1	8	0	4	7	8	3	2	4	1	1	5	0	Jalgaon.
2·1	—1·1	3·2	1·09	—0·62	0·75	3	2	—0·7	3·3	—0·6	0	1	0	0	0	10	2	5	13	5	16	2	1	0	1	2	2	2	Malegaon.
2·2	—0·9	3·1	0·87	—1·30	0·50	1	3	—0·4	1·9	—2·9	0	1	0	0	0	1	0	20	9	2	15	0	1	0	1	1	10	1	Ahmednagar.
3·8	—0·2	4·6	0·88	—2·66	0·56	20	3	—2·1	2·0	—2·0	0	0	1	0	0	4	4	0	22	2	6	2	1	0	0	5	1	14	Poona.
4·0	+0·1	4·7	0·48	—2·56	0·27	4	2	—2·3	6·2	+0·3	9	4	4	2	0	5	0	4	3	10	16	0	0	0	4	0	0	1	Sholapur.
4·3	—0·7	5·5	0·25	—3·87	0·13	17	2	—4·4	5·0	—0·4	4	8	2	1	0	1	3	6	6	7	7	6	1	0	3	2	2	3	Miraj.
2·8	—0·8	4·4	0·52	—2·37	0·20	17	3	—1·1	3·9	+0·6	8	5	1	1	0	3	3	7	3	8	9	4	0	2	1	2	3	2	Bijapur.
3·7	—1·2	4·7	1·11	—3·66	0·55	7	3	—4·5	3·1	0	9	4	6	0	2	4	6	0	0	13	0	6	0	5	3	4	0	0	Belgaum.
5·4	+0·3	6·1	8·10	+4·29	6·75	7	5	—2·3	4·4	—0·7	0	5	5	1	0	5	6	2	7	2	9	6	0	0	2	6	2	4	Gadag.
																													Hyderabad, North
1·9	—1·8	2·2	0·64	—1·15	0·35	1	3	—0·2	4·8	—0·1	4	4	8	3	2	2	3	1	4	11	8	2	0	1	0	3	4	2	Aurangabad.
2·7	..	3·8	0·01	—2·08	0·01	1	0	—3·0	..	..	5	4	0	0	1	1	5	8	7	6	9	4	0	0	0	5	5	2	Parbhani.
3·6	—0·2	4·6	0·22	—1·99	0·22	18	1	—2·7	5·2	—0·3	9	5	5	1	1	2	3	2	3	11	15	0	0	0	2	2	1	0	Bidar.
2·6	—0·6	3·5	0·55	—1·45	0·50	4	1	—2·0	2·7	+0·4	0	1	0	2	2	3	1	4	18	8	9	2	0	1	2	2	4	3	Nizamabad.
																													Peddapalli. (*R*).
																													Hyderabad, South
3·0	—0·3	2·7	0·57	—2·12	0·57	18	1	—3·0	6·5	+0·9	4	8	2	2	0	3	2	5	5	8	13	1	0	1	1	2	4	1	Gulbarga.
4·7	+1·3	5·9	1·31	—1·74	0·64	4	3	—1·2	5·7	0	2	11	3	1	0	5	3	5	1	4	9	7	3	1	3	1	3	0	Raichur.
3·6	—0·7	4·9	2·67	+0·22	1·48	17	3	—1·3	4·8	+1·0	4	3	1	0	0	0	4	5	14	6	15	1	1	0	1	3	3	1	Hyderabad (Begumpet).
3·3	—0·8	4·3	2·64	+0·03	1·65	4	5	+0·9	4·0	+1·0	12	3	0	2	3	1	1	6	3	14	10	1	1	1	2	1	1	0	Hanamkonda.
3·8	..	4·5	2·40	.	1·28	12	5	..	2·7	..	21	1	2	1	2	0	0	2	2	18	3	3	1	0	0	3	3	0	Khammameth.

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 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
Mysore																						
Chitaldrug ..	2,405	931·3	+1·1	927·6	83·6	—1·6	87	7	67·7	—0·5	62	27	71·9	81·2	67·7	67·9	21·5	+0·1	17·9	81	+3	51
Hassan	3,149	907·4	..	904·5	80·7	—1·5	84	7	64·1	—0·6	58	27,31	68·3	76·1	65·3	67·2	20·1	—0·9	19·1	84	+1	62
Bangalore ..	3,021	911·2	+0·8	908·1	80·9	—0·8	85	3,7	65·3	+0·4	58	25,31	69·0	76·7	66·1	67·2	20·7	—0·4	18·9	86	+2	62
Mysore	2,518	927·6	+0·8	924·4	82·4	—1·8	86	7	67·0	0	60	27	70·2	80·8	67·5	68·4	22·0	0	18·6	87	+3	53
Malabar																						
Mangalore.. ..	72	1010·2	+1·6	1007·1	84·2	—1·7	87	30	74·4	—0·2	71	27	77·4	81·7	74·9	76·5	28·4	0	28·8	89	+2	78
Calicut	27	1011·4	+1·2	1008·2	86·4	+0·1	89	30	75·0	+0·2	72	27,28,31	77·4	83·7	75·0	78·1	28·5	—0·2	30·3	90	+1	77
Palghat	319	1001·4	..	997·8	87·1	..	90	27,31	74·3	..	71	26,30	77·1	82·5	74·7	75·8	28·2	..	27·4	89	..	72
Cochin	10	1012·1	+0·8	1009·0	83·7	—0·6	85	7 days	75·5	+0·2	74	7 days	79·2	81·9	75·7	77·2	28·8	+0·3	29·8	85	0	81
Alleppey	12	1012·1	..	1008·9	86·1	..	89	8,13,14	75·1	..	72	22,29	80·1	82·9	76·9	77·2	30·1	..	29·3	86	..	77
Trivandrum ..	211	1005·1	+1·0	1002·1	85·3	..	88	8,13,14	73·7	..	71	24	76·5	81·2	74·4	76·1	28·1	+0·2	28·5	90	+2	78
Nagercoil	195	1005·4	..	1002·3	87·9	..	94	8	74·8	..	72	27, 31	78·8	81·4	74·1	75·6	26·6	..	27·6	79	..	76
Madras, South-East.																						
Pamban	37	1010·2	+1·0	1007·3 (a)	86·6	—1·3	88	7 days	76·9	—0·8	75	22	82·0	81·6 (a)	78·3	78·6 (a)	31·4	+1·6	32·1	84	+1	87 (a)
Madura	437	996·5	+0·7	992·8	91·3	+1·1	98	10	74·1	—0·5	69	31	79·4	86·8	74·2	75·7	23·5	—0·2	25·3	78	+1	59
Negapatam ..	31	1010·5	+1·0	1007·3	88·7	0	94	4 days	76·5	0	72	23	80·0	84·5	75·9	76·9	28·7	—0·2	28·1	82	0	70
Trichinopoly ..	255	1003·2	+1·2	999·3	91·0	—0·4	96	13	74·4	—0·3	69	31	78·2	88·0	74·4	76 9	27·4	+0·4	26·5	83	+4	59
Coimbatore ..	1,341	965·9	+0·5	962·4	87·9	+0·2	92	7,8	71·0	+0·3	65	28	74·1	83·6	71·2	72·3	24·8	—0·6	21·9	86	+2	57
Salem	913	980·5	+0·7	976·5	89·0	—0·8	93	6,7	72·3	+0·4	65	25	74·4	84·4	71·6	74·9	25·2	—0·6	25·3	87	+6	63
Cuddalore ..	39	1010·2	+1·0	1006·9	88·6	+0·1	94	7,12,13	75·0	—0·2	68	31	78·0	84·6	75·1	77·1	28·4	—0·8	28·4	87	+3	70
Vellore	703	987·4	+1·2	983·7	89·0	+0·1	94	6,7,12	72·6	—0·2	63	25,31	76·7	85·2	72·9	74·4	25·9	—0·7	24·2	82	—1	58
Madras	51	1009·6	+0·8	1006·5	88·5	—1·6	93	10,11,12	74·6	—0·4	69	24,25,31	79·5	83·7	75·8	76·0	28·8	+0·3	27·2	85	+2	69
Arogyavaram ..	2,299	934·7	..	931·6	82·7	..	87	3,19	67·3	..	59	23	73·2	78·6	69·4	70·4	23·0	..	22·1	83	..	67
Madras, Deccan																						
Cuddapah ..	428	997·6	+1·4	993·4	89·7	—2·3	94	4 days	72·5	—2·0	63	24	79·8	85·2	73·7	75·8	25·7	—0·5	26·2	74	—2	64
Bellary	1,473	961·9	+1·0	958·3	87·0	—2·8	90	9,14,16	70·6	—0·7	64	24,25	74·6	84·5	69·1	70·0	21·8	—0·1	18·5	75	+3	47
Kurnool	923	980·6	+1·3	976·9	89·5	—1·1	93	9	71·2	—0·5	61	24	76·3	86·3	70·8	71·1	23·3	—0·2	19·1	75	0	43
Rentichintala ..	348	999·7	..	996·1	89·0	—2·5	95	9,11	71·9	—1·9	63	24	75·8	86·9	72·2	75·8	25·4	0	25·4	84	+7	61
Anantapur ..	1,148	972·4	..	968·7	88·2	..	92	4	71·7	..	63	25,31	75·9	85·5	70·1	70·9	22·5	..	19·2	75	..	47
Madras Coast, North.																						
Nellore	66	1009·8	+0·7	1005·8	90·7	0	98	6	75·8	—0·1	67	24	79·5	86·0	75·1	76·1	27·7	—1·2	26·3	81	—1	63
Ongole	38	1010·0	..	1006·6	90·4	..	97	6 days	75·1	..	65	24	79·2	86·1	74·1	76·0	26·5	..	26·1	78	..	63
Masulipatam ..	10	1011·0	+0·6	1007·7	87·1	—1·5	92	7,9,10	75·5	+0·5	72	26,29	79·0	84·4	76·1	76·5	29·4	—0·1	27·6	87	+4	69
Cocanada ..	26	1010·4	+0·6	1007·4	86·4	—1·5	92	6,31	75·0	—0·9	68	24	80·5	84·0	75·3	76·6	27·6	—0·7	27·9	78	—2	71
Viragapatam ..	126	1006·7	+0·3	1003·9	87·0	—0·6	91	10	76·0	—0·5	69	29	80·2	83·2	74·2	76·4	26·2	—1·1	28·0	75	—1	73
Calingapatam ..	19	1010·2	+0·1	1007·4	86·8	—1·3	91	3,6,31	75·1	—0·6	67	24	8·1	3·5	74·5	76·5	27·6	—1·3	28·0	83	—1	72

* Pressure and cloud data refer to aerodrome site; rest refer to Cantonment site. (a) Mean of 30 days.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION
											8 hrs. I. S. T.									17 hrs. I. S. T.								
Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
																													Mysore
5·4	—0·4	7·0	4·21	—0·55	1·53	20	7	+0·6	3·7	0	0	0	3	3	0	4	5	7	9	3	4	4	1	0	0	7	7	5	Chitaldrug.
3·8	—2·3	5·8	5·05	—1·02	1·31	15	11	+1·9	4·0	+0·7	1	2	0	5	2	11	6	3	1	2	8	0	3	1	8	2	7	0	Hassan.
7·3	+0·7	7·3	8·14	+2·27	2·44	18	7	—1·5	4·5	+0·4	3	4	3	2	0	2	6	5	6	6	6	5	0	2	2	3	5	2	Bangalore.
7·6	+0·8	7·1	6·41	+0·53	2·23	20	9	+0·4	3·8	—0·8	3	3	2	0	0	2	9	1	11	3	6	5	0	1	0	5	5	6	Mysore.
																													Malabar
5·3	—0·7	5·9	2·77	—5·38	1·74	15	4	—6·4	4·0	—0·1	3	4	18	1	0	1	0	0	4	4	0	0	0	0	1	7	18	1	Mangalore.
6·5	0	7·0	3·15	—7·12	2·10	14	4	—7·2	5·8	+1·4	1	12	13	2	0	1	0	1	1	2	0	0	0	0	1	15	13	0	Calicut.
7·2	..	7·0	4·50	..	1·65	17	3	..	3·9	..	0	0	5	2	0	5	12	2	5	0	0	1	1	0	4	19	6	0	Palghat.
7·0	+1·0	6·4	4·65	—8·72	1·06	19,21	10	—4·2	6·2	+2·5	2	6	11	2	1	0	1	0	8	0	0	0	0	0	1	14	16	0	Cochin.
6·5	..	7·1	12·39	..	3·95	22	12	..	5·6	..	2	7	3	1	0	0	0	2	16	2	0	0	0	0	1	14	14	0	Alleppey.
5·5	—1·4	6·5	8·31	—2·42	2·78	23	9	—3·2	5·1	+1·4	15	5	0	0	0	0	0	11	0	1	1	0	0	0	1	16	12	0	Trivandrum.
6·3	..	7·7	6·90	..	1·55	23	11	..	7·1	..	1	3	0	0	0	1	8	13	5	0	1	0	0	1	4	21	4	0	Nagercoil.
																													Madras, South-East
6·1	+1·6	5·4	6·58	—1·95	2·90	21	7	—2·4	7·8	+0·6	7	5	4	2	7	3	1	2	0	7	9	2	6	5	1	0	1	0	Pamban.
5·6	—0·8	6·5 (a)	15·36	+7·94	2·90	14	12	+1·8	2·8	—0·1	7	0	1	1	0	0	4	8	10	0	7	5	1	1	0	1	0	15	Madura.
6·7	—0·4	6·3	7·17	—3·41	2·94	22	8	—2·2	6·0	+1·7	0	1	0	0	0	9	11	7	3	1	10	2	8	4	2	1	2	1	Negapatam.
5·4	—0·2	5·8	11·99	+4·78	3·65	19	11	+1·5	2·5	—0·2	0	3	0	0	0	0	9	3	16	0	6	0	1	1	2	3	2	16	Trichinopoly.
6·8	+1·4	7·0	3·93	—2·38	0·66	20	9	—0·7	4·7	+2·0	2	2	1	0	9	11	2	0	4	4	3	0	0	11	12	1	0	0	Coimbatore.
5·9	+0·1	6·6	7·23	+0·79	2·01	15	8	—1·7	2·8	+0·4	1	2	1	0	1	8	4	0	14	0	5	2	4	2	0	3	1	14	Salem.
5·4	—0·3	6·2	9·02	—2·51	3·82	21	8	—2·8	4·5	+1·4	1	0	0	0	3	9	7	7	4	2	7	7	14	0	0	1	0	0	Cuddalore.
5·5	+0·7	7·2	6·24	—0·56	1·50	20	8	—1·2	2·9	+0·9	1	1	1	1	0	2	3	5	17	0	5	8	2	2	3	1	0	10	Vellore.
6·0	+0·3	6·5	11·55	—0·49	4·45	4	12	+1·3	8·3	—0·4	2	0	0	0	1	6	13	9	0	2	7	4	11	0	1	4	2	0	Madras.
6·5	..	7·1	3·95	..	1·84	19	6	..	2·5	..	3	1	0	1	0	0	0	3	23	9	8	0	1	0	0	0	7	6	Arogyavaram.
																													Madras, Deccan
5·7	+0·5	6·1	3·83	—1·03	0·76	15	7	+0·2	2·0	—1·7	1	0	0	0	0	0	2	3	25	0	3	2	4	0	0	2	2	18	Cuddapah.
6·3	+1·2	6·1	2·25	—1·91	1·06	18	4	—1·9	2·9	—0·2	3	0	2	0	0	2	1	5	18	6	6	4	1	0	2	4	3	5	Bellary.
6·0	+1·4	7·2	1·06	—2·14	0·34	22	4	—0·9	3·2	+0·1	0	1	3	1	0	3	6	1	16	3	3	9	1	0	4	5	5	1	Kurnool.
4·5	—1·9	6·2	6·53	+1·54	2·54	14	7	—0·6	2·5	—1·7	1	1	0	0	0	2	2	0	25	9	5	3	2	0	0	2	3	7	Rentichintala.
5·3	..	6·6	1·73	—2·21	0·61	14	6	+0·5	4·1	..	0	3	0	1	0	1	4	6	16	4	12	2	0	0	0	4	1	8	Anantapur.
																													Madras Coast, North
5·2	—1·0	6·2	5·77	—3·79	1·36	29	6	—2·9	2·5	—0·4	2	0	0	0	2	3	4	12	8	5	11	8	4	0	1	0	1	1	Nellore.
5·4	..	7·0	4·78	..	1·77	22	8	..	3·0	..	5	1	0	0	0	3	7	7	8	3	6	14	3	0	0	0	4	1	Ongole.
5·2	+0·4	5·8	7·80	—0·80	1·93	21	9	+0·5	4·2	+0·6	5	7	1	0	4	0	4	8	2	8	3	2	3	4	0	1	3	7	Masulipatam.
5·1	0	6·3	5·73	—2·79	1·31	13	13	+4·4	6·0 (d)	+1·1	3	8	0	4	0	4	1	11	0	1	9	2	8	0	6	1	4	0	Cocanada.
6·1	+0·7	5·8	10·69	+2·86	3·39	16	8	—0·3	3·7	+0·5	7	2	0	0	0	0	7	2	9	1	7	6	2	7	2	1	0	1	Vizagapatam.
7·1	+2·8	7·5	21.3	—5·74	0·52	15	8	+0·7	7·2	+2·5	8	0	1	0	0	0	7	15	0	1	4	10	9	4	2	0	1	0	Calingapatam.

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		West bulb temperature, °F		Vapour pressure, Millibars.			Relative humidity %		
		Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 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
Hill Stations Excluding Kashmir																						
Shillong ..	4,921	851·7	—0·3	849·3	68·6	—2·5	74	3,7,8	54·2	—0·6	44	27,28	64·0	63·2	59·5	61·3	15·6	—0·4	17·7	76	+1	8
Cherrapunji ..	4,309	870·5	—0·1	868·1	69·3	—2·6	77	10	58·5	—1·7	50	25	64·9	64·3	61·8	61·9	17·7	+0·2	17·9	84	+8	8
Aijal ..	3,599	891·7	..	888·8	74·8	..	82	6	61·1	..	48	24	67·8	68·7	65·6	66·4	20·7	..	21·2	90	..	9
Darjiling ..	7,432	777·3	—1·3	775·7	63·0	+1·3	69	10	49·5	—0·7	42	27,28,29	55·8	55·4	52·9	53·2	12·5	—0·6	13·2	84	0	8
Kalimpong ..	3,965	880·4	—1·2	877·8	71·4	—0·6	78	12	59·4	—0·9	50	28	62·8	66·3	60·5	44·3	17·0	—0·7	19·8	87	+5	8
Katmandu ..	4,388	869·1	..	865·9	80·1	0	86	12	53·7	—2·7	45	21,23	61·3	71·3	58·4	62·9	15·5	—0·1	16·3	85	—2	6
Muktesar ..	7,592	773·5	—1·0	772·0	64·1	—0·9	70	1,2,13	48·4	—1·3	43	25,29	53·4	57·7	46·7	52·2	8·5	—0·3	11·3	61	+1	6
Massooree ..	6,699	798·4	..	797·6	64·9	+0·8	72	1	51·4	+0·1	45	20	58·3	57·6	51·6	54·5	10·6	+1·2	13·5	65	—2	8
Simla ..	7,224	783·6	—0·1	782·6	62·8	—1·5	71	8	49·3	—2·1	42	31	55·1	57·4	45·6	50·4	6·2	—0·9	9·8	48	+1	6
Abu ..	3,945	881·7	—0·5	880·2	77·4	—1·7	83	1	60·0	—4·4	51	27	67·7	72·4	57·8	60·5	12·4	—1·1	12·8	55	+4	5
Pachmarhi ..	3,528	896·1	+0·7	894·0	77·2	—2·1	79	4 days	(f) 57·3	—1·6	48	27	65·9	74·8	60·1	63·2	15·4	—6·7	15·1	71	+8	5
Mahabaleshwar	4,534	864·6	+1·1	862·6	74·4	+0·2	80	30	59·7	—1·6	57	1,27	62·3	69·8	57·7	63·4	14·4	—1·5	17·4	77	—3	7
Mercara ..	3,781	886·6	+0·8	884·3	71·3	—4·0	75	29,30	61·6	—0·9	56	27	64·7	71·1	62·7	66·3	18·7	—0·7	20·1	89	—1	7
Ootacamund ..	7,364	781·3	+1·2	779·4	65·3	+0·7	69	6	49·7	—0·8	40	27	53·7	59·3	52·5	56·8	13·0	+0·4	14·9	93	+11	8
Coonoor ..	5,730	828·0	..	..	67·5	—2·2	71	7,8	55·3	—0·8	45	27	62·7	..	58·2	..	14·9	—0·3	..	78	+0	..
Kodaikanal ..	7,688	772·4	+1·3	770·5	62·0	—0·1	68	7	51·0	—0·2	45	27	54·2	56·2	52·9	54·8	13·2	+0·5	14·2	93	+10	9
Ceylon																						
Colombo ..	24	1011·6	+0·8	1008·9	84·1	—1·6	87	10	74·5	—0·5	70	27	77·6	80·5	74·9	75·2	28·3	—0·5	27·5	87	—3	7
Trincomalee ..	24	(a) 1010·3	+1·1	1007·5	87·2	—2·0	95	8	(a) 75·1	—0·4	71	27	(a) 78·8	82·9	75·1	77·2	28·1	+0·2	29·3	(a) 83	—2	7
Hambantota ..	61	1008·8	—0·1	1005·4	85·6	—0·6	90	1	74·9	—0·2	72	30	77·5	81·2	74·5	76·5	27·8	0	29·0	86	—1	7
Mannar ..	12	1011·2	..	1008·3	86·3	..	89	14,15	76·6	..	73	4 days	79·8	82·3	75·8	76·8	28·6	..	29·0	83	..	7

(f) Mean of 25 days.

(a) Mean of 30 days.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I. S. T.									17 hrs. I. S. T.									
Mean 8 hours I. S. T.	Departure from normal.	Mean 17 hours I.S.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hrs.	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
																													Hill Stations Excluding Kashmir
5·9	+1·6	8·9	12·60	+5·88	2·81	24	14	+4·0	1·9	+0·7	2	3	4	2	1	0	0	3	16	0	0	1	1	0	1	1	3	24	Shillong.
6·6	+1·8	6·6	25·34	+5·92	10·58	15	14	+4·7	4·7	+1·6	0	9	7	1	2	6	3	1	2	3	5	0	0	1	12	7	1	2	Cherrapunji.
6·2	..	6·0	7·69	..	2·83	24	12	..	2·7	..	0	0	22	1	2	1	1	0	4	0	0	5	1	0	0	21	1	3	Aijal.
4·7	—0·7	7·1	2·24	—3·17	0·50	1	7	+2·2	3·9	+1·3	0	2	13	1	1	1	4	1	8	0	1	2	5	2	4	15	1	1	Darjiling.
4·0	+0·1	5·6	4·38	—0·63	2·12	1	5	+0·2	5·8	—0·6	1	0	0	3	0	0	1	22	4	0	0	0	22	6	0	0	1	2	Kalimpong.
5·7	0	4·9	0·29	—1·15	0·23	3	1	—2·2	1·2	+0·4	0	0	0	0	0	0	0	0	31	7	1	0	0	0	0	1	1	21	Katmandu.
1·0	—0·4	2·2	0·08	—1·80	0·08	5	0	—2·3	5·8	+1·1	0	7	8	0	0	1	7	4	4	0	1	1	1	0	11	14	2	1	Muktesar.
1·4	—0·6	3·4	0·99	—0·15	0·96	3	1	—1·3	2·5	—1·8	4	6	1	2	2	1	0	0	15	0	2	0	6	13	5	0	1	3	Mussooree.
1·5	+0·1	2·0	2·30	+1·12	1·76	3	3	+1·1	1·3	—1·5	8	2	0	1	3	2	0	1	14	8	1	0	0	3	4	4	2	9	Simla.
0·5	—0·9	1·1	1·22	+0·46	1·22	2	1	+0·1	1·5	—1·9	0	3	0	1	0	0	0	0	27	0	1	1	0	2	1	0	0	26	Abu.
1·6	—1·1	2·1	3·35	+1·05	3·30	4	1	—2·9	2·1	—0·2	2	4	2	1	2	3	3	4	10	6	8	1	0	1	1	4	7	3	Pachmarhi.
3·0	—1·7	4·4	3·93	—2·42	1·96	2	5	—2·9	0·6	—7·0	0	6	8	3	1	1	0	0	12	0	0	0	0	0	1	1	0	29	Mahabaleshwar.
4·6	—2·1	5·3	7·92	—0·37	1·93	21	9	—3·9	5·1	+1·7	0	5	6	0	0	0	7	6	7	2	5	4	0	0	0	7	9	4	Mercara.
5·4	—0·6	7·3	6·72	—1·26	1·13	19	11	—2·8	2·3	—0·5	3	9	1	1	3	0	0	0	14	10	10	0	0	1	0	0	0	10	Ootacamund.
7·5	+0·5	..	4·90	—5·23	0·82	19,20	9	—5·1	3·1	+0·3	2	0	2	5	7	1	0	3	11	..	..	..	..	..	..	..	..	..	Coonoor.
6·7	+0·7	8·5	10·17	—0·07	1·55	15	15	—0·3	6·6	—0·2	7	3	0	4	2	0	1	8	6	4	1	0	5	6	1	2	7	5	Kodaikanal
																													Ceylon
8·0 (a)	+0·9	7·6	11·41	—3·04	2·44	21	11	—5·1	..	..	1	2	5	3	1	4	7	2	6	2	1	0	0	0	7	14	7	0	Colombo.
6·6	+1·7	6·8	12·18	+3·87	5·15	23	9	—1·9	..	..	1	0	1	0	2	24	0	0	2	6	7	0	1	0	14	1	2	0	Trincomalee.
7·9	+3·2	8·9	2·09	—2·19	0·58	20	6	—1·9	..	..	6	0	0	0	0	16	3	4	2	0	0	1	0	5	21	3	1	0	Hambantota.
6·3	..	6·8	6·05	..	2·11	21	6	..	..	..	2	2	2	6	12	6	0	1	0	9	0	0	0	13	8	0	1	0	Mannar.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2-30 HRS. G.M.T.) AT 4TH CLASS STATIONS—OCTOBER 1947.

Stations.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature 8 hrs. I.S.T. °F.	Mean wet bulb temperature 8 hrs. I.S.T. °F.	Vapour pressure millibars.		Relative Humidity. %		Mean cloud amount 8 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 8 hrs. I.S.T.	Departure from normal.	Mean 8 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 8 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 ..	85·2	+0·3	92	6	76·5	+6·6	66	24	78·7	74·6	27·4	+0·3	82	+8	..	7·04	+3·50	2·55	24	9	+3·1	..	..
Kashmir																							
Jammu ..	87·2	—0·9	92	3	65·9	—1·3	60	23,25	70·3	60·1	13·0	—0·2	67	+8	1·2	0·28	—0·48	0·12	23	1	—0·1	N 28E	..
Kargil (*I.*) ..																							
Mysore																							
Balehonnur ..	78·1	—0·9	81	4days	63·0	—1·4	56	27	66·9	65·5	20·9	—0·8	93	—2	..	2·51	—5·32	1·11	18	6	—5·4	..	..
Tibet																							
Yatung (Chumbi) ..	59·7	+1·0	66	8	33·5	—3·4	22	23,25	42·8	41·6	8·6	—0·1	92	+6	4·3	1·39	—0·55	0·47	27	4	+0·6	..	..

(*R*)—Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2-30 HRS. G.M.T.) AT 5TH CLASS STATIONS—OCTOBER 1947

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							Kashmir ..	Sonamarg (*R*)						
									Gurez (*R*) ..						
West Bengal ..	Bankura ..	4·00	+0·88	0·95	7	9	+4·5								
	Cooch Behar	8·50	+1·19	3·07	1	7	+0·8	Bombay, Deccan ..	Khandala (*R*)						
								Madras, Southeast	Palamcottah ..	5·12	—1·93	0·96	1	9	+0·4
Bihar	Muzaffarpur ..	1·93	—0·48	0·75	1	3	+0·5	Sikkim ..	Lachung ..	1·83	—2·06	0·16	8	1	+1·1
	Chapra ..	1·24	—0·17	0·93	2	4	+1·5								
	.....	..	.....	.....		.	..								
	Arrah ..	2·95	+0·53	1·30	2	4	+1·0								
United Provinces West	Meerut ..	0	—0·81	0	—	0	—0·9								
East Punjab	Dharampore ..	0·31	—0·73	0·15	3	—	—								
	Kyelang	0·19	—0·59	0·10	22	2	+0·7								
	Dalhousie ..	0·63	—0·71	0·26	3	3	+0·9								

(*R*)—Register not received.

MONTHLY WEATHER REPORT, OCTOBER 1947

Monthly Means of Upper Winds

Note.—Data upto 9·0 Km. a.s.l. are given under Table A and those above 9·0 Km. under Table B. In Tables A & B,

n represents the number of observation,

V „ the mean speed in m/sec. irrespective of directions,

v „ the resultant mean velocity in m/sec.,

and D „ the direction of the resultant mean wind in degrees East of North.

For the coordinates of the stations for which data have been published in these tables and other particulars, please refer to the introduction to the Monthly Weather Report, January 1947, and the subsequent issues. The data for Minicoy have been included in the issue for January 1948. The data for Veraval are not available.

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

October 1947

Height in km.	AHMEDABAD												ALLAHABAD										
	0100				0700				1600				0100				0700				1600		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface.	31	1·1	0·6	228	31	0·5	0·1	20	31	1·2	0·3	26	31	0·1	0·1	205	31	0·4	0·4	247	31	2·1	1·6
0·15 a ground	31	4·4	1·4	275	31	5·2	2·6	13	30	2·7	0·7	41	31	3·8	1·8	268	31	4·1	3·5	266	31	4·3	3·5
0·6 a. s. l.	31	3·4	1·2	316	31	4·2	2·0	336	31	2·4	0·7	352	31	3·5	2·1	302	31	3·6	2·5	296	31	4·3	3·6
1·0 „	31	2·9	1·1	357	30	3·2	1·2	18	31	2·5	1·1	321	31	4·1	3·0	305	31	6·0	2·8	310	31	4·6	3·8
1·5 „	25	3·0	1·1	354	30	3·5	1·1	56	31	3·1	1·0	322	31	4·9	4·1	309	31	4·7	3·2	320	31	4·8	4·0
2·0 „	24	3·7	0·4	358	29	4·6	1·3	84	31	4·1	0·6	13	30	5·1	3·9	304	31	5·6	4·7	319	29	5·0	4·0
2·5 „	19	4·4	1·0	20	29	6·1	1·5	89	28	5·0	0·8	35	24	4·8	3·1	301	29	6·4	4·8	315	27	5·3	4·1
3·0 „	16	4·4	1·9	32	28	6·9	2·9	63	26	4·9	1·4	8	13	4·5	3·0	310	29	6·6	4·0	316	26	6·1	4·8
4·0 „					21	6·4	4·0	10	19	4·9	3·3	311					24	7·1	4·2	375	22	8·4	6·7
5·0 „					18	6·4	4·7	329	16	8·2	7·2	303					15	8·3	5·8	260	17	10·5	8·9
6·0 „					14	8·0	6·8	292	14	10·6	9·6	296					13	9·3	6·7	260	12	10·3	9·2
7·5 „					4	11·6	11·4	296	8	17·2	15·1	292					5	10·1	10·1	256	6	15·2	13·3
9·0 „					2	18·3	18·1	271	2	24·5	22·5	281					3	12·8	12·7	260	2	19·5	19·5

Height in km.	AMBALA												ANANTAPUR								ASANSOL		
					0700				1600				0700				1600				0100		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface.					31	1·8	0·8	101	30	2·3	1·8	317	31	1·1	0·6	278	31	2·4	1·5	8	31	1·2	0·5
0·15 a ground					31	5·1	0·7	99	30	5·7	4·7	314	29	3·8	1·0	261	31	4·3	2·7	1	29	3·6	1·2
0·6 a. s. l.					31	5·2	2·4	329	30	5·4	4·5	317	29	4·8	0·7	284	31	4·4	2·7	4	29	3·8	1·5
1·0 „					31	5·1	4·3	329	30	5·4	4·7	313	29	7·0	2·8	30	31	5·0	3·1	5	28	4·3	2·6
1·5 „					31	5·8	5·3	324	30	5·9	5·5	313	27	6·9	4·2	39	31	5·6	3·6	4	25	4·5	3·3
2·0 „					31	6·7	5·7	317	30	7·4	6·3	312	27	6·8	4·5	24	30	5·6	3·5	5	20	5·2	3·2
2·5 „					31	7·0	5·9	316	30	7·5	6·3	313	25	7·5	4·3	356	27	5·2	2·4	329	8	5·2	2·7
3·0 „					29	7·2	6·2	318	30	6·6	5·2	309	24	6·7	2·2	347	16	5·4	2·2	305	5	3·7	1·1
4·0 „					27	7·1	4·6	319	30	7·3	4·5	301	21	2·8	0·7	197	20	4·9	2·1	297			
5·0 „					23	7·8	6·1	305	28	7·4	5·1	301	13	6·4	1·7	47	14	4·0	0·8	53			
6·0 „					19	12·0	10·3	286	25	9·4	7·8	299	12	5·9	2·2	354	12	4·6	0·1	20			
7·5 „					1	13·4	13·0	310	11	16·5	15·2	296	7	6·3	0·8	121	8	6·2	1·9	90			
9·0 „					1	14·0	14·0	315	4	25·8	24·3	292	3	6·0	3·8	73	7	5·9	3·7	119			

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

October 1947

Height in km.	ASANSOL								BALASORE				BANGALORE								BAREILLY			
	0700				1600				0700				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·2	0·6	309	31	1·4	0·4	359	28	2·5	1·8	331	31	1·9	0·5	311	31	2·8	1·5	355	31	0·3	0·1	353
0·15 a. ground.	31	3·2	1·6	324	30	3·0	1·3	356	25	4·3	3·2	339	31	4·8	1·4	5	31	4·7	2·8	6	28	4·0	1·1	336
0·6 a. s. l.	30	3·4	1·7	7	30	3·6	1·5	357	26	4·2	2·2	1									28	4·2	2·1	296
1·0 „	27	3·8	1·9	348	30	3·5	1·9	349	26	4·1	2·4	20	31	4·0	1·2	354	31	4·6	2·7	3	27	4·6	2·9	309
1·5 „	26	4·7	2·9	354	25	4·1	2·6	352	25	4·0	2·3	22	29	5·2	3·1	26	31	4·7	3·6	359	29	5·6	4·6	314
2·0 „	25	5·4	3·5	332	22	5·1	3·3	344	25	4·1	4·5	12	26	5·0	3·7	20	28	4·3	2·8	358	29	6·9	5·7	320
2·5 „	24	5·7	3·3	312	19	5·5	4·0	328	24	4·8	1·4	340	24	5·1	2·8	19	22	3·9	2·1	2	30	8·1	6·4	322
3·0 „	22	6·7	3·9	284	15	6·9	5·9	302	23	4·8	1·1	282	21	5·3	2·0	7	17	3·8	1·8	319	29	8·6	6·1	334
4·0 „	9	6·6	3·2	273	9	8·1	6·5	293	17	5·9	2·8	243	17	4·9	1·0	4	8	3·7	1·8	3	24	8·1	4·5	357
5·0 „	3	9·8	8·5	252	5	11·4	9·5	297	15	7·6	4·9	257	15	5·9	0·8	45	7	5·9	0·9	6	20	8·5	5·6	297
6·0 „	1	6·5	6·5	210	3	17·7	17·2	274	13	8·2	6·7	232	13	4·5	1·7	59	4	3·1	1·1	46	11	11·3	10·3	267
7·5 „									7	3·3	2·4	184	12	4·0	1·6	54	3	6·5	2·2	42	1	13·0	13·0	240
9·0 „									4	2·5	1·7	130	8	5·9	1·1	72	1	3·5	3·5	270				

Height in km.	BAREILLY				BHOPAL												BHUJ							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	0·3	0·3	311	31	2·3	0·7	342	31	1·6	0·8	324	31	2·9	2·0	353	31	1·2	1·0	257	31	0·3	0·3	242
0·15 a. ground	28	4·4	4·1	301	31	5·8	1·8	18	31	4·9	1·1	337	30	4·4	2·6	343	31	5·3	4·5	284	31	5·6	4·1	294
0·6 a. s. l.	28	4·4	4·2	302	31	5·6	1·7	1	31	4·2	1·4	341	20	4·1	2·4	341	31	5·3	3·2	290	31	5·3	3·4	297
1·0 „	28	4·6	4·7	300	31	6·4	2·4	357	30	5·9	2·4	360	30	4·6	2·8	349	31	3·5	0·5	240	30	4·0	1·2	221
1·5 „	29	5·5	5·1	301	30	5·3	3·1	2	30	6·1	3·3	15	30	4·6	2·7	346	31	4·4	1·5	137	30	4·3	1·2	172
2·0 „	30	6·1	5·4	304	12	4·7	2·3	343	28	5·2	3·1	357	27	4·2	2·7	353	29	5·6	1·4	90	30	4·8	1·5	91
2·5 „	31	6·8	6·9	308	4	3·6	3·3	309	26	5·5	3·4	343	22	4·6	2·2	348	21	6·2	1·8	77	30	5·5	2·5	47
3·0 „	31	6·7	5·4	311	1	8·0	8·0	330	24	6·9	6·8	341	19	4·9	2·8	338	16	6·4	3·5	15	28	6·4	5·1	23
4·0 „	30	7·5	4·8	308					11	6·8	3·9	297	16	7·6	5·3	303	6	4·9	4·1	6	26	6·1	4·4	351
5·0 „	29	10·0	7·2	303					7	8·1	6·5	272	14	8·6	7·2	285					26	6·9	5·9	314
6·0 „	26	12·7	11·0	286					4	8·5	6·7	282	8	11·0	10·1	290					24	9·8	8·5	301
7·5 „	24	17·8	15·9	280					2	8·5	7·7	261	4	12·0	11·0	255					18	11·0	10·3	285
9·0 „	13	20·6	19·8	276									1	13·5	13·5	240					12	15·1	14·3	269

Table A—Monthly mean directions and velocities of upper winds

Winds up to 9 Km. above sea level.

October 1947

Height in km.	BHUJ				BIKANER								BOMBAY											
	1600				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·0	1·5	266	31	2·5	1·8	239	31	1·3	0·9	236	31	0·5	0·1	142	31	1·1	0·7	71	31	4·7	4·2	311
0·15 a. ground.	31	3·8	2·1	252	31	8·1	6·3	248	30	3·5	2·2	241	31	4·1	2·7	6	31	4·1	2·6	40	31	4·1	3·5	308
0·6 a. s. l.	31	3·7	2·1	252	31	4·9	6·5	260	30	4·1	2·8	242	28	5·4	4·2	14	30	5·5	3·1	59	31	3·5	2·2	350
1·0 „	31	3·5	1·8	249	31	6·3	5·3	266	30	4·2	3·2	252	27	4·4	2·8	4	30	4·9	2·7	68	29	3·1	1·0	42
1·5 „	30	303	1·2	265	30	5·1	3·5	286	30	4·4	3·1	262	21	3·8	2·0	14	28	4·4	1·8	78	29	3·2	1·1	57
2·0 „	29	3·9	0·5	28	30	4·4	2·4	300	30	5·1	3·8	267	10	3·1	1·3	212	27	3·3	1·2	85	28	3·2	1·2	31
2·5 „	24	5·3	2·5	30	29	4·1	1·8	337	30	5·1	3·5	282	1	4·5	4·5	145	25	3·6	0·9	127	28	4·3	0·6	294
3·0 „	20	6·0	3·6	20	29	5·0	2·9	19	30	4·8	2·8	302					24	5·5	1·5	231	28	4·9	0·7	320
4·0 „	20	5·7	4·3	328	27	6·3	4·3	358	28	6·4	4·7	317					20	6·5	3·1	331	27	4·8	1·4	316
5·0 „	19	8·6	7·6	317	17	8·2	6·9	305	23	9·1	7·5	311					9	4·7	3·0	340	23	5·3	2·7	326
6·0 „	18	11·9	10·4	307	12	13·4	12·4	298	19	11·8	10·4	300					4	3·6	4·4	53	19	6·6	4·4	327
7·5 „	14	17·4	16·6	295					7	14·9	14·5	291					1	4·0	4·0	10	5	5·3	4·1	288
9·0 „	5	20·2	19·3	282													1	2·0	2·0	60	1	13·0	13·0	265

Height in km.	CALCUTTA												COCHIN											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	0·6	0·3	20	31	1·2	0·7	30	31	1·5	0·7	9	31	1·3	0·7	356	31	1·2	0·9	50	31	5·0	4·3	281
0·15 a ground.	31	5·5	1·5	183	31	3·3	1·3	16	31	3·5	1·1	4	24	2·8	1·9	341	31	2·6	1·7	43	30	5·7	5·3	288
0·6 a. s. l.	30	4·6	2·2	229	29	3·9	0·8	345	31	3·9	1·3	27	23	4·4	4·2	315	31	4·1	3·5	331	30	5·3	4·9	297
1·0 „	29	4·5	1·2	289	27	3·7	1·4	15	30	3·5	1·3	4	22	4·8	4·2	316	31	4·4	3·6	324	29	4·5	3·8	309
1·5 „	25	4·7	2·1	332	25	4·0	1·6	7	29	3·9	1·7	355	22	3·5	2·3	322	30	3·9	2·1	344	25	3·7	2·2	9
2·0 „	25	4·4	1·9	344	24	3·9	1·5	344	27	4·0	1·6	334	19	3·8	1·7	30	29	3·6	1·7	16	25	3·7	2·2	218
2·5 „	20	5·7	1·6	301	23	4·3	1·8	289	25	4·5	2·5	288	16	3·3	1·9	39	27	3·3	1·7	29	24	3·0	1·1	11
3·0 „	15	6·1	3·2	277	22	6·0	3·5	253	23	5·7	3·4	282	15	3·6	1·5	340	25	3·5	1·0	56	24	3·5	1·9	323
4·0 „	3	5·8	0·6	198	15	7·2	5·9	265	16	6·1	3·9	285	3	5·5	5·1	288	20	4·3	1·4	271	21	4·3	2·1	289
5·0 „					12	9·5	8·2	268	11	8·1	7·5	284	1	1·5	1·5	325	16	3·2	0·3	304	18	3·6	1·1	296
6·0 „					7	5·8	4·7	256	9	11·8	11·2	268					14	3·4	2·2	61	16	3·9	1·0	360
7·5 „					1	3·5	3·5	215	3	24·8	24·6	270					7	5·3	4·1	75	8	4·8	2·5	62
9 0 „									2	23·7	23·7	257					5	9·3	9·0	93	6	5·1	3·9	87

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

October 1947

Height in km.	COOCHBEHAR								CUTTACK												DEOLALI			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·5	1·2	78	31	1·4	0·4	186	31	0·3	0·2	293	31	0·4	0·3	313	31	1·1	0·3	9	22	1·0	0·2	23
0·15 a. ground	29	3·6	2·7	87	30	2·9	0·9	192	31	3·5	1·2	297	30	3·2	2·3	332	28	4·0	1·8	25	22	3·3	1·2	69
0·6 a. s. l.	26	4·4	1·9	97	29	3·5	1·1	213	31	3·8	0·5	88	30	4·0	2·3	4	29	3·3	1·8	48	22	1·9	0·5	42
1·0 „	26	4·4	0·9	86	29	3·9	1·1	235	31	3·9	1·5	36	30	4·5	2·9	20	29	3·7	1·9	26	22	5·0	3·0	87
1·5 „	22	5·0	0·5	350	26	4·6	0·7	245	30	4·3	1·9	43	30	4·9	3·1	27	24	4·6	2·9	15	22	4·6	3·6	90
2·0 „	19	5·0	0·8	284	26	5·1	0·5	255	29	4·0	1·4	33	29	5·1	2·9	17	27	4·2	2·0	358	22	3·5	1·7	66
2·5 „	18	4·8	0·3	336	24	4·5	1·3	267	27	4·1	1·4	332	28	4·9	1·9	359	25	4·3	1·9	321	21	4·1	1·1	249
3·0 „	17	4·6	0·7	51	23	4·1	1·0	280	21	4·1	1·8	285	28	4·8	0·9	293	24	5·1	2·5	281	20	5·3	2·3	228
4·0 „	13	5·5	3·1	250	19	6·5	4·7	275	7	5·8	5·3	262	28	5·5	2·6	251	18	7·1	4·1	269	19	5·0	2·2	331
5·0 „	7	10·5	10·1	253	18	9·5	8·4	269					22	7·4	4·7	259	15	8·3	6·6	263	14	4·9	2·9	334
6·0 „	3	14·2	13·0	260	14	13·9	13·5	266					18	7·4	5·2	269	12	9·4	7·3	271	13	5·7	3·3	336
7·5 „	1	14·0	14·0	300	7	22·3	21·7	262					14	8·5	6·3	261	11	11·4	10·5	259	8	5·5	0·9	338
9·0 „	1	40·5	40·5	280	2	35·7	35·5	265					8	6·9	3·1	236	8	14·6	14·1	259	4	4·8	3·2	234

Height in km.	GADAG								GAYA												GOPALPUR			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·2	0·6	179	31	3·2	1·1	29	31	1·2	0·9	166	31	0·9	0·7	203	31	1·9	1·2	326	31	2·7	2·6	344
0·15 a. ground	30	4·9	0·6	72	31	5·0	1·9	33	31	3·6	1·0	213	31	2·9	1·9	230	30	3·7	2·4	336	30	5·1	4·2	345
0·6 a.s. l.									31	3·6	1·3	301	31	3·0	1·4	326	30	4·1	3·1	334	30	4·5	2·7	20
1·0 „	30	6·1	3·1	58	31	4·8	2·2	25	31	3·8	2·4	319	31	3·6	2·4	336	29	4·0	4·1	324	30	6·1	3·6	27
1·5 „	29	6·4	3·5	45	30	5·1	2·5	29	31	4·7	5·5	318	30	4·4	3·2	325	28	3·8	2·8	308	30	4·8	3·2	40
2·0 „	28	6·3	4·0	46	29	4·8	3·0	24	28	5·1	3·4	294	30	4·8	3·3	320	27	4·1	3·1	295	30	4·0	2·2	27
2·5 „	27	5·5	2·9	34	25	5·5	4·0	15	8	3·8	1·5	279	27	4·9	3·3	311	25	5·2	3·9	291	30	3·9	1·4	8
3·0 „	25	4·6	1·2	23	21	4·5	2·4	346	6	3·6	3·1	267	27	5·9	3·4	291	21	7·8	6·3	279	29	3·8	0·7	342
4·0 „	19	4·9	1·6	353	16	5·1	2·3	337					19	8·3	6·7	271	12	10·5	8·5	269	21	4·4	1·8	234
5·0 „	18	5·3	0·7	14	8	4·8	2·2	346					12	8·8	7·9	264	11	11·8	10·2	272	18	6·0	3·3	256
6·0 „	17	5·5	2·4	20	5	5·2	3·7	353					5	11·1	9·7	268	7	19·0	17·0	262	14	6·5	3·9	259
7·5 „	14	6·6	3·3	323	2	5·3	3·7	288									1	24·0	24·0	285	10	7·9	4·9	265
9·0 „	9	6·7	1·6	82	1	7·0	7·0	240													8	9·3	5·7	255

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

October 1947

Height in km.	GOPALPUR				GORAKHPUR								HYDERABAD (Dn)											
	1600				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	3·7	2·3	99	31	1·2	0·3	94	31	1·0	0·7	293	31	1·8	0·7	8	31	2·0	1·3	334	31	3·7	2·3	11
0·15 a. ground	28	5·0	2·4	79	31	3·3	0·4	196	31	2·7	2·0	294	31	6·4	3·7	43	31	6·1	3·9	19	31	5·3	3·6	16
0·6 a. s. l.	28	4·6	2·8	41	31	3·4	1·3	269	31	3·3	2·7	288	31	4·0	1·9	23	30	3·6	2·3	354	31	5·2	3·6	23
1·0 ,,	28	4·8	3·3	27	31	4·0	2·4	282	31	3·6	2·8	278	31	7·6	4·9	34	31	8·0	5·5	34	31	6·1	4·4	344
1·5 ,,	27	5·7	3·8	10	30	5·1	3·1	285	31	4·3	3·6	272	30	8·1	4·9	20	30	8·1	5·6	32	31	6·0	4·1	14
2·0 ,,	25	5·0	3·1	355	29	5·4	2·8	273	28	5·3	4·3	271	29	6·9	3·1	357	30	7·5	4·5	10	31	5·9	3·9	359
2·5 ,,	24	4·6	2·1	331	26	5·4	2·5	258	26	6·4	4·4	271	26	5·8	1·7	357	30	6·3	4·0	1	26	5·5	3·9	356
3·0 ,,	24	4·2	1·5	302	26	6·6	1·9	208	26	6·9	4·1	258	21	5·4	1·8	314	30	5·6	2·4	341	24	5·8	2·5	353
4·0 ,,	18	5·4	3·4	288	18	7·9	3·8	220	21	6·9	3·7	266	1	7·0	7·0	275	28	5·1	0·5	300	13	6·0	1·9	334
5·0 ,,	16	6·4	4·1	271	4	10·3	9·7	257	16	7·4	5·2	277					24	5·3	0·5	292	10	6·0	4·3	317
6·0 ,,	12	8·2	5·1	271	1	10·5	10·5	270	10	10·7	9·3	266					23	5·6	1·5	338	9	7·4	5·2	321
7·5 ,,	9	8·7	5·8	253					5	13·1	12·9	272					10	7·7	1·3	310	8	10·3	7·1	327
9·0 ,,	7	10·5	6·7	237					1	30·0	30·0	265					4	9·7	1·7	316	6	10·5	6·1	307

Height in km.	JAMSHEDPUR								JHARSUGUDA												JODHPUR			
	0700				1600				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	0·9	0·7	287	31	1·1	0·7	39	31	1·3	0·8	35	31	1·1	1·0	27	31	1·5	0·9	355	31	0·9	Calm	Calm
0·15 a. ground	31	2·2	1·0	285	30	2·7	1·6	43	30	3·6	1·9	41	31	3·6	2·1	28	29	3·1	1·6	1	30	6·0	4·2	255
0·6 a. s. l.	31	3·3	1·2	360	31	2·7	2·0	26	30	3·8	1·4	52	31	4·2	2·1	29	30	3·1	1·7	9	30	5·7	4·1	231
1·0 ,,	28	4·1	2·1	6	31	3·1	2·1	19	30	4·1	2·1	26	29	4·4	2·4	27	30	3·6	2·3	15	30	5·0	3·7	239
1·5 ,,	27	4·5	2·6	12	30	3·3	2·2	357	26	4·1	2·0	13	27	4·3	3·2	23	29	3·5	2·7	358	29	4·5	2·5	254
2·0 ,,	21	4·6	3·0	356	28	4·1	2·4	345	22	3·8	2·1	359	27	4·7	3·0	7	29	4·1	3·3	252	20	4·2	1·6	69
2·5 ,,	21	5·2	3·0	342	28	5·1	3·1	315	13	4·6	3·9	345	27	4·7	2·4	1	28	4·7	3·3	329	12	4·4	1·7	357
3·0 ,,	21	5·5	2·5	295	27	6·2	4·2	288	9	5·5	4·7	341	27	5·5	1·6	320	27	5·7	4·3	310	4	3·8	2·2	267
4·0 ,,	16	7·1	5·0	259	19	6·2	4·8	285	4	3·3	2·9	278	24	6·7	4·4	257	22	6·3	5·1	275	1	3·5	3·5	240
5·0 ,,	9	8·8	7·9	258	16	8·1	7·1	277	2	6·5	6·1	258	23	8·1	6·9	257	18	6·3	5·6	267				
6·0 ,,	6	6·8	5·9	259	12	10·8	10·3	276					20	10·2	8·9	256	15	8·5	7·4	271				
7·5 ,,					7	15·4	14·3	291					14	14·1	12·8	253	9	10·7	8·6	275				
9·0 ,,													7	6·3	4·8	244	5	14·7	14·0	242				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level,

October 1947

Height in km.	JODHPUR								JUBBULPORE								MADHOSAGAR							
	0700				1600				0700				1600				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	0·5	0·2	243	31	1·2	0·9	225	31	0·9	0·7	170	31	1·8	1·5	348	31	1·8	1·6	227	31	2·4	2·1	316
0·15 a. ground	31	5·3	3·7	244	31	3·4	2·1	236	31	3·0	1·9	228	31	4·1	2·7	346	18	5·4	4·1	269	29	4·7	4·0	321
0·6 a. s. l.	31	6·5	5·4	248	31	3·7	2·3	238	31	3·2	1·4	249	31	4·1	2·6	347	27	6·1	4·0	306	29	4·4	3·6	327
1·0 „	31	5·9	4·5	242	31	3·6	2·5	241	31	5·2	2·6	356	31	4·0	2·5	350	27	5·6	3·8	323	29	4·4	3·6	326
1·5 „	30	4·8	2·7	249	30	4·3	3·1	242	31	5·6	4·0	2	31	4·1	2·6	340	27	6·0	4·5	333	29	4·6	3·8	329
2·0 „	27	4·1	0·6	357	28	3·1	1·2	255	31	5·8	4·4	356	31	5·4	3·4	334	26	6·4	4·9	342	27	5·2	4·3	326
2·5 „	25	4·6	1·1	15	27	4·0	1·1	299	31	6·2	4·6	354	31	6·1	3·8	335	24	6·2	4·6	344	23	5·9	4·7	341
3·0 „	21	5·4	2·2	25	27	4·4	1·6	316	31	6·5	3·9	338	2.8	6·6	3·5	321	22	5·8	4·2	344	22	6·0	4·7	333
4·0 „	17	5·7	3·6	347	22	6·5	4·4	314	20	7·2	4·9	314	19	9.0	6·1	304	14	6·3	5·2	351	15	7·4	6·3	328
5·0 „	13	6·8	5·9	298	20	9·1	7·2	298	14	8·0	6·7	293	15	9·9	7·0	291	8	6·5	5·2	324	14	10·0	8·6	297
6·0 „	6	11·0	10·9	279	15	12·8	11·5	294	11	8·2	7·1	270	12	12·5	8·7	282	5	9·3	9·0	297	12	11·9	10·8	289
7·5 „	1	12·0	12·0	265	7	17·1	14·0	307	9	9·6	7·9	270	7	13·3	10·4	268	3	13·3	13·3	273	4	12.6	12·5	273
9·0 „					1	17·5	17·5	290	7	9·0	8·1	251	3	7·5	7·3	270	1	17·5	17·5	265	2	17·0	16·9	257

Height in km.	MADRAS												MALEGAON											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·1	1·1	281	31	1·9	1.3	281	31	3·3	2·2	48	31	1·5	1·3	286	31	1·1	1·1	283	31	1·7	1·3	9
0·15 a. ground	30	5·3	0·8	281	30	5·9	3·4	275	31	4·5	2·7	56	30	4·8	2·2	255	31	3·3	2·0	347	31	3·2	2·3	2
0·6 a. s. l.	29	4·9	1·1	8	30	5·6	0·8	320	30	4.4	2·7	24	30	4·8	2·2	355	31	3·3	2·0	347	31	3·2	2·3	22
1·0 „	29	5·0	2·9	22	30	5·7	1·9	22	36	5·0	2·7	5	30	5·3	3·3	31	31	4·8	2·8	42	31	3·5	2·2	22
1·5 „	28	5·5	1·9	19	29	5·9	3·9	14	28	5·7	3·9	353	30	4·4	3·3	46	31	4·2	3·0	54	31	3·3	1·9	6
2·0 „	27	5·2	2·9	357	29	5·0	3·8	9	25	6·3	4·5	346	30	4·0	2·1	26	30	3·6	1·7	56	31	3·2	1·8	356
2·5 „	19	5·9	3·2	322	24	5·5	3·3	342	23	5·7	3·8	344	27	5.2	1·1	328	31	3·9	0·8	330	29	4·0	2·0	307
3·0 „	13	1·2	1·7	341	20	4·9	1·7	321	22	5·1	2·6	315	24	4·9	2·4	248	29	5·2	2·5	274	27	5·1	2·4	283
4·0 „	1	1·0	1·0	35	14	5·0	1·2	828	18	4·1	0·6	316	13	6·6	3·9	266	25	5·0	2·8	311	21	4·7	1·8	294
5·0 „					13	4·5	1·2	85	13	4·6	0·5	45					24	5·9	4·1	316	20	5·7	3·7	306
6·0 „					13	4·5	1·2	83	11	3·0	0·7	129					22	6·1	4·0	306	20	8·2	6·5	313
7·5 „					5	5·2	1·9	78	4	5·5	1·4	315					18	7·0	4·3	290	16	9·5	7·1	298
9·0 „					3	9·7	9·4	98	2	5.5	Calm						10	7·7	6·0	276	12	12·1	8·0	271

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

October 1947

Height in km.	MANGALORE												MASULIPATAM											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·8	1·2	42	31	2·0	1·5	62	31	3·6	3·2	290	31	0·4	0·1	338	31	0·7	0·4	328	31	1·2	0·5	335
0·15 a. ground	30	3·5	2·8	358	30	3·2	2·5	29	30	5·5	5·3	295	31	5·2	1·5	33	30	5·6	3·0	347	31	4·2	1·5	16
0·6 a. s. l.	29	4·7	4·1	337	30	4·2	3·6	341	29	5·3	4·9	307	31	6·5	3·0	32	30	7·2	3·5	25	30	5·0	2·5	6
1·0 „	28	3·7	2·7	335	30	4·6	3·1	345	29	3·8	3·1	337	31	5·9	3·2	18	30	6·5	3·5	21	30	5·9	3·8	1
1·5 „	25	3·8	2·3	17	30	4·7	2·5	11	29	3·6	2·4	14	31	5·8	3·4	8	30	6·3	3·8	359	30	6·7	4·8	1
2·0 „	22	4·7	3·0	43	29	4·3	2·4	40	28	4·0	2·3	38	31	6·0	3·2	360	30	6·4	3·9	355	29	7·2	5·0	358
2·5 „	14	4·0	1·1	47	25	4·2	2·5	53	27	4·1	1·9	44	24	5·7	2·6	345	28	6·3	4·4	355	28	6·6	4·2	344
3·0 „	12	3·9	1·1	33	19	3·5	1·9	37	26	3·9	1·5	18	20	4·5	1·5	347	27	5·7	2·4	344	27	5·3	2·8	311
4·0 „	1	3·0	3·0	305	15	4·7	0·7	272	22	4·4	2·1	330	7	2·6	1·1	315	20	3·9	1·5	298	23	4·5	1·2	288
5·0 „					14	4·3	1·0	32	21	4·0	1·3	334					14	4·3	0·3	284	20	4·5	2·0	280
6·0 „					10	4·3	0·8	28	14	3·5	0·9	7					13	6·5	0·5	131	19	4·6	1·1	261
7·5 „					4	7·3	5·1	20	9	3·7	2·6	64					8	5·5	1·3	18	14	6·1	2·5	258
9·0 „					2	5·0	3·7	81	2	4·0	4·0	120					6	7·4	0·5	125	8	6·8	4·1	282

Height in km.	MINICOY								NAGERCOIL												NAGPUR			
									0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.									31	3·2	2·8	295	31	2·0	1·9	294	31	4·9	4·5	264	31	1·6	1·4	345
0·15 a. ground									30	7·7	7·1	302	31	5·3	5·0	304	30	9·1	8·5	271	31	5·5	3·4	20
0·6 a. s. l.									30	8·7	7·7	308	31	7·4	6·6	311	30	7·9	7·6	290	31	5·8	3·5	28
1·0 „									30	6·7	5·4	316	31	6·4	5·4	314	30	6·1	5·6	306	31	5·7	3·5	33
1·5 „									30	5·5	3.3	329	31	4·8	3·0	332	30	4·6	3·5	323	30	5·4	3·6	34
2·0 „									30	3·3	2·3	350	31	3·8	2·2	338	28	5·1	3·7	334	21	5·1	3·3	30
2·5 „									29	3·4	2·0	337	31	3·8	2·3	313	26	4·9	3·7	342	14	4·5	3·2	352
3·0 „									29	4·1	2·3	300	30	4·3	2·4	297	26	5·3	3·3	309	9	4·7	2·2	323
4·0 „									16	4·8	2·2	317	29	4·9	1·7	282	24	4·7	2·5	295				
5·0 „									9	3·9	1·1	7	23	3·3	0·5	81	22	3·0	1·0	350				
6·0 „									4	6·1	6·5	56	22	3·8	2·3	72	20	3·3	0·9	66				
7·5 „									1	5·0	5·0	125	19	5·4	4·9	78	20	4·7	3·3	82				
9·0 „													19	7·8	7·2	97	17	6·5	5·7	86				

Table A—Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

[illegible] 1947

Height in km.	NAGPUR								NEW DELHI								POONA			
	0700				1600				0100				0700				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	0·9	0·8	243	30	2·5	1·4	3	31	1·4	1·2	271	31	2·0	1·4	279	31	2·8	2·2	336	31	0·4	0·3	256
0·15 a. ground.	31	5·5	4·5	10	30	4·3	2·8	8	31	4·3	1·9	305	31	5·1	3·2	278	31	4·5	3·4	325	29	3·1	1·4	295
0·6 a. s. l.	31	6·7	4·4	20	30	4·6	3·2	6	31	4·4	3·0	325	31	5·1	3·4	304	31	5·0	4·0	325	29	2·1	1·4	250
1·0 „	31	6·8	4·5	38	30	4·3	3·0	358	30	5·0	4·3	315	31	5·2	4·1	309	31	5·0	4·5	313	29	5·2	2·3	1
1·5 „	31	5·7	4·0	33	30	4·6	3·3	355	29	6·1	5·3	309	31	6·3	5·3	311	31	5·8	5·1	308	27	7·0	5·2	53
2·0 „	29	5·3	3·4	24	30	4·7	3·4	351	19	7·5	6·5	306	30	7·4	6·5	317	31	7·0	6·2	305	26	5·7	4·0	75
2·5 „	28	6·1	3·5	360	28	4·9	3·6	343	7	8·1	7·6	309	28	7·9	6·3	322	31	7·1	6·2	307	24	4·1	2·2	93
3·0 „	26	6·6	4·2	350	28	5·1	3·6	332	3	10·3	8·1	282	24	7·9	6·5	329	30	7·1	6·1	308	20	3·8	1·0	158
4·0 „	22	6·2	4·0	295	26	6·6	4·5	287					13	6·7	3·3	329	28	8·8	6·7	306	11	5·8	2·4	285
5·0 „	15	6·4	4·8	383	19	6·9	5·7	286					7	8·4	6·7	294	25	9·4	8·5	302				
6·0 „	12	7·4	5·6	295	15	8·0	5·6	303					6	17·0	15·5	289	20	13·4	12·3	288				
7·5 „	6	8·7	7·2	280	7	13·8	12·9	288					3	11·3	10·5	292	11	15·8	15·2	284				
9·0 „	2	2·5	2·3	320									1	16·6	16·5	265	4	17·1	16·6	268				

Height in km	POONA								PORT BLAIR								RAIPUR							
	0700				1600				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·2	0·4	280	31	1·2	0·8	280	31	2·0	0·9	115	31	4·1	1·0	123	31	1·6	0·5	311	31	1·8	0·9	318
0·15 a. ground	30	2·3	0·9	251	30	3·3	1·0	316	29	5·5	0·8	96	28	5·6	0·9	177	31	4·8	1·7	8	31	5·1	2·8	360
0·6 a. s. l.	30	1·0	0·4	222	30	2·3	0·8	302	29	6·6	1·1	122	25	5·9	0·2	254	31	5·4	2·3	20	31	5·9	3·2	21
1·0 „	30	5·8	2·9	82	30	3·4	1·2	300	24	5·3	0·5	207	21	5·5	1·0	229	30	5·2	3·1	27	31	6·3	4·0	22
1·5 „	30	6·6	3·9	90	30	5·6	0·9	332	23	5·3	0·5	180	19	5·1	1·2	199	27	4·6	3·1	25	30	5·9	4·3	20
2·0 „	30	5·0	2·6	88	29	5·1	1·5	5[illegible]	23	4·6	0·6	177	16	3·9	0·4	194	26	4·9	3·6	1	23	6·3	5·1	8
2·5 „	30	3·7	0·9	8[illegible]	29	5·5	2·4	1[illegible]	21	4·3	0.3	185	12	3·9	1·0	62	17	6·4	5·0	347	21	6·6	4·2	357
3·0 „	28	4·3	0·5	302	22	3·4	1·7	69	20	4·2	0·2	97	12	4·1	1·3	62	11	6·5	4·9	342	18	7·6	3·0	349
4·0 „	25	5·8	1·8	324	19	4·3	1·0	11	18	3·5	0·6	348	7	3·8	2·6	40					11	7·2	3·9	245
5·0 „	23	6·1	3·1	7	17	4·2	1·4	25	12	4·0	1·2	46	5	4·0	3·4	69					11	8·5	6·8	262
6·0 „	23	6·5	3·4	360	15	5·8	2·6	333	10	3·3	0·9	99	..	..	..	..					6	7·5	6·5	260
7·5 „	15	7·0	3·5	309	13	8·3	4·0	320	7	4.6	2·9	105	1	1·0	1·0	205					5	11·8	9·8	262
9·0 „	11	8·5	5·0	266	8	8·3	6·2	262	5	6·1	5·4	106	1	4·0	4·0	150					5	11·4	11·0	251

Table A – Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

October 1947

Height in km.	RAIPUR				SAHARSA								TEZPUR											
	1600				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·8	1·5	45	31	0·3	0·2	61	31	1·1	0·8	230	21	1·1	0·7	65	31	1·1	0·7	65	31	0·9	0·6	89
0·15 a. ground	31	4·7	3·2	4	31	3·3	0·6	176	31	3·6	1·4	287	30	3·7	1·6	21	29	3·7	2·2	85	30	3·5	1·4	106
0·6 a. s. l.	31	4·6	3·2	6	30	3·4	0·6	277	31	3·4	1·6	335	30	3·9	1·3	230	29	4·2	1·1	118	29	3·2	1·4	172
1·0 „	31	5·0	3·7	353	28	4·9	1·3	297	29	4·2	2·3	285	27	4·8	1·9	230	27	4·6	0·3	96	29	4·0	2·0	199
1·5 „	28	4·6	3·9	359	27	5·—	3·1	323	27	4·7	2·6	308	22	5·0	2·9	247	22	5·6	0·3	153	29	5·0	2·6	220
2·0 „	23	4·6	3·9	359	26	5·2	2·3	327	27	4·1	2·9	292	17	5·5	1·9	241	19	5·7	1·0	165	29	6·0	3·6	224
2·5 „	18	5·3	3·7	358	25	4·5	2·3	330	27	4·1	2·3	294	13	4·7	0·5	194	14	5·7	1·0	127	29	6·2	3·7	236
3·0 „	15	5·6	3·6	331	24	4·6	2·3	332	27	4·3	2·3	304	9	5·5	0·2	253	13	5·6	0·6	151	28	7·0	4·1	253
4·0 „	9	7·1	4·8	290	12	6·5	3·2	281	25	6·4	5·1	281	2	6·3	0·7	262	10	5·4	1·2	263	23	7·7	5·9	257
5·0 „	4	7·3	6·5	273	5	10·8	10·0	270	18	9·5	8·7	274					7	5·8	4·3	250	21	10·0	9·2	254
6·0 „	2	9·0	9·0	247	3	11·3	11·2	239	11	12·0	11·4	269					6	7·7	3·5	278	19	13·7	13·3	256
7·5 „	2	11·5	10·4	252					2	14·5	14·3	284					4	15·1	15·0	270	15	18·5	18·1	257
9·0 „																	4	30·7	30·7	268	9	22·8	22·1	282

Height in km.	TRICHINOPOLY												TRIVANDRUM				UDAIPUR							
	0100				0700				1600				0700				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·2	326	31	1·1	0·9	281	31	1·1	0·5	065	31	1·8	1·8	353	31	0·2	0·1	275	31	0·2	0·2	296
0·15 a. ground	28	4·7	1·0	325	31	5·0	4·0	289	31	2·7	0·7	339	31	4·3	4·1	342	31	2·8	1·4	320	31	2·3	1·5	288
0·6 a. s. l.	28	6·3	1·2	356	31	5·9	3·7	312	31	3·1	1·0	347	31	6·2	5·9	325								
1·0 „	28	5·5	1·2	4	31	5·0	2·4	341	31	3·6	1·7	352	30	5·9	5·2	323	31	3·8	1·1	315	31	3·5	0·8	296
1·5 „	27	4·1	1·4	360	31	4·7	2·4	358	30	4·0	2·5	347	28	4·8	3·4	331	31	2·8	1·2	21	30	3·0	0·8	49
2·0 „	27	4·5	1·7	351	31	4·7	3·3	6	30	4·5	3·1	340	24	3·7	1·8	339	31	3·1	1·5	40	29	3·4	1·7	56
2·5 „	25	4·2	3·3	331	30	4·3	3·2	3	28	4·5	3·3	314	20	3·5	1·7	332	29	3·4	1·4	34	28	4·3	2·6	55
3·0 „	24	4·0	2·7	318	29	3·9	1·4	327	28	4·5	3·0	291	19	4·2	2·2	298	20	3·6	1·3	336	29	5·1	2·7	34
4·0 „	6	5·7	3·0	196	24	4·4	1·1	210	26	4·5	1·6	271	16	4·1	0·2	246	1	9·0	9·0	225	26	5·6	3·6	55
5·0 „	3	6·0	4·7	100	22	3·7	1·7	93	24	4·3	0·6	340	12	4·1	0·7	42					10	7·3	5·5	288
6·0 „	2	8·3	8·1	115	19	4·1	2·4	81	23	4·3	1·5	058	8	3·6	2·6	94					1	9·2	8·5	286
7·5 „					16	5·5	3·9	86	19	4·7	2·3	068	6	5·8	5·5	78								
9·0 „					16	7·0	5·5	75	15	6·8	1·4	117	6	7·7	7·6	87								

Table A— Monthly mean directions and velocities of upper winds

Winds upto 9 Km. above sea level.

October 1947

Height in km.	UDAIPUR				VENGURLA												VIZAGAPATAM							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	1·1	0·5	239	31	0·2	0·1	64	31	0·3	0·2	78	31	2·9	2·7	266	31	1·3	0·8	11	31	0·9	0·5	346
0·15 a. ground	29	3·0	1·3	264	31	3·8	2·9	353	31	3·0	1·7	44	31	5·3	4·9	282	30	5·2	2·6	12	31	4·7	4·2	318
0·6 a. s. l.					31	4·9	4·0	341	31	4·4	2·4	21	31	3·2	2·6	305	30	6·2	2·6	43	31	6·3	3·3	25
1·0 „	29	2·8	1·3	280	29	4·7	2·9	323	30	5·3	2·2	47	30	3·3	2·2	357	30	5·8	3·7	34	31	6·1	3·5	20
1·5 „	30	2·5	0·8	305	26	4·9	1·6	26	30	5·5	2·9	76	29	4·7	2·5	40	27	5·8	4·2	20	30	5·9	3·9	26
2·0 „	29	2·4	0·8	356	20	4·6	3·5	68	28	4·6	2·2	73	27	5·5	4·2	51	26	5·2	3·7	20	30	4·7	2·6	23
2·5 „	28	3·4	1·8	14	10	5·1	4·3	69	26	3·7	1·9	70	27	5·1	3·2	50	20	4·5	2·1	5	29	4·2	2·0	352
3·0 „	27	4·4	2·4	15	5	5·1	4·8	71	19	3·3	0·8	72	26	5·1	1·9	38	12	4·6	1·5	301	29	4·0	1·6	347
4·0 „	25	6·1	4·0	318					11	5·9	1·2	345	25	5·5	2·1	44	4	7·7	2·2	302	23	4·0	0·6	290
5·0 „	25	8·3	7·0	306					7	5·4	1·2	356	23	5·9	2·1	42					22	4·7	2·1	273
6·0 „	22	10·9	9·8	295					6	6·0	2·0	13	22	6·8	3·0	29					18	4·4	1·6	273
7·5 „	10	17·6	16·9	295					3	5·3	4·2	48	14	7·5	3·8	338					13	6·4	4·1	246
9·0 „	1	22·0	22·0	305					2	6·5	6·0	67	11	7·5	3·7	315					7	8·8	6·9	235

Height in km.	VIZAGAPATAM																							
	1600																							
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·4	0·9	99																				
0·15 a. ground	30	5·1	2·9	102																				
0·6 a. s. l.	30	5·0	2·7	35																				
1·0 „	30	5·2	3·2	15																				
1·5 „	29	5·4	4·0	4																				
2·0 „	28	5·1	3·6	355																				
2·5 „	27	4·9	3·1	339																				
3·0 „	27	4·3	2·2	335																				
4·0 „	25	4·3	1·9	273																				
5·0 „	23	5·1	2·8	249																				
6·0 „	20	5·0	2·8	256																				
7·5 „	18	6·5	3·5	270																				
9·0 „	13	9·2	4·3	242																				

Table B.—Monthly mean directions and velocities of upper winds

Winds above 9 Km. above sea level.

October 1947

Ht. in kms.	n	V	v	D
		ALLAHABAD		
10·0	1	25·0	25·0	240
		AMBALA		
10·0	1	39·0	39·0	260
		BALASORE		
10·0	2	8·0	6·9	151
11·0	2	8·3	6·7	145
12·0	2	11·3	9·9	140
13·0	2	12·0	10·6	130
		BANGALORE		
10·0	1	4·0	4·0	180
11·0	1	5·5	5·5	125
		BAREILLY		
10·0	2	15·3	15·3	291
11·0	1	7·0	7·0	275
12·0	1	9·5	9·5	265
		BOMBAY		
10·0	1	14·5	14·5	260
		CALCUTTA		
10·0	1	22·0	22·0	250
		COCHIN		
10·0	3	13·0	12·8	84
11·0	2	7·0	7·0	88
12·0	1	12·0	12·0	86
13·0	1	18·5	18·5	110
		COOCH BEHAR		
10·0	1	39·5	39·5	270
		CUTTACK		
10·0	4	13·7	13·6	254
11·0	3	19·7	19·6	250
12·0	3	18·2	18·1	250
13·0	1	17·5	17·5	255
		DEOLALI		
10·0	2	6·0	5·7	256
11·0	1	2·0	2·0	150

Ht. in kms.	n	V	v	D
		GOPALPUR		
10·0	7	12·3	8·2	229
11·0	5	10·9	6·2	223
12·0	3	10·3	4·6	179
13·0	2	6·7	6·7	127
14·0	2	6·7	6·7	140
15·0	2	12·7	12·7	138
16·0	2	15·7	15·7	158
17·0	1	7·0	7·0	155
18·0	1	8·5	8·5	135
		HYDERABAD		
10·0	1	11·5	11·5	280
		JHARSUGUDA		
10·0	2	11·5	10·1	233
		JUBBULPORE		
10·0	2	13·5	13·5	273
11·0	1	13·5	13·5	265
12·0	1	14·0	14·0	260
13·0	1	19·0	19·0	230
14·0	1	19·0	19·0	240
15·0	1	22·0	22·0	230
16·0	1	24·5	24·5	245
17·0	1	21·0	21·0	230
18·0	1	35·0	35·0	225
		MAGHO AGAR		
10·0	2	18·7	18·5	253
11·0	1	22·0	22·0	265
		MADRAS		
10·0	1	3·5	3·5	50
11·0	1	4·5	4·5	100
12·0	1	10·5	10·5	120
13·0	1	9·0	9·0	115
14·0	1	15·0	15·0	105

Ht. in kms.	n	V	v	D
		MALEGAON		
10·0	8	9·0	6·3	247
11·0	7	8·2	5·9	262
12·0	6	10·9	6·5	272
13·0	3	10·0	7·2	240
14·0	2	15·7	9·8	230
15·0	1	10·0	10·0	295
16·0	1	10·0	10·0	295
17·0	1	10·5	10·5	295
18·0	1	14·5	14·5	320
19·0	1	14·0	14·0	320
		MASULIPATAM		
10·0	5	7·0	3·4	226
11·0	2	6·7	6·7	181
12·0	1	8·0	8·0	165
13·0	1	4·0	4·0	160
14·0	1	8·0	8·0	50
15·0	1	12·0	12·0	85
16·0	1	8·5	8·5	120
		NAGERCOIL		
10·0	12	8·2	7·9	98
11·0	8	11·4	10·6	93
12·0	8	16·2	15·9	94
13·0	7	16·1	15·0	95
14·0	6	25·0	24·2	107
15·0	4	27·6	27·4	99
16·0	3	32·5	32·2	94
17·0	1	27·5	27·5	110
18·0	1	24·5	24·5	100
19·0	1	36·0	36·0	80
		NEW DELHI		
10·0	2	10·7	10·7	288
11·0	1	19·0	19·0	290
12·0	1	23·5	23·5	270
13·0	1	30·0	30·0	290
		POONA		
10·0	6	10·3	8·5	249
11·0	3	13·0	11·8	250
12·0	2	15·7	15·5	225

Ht. in kms.	n	V	v	D
		PORT BLAIR		
10·0	1	5·0	5·0	135
11·0	1	5·5	5·5	140
12·0	1	4·5	4·5	140
13·0	1	5·5	5·5	135
14·0	1	8·5	8·5	105
		TEZPUR		
10·0	4	27·9	27·4	268
11·0	1	29·5	29·5	285
		TRICHINOPOLY		
10·0	13	10·7	10·3	109
11·0	9	14·3	13·7	103
12·0	7	16·9	16·3	099
13·0	5	23·6	23·5	095
14·0	5	24·3	24·0	091
15·0	4	30·9	29·3	091
16·0	2	25·7	24·3	098
17·0	1	29·0	29·0	085
18·0	1	35·5	35·5	080
19·0	1	30·0	30·0	090
20·0	1	81·0	81·0	295
		TRIVANDRUM		
10·0	4	9·8	9·7	95
11·0	2	11·7	11·7	130
		UDAIPUR		
10·0	1	41·5	41·5	305
11·0	1	34·0	34·0	300
12·0	1	40·0	40·0	300
		VENGURLA		
10·0	8	6·1	0·9	238
11·0	3	3·7	2·7	190
12·0	3	3·7	2·7	178
13·0	1	5·0	5·0	90
		VIZAGAPATAM		
10·0	13	10·1	4·6	216
11·0	7	11·1	6·0	158
12·0	5	12·9	6·1	132
13·0	2	9·3	8·7	79
14·0	1	19·0	19·0	65

***DGO—896—27.12.52—GIPS

Registered No. B-[illegible]

LIBRARY
MAY 1 1953
WEATHER BUREAU

INDIA WEATHER REVIEW, 1947

Monthly Weather Report

NOVEMBER

Published by the Authority of the Government of India

Chief features :—(*i*) a depression in the Bay of Bengal ; (*ii*) general feebleness of the northeast monsoon except for a short period during the third week, resulting in large defect of rainfall in the Madras Presidency.

Weather was unsettled in the Andaman Sea on the 1st of November and a depression formed by that evening with centre near Lat. 13½°N Long. 95½°E. Moving northwestwards, it was centred near Lat. 16°N, Long. 92°E on the morning of the 3rd. The depression weakened thereafter, but moved westwards and concentrated again into a depression of very small extent off Vizagapatam on the 5th morning. Crossing coast, it travelled as a shallow ' low ' upto the Bombay Deccan before becoming unimportant. Associated with this, local showers with heavy amounts in some places, occurred along the circars south Orissa coast from 5th to 7th. Local showers also fell in south Hyderabad on the 8th and 9th and in the south Bombay Deccan on the 10th and 11th.

Upto the 18th of the month, the northeast monsoon was weak and weather was unusually dry in the south Peninsula. Thereafter there was a temporary strengthening of the monsoon for ten days, when local showers fell in southeast Madras, Mysore and Malabar.

Five western disturbances passed across the extreme north of the country during the month but only the fourth disturbance caused a few showers in north Baluchistan on the 22nd.

The total rainfall of the month was in slight excess in Chota Nagpur and in slight to moderate defect in Gujarat and south Hyderabad. Elsewhere it was in large defect, except in the United Provinces, the east Punjab, Rajputana, Berar and the Konkan where no rain fell. Averaged over the plains of India, the month's rainfall was 77% in defect.

The maximum temperature was above normal in west Bengal, Bihar, the east United Provinces, the east Punjab, west Rajputana and east Central India. The minimum temperature was above normal in the west United Provinces, the east Punjab, west Rajputana and Gujarat and below normal in Mysore and the Madras Deccan.

Relative humidity was above normal in the United Provinces, the east Punjab, Rajputana, Gujarat and Central India and below normal in the Madras Deccan.

Cloud amount was normal in the Bay Islands, the west United Provinces, the east Punjab, west Rajputana, Gujarat, west Central India, the Central Provinces and Hyderabad and in defect elsewhere.

Data for Kashmir are absent.

Table I contains the divisional and sub-divisional means of rainfall, temperature and 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.

N.B.—The Indian Standard Time used in this publication is 5 hrs. 30 minutes in advance of G.M.T.

POONA 5,
The 18th December, 1947.

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

331—332

	Rainfall				Departure from normal of				
							8 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.	%	
1. Assam ..	0·13	1·10	—0·97	—88	+1·4	—0·7	0	—4	—1·5
2. West Bengal	0·14	0·73	—0·59	—81	+2·1	—0·2	—0·4	+1	—1·1
3. Orissa ..	0·68	2·05	—1·37	—67	+1·5	—0·9	—0·7	+2	—0·9
4. Bihar ..	0·19	0·43	—0·24	—56	+2·4	—0·3	0	0	—0·9
5. United Provinces	0	0·22	—0·22	—100	+2·2	+1·4	+1·6	+9	—0·5
6. East Punjab	0	0·12	—0·12	—100	+2·2	+2·8	+2·9	+16	—0·2
7. Rajputana ..	0	0·16	—0·16	—100	+1·9	+2·3	+2·3	+8	—0·1
Sub-Division									
1. Bay Islands..	2·66	10·52	—7·86	—75	+1·1	+0·4	—1·5	—4	—0·6
2. Assam ..	0·13	1·10	—0·97	—88	+1·4	—0·7	0	—4	—1·5
3. West Bengal	0·14	0·73	—0·59	—81	+2·1	—0·2	—0·4	+1	—1·1
4. Orissa ..	0·68	2·05	—1·37	—67	+1·5	—0·9	—0·7	+2	—0·9
5. Chota Nagpur	0·65	0·56	+0·09	+16	+1·4	—0·1	0	—1	—1·1
6. Bihar ..	0·01	0·38	—0·37	—97	+3·1	—0·3	—0·1	+1	—0·8
7. United Provinces, East.	0	0·25	—0·25	—100	+2·5	+0·9	+0·9	+6	—0·8
8. Do. do. West.	0	0·19	—0·19	—100	+1·9	+2·0	+2·3	+12	—0·1
9. East Punjab	0	0·12	—0·12	—100	+2·2	+2·8	+2·9	+16	—0·2
10. Kashmir ..	Data incomplete.								
11. Rajputana, West.	0	0·04	—0·04	—100	+2·8	+3·5	+2·1	+6	+0·1
12. Do. East	0	0·28	—0·28	—100	+1·3	+1·5	+2·5	+9	—0·3
13. Gujarat ..	0·23	0·29	—0·06	—21	+0·5	+2·2	+2·1	+10	—0·2
14. Central India, West.	0·02	0·70	—0·68	—97	+1·4	+1·2	+0·9	+10	+0·1

	Rainfall				Departure from normal of				
							8 hr. 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. Bombay ..	0·27	0·88	—0·61	—61	+0·5	+1·0	+1·1	+5	—0·6
9. Central India	0·03	0·60	—0·57	—95	+2·2	+0·9	+0·6	+8	—0·5
10. Central Provinces and Berar.	0·11	0·67	—0·56	—84	+1·0	+0·7	—0·3	—1	—0·1
11. Hyderabad ..	0·41	1·05	—0·64	—61	—0·3	+0·7	+0·1	+3	—0·3
12. Mysore ..	0·83	2·73	—1·90	—70	—0·1	—2·0	—2·0	—4	—2·1
13. Madras ..	1·45	6·79	—5·34	—79	+1·0	—1·2	—1·6	—5	—1·5
Mean of India ..	0·34	1·48	—1·14	—77	+1·3	+0·6	+0·4	+3	—0·7
Sub-Division—contd.									
15. Central India, East.	0·03	0·47	—0·44	—94	+3·2	+0·4	+0·2	+6	—1·3
16. Berar ..	0	0·69	—0·69	—100	+0·9	+1·7	—0·8	—2	—0·5
17. Central Provinces, West.	0·01	0·66	—0·65	—98	+1·6	+0·7	—0·2	—2	0
18. Do. do. East.	0·29	0·69	—0·40	—58	+0·3	+0·4	—0·3	+1	0
19. Konkan ..	0	1·29	—1·29	—100	—1·3	—0·3	+1·0	+4	—0·6
20. Bombay Deccan.	0·42	1·29	—0·87	—67	+1·2	0	0	0	—1·0
21. Hyderabad, North.	0·11	0·97	—0·86	—89	—0·2	+1·6	0	+1	—0·3
22. Do. South	0·73	1·13	—0·40	—35	—0·3	0	+0·2	+4	—0·3
23. Mysore ..	0·83	2·73	—1·90	—70	—0·1	—2·0	—2·0	—4	—2·1
24. Malabar ..	0·37	5·49	—5·12	—93	+1·0	—0·9	—1·6	—5	—2·1
25. Madras, South-east.	1·66	9·33	—7·67	—82	+1·5	—0·8	—1·7	—5	—1·6
26. Do. Deccan	0·64	2·44	—1·80	—74	+0·1	—2·2	—2·1	—6	—1·5
27. Do. Coast, North.	2·53	6·23	—3·70	—59	+0·4	—1·4	—1·2	—1	—1·0

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.			Relative humidity %		
		Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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 ..	261	1004·1	+1·1	1001·5	85·0	+1·1	87	30	73·9	+0·14	70	24	81·8	78·8	75·7	74·3	27·6	—1·5	26·9	75	—4	8
Assam																						
Dibrugarh ..	348	1005·1	+0·6	1000·9	82·3	+2·7	87	4	58·7	—1·3	55	27,28	65·0	74·9	62·3	69·2	17·9	—1·8	21 9	84	—1	7
Sibsagar ..	317	1006·1	+0·6	1002·3	80·0	+1·9	84	4,6,12	59·4	—0·4	54	7	67·0	73·1	65·3	68·9	20·8	+0·1	22·3	92	0	8
Tezpur ..	258	1008·6	+0·8	1003·3	82·7	+1·8	86	6,10	60·4	—1·2	55	29	67·8	75·4	63·9	69·6	18·5	—1·4	22·0	80	—4	7
Gauhati ..	182	1010·7	+1·1	1006·1	81·4	+0·1	85	4,7	61·4	0	56	25,28	67·3	75·6	65·4	68·8	20·5	—0·2	20·9	91	+2	6
Dhubri ..	115	1012·5	+0·7	1009·0	77·9	—1·5	80	8 days	63·9	—0·1	60	20,21	68·3	74·7	65·5	68·1	20·1	—0·3	20·5	85	+3	6
Silchar ..	96	1012·9	+0·7	1008·9	86·0	+1·1	93	4	62·8	—0·7	57	24,25	68·0	77·1	65·2	71·5	19·9	—1·7	23·8	85	+2	6
West Bengal																						
Dum Dum ..	33	1014·7	..	1011·5	85·6	..	90	5,8	63·7	..	57	25	73·2	80·9	66·4	68·5	19·0	..	18·2	68	..	5
Calcutta ..	21	1015·1	+0·7	1011·8	87·3	+3·1	92	7,8	64·6	+0·9	59	21,25	69·1	78·2	66·4	68·9	20·8	+0·7	19·8	86	+7	6
Saugor Island ..	10	1015·0	+0·6	1012·2	83·7	+1·4	88	7	68·7	+1·3	62	28	75·3	78·5	69·4	69·4	21·8	—0·7	20·5	73	—5	6
Sandheads ..	28	1014·7	+1·3	1012·2	..	..	..	..	..	..	..	..	79·7	81·9	75·9	76·9	28·7	+5·8	29·1	84	+19	7
Midnapore ..	149	1010·8	+0·9	1007·4	85·9	+1·5	91	7,8	62·0	—1·3	56	25	70·4	80·7	64·1	68·3	17·8	—0·1	17·9	69	0	5
Burdwan ..	106	1012·7	+1·1	1009·0	85·6	+1·7	90	7	63·3	—0·6	58	21,22,25	70·7	80·1	65·3	70·4	18·8	+0·1	21·0	73	+1	5
Krishnagar ..	48	1014·1	+0·5	1011·0	87·4	+3·1	93	5	61·7	—0·6	53	21	69·6	81·7	65·5	69·5	19·6	—0·1	19·1	80	+8	5
Asansol ..	414	1001·7	+0·8	998·5	85·5	+1·6	91	6	60·5	+0·5	55	26	68·0	78·8	63·7	69·2	17·2	+0·4	20·1	78	+6	6
Berhampore ..	62	1013·8	+0·5	1010·3	86·9	+4·1	91	5,7,16	63·1	—0·6	57	21,22	71·6	79·7	66·0	69·4	19·3	—0·4	19·8	73	—5	5
Malda ..	103	1012·9	+1·0	1009·3	83·6	+1·3	87	6,7	61·6	+0·5	57	5 days	72·4	77·9	66·0	69·1	18·9	—0·5	20·2	70	—5	6
Jalpaiguri ..	271	1007·0	+0·7	1003·4	83·2	+1·2	89	5	59·3	—1·5	57	4 days	64·3	78·3	61·1	68·3	17·0	—1·9	19·1	83	0	5
Orissa																						
Balasore ..	65	1013·8	+0·9	1010·6	85·7	+1·4	89	8, 9	62·8	—0·4	57	21, 30	73·3	77·3	65·8	68·7	19·1	+0·1	20·1	65	—9	6
Chandbali ..	26	1015·2	+1·0	1012·3	86·3	+2·2	90	9,11, 19	63·4	—2·1	57	27, 30	69·7	79·1	65·9	69·3	19·9	—1·1	19·9	81	+1	4
Puri ..	20	1015·3	+1·2	1012·3	86·0	+1·4	88	7 days	69·2	0	64	30	73·0	80·7	67·6	69·5	20·6	—1·0	19·7	74	—1	5
Gopalpur ..	56	1013·9	+1·1	1010·9	84·9	+0·8	87	4 days	66·4	—0·9	60	29	71·8	79·3	67·4	71·1	20·9	—0·6	22·3	18	+3	6
Cuttack ..	87	1012·7	+0·4	1009·4	87·6	+2·6	91	10	65·7	—0·1	60	30	70·3	82·7	65·7	69·0	19·5	—0·6	18·1	76	—1	4
Angul ..	455	1000·4	+1·2	997·0	84·5	+0·7	87	5 days	61·8	—0·5	56	29, 30	68·9	80·1	63·2	66·7	17·5	—1·3	16·3	75	0	3
Sambalpur ..	486	999·4	+0·8	996·1	85·5	+1·6	89	9	59·8	—1·5	55	7 days	66·2	80·7	63·3	68·8	18·4	+0·4	18·5	85	+10	3
Chota Nagpur																						
Jamshedpur ..	423	1001·7	+1·2	998·1	84·7	—0·3	89	6, 7	59·8	+0·8	54	4 days	66·2	79·7	61·7	66·7	16·8	+0·5	16·5	77	+3	
Chaibasa ..	742	990·4	+0·9	986·9	84·9	+2·0	90	7	59·8	+0·1	53	29	66·3	79·8	61·4	67·6	16·3	—0·9	17·6	74	—3	
Ranchi ..	2,150	942·3	+0·7	939·8	79·5	+2·0	85	7	55·4	—1·8	51	28, 29	65·7	73·4	58·3	61·2	13·3	0	13·2	63	+2	
Hazaribagh ..	2,006	947·5	+1·2	945·0	78·6	+1·0	84	6, 7, 8	54·5	—2·7	49	28	67·2	71·3	58·7	59·7	13·2	0	12·4	60	0	
Daltonganj ..	725	991·8	+1·0	988·3	84·3	+1·9	88	7	54·9	+0·5	48	30	65·0	78·1	59·9	66·2	15·3	+0·4	16·5	72	—7	
Dhanbad ..	839	986·9	..	..	..	..	..	..	58·8	..	53	22	69·7	..	61·8	..	15·2	..	..	61	..	
Bihar																						
Purnea ..	124	1012·0	+0·5	1008·6	85·5	+3·1	91	5	57·3	—1·3	51	22	66·4	76·9	63·3	71·0	18·5	—0·1	23·2	84	0	
Darbhanga ..	161	1010·9	+0·8	1007·6	85·9	+3·0	91	5	57·8	—1·7	52	28	64·3	79·2	62·3	69·0	18·3	—0·2	19·7	89	+11	
Motihari ..	218	1008·9	+0·8	1005·3	..	..	..	..	56·3	+0·3	51	28, 29,30	69·3	76·2	65·2	68·1	19·4	+1·5	19·8	79	+1	
Patna ..	173	1010·3	+0·4	1007·1	85·1	+3·0	90	5	60·8	—0·2	55	28, 29	69·2	79·1	62·1	66·6	15·9	—0·9	16·2	65	—3	
Dehri ..	352	1004·1	..	1000·7	85·2	..	89	8, 10	59·6	..	55	22, 28,30	66·8	80·9	61·5	64·9	16·1	..	13·7	72	..	
Gaya ..	365	1003·6	+0·6	1000·4	85·2	+3·9	89	4 days	57·9	+0·9	52	28, 29	65·6	78·8	59·8	63·4	14·8	+0·7	12·9	69	+2	
Naya Dumka ..	48\	998·5	0	994·9	85·8	+3·4	91	5, 6, 7	59·9	+0·3	50	28	68·5	79·4	62·7	67·1	16·7	—0·4	17·0	69	—1	
Sahour ..	122	1011·9	+1·0	1008·6	84·4	+2·2	89	5	56·8	—0·1	51	22,23, 28	68·3	75·7	63·7	69·2	18·1	+0·5	21·3	76	—3	

b—mean of 29 days.

Cloud Amount (tenths of sky).		Rainfall, inches.				Number of rainy days, (0·1" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
										8 hrs. I.S.T.										17 hrs. I.S.T.									
Departure from normal.	Mean 17 hours 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	2	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
—0·6	6·6	2·66	—7·86	1·16	2	6	—7·6	7·2	—1·2	4	10	7	0	0	1	3	2	3	2	9	7	0	1	1	3	3	4	Port Blair.
																												Assam
—1·7	1·1	0·55	—0·77	0·55	23	1	—1·5	1·0	+0·4	0	9	13	1	0	0	0	2	5	0	0	1	0	1	0	1	0	27	Dibrugarh.
—0·6	2·4	0	—1·22	0	..	0	—2 3	1·0	—0·1	6	7	2	3	2	1	0	1	8	1	1	1	0	0	0	0	1	26	Sibsagar.
—1·9	0·7	0·10	—0·80	0·10	20	1	—0·8	1·2	—0·3	0	10	17	1	0	0	0	1	1	0	4	2	0	0	0	0	0	24	Tezpur.
+0·6	2·4	0	—0·55	0	..	0	—1·2	2·0	+0·9	7	7	6	4	3	0	0	1	2	1	6	5	1	0	0	0	0	17	Gauhati.
—0·5	1·8	0	—0·40	0	..	0	—0·7	3·7	—0·3	0	17	9	1	0	0	0	0	3	0	6	4	0	1	2	0	0	17	Dhubri.
—1·7	0·4	0	—1·75	0	..	0	—2·1	1·0	0	0	5	11	0	5	1	2	2	4	1	0	0	0	1	2	1	0	25	Silchar.
																												West Bengal
..	2·4	0	..	0	..	0	..	..	..	9	1	1	0	0	0	0	2	17	7	1	0	0	0	0	0	7	15	Dum Dum.
—1·2	2·1	0	—0·81	0	..	0	—1·1	1·1	—0·8	2	2	0	0	0	1	0	0	25	2	1	0	0	0	0	0	1	26	Calcutta.
—1·3	2·5	0	—1·28	0	..	0	—1·3	6·1	+0·6	15	6	1	0	0	0	1	4	3	11	1	0	0	3	4	1	8	2	Sangor Island.
—0·8	1·8	0	—2·75	0	..	0	—2·5	..	..	12	4	0	2	0	0	0	6	6	5	4	0	1	1	1	0	1	17	Sandheads.
—1·3	2·9	·0	—0·87	0	..	0	—1·1	1·8	+0·5	6	13	0	0	0	0	0	4	7	5	11	0	0	0	0	1	0	13	Midnapore.
—1·3	1·1	0	—0·86	0	..	0	—1·0	0·9	—0·3	5	2	0	0	0	0	0	6	17	1	0	0	0	0	0	0	1	28	Burdwan.
—1·5	1·6	0	—0·98	0	..	0	—1·2	0·6	—0·6	0	1	0	1	0	0	0	4	24	0	0	0	0	0	0	0	0	30	Krishnagar.
—1·6	1·7	0·20	—0·37	0·20	8	1	0	2·9	—0·2	4	0	0	1	0	0	7	13	5	2	0	0	0	0	0	3	5	20	Asansol.
—1·5	1·5	0	—0·65	0	..	0	—0·7	0·3	—0·7	6	3	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	30	Berhampore.
—0·1	1·0 (b)	0·96	+0·51	0·96	14	1	+0·3	2·3	—0·1	11	4	1	1	1	1	0	4	7	3	2	1	0	0	0	1	11	11	Malda.
0	1·5	0	—0·49	0	..	0	—0·8	1·8	+0·8	17	4	1	0	0	0	0	1	7	0	0	1	0	1	0	0	0	28	Jalpaiguri.
																												Orissa
—1·1	3·0	0	—1·50	0	..	0	—1·5	1·5	—0·1	14	4	0	0	0	0	0	8	4	0	0	0	0	0	0	0	0	30	Balasore.
—2·4	1·7	0	—1·65	0	..	0	—1·5	2·8	—0·4	8	0	0	0	0	0	6	14	2	2	9	10	7	1	0	0	0	1	Chandbali.
—1·0	2·9	1·07	—2·12	1·07	7	1	—1·4	5·8	+0·1	22	2	0	0	0	0	0	6	0	2	5	3	15	5	0	0	0	0	Puri.
+0·4	3·2	2·97	—0·96	2·39	6	3	+0·2	5·8	—0·4	18	1	0	0	0	0	0	11	0	7	1	18	4	0	0	0	0	0	Gopalpur.
—1·2	3·0	0	—1·62	0	..	0	—1·6	1·8	+0·6	1	1	0	0	0	0	7	5	16	2	3	2	1	0	0	0	0	22	Cuttack.
—1·0	3·3	0	—1·11	0	..	0	—1·4	3·6	+0·6	0	0	0	0	1	1	11	11	6	12	1	0	1	2	0	1	4	9	Angul.
+0·1	3·7	0·05	—0·76	0·05	7	0	—1·0	2·1	0	6	9	0	0	0	0	0	0	15	5	9	1	0	0	0	0	1	14	Sambalpur.
																												Chota Nagpur
—1·3	2·1	0·18	—0·19	0·17	8	1	+0·3	2·2	+0·6	1	1	1	0	0	3	15	6	3	6	1	2	1	0	0	5	4	11	Jamshedpur.
—0·8	2·7	0	—0·70	0	..	0	—1·0	1·0	—0·2	0	0	0	1	0	12	0	0	17	1	3	0	0	0	2	0	0	24	Chaibasa.
—1·4	1·9	2·40	+1·79	2·40	8	1	0	1·4	—1·3	3	0	0	0	0	0	0	5	22	6	0	1	1	0	0	0	2	20	Ranchi.
—0·9	1·5	0	—0·56	0	..	0	—0·9	4·0	—0·3	1	3	0	1	0	1	3	4	17	8	1	1	0	0	0	0	17	3	Hazaribagh.
—1·0	1·6	0	—0·55	0	..	0	—1·8	1·5	0	0	0	0	13	0	0	0	0	17	3	2	0	1	2	0	9	3	10	Daltonganj.
..	..	.0	..	0	..	0	..	3·9	..	2	2	1	0	0	3	8	5	9	..	..	..	..	..	..	..	..	..	Dhanbad.
																												Bihar
—0·8	0·4	0	—0·34	0	..	0	—0·5	1·9	0	1	4	1	1	3	2	2	2	14	0	1	0	0	0	0	0	0	29	Purnea.
—0·8	0·3	0	—0·27	0	..	0	—0·4	0·5	—0·4	0	3	4	0	0	0	5	0	18	0	0	0	0	0	0	1	0	29	Darbhanga.
—0·7	0·3	0	—0·24	0	..	0	—0·3	0·8	—0·8	1	0	3	1	0	0	0	0	25	0	0	0	0	0	0	1	0	29	Motihari.
—0·9	0·5	0	—0·34	0	..	0	—0·5	1·7	+0·2	0	0	0	0	5	8	1	0	16	3	0	0	0	0	0	2	4	21	Patna.
..	0·2	0	—0·46	0	..	0	—0·7	1·9	..	0	0	0	0	3	22	0	0	5	5	3	0	0	0	0	0	11	11	Dehri.
—1·3	0·8	0	—0·49	0	..	0	—0·7	3·3	+0·4	0	0	0	2	18	1	0	0	2	12	0	0	0	0	0	1	12	5	Gaya.
—0·6	1·5	0·15	—0·39	0 15	14	1	+0·2	1·7	+0·6	0	2	0	0	0	6	0	10	12	0	6	0	1	0	7	0	8	8	Naya Dumka.
—0·6	0·9	0	—0·38	0	..	0	—0·7	1·5	—1·0	3	0	0	2	1	9	6	3	6	8	0	0	0	0	0	0	2	20	Sahour.

STATION.	Height of 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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 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
U. P., East—																						
Gonda ..	360	1003·9	..	1001·1	84·9	+1·2	89	2, 7,8	55·4	+0·5	49	28	60·9	75·7	58·9	65·1	16·2	+1·4	16·3	89	+11	
Gorakhpur ..	254	1007·4	+0·7	1004·1	84·8	+2·5	89	5	59·1	+1·8	54	28	66·6	79·7	61·8	66·4	16·4	—0·2	15·7	75	—1	
Benares ..	250	1007·5	+0·4	1004·6	87·0	+4·0	91	3	55·6	—0·3	50	28, 29	61·5	81·9	58·4	65 8	15·4	+0·1	14·6	83	+4	
Allahabad (Bamrauli) Fatehpur ..	322	1005·1	+0·5	1002·2	86·6	+3·2	91	9, 10	57·0	+2·7	50	28	64·1	82·1	59·1	64·4	14·8	+0·5	12·8	73	+3	
Cawnpore ..	375	1003·4	..	1000·2	87·6	+2·7	92	6, 9,10	55·6	+0·9	50	27, 28	64·2	79·3	58·8	66·5	14·3	+2·8	16·0	71	+8	
Lucknow ..	413	1002·2	+1·0	999·4	86·0	+3·2	91	9	54·0	+0·1	49	21,28,29	60·7	80·8	56·9	64·7	12·8	—0·8	13·9	78	+8	
Bahraich ..	371	1003·4	+0·6	1000·7	85·7	+1·8	90	6, 9	55·6	+1·5	50	4 days	64·0	76·8	59·5	66·2	15·3	+1·2	17·5	76	+3	
U. P., Wes —	407	1002·0	+0·9	999·5	84·0	+1·0	88	5	56·0	—0·1	51	28, 29	64·3	78·3	61·9	69·4	17·5	+2·2	20·5	87	+11	
Jhansi ..	824	987·8	+0·2	985·3	87·1	+1·7	91	1, 10	56·1	+1·2	49	22, 30	61·1	83·2	56·3	68·5	14·1	+3·3	17·2	76	+22	
Agra ..	553	997·4	+0·9	994·4	86·3	+1·9	91	8, 9	55·9	+4·0	50	27, 28	59·9	83·7	55·8	63·9	13·5	+3·1	11·0	76	+19	
Mainpuri ..	516	997·9	+0·3	995·9	87·7	+3·1	93	8	54·3	+0·9	48	27, 28	59·7	81·5	56·1	65·8	13·7	+1·9	14·8	79	+15	
Aligarh ..	615	994·9	..	992·1	86·5	+2·8	92	8	55·7	+1·6	49	28, 29	61·3	82·4	56·1	63·6	13·1	+3·1	11·7	70	+17	
Bareilly ..	568	996·7	+1·0	993·3	83·9	+2·3	89	4, 5, 6	56·1	+2·6	50	28	64·8	77·7	60·7	64·1	16·0	+2·3	14·1	75	+2	
Roorkee ..	899	984·5	+0·3	982·1	80·0	+0·4	85	6 days	53·0	+3·3	46	26, 27	56·7	75·9	54·4	63·4	13·3	+1·5	14·4	85	+6	
Debra Dun ..	2,239	939·2	+0·5	937·6	76·7	+0·9	83	4, 5	51·4	+0·3	46	25	57·7	70·9	53·1	61·6	11·2	+1·1	14·9	73	+2	
East Punjab—																						
New Delhi ..	714	990·9	+0·2	988·6	84·7	+1·5	91	3	55·8	+4·0	49	21, 28	60·3	79·6	53·9	62·9	11·1	+3·2	12·1	64	+11	
Hissar ..	725	990·8	+0·3	988·3	86·3	+2·0	92	7	51·6	+1·8	41	28	56·1	80·5	52·2	65·0	11·4	+2·8	14·1	76	+19	
Ambala ..	892	984·8	+0·6	982·0	84·2	+2·0	96	14	52·9	+3·0	46	27	57·2	78·3	54·4	71·9	12·9	+2·5	22·8	83	+17	
Ludhiana ..	812	987·6	+0·4	985·8	84·6	+3·2	92	8	53·3	+2·3	47	26	56·2	79·7	53·7	64·3	12·9	+3·1	13·5	85	+18	
Kashmir—																						
Srinagar ..	5,205	847·1	+0·7	843·8	64·6	+2·1	72	2, 4	30·3	—0·6	26	5 days	34·4	58·2	32·4	47·3	5·5	—0·9	7·1	82	—5	
Gulmarg ..	8,709	Closed during the winter months.																				
Dras ..	10,059	708·6	+1·9	705·4	..	..	..	..	..	..	..	..	24·1	39·7	23·2	35·4	3·8	+0·6	5·9	90	+4	
Leh (R) ..	11,529	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Skardu (R) ..	7,505	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Gilgit (R) ..	4,890	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Misgar (R) ..	10,190	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rajputana, West—																						
Sri Ganganagar	580	996·0	..	993·3	88·7	+3·2	95	5, 6	53·1	+5·3	45	26, 27	60·6	83·4	54·1	65·1	11·3	+2·3	13·6	84	+6	
Bikaner ..	734	990·2	—0·4	987·4	89·1	..	95	6	55·1	..	46	27	59·6	87·1	53·8	67·7	11·3	..	7·2	85	..	
Phalodi ..	800	987·1	..	986·1	90·0	..	94	5, 6, 7	60·5	..	54	28	62·4	87·9	58·9	78·8	15·5	..	29·5	81	..	
Jodhpur ..	736	990·6	+2·0	987·9	90·1	+2·5	94	6, 7	59·6	+3·9	56	19, 30	63·4	87·3	53·2	63·9	9·5	+1·6	9·4	46	+10	
Barmer ..	638	993·5	+1·0	990·9	92·0	+2·6	97	6	62·1	+1·2	57	11,28,29	66·3	85·5	58·1	67·2	12·9	+2·5	13·2	54	+2	
Rajputana, East—																						
Sikar ..	1,406	967·4	..	965·1	87·8	..	92	6, 7, 8	53·5	..	47	27	56·6	83·4	50·6	62·5	9·8	..	9·5	83	..	
Jaipur ..	1,431	967·2	+0·5	964·7	86·6	+1·6	91	2, 7, 8	55·0	+1·3	49	28	61·9	82·7	54·2	67·6	10·9	+1·5	10·4	58	+9	
Ajmer ..	1,593	962·0	+0·9	958·0	83·5	—0·1	89	6	53·6	+0·9	47	27, 28	64·9	81·5	56·8	62·8	12·7	+2·9	12·1	61	+7	
Kotah ..	843	987·6	+1·0	984·4	88·9	+2·2	93	7	60·4	+1·3	55	28, 29	64·8	85·1	57·3	64·9	12·8	+2·1	12·1	61	+9	
Brijnagar ..	1,053	979·7	+0·9	976·6	87·4	+2·7	71	1	56·1	+2·3	50	29	61·0	84·8	56·2	64·0	13·1	+3·5	11·4	74	+12	
Udaipur ..	1,910	951·3	..	948·5	85·0	..	85	2, 3	54·0	..	50	15, 16	58·6	81·7	54·1	62·8	12·4	..	11·0	75	..	

R—Register not received.

Cloud Amount (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION
											8 hrs. I.S.T.									17 hrs. I.S.T.									
I.S.T.	Departure from normal.	Mean 17 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
																													U. P., East—
1	—1·0	0·8	0	—0·20	0	..	0	—0·5	1·4	+0·3	1	0	7	0	0	0	6	1	15	0	0	0	0	0	0	0	13	17	Gonda.
0	—0·2	0·4	0	—0·19	0	..	0	—0·3	1·0	+0·2	0	3	1	1	0	1	2	1	21	1	0	0	0	0	0	4	2	23	Gorakhpur.
3	—1·1	0·3	0	—0·27	0	..	0	—0·5	2·9	+1·1	0	0	0	1	5	17	0	1	6	3	0	0	0	0	0	6	19	2	Benares.
5	—0·9	1·2	0	—0·31	0	..	0	—0·5	1·3	—0·4	1	0	0	0	2	5	4	4	14	6	1	0	0	0	0	1	7	15	Allahabad (Bamrauli).
0	—1·2	0	0	—0·09	0	..	0	—0·4	1·5	0	0	0	0	0	1	2	5	4	18	0	0	0	0	0	0	1	1	28	Fatehpur.
0	—0·6	0·7	0	—0·35	0	..	0	—0·4	3·0	+0·5	0	0	0	1	3	5	4	1	16	8	2	0	0	0	0	3	13	4	Cawnpore.
0	—1·0	0·6	0	—0·22	0	..	0	—0·4	1·0	+0·1	0	0	0	0	0	0	3	1	26	0	0	0	0	0	0	2	0	28	Lucknow.
3	—0·4	1·0	0	—0·38	0	..	0	—0·5	1·4	+0·2	0	0	3	0	0	0	2	2	23	0	0	0	0	0	0	0	0	30	Bahraich.
																													U. P., West—
4	—0·5	0·8	0	—0·29	0	..	0	—0·5	0·9	—0·8	0	0	0	0	0	2	1	0	27	0	1	1	0	0	0	1	1	26	Jhansi.
4	—0·6	0·3	0	—0·14	0	..	0	—0·3	0·9	—1·1	0	0	0	0	1	1	0	0	28	2	0	0	0	0	0	0	6	22	Agra.
5	—0·5	0·6	0	—0·15	0	..	0	—0·3	1·3	+0·4	1	1	0	0	1	1	5	8	13	1	0	0	0	0	0	9	5	15	Mainpuri.
5	—0·2	1·3	0	—0·03	0	..	0	—0·1	2·1	—0·2	0	0	0	0	0	0	10	0	20	6	0	0	0	0	0	4	12	8	Aligarh.
6	+0·3	1·4	0	—0·18	0	..	0	—0·3	1·2	+0·4	3	1	6	3	1	1	1	0	14	4	2	0	0	0	0	6	1	17	Bareilly.
0	+0·1	1·0	0	—0·23	0	..	0	—0·5	1·0	0	0	2	1	10	0	2	0	5	10	0	0	0	1	0	1	0	19	9	Roorkee.
6	+0·8	1·4	0	—0·35	0	..	0	—0·7	1·9	+0·1	1	3	0	0	0	0	5	3	18	1	1	0	0	0	5	5	1	17	Dehra Dun.
																													East Punjab—
3	+0·3	1·9	0	—0 10	0	..	0	—0·3	..	..	0	0	0	1	1	2	16	3	7	9	6	1	0	0	0	0	10	4	New Delhi.
6	+0·2	0·6	0	—0·06	0	..	0	—0·2	2·4	+0·3	0	3	2	3	2	11	1	0	8	5	2	0	0	0	0	1	10	12	Hissar.
3	—0·9	0·5	0	—0·19	0	..	0	—0·4	..	..	0	4	0	7	0	2	0	17	0	0	2	0	2	0	0	0	26	0	Ambala.
9	—0·3	1·3	0	—0·13	0	..	0	—0·4	0·6	—0·2	0	1	1	1	1	1	1	0	24	0	1	0	0	0	0	1	1	27	Ludhiana.
																													Kashmir—
3	—0·4	2·6	0	—0·44	0	..	0	—1·1	1·5	—0·3	0	2	0	5	2	0	0	0	21	1	2	1	1	0	0	4	2	19	Srinagar.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Gulmarg.
8	+0·1	3·4	0·19	—0·30	0·10	7	1	—0·5	0·8	—1·1	0	0	0	0	0	0	0	0	30	0	0	0	1	4	1	5	0	19	Dras.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Leh (R).
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Skardu (R).
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Gilgit (R).
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Mirgar (R).
																													Rajputana, West—
6	—0·2	0·7	0	—0·01	0	..	0	0	2·0	+1·5	0	0	6	2	2	2	0	0	18	0	2	0	0	0	1	4	0	23	Sri Ganganagar.
7	+0·5	0·9	0	—0·05	0	..	0	—0·1	1·8	+0·7	0	2	0	2	0	5	0	1	20	0	4	0	2	0	6	0	7	11	Bikaner.
3	..	3·0	0	—0·02	0	..	0	—0·1	5·1	0	2	0	0	7	5	10	1	0	5	4	3	0	5	4	1	5	5	3	Phalodi.
9	—0·4	2·2	0	—0·11	0	..	0	—0·2	2·0	—2·5	1	11	2	0	0	0	0	0	16	1	3	2	2	0	1	0	1	20	Jodhpur.
8	+0·6	2·0	0	—0·03	0	..	0	—0·2	2·3	—1·3	2	0	0	1	0	0	1	9	17	2	1	0	4	1	3	1	0	18	Barmer.
																													Rajputana, East—
9	..	2·7	0	..	0	..	0	..	1·6	..	0	0	4	16	1	0	0	0	9	4	1	0	0	0	0	8	10	7	Sikar
9	0	2·3	0	—0·14	0	..	0	—0·3	2·0	—0·8	2	5	7	1	0	0	0	0	15	6	2	1	1	0	0	1	5	14	Jaipur.
4	—0·6	1·6	0	—0·19	0	..	0	—0·4	1·2	0	0	1	0	0	0	0	1	1	27	0	3	0	1	0	2	3	6	15	Ajmer.
8	—0·5	1·3	0	—0·23	0	..	0	—0·6	0·9	0	0	0	3	0	1	0	1	1	24	1	0	0	1	0	0	2	2	24	Kotah.
2	—0·1	1·6	0	—0·73	0	..	0	—1·1	0·5	—0·7	0	1	0	0	1	0	0	3	25	6	4	2	1	0	0	0	4	13	Brijnagar.
1	..	2·4	0	—0·11	0	..	0	—0·3	1·0	..	0	0	0	0	0	0	1	0	29	2	7	3	3	0	1	1	1	12	Udaipur

STATION.	Pressure at station level in millibars.				Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Millibars.			Relative humi %	
	Height of bar. cistern above mean sea level in feet.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 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
Gujarat—																					
Deesa (R) ..	466																				
Bhuj ..	343	1003·8	+0·9	1001·1	91·8	+2·0	95	7	64·3	+2·3	60	28	67·3	89·5	62·1	66·7	16·7	+2·8	12·0	73	+22
Dwarka ..	37	1013·8	+0·4	1011·5	84·8	—2·3	93	28	69·6	+0·9	66	20	71·8	81·4	68·7	72·4	22·8	+3·6	23·1	85	+15
Jamnagar ..	60	1010·0	—2·5	..	88·0	—1·0	91	4 days	66·8	+4·7	61	28	71·3	..	66·5	..	20·0	+3·7	..	76	+12
Rajkot ..	432	1000·5	+1·2	997·0	92·4	+1·3	94	6 days	64·4	+3·8	61	29	68·4	90·2	61·2	67·4	15·2	+3·0	12·8	65	+7
Veraval* ..	26																				
Surat ..	39	1013·1	+0·5	1010·3	94·8	+2·9	97	5 days	67·0	+2·1	63	6	72·5	90·1	65·7	73·8	18·6	+2·2	21·1	68	+7
Bhavnagar ..	55	1013·2	+0·7	1010·2	91·8	+1·1	94	1, 9, 11	63·6	+2·0	59	30	65·7	89·5	59·6	67·7	14·7	+1·8	13·3	66	+14
Ahmedabad ..	163	1010·1	+0·9	1007·1	89·9	—2·7	94	3, 5	67·5	+1·9	65	25,30	69·3	88·0	60·2	67·7	13·7	+1·8	14·0	56	+6
Dohad ..	1,093	977·9	..	975·0	90·5	+1·4	94	26	60·5	+2·2	55	16,30	64·1	86·9	56·5	65·8	12·2	—1·1	12·2	59	—8
Baroda ..	115	1011·5	..	1008·2	93·6	+2·1	96	10,11,25	58·5	+1·2	53	30	*64·7	87·6	60·7	72·2	16·3	+0·7	19·9	78	+11
Central India, West—																					
Neemuch ..	1,626	960·6	+0·7	958·3	85·8	+1·3	89	1, 2	56·9	+1·8	52	30	62·1	82·6	54·2	61·9	11·1	+0·8	10·5	59	+8
Indore ..	1,823	953·5	+0·7	950·7	84·7	+0·9	87	7 days	54·7	+0·1	49	30	61·1	82·3	56·4	62·1	13·7	+0·9	10·9	75	+15
Bhopal ..	1,643	960·1	+1·1	957·4	85·5	+1·9	88	8 days	56·3	+1·1	49	30	64·1	81·3	57·0	63·5	13·0	+1·1	12·8	64	+7
Guna ..	1,571	962·4	+1·1	960·1	85·3	+1·5	88	9, 13	52·9	+1·8	46	29	58·5	81·8	53·8	62·7	12·3	+0·8	11·8	72	+9
Gwalior ..	681	993·0	..	990·2	86·7	..	91	8	55·1	..	47	27	66·0	82·8	68·1	68·4	13·0	..	17·1	59	..
Madhosagar ..	757	989·9	..	987·3	87·9	..	93	9	60·5	..	52	20	65·4	83·3	57·8	63·6	12·9	..	11·2	61	..
Central India, East—																					
Nowgong ..	750	990·1	+0·3	987·6	86·3	+3·5	90	1, 9, 10	52·8	0	45	28	69·5	81·3	55·9	64·9	13·7	+0·7	13·7	79	+5
Sutna ..	1,041	980·0	+0·5	977·2	85·5	+3·6	89	9, 10	54·2	0	47	29	60·7	80·9	56·4	63·6	13·5	+0·8	12·2	74	+9
Umaria ..	1,506	964·2	..	961·8	83·9	+2·4	88	10	53·4	+1·2	45	29	61·2	79·4	55·0	63·6	12·2	—0·9	13·7	68	+3
Berar—																					
Akola ..	925	983·8	+0·8	979·8	89·1	+1·1	93	1	60·4	+2·0	53	16	65·7	86·6	57·5	65·5	12·5	—0·9	12·0	58	—2
Amraoti ..	1,213	974·3	+1·1	970·8	87·3	+0·7	90	5 days	63·9	+1·3	59	21,30	69·0	85·3	58·6	65·4	12·2	—0·7	12·4	51	—2
C. P., West—																					
Khandwa ..	1,044	979·5	+0·5	976·0	90·0	+2·2	93	12,27	55·5	—1·0	47	6	66·8	86·7	57·6	65·2	12·1	—0·5	11·8	57	—4
Hoshangabad ..	992	982·4	+0·8	978·8	85·2	+0·6	90	1	59·1	+0·7	52	30	64·6	82·4	57·8	65·1	13·3	—0·1	13·3	64	0
Saugor ..	1,808	954·4	+1·1	951·7	82·9	+0·8	86	1	60·3	+1·9	56	28,29,30	67·6	79·2	57·1	60·7	11·7	+1·2	10·6	51	+1
Jubbulpore ..	1,289	972·1	+1·3	968·7	85·5	+3·3	89	1	53·8	+1·5	48	29,30	62·2	79·7	56·8	62·9	13·3	—0·5	12·0	70	—5
Seoni ..	2,027	947·2	+1·3	944·4	82·6	+1·2	86	11	56·0 (c)	+0·7	49	30	64·4	78·4	56·0	61·3	11·9	—0·9	11·6	58	—2
Nagpur ..	1,022	980·8	+0·8	977·5	87·5	+2·0	90	8 days	62·2	+0·4	58	30	67·9	83·2	59·2	66·3	13·2	—0·6	13·2	57	—3
C. P., East—																					
Gondia ..	1,026	980·9	..	977·6	85·2	..	88	4 days	60·0	..	54	15	65·9	82·2	60·5	64·9	15·5	..	13·2	72	..
Pendra ..	2,040	946·6	+1·0	943·9	80·4	+2·8	84	7,8	56·1	+0·8	48	30	64·5	75·1	57·7	61·3	13·6	+0·4	13·0	66	+1
Champa ..	805	988·6	..	985·3	85·6	..	89	4 days	61·0	..	51	17	64·2	82·4	60·2	65·3	16·0	..	13·6	78	..
Raipur ..	970	982·8	+1·1	979·5	85·2	+1·5	88	6,9	61·8	+1·2	58	15,29,30	69·3	80·6	62·5	66·9	16·2	+0·3	16·4	66	+2
Titilagarh ..	691	992·0	..	988·7	84·0	..	88	8,11	61·3	..	56	4 days	65·5	80·5	62·6	67·0	17·9	..	16·5	84	..
Kanker ..	1,318	971·1	+1·7	967·4	81·7	—1·3	85	24	56·3	—0·7	52	20	63·4	79·5	59·9	71·8	16·0	—0·5	23·2	80	+1
Chanda ..	634	994·3	+1·3	990·7	85·2	—0·1	88	9	60·1	+1·1	54	15,19	67·3	81·5	62·1	68·0	16·7	—0·5	17·3	73	0
Jagdalpur ..	1,815	953·5	+1·3	950·4	79·8	—1·2	84	11,14	57·6	—0·3	50	15, 29, 30	62·8	75·3	60·5	64·2	17·1	—1·2	16·0	88	+3

* Data not available. b = mean of 29 days. s = mean of 28 days. R = Register not received.

Cloud Amount (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION
											hrs. I.S.T.										17 hrs. I.S.T.									
Mean 8 hours I.S.T.	Departure from normal.	Mean 17 hours 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
																													Gujarat—
																													Deesa. (R)
0·8	—0·3	1·2	0	—0·08	0	..	0	—0·2	2·6	—0·8	0	2	0	1	0	1	0	0	26	7	6	3	3	2	3	2	0	4	Bhuj.
1·9	+0·3	1·8	0	—0·08	0	..	0	—0·1	7·2	—0·1	16	5	1	0	0	0	0	3	5	0	3	0	0	0	0	3	24	0	Dwarka.
1·6	+0·5	..	0	—0·06	0	..	0	—0·2	3·8	—1·8	4	4	0	0	0	0	0	0	22	..	..	..	..	..	..	..	..	..	Jamnagar.
1·4	0	2·1	0	—0·23	0	..	0	—0·3	3·6	0	1	2	5	3	0	0	1	0	18	7	8	6	2	1	0	3	1	2	Rajkot.
																													Veraval.*
1·4	—0·3	1·7	0	—0·32	0	..	0	—0·5	2·9	—0·1	1	4	11	7	0	0	1	0	6	0	8	2	1	0	10	5	3	1	Surat.
1·3	—0·6	3·0	0	—0·26	0	..	0	—0·2	2·1	—0·9	0	0	0	1	1	8	3	1	16	1	6	7	1	1	0	0	0	14	Bhavnagar.
1·0	—0·2	1·5	2·10	+1·96	2·10	25	1	+0·6	1·9	—1·5	2	12	8	1	0	0	0	0	7	2	7	5	2	1	0	0	0	13	Ahmedabad.
1·2	—0·7	0·7	0	—0·65	0	..	0	—0·9	3·8	+1·2	0	3	4	5	4	3	1	0	10	5	6	2	2	2	6	5	1	1	Dohad.
0·7	—0·7	1·1	0	—0·80	0	..	0	—1·5	1·2	—0·3	1	3	1	2	1	0	0	0	22	5	4	4	2	0	0	1	3	11	Baroda.
																													Central India, West—
2·2	+1·0	2·8	0	—0·31	0	..	0	—0·4	3·1	—0·2	2	11	1	1	0	1	0	1	13	1	16	2	1	0	0	1	2	7	Neemuch.
1·3	—0·2	2·3	0	—0·61	0	..	0	—0·9	1·6	+0·1	0	0	0	4	1	1	0	0	24	1	14	3	5	1	0	0	0	6	Indore.
1·4	—0·3	1·9	0·09	—0·92	0·09	26	0	—1·2	1·6	—0·1	1	0	0	0	0	1	0	0	28	3	14	1	0	1	2	1	2	6	Bhopal.
0·9	+0·1	1·0	0	—0·87	0	..	0	—0·8	1·7	—0·4	0	0	0	4	0	1	0	0	25	6	3	0	0	0	1	2	9	9	Guna.
0·6	..	1·3	0	..	0	..	0	..	1·1	..	0	0	0	0	0	0	0	0	30	3	2	0	0	0	0	0	2	23	Gwalior.
0·6	..	1·3	0	..	0	..	0	..	2·9	..	1	0	0	0	0	21	1	0	7	10	5	0	0	0	1	3	3	8	Madhosagar.
																													Central India, East—
0·6	—0·9	1·2	0	—0·43	0	..	0	—0·7	1·4	+0·6	1	2	0	0	4	17	0	0	6	6	8	0	0	0	0	1	4	11	Nowgong.
0·5	—1·0	0·7	0	—0·35	0	..	0	—0·7	1·7	0	1	0	0	1	1	4	5	2	16	4	1	1	0	0	0	6	7	11	Sutna.
0·6	—1·9	1·2	0·10	—0·54	0·10	26	1	+0·3	1·8	+0·3	1	1	0	3	2	0	0	0	23	8	7	1	1	0	2	1	1	9	Umaria.
																													Berar—
1·4	—0·9	2·2	0	—0·73	0	..	0	—1·0	2·9	+0·3	0	2	6	3	0	1	0	0	18	5	12	2	1	1	0	0	0	9	Akola.
2·1	—0·2	2·6	0	—0·66	0	..	0	—1·0	5·1	+1·8	1	21	7	0	0	1	0	0	0	1	11	2	7	0	1	0	8	0	Amraoti.
																													C. P., West—
1·8	+0·1	2·5	0	—0·76	0	..	0	—1·0	2·9	+0·6	0	2	6	5	0	1	1	0	15	10	10	3	2	0	2	0	3	0	Khandwa.
1·8	+0·1	2·2	0	—0·67	0	..	0	—0·9	1·9	+0·3	0	11	11	1	0	0	1	0	6	5	8	4	0	0	1	1	0	11	Hoshangabad.
2·3	+0·7	3·0	0·03	—0·60	0·03	26	0	—0·9	5·4	—1·5	2	2	4	9	6	2	1	2	2	8	10	2	0	1	0	1	8	0	Saugor.
0·8	—0·8	1·3	0	—0·43	0	..	0	—0·9	2·1	+0·9	0	0	3	22	2	0	0	1	2	4	14	4	5	0	0	0	2	1	Jubbulpore.
2·5	+0·6	2·0	0	—0·68	0	..	0	—1·0	2·2	0	3	2	0	0	1	0	0	1	23	5	7	10	4	1	0	0	1	2	Seoni.
2·0	—0·5	2·0	0	—0·77	0	..	0	—1·1	2·7 (b)	—0·9	18	5	1	0	0	0	0	4	2	8	15	2	1	0	0	0	1	3	Nagpur.
																													C. P., East—
1·4	..	1·7	0	..	0	..	0	..	1·6	..	5	5	4	2	0	0	0	2	12	8	13	4	1	1	0	0	1	2	Gondia.
1·3	—1·2	2·2	0	—0·72	0	..	0	—1·3	2·3	+0·3	6	0	1	0	2	3	5	6	7	11	8	3	0	2	2	0	3	1	Pendra.
1·8	..	2·5	0	..	0	..	0	..	3·0	..	17	3	0	0	0	0	0	8	2	16	2	3	0	0	0	0	6	3	Champa.
2·2	+0·1	2·5	0·06	—0·47	0·06	7	0	—1·1	2·5	+0·5	0	15	0	0	0	0	0	1	14	0	29	0	0	0	0	0	0	1	Raipur.
1·9	..	2·1	0·02	..	0·02	6	0	..	0·9	..	0	1	0	1	2	0	1	1	24	7	7	2	1	1	0	0	1	11	Titilagarh.
4·6	+1·7	5·1	0	—0·38	0	..	0	—0·8	1·8	—0·1	0	2	0	0	0	0	0	0	28	0	4	0	6	0	0	1	1	18	Kanker.
2·7	+0·1	2·6	0	—0·66	0	..	0	—1·3	1·9	+0·5	0	4	0	3	0	2	0	5	16	0	4	0	2	0	0	0	1	23	Chanda
2·6	—0·9	3·1	1·38	+0·24	0·72	9	2	+0·1	1·1	—0·5	0	4	0	0	0	0	0	4	22	0	13	0	0	0	1	0	7	9	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 8 hours I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
Konkan—																						
Dahanu ..	15	1013·8	..	1011·2	88·6	..	98	25	68·5	..	65	4 days	71·5	83·5	68·0	77·5	21·8	..	29·5	83	..	76
Bombay ..	35	1013·1	+1·2	1010·0	88·6	—0·8	93	5	72·9	+0·4	69	2	76·3	83·3	72·0	75·1	24·9	+1·9	26·0	80	+4	67
Alibag ..	23	1014·0	+1·9	..	86·9	—1·5	94	5	69·8	+0·1	66	7,17	73·6	..	69·7	..	23·0	+1·9	..	81	+11	..
Harnai ..	66	1011·4	..	1008·7	86·5	..	94	4	74·8	..	71	6, 7	77·8	81·3	68·6	74·2	19·8	..	25·7	61	..	70
Devgad ..	117	1009·3	..	1006·7	88·3	..	93	1, 4	75·6	..	72	17	76·1	83·5	72·0	78·5	25·0	..	31·0	79	..	78
Marmagao ..	202	1007·2	+1·8	1003·6	86·6	—1·6	93	25,26	71·9	—1·4	69	4 days	76·6	83·2	69·5	73·7	21·8	—0·7	24·5	69	—3	64
Honavar ..	85	1011·6	..	1008·3	90·2	..	95	23,25,26	69·4	..	65	5, 6, 18	76·1	85·4	68·6	74·7	20·5	..	24·5	68	..	60
Bambay, Deccan—																						
Jalgaon ..	660	991·4	..	988·4	90·8	..	93	6 days	59·4	..	49	6	65·9	88·5	58·7	68·7	13·6	..	15·0	62	..	33
Malegaon ..	1,432	966·4	+0·9	961·8 (b)	88·4	+0·7	92	11, 12	58·6	+0·9	53	16	66·0	85·5	58·9 (b)	64·4 (b)	13·8	+0·5	11·7 (b)	62	+1	26 (b)
Ahmednagar ..	2,154	941·6	+0·3	938·6	85·5	+0·4	91	10	58·5	+0·3	52	18, 21	66·1	81·3	57·8	63·8	13·0	—0·9	13·1	60	—2	36
Poona ..	1,834	952·7	+1·0	949·0	89·0	+2·5	92	11	59·2	+0·7	52	17	64·1	85·3	60·2	65·8	16·3	+1·3	13·7	79	+3	33
Sholapur ..	1,570	961·8	+1·5	958·3	88·5	+1·0	92	1, 8	63·1	+0·3	57	29	69·2	85·1	61·5	65·6	15·5	+0·8	13·6	62	+2	33
Miraj ..	1,817	952·8	+1·0	948·8	87·9	+2·7	93	10	61·7	—0·9	53	6	67·4	85·0	61·5	67·4	16·2	0	15·8	71	+6	39
Bijapur ..	1,950	950·0	+2·6	945·8	85·7	0	92	9	65·4	+2·7	56	20	70·5	83·9	62·7	65·2	16·2	0	13·6	63	—2	38
Belgaum ..	2,562	928·4	+1·6	924·7	83·0	+0·3	86	10	58·7	—2·8	53	5	65·2	79·4	60·4	62·7	16·0	+0·2	12·7	76	+7	38
Gadag ..	2,131	942·7	+1·8	939·2	86·7	+1·8	99	24	63·8	—1·0	58	5	72·4	82·6	62·2	65·6	15·0	—2·1	14·6	56	—12	38
Hyderabad, North—																						
Aurangabad ..	1,905	951·1	+0·9	947·6	87·3	+1·2	90	11,12,14	62·4	+2·1	58	17, 19	70·5	83·7	60·1	64·9	14·1	+0·7	13·3	56	+1	34
Parbhani ..	1,350	967·8	..	964·4	88·2	..	91	1,2,9	59·5	..	53	20	68·4	84·2	60·3	65·1	14·3	..	12·6	59	..	31
Bidar ..	2,178	941·0	..	937·6	81·3	—1·8	86	8	64·6	+0·9	61	16	70·5	79·8	62·2	63·6	15·7	—0·9	13·6	62	—4	39
Nizamabad ..	1,250	972·0	+0·9	968·7	85·7	+0·1	88	7 days	62·2	+1·8	56	16, 20	66·9	82·9	62·6	65·7	17·4	+0·1	13·9	71	+6	36
Peddapalli (R)	755																					
Hyderabad, South—																						
Gulbarga ..	1,503	963·5	+0·9	959·7	85·9	—1·4	89	2, 8, 10	62·7	—0·5	56	16	70·5	84·8	62·6	66·6	10·1	—0·2	14·9	65	+1	37
Raichur ..	1,311	969·7	+1·0	966·2	86·6	0	92	8	67·6	0	62	17, 20	72·1	84·4	64·4	65·9	17·2	—1·5	13·4	64	—4	34
Hyderabad (Begumpet)	1,778	954·5	+1·3	951·5	84·9	—0·2	89	11	60·9	—0·7	55	29	66·8	79·5	63·6	66·2	18·8	+1·1	17·3	83	+11	50
Hanamkonda ..	881	985·0	+0·9	981·8	85·5	+0·2	90	1	65·2	+1·1	60	16	70·1	81·6	65·9	67·3	19·0	+1·4	16·1	79	+7	45
Khammameth ..	367	1002·7	..	999·3	86·1	..	90	1	65·2	..	60	4 days	71·2	82·9	67·8	70·8	21·7	..	20·3	83	..	54
Mysore—																						
Chitaldrug ..	2,405	933·1	+1·8	929·4	83·7	+0·5	89	10, 11	62·8	—2·1	57	30	70·0	81·1	63·2	69·8	17·0	—1·7	17·8	68	—5	50
Hassan ..	3,149	908·9	..	905·9	80·3	—0·5	85	9	59·2	—2·2	55	6 days	66·0	77·1	61·1	63·6	16·4	—2·4	14·4	75	— 4	45
Bangalore ..	3,021	913·0	+1·4	910·1	80·3	+1·0	85	9, 10,11	61·0	—0·7	56	16	66·1	76·6	61·5	62·5	16·8	—1·8	13·6	77	—4	44
Mysore ..	2,518	929·2	+1·4	906·1	81·0	—1·3	85	9,11	62·4	—2·0	57	5	69·4	80·5	63·4	61·5	18·3	—1·7	14·3	80	0	40
Malabar—																						
Mangalore ..	72	1011·2	+1·6	1008·0	88·0	+0·2	93	25,28	72·2	—1·4	68	30	76·0	83·8	70·5	74·8	23·0	—2·2	25·4	75	—3	65
Calicut ..	27	1012·3	+1·1	1009·8	89·5	+2·2	92	21	72·9	—1·0	68	3	77·1	86·9	72·8	76·7	25·6	—1·4	26·7	80	—5	61
Palghat ..	319	1002·7	..	998·7	90·5	..	94	19	71·9	..	68	5 days	79·0	86·7	72·1	75·5	24·6	..	25·1	78	..	59
Cochin ..	10	1013·1	+1·5	1009·6	86·4	+0·7	91	26	75·0	—0·3	72	4 days	79·8	84·4	73·8	76·1	25·8	—1·3	27·0	74	—8	67
Alleppey ..	12	1012·8	..	1009·2	88·4	..	93	28	74·9	..	71	27	81·7	84·6	76·1	76·7	28·2	..	27·9	76	..	68
Trivandrum ..	211	1006·7	+1·3	1002·8	87·3	..	91	25,29	73·7	..	71	1	76·8	83·9	72·8	75·4	25·7	—1·6	26·2	82	—6	66
Nagercoil ..	195	1006·3	..	1003·3	89·6	..	92	14,19,30	74·4	..	71	1, 2, 3	79·6	83·3	72·5	74·3	24·1	..	25·3	70	..	56

— = Register not received. (b)—Mean of 29 days.

Cloud Amount (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION.
											8 hrs. I.S.T.									17 hrs. I.S.T.								
Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 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
																													Konkan—
2·6	..	1·2	0	..	0	..	0	..	6·5	..	1	0	17	12	0	0	0	0	0	12	0	0	0	0	0	6	12	0	Dabanu.
2·2	0	1·1	0	—0·53	0	..	0	—0·8	5·6	—0·7	4	8	9	0	0	1	2	4	2	2	0	1	1	3	3	7	13	0	Bombay.
1·7	—1·2	..	0	—1·55	0	..	0	—1·4	2·8	—1·7	0	5	11	2	0	0	0	0	12	..	..	..	..	..	..	..	..	..	Alibag.
1·8	..	0·4	0	..	0	..	0	..	6·8	..	4	8	9	2	0	1	2	4	0	0	0	0	0	1	1	15	13	0	Harnai.
2·8	..	3·7	0	..	0	..	0	..	6·3	..	0	10	17	3	0	0	0	0	0	0	0	1	0	0	1	11	17	0	Devgad.
2·7	—0·7	3·4	0	—1·20	0	..	0	—2·4	5·7	+0·7	0	3	21	6	0	0	0	0	0	0	1	1	0	1	6	15	6	0	Marmagao.
2·9	..	3·1	0	—1·88	0	..	0	—2·8	3·1	..	0	6	21	2	0	0	0	0	1	0	1	2	0	0	1	13	12	1	Honavar.
																													Bombay, Deccan—
2·2	..	2·5	0	—0·78	0	..	0	—0·4	3·1	..	0	2	14	10	2	0	0	0	2	3	9	11	4	2	0	0	0	1	Jalgaon.
1·0	—1·4	2·6	0·90	—0·03	0·90	23	1	—0·2	3·1	—0·1	2	0	0	0	0	4	0	1	23	2	14	9	2	0	1	1	0	1	Malegaon.
0·8	—1·5	(b) 1·4	0·04	—1·07	0·04	10	0	—1·4	4·1	0	0	2	0	4	0	6	0	15	3	0	17	3	3	3	1	0	1	1	Ahmednagar.
2·2	—0·2	3·4	0·26	—0·82	0·21	12	1	—0·6	1·8	—1·9	0	0	0	0	0	2	1	0	27	1	2	12	2	0	2	2	2	7	Poona.
3·3	+0·5	4·0	0·14	—1·19	0·08	9	0	—1·7	6·7	+0·6	2	5	7	8	0	2	0	1	5	1	11	10	3	1	0	0	0	4	Sholapur.
2·4	—1·1	4·6	0·06	—1·76	0·04	23	0	—2·5	5·3	+0·3	0	6	9	1	0	2	0	0	12	3	9	12	3	0	1	0	1	1	Miraj.
2·1	—1·3	3·0	0·35	—0·92	0·30	11	1	—0·8	2·9	+0·5	1	2	6	9	4	0	2	0	6	1	12	9	3	0	0	1	1	3	Bijapur.
1·1	—2·4	2·9	0·30	—1·25	0·25	11	1	—1·4	3·6	+0·4	7	7	16	0	0	0	0	0	0	2	6	16	1	5	0	0	0	0	Belgaum.
2·9	—0·6	4·5	1·75	—0·03	1·09	11	2	—1·0	4·6	+0·3	0	10	12	0	1	0	0	0	7	0	12	12	0	3	1	1	1	0	Gadag.
																													Hyderabad, North—
1·2	—0·6	1·9	0·22	—0·73	0·12	24	2	+0·7	4·7	+0·1	0	8	19	0	0	0	0	1	2	2	11	13	0	1	0	0	0	3	Aurangabad.
2·9	..	3·6	0·09	—1·27	0·09	10	0	—1·8	..	..	2	6	16	0	0	1	0	2	3	0	15	12	1	0	0	0	0	2	Parbhani.
3·3	+0·2	3·9	0·06	—0·80	0·06	13	0	—1·7	5·8	+0·3	1	7	8	8	3	1	0	2	0	1	20	8	0	0	1	0	0	0	Bidar.
2·1	—0·6	2·5	0·05	— 0·64	0·05	8	0	—1·1	2·3	+0·1	1	2	0	0	0	0	0	0	27	12	15	1	0	0	0	0	0	2	Nizamabad.
																													Peddapalli (R).
																													Hyderabad, South—
1·8	—0·8	2·9	0·61	—0·49	0·48	13	1	—0·7	6·2	+0·3	2	18	9	0	0	1	0	0	0	2	11	12	3	1	0	1	0	0	Gulbarga.
3·6	+0·6	3·9	0·17	—0·99	0·17	13	1	—0·8	5·9	+0·5	1	6	11	9	1	1	0	1	0	0	9	8	10	0	2	1	0	0	Raichur.
3·5	—0·2	3·6	0·01	—1·13	0·01	8	0	—2·1	4·1	+0·3	1	1	2	3	0	0	0	0	23	1	15	9	4	0	0	0	0	1	Hyderabad (Begumpet).
3·0	—0·9	3·0	2·11	+1·01	1·40	10	3	+0·1	2·9	0	6	3	1	2	4	1	1	2	10	7	16	4	1	1	0	0	1	0	Hanamkonda.
2·8	..	2·9	3·61	..	2·20	8	2	..	2·6	..	15	2	7	0	0	0	0	0	6	12	10	7	1	0	0	0	0	0	Khammameth.
																													Mysore—
2·3	—2·6	3·7	0·10	—2·27	0·07	13	0	—2·4	4·2	+0·5	0	0	12	9	0	1	3	0	5	2	8	10	0	1	0	2	1	6	Chitaldrug.
1·9	—3·1	4·0	0·33	—2·70	0·17	11	2	—2·6	2·7	—0·1	1	0	1	6	0	0	3	1	5	1	4	15	3	1	1	1	3	1	Hassan.
4·3	—1·4	3·7	0·88	—1·79	0·88	22	1	—3·5	5·5	+1·1	0	5	16	4	1	0	2	0	2	3	18	8	3	0	0	1	2	1	Bangalore.
4·5	—1·2	5·0	1·72	—1·02	0·81	11	3	—1·2	6·3	+1·3	0	13	6	0	0	0	0	2	9	6	11	0	0	0	0	3	0	0	Mysore.
																													Malabar—
1·9	—2·3	2·6	0	—2·85	0	..	0	—4·4	5·0	+1·0	0	4	26	0	0	0	0	0	0	2	1	0	0	0	0	7	20	0	Mangalore.
4·2	—1·0	4·5	0·05	—5·41	0·03	15	0	—6·2	6·1	+2·3	0	12	16	1	1	0	0	0	0	0	0	0	0	0	5	16	9	0	Calicut.
2·2	..	3·1	0·30	..	0·16	12	1	..	4·9	..	0	1	15	8	0	1	2	0	3	0	2	11	1	6	1	9	5	1	Palghat.
3·8	—1·2	4·4	0·02	—6·67	0·02	10	0	—8·4	4·9	+1·6	0	5	22	2	0	0	1	0	0	0	0	0	0	0	3	21	5	1	Cochin.
4·2	..	4·4	1·29	..	0·40	16	4	..	4·8	..	0	7	11	5	1	0	0	0	6	0	0	0	0	0	1	19	10	0	Alleppey.
2·3	—3·9	3·8	1·39	—5·59	0·61	14	3	—6·5	3·9	+1·3	7	13	8	1	0	0	0	0	1	1	0	0	1	0	13	13	2	0	Trivandrum.
5·3	..	6·8	2·33	..	1·06	12	4	..	6·6	..	3	16	3	0	0	0	1	3	4	1	8	1	2	1	11	6	0	0	Nagercoil.

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 humid %	
		Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 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
Madras, South East—																					
Pamban ..	37	1012·5	+2·1	1009·6	85·7	+0·5	87	4 days	75·9	—0·3	74	28	80·8	80·2	77·6	77·4	30·9	+1·9	30·8	86	0
Madura ..	437	998·9	+1·7	995·1	89·0	+2·3	93	8	72·4	—0·6	69	2,3,17	77·8	85·9	71·4	73·1	23·3	—2·2	22·0	72	—11
Negapatam ..	31	1012·8	+1·9	1009·8	85·1	+0·8	92	8	74·6	+0·2	71	16, 17,20	78·0	82·2	73·2	74·4	25·8	—1·6	25·6	79	—6
Trichinopoly ..	255	1005·6	+1·9	1001·9	89·1	+2·1	94	8	72·4	0	69	5 days	77·1	85·9	71·5	73·1	23·9	—1·5	22·0	75	—6
Coimbatore ..	1,341	968·1	+1·3	964·2	87·6	+2·2	92	11, 12	68·1	—0·9	64	7	72·5	84·5	67·1	69·6	20·2	—3·3	18·0	74	—11
Salem ..	913	982·8	+1·6	978·8	88·2	+1·2	92	13	67·9	—1·3	63	2, 3, 6	70·8	84·4	67·1	71·5	21·0	—2·6	20·5	81	0
Cuddalore ..	39	1013·0	+1·9	1009·8	85·7	+1·3	92	7	71·5	—1·2	67	3, 16, 29	74·7	82·1	71·6	73·8	25·1	—1·9	24·7	85	—2
Vellore ..	703	990·3	+2·0	986·5	86·9	+2·6	92	7, 8, 9	66·7	—2·4	61	5	72·1	83·6	68·0	71·6	21·6	—2·8	21·0	79	—8
Madras ..	51	1012·7	+1·6	1009·6	86·2	+0·8	93	8	71·1	—0·8	67	16, 29	76·3	81·6	72·1	72·4	25·0	—1·7	23·0	81	—5
Arogyavaram ..	2,299	937·0	..	933·8	81·2	..	88	8	61·8	..	56	17	69·8	77·6	63·5	64·1	17·5	..	14·9	71	..
Madras, Deccan—																					
Cuddapah ..	428	1000·8	+2·2	996·3	88·3	+0·6	93	8, 10	66·0	—3·9	59	29	77·3	83·4	68·2	71·8	19·4	—4·3	21·4	63	—16
Bellary ..	1,473	964·5	+1·5	960·5	86·8	—0·2	92	10	65·5	—0·7	60	5, 16,30	71·9	84·6	64·2	66·1	17·0	—1·6	13·6	64	—7
Kurnool ..	923	983·4	+1·6	979·5	88·1	+0·2	93	9	66·0	+0·1	58	16	70·5	85·4	65·5	68·1	19·2	—0·5	15·6	75	+1
Rentichintala ..	348	1003·2	..	999·5	87·0	—0·1	91	7	65·8	—1·9	59	30	71·7	85·2	67·3	72·9	20·9	—0·3	22·1	79	+4
Anantapur ..	1,148	975·0	..	971·2	86·5	..	92	9	65·3	..	59	5, 16	72·1	84·0	65·4	67·9	18·4	..	16·1	68	..
Madras Coast, North—																					
Nellore ..	66	1012·2	+1·4	1009·2	87·4	+2·1	95	7, 8	70·7	—1·2	66	16, 29	74·5	82·9	70·9	72·6	24·3	—2·1	22·7	83	—3
Ongole ..	38	1013·6	..	1010·2	88·0	..	93	5 days	70·7	..	65	15, 16	75·1	82·8	70·4	73·9	23·3	..	24·5	78	..
Masulipatam ..	10	1014·8	+1·4	1011·6	84·9	+0·1	89	1	71·4	+0·2	67	15,28,30	75·6	81·8	71·2	72·1	24·1	—0·6	22·5	80	—1
Cocanada ..	26	1014·8	+1·9	1011·5	82·8	—0·3	88	1,6	69·8	—1·8	65	29	77·7	80·5	70·8	71·9	22·6	—0·6	22·9	70	—6
Vizagapatam ..	126	1010·9	+1·2	1008·0	83·9	—0·1	90	1	70·4	—2·0	66	15, 29	75·9	79·9	69·1	70·7	21·2	—0·2	21·5	70	+4
Calingapatam ..	19	1014·6	+1·1	1011·7	83·5	0	87	11, 14	67·3	—2·0	62	15, 30	70·6	80·5	66·9	70·7	20·9	—2·4	21·3	81	—1
Hill Stations Excluding Kashmir—																					
Shillong ..	4,921	853·8	+0·8	851·4	67·0	+1·0	74	5	44·2	—2·0	38	23	60·6	59·7	52·1	55·7	9·9	—2·2	13·6	53	—18
Cherrapunji ..	4,309	872·8	+1·0	870·3	68·8	+1·3	77	6	53·0	—1·0	46	23	63·7	60·6	54·5	56·3	11·0	—1·9	13·7	54	—10
Aijal	3,599	894·5	..	891·5	74·3	..	80	4, 5, 6	57·2	..	52	23,24,25	64·3	66·7	59·2	61·8	15·0	..	16·9	73	..
Darjiling ..	7,432	778·9	0	777·1	59·3	+3·7	70	5	43·1	0	39	21, 25	50·9	49·3	44·8	45·4	7·9	—1·3	8·8	67	—5
Kalimpong ..	3,965	882·7	—0·4	880·4	68·4	+1·6	75	4	52·9	—0·5	50	25, 28	57·0	61·6	53·5	56·4	12·6	—0·6	13·4	79	+2
Katmandu ..	4,388	871·8	..	868·4	74·7	+1·9	81	3	43·2	—2·5	40	18	49·5	63·7	47·5	55·7	10·4	—0·2	12·0	87	—3
Muktesar ..	7,502	774·6	—0·1	773·2	61·1	+2·3	68	4, 5	44·2	+1·3	39	26, 28	48·4	53·6	39·9	46·4	5·4	+0·3	8·3	49	+1
Mussoorie ..	6,699	799·9	+7·2	783·4	60·5	+1·0	68	5, 8	46·5	+1·4	42	25	53·6	53·1	45·2	48·7	7·1	+1·3	10·0	52	+2
Simla ..	7,224	784·8	+0·9	783·9	59·1	+0·8	67	5	45·4	+1·2	41	24, 28	50·7	53·1	39·7	44·2	4·3	+0·1	6·6	35	—2
Abu	3,945	878·8	—5·1	878·6	79·8	+6·1	82	11	58·3	+0·5	55	16,27,28	69·8	71·3	56·3	56·9	10·1	+1·8	10·0	41	—7
Pachmarhi ..	3,528	899·1	+1·6	896·7	75·7	+1·2	79	2	49·6	—1·1	42	29	57·8	71·4	53·3	61·6	12·1	+0·6	14·7	73	+13
Mahabaleshwar	4,534	865·8	+1·2	864·1	75·5	+1·5	79	1,25	58·0	—0·8	55	4, 7	61·2	68·1	54·8	58·9	12·1	+0·1	13·3	64	—1
Mercara ..	3,781	887·6	+0·9	885·4	72·5	—2·6	75	1, 23	58·5	—1·9	51	3	63·0	72·5	58·6	63·5	15·0	—2·5	16·3	77	—9
Ootacamund ..	7,364	782·0	+1·7	780·5	66·5	+2·8	72	26, 27	43·1	—5·0	30	7	49·9	59·5	47·0	56·1	10·0	—1·6	12·3	84	+3
Coonoor ..	5,730	829·0	..	..	66·4	—6·6	70	4 days	49·9	—3·4	43	2	58·3	..	54·2	..	12·9	—1·2	..	78	—1
Kodaikanal ..	7,688	773·0	+1·6	771·4	61·5	+0·6	65	8, 22, 30	47·4	—2·0	43	23, 26	51·9	55·5	48·1	52·7	10·2	—1·6	12·6	78	—4
Ceylon—																					
Colombo ..	24	1012·2	+1·3	1009·1	87·2	+1·2	90	2, 26,29	71·5	—2·2	66	1	73·0	83·1	70·2	75·1	23·9	—3·8	26·0	86	—4
Trincomalee ..	24	1012·2	+2·2	1009·5	83·7	—1·4	87	7, 14	75·3	+0·7	73	4, 15, 21	79·4	81·6	75·1	75·3	27·8	—0·1	27·1	81	—3
Hambantota ..	61	1009·9	+0·9	1006·9	85·7	+0·3	89	2	74·0	+0·1	71	7	77·4	82·9	74·1	71·9	27·3	—0·4	28·9	85	—5
Mannar ..	12	1012·9	..	1009·7	86·4	..	89	10	75·5	..	72	4	79·5	83·2	75·9	75·2	27·6	..	26·2	80	..

Cloud Amount (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I.S.T.										17 hrs. I.S.T.									
Mean 8 hours I.S.T.	Departure from normal.	Mean 17 hours 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
																													Madras, South East.
5·4	+0·4	4·1	1·29	—10·43	1·19	28	2	—11·0	9·4	+0·5	11	12	1	2	2	0	0	2	0	12	11	3	2	1	0	0	1	0	Pamban.
3·7	—2·7	4·8	0·25	—5·48	0·14	5	1	—7·0	3·4	—0·7	12	5	1	0	0	0	1	3	8	1	13	4	0	0	0	0	0	12	Madura.
5·4	—1·3	3·9	5·52	—12·02	2·03	27	7	—6·0	9·3	+3·2	0	4	0	0	1	2	6	13	4	1	22	2	3	1	1	0	0	0	Negapatam.
4·4	—1·2	4·3	0·07	—5·77	0·04	20	0	—8·5	3·5	+0·7	7	5	1	0	0	0	2	3	12	0	13	7	2	0	0	1	1	6	Trichinopoly.
3·4	—2·0	3·8	1·25	—2·78	0·95	12	2	—4·8	4·2	+2·0	9	12	3	0	2	3	0	0	1	5	10	6	1	2	3	1	0	2	Coimbatore
2·9	—2·4	4·1	0·47	—3·34	0·40	22	1	—5·2	4·0	+1·4	0	5	11	0	0	0	1	0	13	0	1	18	1	1	0	2	1	6	Salem.
4·2	—1·9	4·5	2·83	—12·69	0·89	21	5	—6·6	6·2	+2·4	6	1	1	0	1	1	3	16	1	2	16	7	3	1	0	0	1	0	Cuddalore.
3·6	—1·5	7·4	1·23	—6·45	0·72	22	4	—4·5	3·4	+1·4	1	2	1	0	0	0	1	0	25	0	8	10	1	0	0	0	0	11	Vellore.
4·3	—1·7	4·5	2·81	—11·15	1·20	19	4	—7·1	11·9	—0·4	2	9	1	0	0	2	4	12	0	3	22	1	4	0	0	0	0	0	Madras.
3·8	..	5·1	2·01	..	1·55	22	4	..	2·3	..	0	5	1	0	0	0	0	0	24	1	23	2	0	0	0	0	0	4	Arogyavaram.
																													Madras, Deccan—
2·9	—1·9	3·1	0·56	—2·97	0·56	22	1	—4·2	2·6	—0·8	0	0	0	0	0	0	0	1	29	0	2	10	3	0	0	0	0	15	Cuddapah.
4·2	—0·2	3·9	0·03	—1·94	0·03	22	0	—3·1	2·8	+0·4	0	0	1	4	0	0	2	1	22	1	3	16	3	0	0	2	3	2	Bellary.
4·5	+0·8	4·1	0	—1·19	0	..	0	—2·1	3·4	+1·0	0	0	4	2	2	2	0	0	20	1	4	12	5	3	0	0	1	4	Kurnool.
3·6	—2·3	4·1	0·83	—1·07	0·80	9	1	—2·6	2·7	—0·6	0	0	1	0	0	2	0	0	27	8	7	6	3	0	1	0	3	2	Rentichintala.
3·2	..	3·1	1·13	—1·24	1·13	22	1	—2·7	4·8	..	0	2	5	2	0	1	0	1	19	0	13	9	0	0	0	0	0	8	Anantapur.
																													Madras Coast, North—
3·7	—2·6	3·1	1·80	—9·90	1·00	23	3	—5·8	3·5	+0·5	3	1	0	1	3	0	3	15	4	3	9	12	2	2	0	0	1	1	Nellore.
3·9	..	3·4	0·54	..	0·42	22	2	..	3·8	..	6	10	0	2	0	0	1	3	8	1	13	9	5	0	0	1	0	1	Ongole.
3·1	—0·8	3·6	0·02	—5·76	0·02	9	0	—4·7	5·2	+1·0	11	13	3	1	0	0	0	1	1	4	4	4	13	2	0	0	1	2	Masulipatam.
2·5	—2·0	2·7	2·15	—3·44	1·15	8	3	—1·5	7·1	+0·1	1	20	0	0	0	1	0	8	0	0	4	7	17	0	2	0	0	0	Cocanada.
3·1	—1·5	3·0	5·03	+0·36	3·67	7	3	—0·9	4·3	+0·5	9	2	1	0	0	0	9	3	6	1	10	16	1	1	0	0	0	1	Vizagapatam.
5·4	+1·8	5·5	3·66	+0·27	2·70	11	2	—0·7	7·7	+1·7	6	0	1	0	0	0	8	15	0	0	7	15	8	0	0	0	0	0	Calingapatam.
																													Hill Stations Excluding Kashmir—
2·1	—0·5	7·8	0·03	—1·58	0·03	28	0	—2·7	2·3	+1·1	1	1	8	3	1	1	0	0	15	0	0	0	0	0	0	0	0	30	Shillong.
1·4	—1·5	2·4	0	—2·70	0	..	0	—1·8	3·6	+0·9	1	8	14	1	1	3	1	0	1	2	5	2	2	1	4	6	6	2	Cherrapunji.
1·9	..	3·0	0·17	..	0·17	15	1	..	3·8	..	0	0	24	0	1	0	2	0	3	0	1	1	0	0	1	23	3	1	Aijal.
3·1	—0·5	4·6	0·08	—0·73	0·04	23,30	0	—1·2	3·4	+1·4	0	1	16	1	1	0	1	1	9	0	1	1	1	1	4	18	1	3	Darjiling.
2·9	+0·3	4·3	0	—0·71	0	..	0	—1·4	6·5	0	0	0	0	0	0	0	2	26	2	0	0	0	25	4	0	0	0	1	Kalimpong.
4·5	—3·1	2·7	0	—0·06	0	..	0	—0·2	0·7	—0·2	0	0	0	0	0	0	0	0	30	5	0	0	1	1	1	0	2	20	Katmandu.
0·6	—1·0	1·3	0·06	—0·36	0·06	14	0	—0·7	4·5	—0·1	0	5	6	1	1	3	7	1	6	0	0	1	1	0	11	16	1	0	Muktesar.
0·9	—0·6	2·2	0	—0·17	0	..	0	—0·9	2·3	—2·2	4	4	2	4	2	2	0	1	11	0	0	0	8	13	4	1	0	4	Mussoorie.
1·3	—0·3	1·5	0	—0·52	0	..	0	—1·1	1·1	—1·6	10	4	1	0	1	1	1	0	12	10	4	0	2	4	1	1	0	11	Simla.
0·6	—0·6	0·8	0	—0·22	0	..	0	—0·4	1·3	—1·6	0	5	1	1	0	0	0	0	23	0	2	0	0	0	0	2	0	26	Abu.
1·6	—0·3	1·4	0	—0·74	0	..	0	—1·2	1·7	—0·2	1	9	2	0	4	4	0	0	10	6	11	5	0	0	0	0	2	6	Pachmarhi.
0·8	—2·0	2·3	0·57	—0·99	0·42	12	1	—1·4	0·8	—6·7	0	2	8	5	0	0	0	0	15	0	1	1	1	0	0	0	0	27	Mahabaleshwar.
2·9	—3·1	3·4	0	—3·00	0	..	0	—5·3	6·5	+2·4	0	11	11	0	0	0	2	2	4	1	9	9	1	0	0	4	5	1	Mercara.
3·1	—2·7	5·5	0·28	—6·05	0·23	22	1	—9·5	2·3	—0·4	3	5	5	1	1	0	0	0	15	13	7	4	0	1	0	0	1	4	Ootacamund.
5·2	—1·2	..	3·78	—7·45	1·25	24	6	—6·7	3·9	+0·8	2	0	4	9	3	0	0	0	12	..	..	..	..	..	..	..	..	..	Coonoor.
3·3	—2·8	6·5	0·90	—9·29	0·38	20	3	—9·8	8·8	+1·3	8	8	2	3	1	0	0	5	3	4	4	3	2	1	0	4	10	2	Kodaikanal.
																													Ceylon—
8·9	—2·4	5·6	4·72	—8·13	2·20	12	4	—9·6	..	..	0	12	11	4	0	0	0	0	3	4	2	0	0	1	2	7	13	1	Colombo.
6·4	+0·6	6·2	6·50	—7·16	3·22	19	8	—5·9	..	..	4	10	0	1	2	7	1	2	3	19	9	2	0	0	0	0	0	0	Trincomalee.
4·5	—0·6	6·9	7·55	+0·54	2·38	18	8	—2·0	..	..	21	2	0	0	0	0	4	2	1	3	4	1	9	5	7	0	1	0	Hambantota.
3·6	..	3·8	3·15	..	1·05	28	7	..	..	..	4	11	5	5	3	1	0	0	1	15	5	3	1	0	4	1	1	0	Mannar.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2-30 HRS. G.M.T.) AT 4TH CLASS STATIONS—NOVEMBER 1947

STATION.	Maximum temperature °F.				Minimum temperature, °F.				Mean dry bulb temperature 8 hrs. I.S.T. °F.	Mean Wet bulb temperature 8 hrs. I.S.T. °F.	Vapour pressure, Millibars.		Relative humidity %		Mean cloud amount 8 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. 8 hrs. I.S.T.	Departure from normal.	Mean 8 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 8 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	82·1	+3·0	85	4 days	59·5	—0·2	52	26	75·1	69·5	22·1	+1·9	74	—18	..	0	—1·15	0	..	0	—1·9	..	..
KASHMIR—																							
Jammu*	81·1	+3·1	89	8	58·7	+3·5	53	18	60·9	54·6	11·8	+2·5	64	+5	1·5	0	0·28	0	..	0	—0·6	N22E	..
Kargil (R)																							
MYSORE—																							
Balehonnur ..	78·9	0	83	12	58·3	—3·2	53	3, 5, 17	64·8	61·1	16·9	—2·2	81	—7	—	1·14	—1·70	0·81	13	3	—1·7	..	..
TIBET—																							
Yatung (Chumbi) ..	52·8	+0·6	56	2, ,20	22·7	—5·0	19	24,27	30·6	29·8	5·3	—0·5	91	+8	2·1	0	—0·44	0	..	0	—0·9	..	..

*—mean or total for 27 days. R=Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2-30 HRS. G.M.T.) AT 5TH CLASS STATIONS—NOVEMBER 1947.

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	..	Kashmir ..	Sonamarg ..	0·21	—1·34	0·21	17	1	—1·9
West Bengal ..	Bankura ..	0·35	—0·30	0·35	8	1	—0·1		Gurez (R) ..						
	Cooch Behar ..	0	—0·45	0	..	0	—0·8	Bombay, Deccan ..	Khandala (R) ..						
Bihar	Muzaffarpur ..	0	—0·29	0	..	0	—0·5	Madras, Southeast	Palamcottah ..	0·88	—6·55	0·34	23	3	—6·5
	Chapra ..	0	—0·36	0	..	0	—0·5	Sikkim	Lachung ..	0·16	—1·40	0·08	30	0	—3·5
	Arrah	0	—0·37	0	..	0	—0·6								
United Provinces, West.	Meerut ..	0	—0·13	0	..	0	—0·3								
East Punjab ..	Dharampore ..	0	—0·32	0	..	0	—0·8								
	Kyelang (R) ..														
	Dalhousie ..	0	—0·76	0	..	0	—0·9								

R=Register not received.

Monthly Weather Report, November, 1947.

Monthly Means of Upper Winds

NOTE.—Data upto 9·0 Km.a.s.l. are given under Table A and data above 9·0 Km. under Table B. In Tables A and B,

n—represents the number of observations,

V—represents the mean speed in m/sec. irrespective of directions,

v—represents the resultant mean velocity in m/sec.,

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

For the coordinates of the stations for which data have been published in these tables and other particulars please refer to the introduction to the Monthly Weather Report, January 1947, and the subsequent issues. The data for Minicoy have not been included in this issue.

Table A—Monthly mean directions and velocities of Upper winds

Winds upto 9 km. above sea level

NOVEMBER 1947

Height in km.	AHMEDABAD												ALLAHABAD											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface ..	30	0·3	0·2	90	30	1·1	0·9	47	30	1·1	0·9	76	30	0·1	0·1	45	30	0·3	0·3	261	30	1·9	1·8	31
0·15 a. ground	29	4·2	3·5	53	30	7·1	6·6	68	29	3·0	2·4	75	30	3·5	1·3	25	30	3·4	1·8	230	30	3·8	3·4	32
0·6 a. s. l ..	29	3·8	3·2	59	29	5·0	4·2	78	29	2·7	2·0	75	30	2·8	1·5	340	30	2·9	1·3	331	30	3·6	3·2	32
1·0 „ ..	29	3·8	2·7	67	30	4·2	3·1	69	29	2·7	1·8	62	30	3·7	3·1	307	30	3·3	2·5	308	30	3·9	3·5	31
1·5 „ ..	29	3·7	1·8	76	30	4·2	1·9	61	29	3·0	1·6	44	29	5·2	4·4	304	30	5·5	5·1	314	30	4·5	3·7	31
2·0 „ ..	29	4·1	1·2	96	30	5·1	0·7	19	29	3·5	0·8	23	29	7·6	5·4	318	30	7·0	5·6	325	30	5·8	4·4	30
2·5 „ ..	29	4·8	0·5	185	30	5·2	0·4	250	29	4·6	0·9	301	23	6·9	4·9	331	30	7·8	5·9	325	30	6·5	5·0	30
3·0 „ ..	23	4·4	0·7	208	30	5·4	1·0	255	29	5·3	1·0	298	18	5·9	3·6	324	30	7·9	5·6	322	30	7·5	5·7	30
4·0 „ ..					30	6·8	3·1	303	29	7·1	3·6	301	1	7·5	7·5	15	24	8·2	5·9	311	30	9·7	8·1	30
5·0 „ ..					29	8·6	6·3	285	29	9·3	6·7	285	1	7·0	7·0	30	16	8·8	7·5	298	27	12·2	10·9	29
6·0 „ ..					23	10·9	9·0	288	29	11·9	10·0	275					14	11·3	10·3	293	22	13·3	12·0	28
7·5 „ ..					8	13·7	12·6	266	24	16·1	13·7	265					1	14·5	14·5	315	7	16·6	14·8	29
9·0 „ ..					6	15·1	13·7	268	8	16·1	15·5	263					1	19·0	19·0	310	2	20·3	18·7	29

Height in km.	AMBALA												ANANTAPUR								ASANSOL			
	0100				0700				1600				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface.	6	1·7	1·3	310	30	1·5	0·7	357	30	2·0	1·8	316	30	0·9	0·6	91	30	3·2	3·0	56	30	1·6	1·3	32
0.15 a. ground	4	6·5	6.4	336	24	4·9	1·9	347	25	5·9	5·7	312	30	4·9	2·9	85	30	5·4	4·9	60	30	4·5	3·5	
0·6 a. s. l. ..	4	7·2	7·2	334	24	5·7	4·6	333	25	5·6	5·5	309	30	7·0	4·8	88	30	5·4	4·7	64	30	4·1	3·5	1
1·0 „ ..	4	6·5	6·3	324	24	7·0	6·8	328	25	6·3	6·2	312	30	9·7	7·7	83	30	4·9	4·1	67	30	4·3	3·4	35
1·5 „ ..	4	5·6	5·5	318	24	7·5	7·4	322	25	7·3	7·2	316	28	8·7	7·6	73	29	5·1	3·5	68	29	4·5	3·7	33
2·0 „ ..	4	5·8	5·7	323	24	8·2	8·1	320	25	8·3	8·1	322	27	7·9	5·7	45	28	4·9	3·0	67	23	5·7	4·6	32
2·5 „ ..	4	6·2	6·1	334	24	8·0	7·8	323	25	8·2	7·7	321	26	7·2	4·9	43	27	5·1	2·8	50	9	3·5	1·1	30
3·0 „ ..					24	7·3	7·0	322	24	7·2	6·8	316	24	6·7	4·4	43	25	5·2	2·6	49	4	5·9	0·4	25
4·0 „ ..					22	6·2	5·2	306	24	6·5	6·1	314	22	5·2	2·4	39	23	4·9	2·0	33				
5·0 „ ..					20	8·4	7·6	295	21	7·9	7·1	300	20	4·4	1·6	48	19	4·9	3·4	28				
6·0 „ ..					16	12·2	11·0	278	18	10·9	9·8	290	17	5·2	2·4	35	15	5·6	2·3	38				
7·5 „ ..					9	19·3	18·1	283	5	13·1	12·4	292	12	9·8	4·5	288	3	7·8	0·7	11				
9·0 „ ..					2	14·5	14·3	298	3	16·6	14·9	272	8	10·8	4·5	254								

Table A—Monthly mean directions and velocities of Upper winds

Winds upto 9 km. above sea level

NOVEMBER 1947

Height in km.	ASANSOL								BALASORE				BANGALORE								BAREILLY			
	0700				1600				0700				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	1·8	1·5	304	30	1·5	1·1	340	30	1·3	1·2	337	30	2·6	1·9	70	30	2·8	1·8	57	30	Calm	Calm	Calm
0·15 a. ground	30	3·9	2·9	336	30	3·2	2·4	340	30	4·5	4·1	360	30	6·5	5·3	78	29	4·4	3·1	47	27	4·0	2·2	286
0·6 a. s. l. ..	30	3·4	2·3	26	30	3·3	2·6	330	30	4·4	3·9	18									27	5·3	4·7	306
1·0 „ ..	30	4·1	3·0	358	30	3·5	2·9	331	30	4·5	4·1	32	30	5·1	4·1	75	29	4·4	2·8	52	27	6·4	5·9	310
1·5 „ ..	29	5·6	4·2	342	30	3·8	3·0	331	30	5·0	3·8	23	27	6·8	5·4	67	29	4·9	3·4	58	30	7·4	7·0	311
2·0 „ ..	28	6·6	4·8	341	28	5·2	3·6	322	30	5·7	3·3	12	26	5·6	3·5	47	29	4·7	3·3	55	30	8·0	7·5	309
2·5 „ ..	24	5·5	3·5	319	27	7·3	4·7	313	30	5·7	2·3	334	25	6·0	2·8	15	27	4·9	2·0	40	30	7·4	6·7	313
3·0 „ ..	20	6·3	4·1	277	27	8·3	6·0	296	29	5·8	2·6	306	24	6·8	2·8	356	23	5·5	1·9	9	30	8·0	7·2	313
4·0 „ ..	12	7·6	6·2	258	18	9·5	7·6	286	28	6·2	4·6	275	23	4·9	1·2	36	20	4·5	1·3	13	22	7·6	6·5	306
5·0 „ ..	8	10·2	9·3	275	11	10·8	9·2	284	27	8·8	7·4	277	19	4·7	2·7	81	18	4·0	1·9	76	19	9·8	9·1	300
6·0 „ ..	5	11·6	10·6	287	9	13·3	11·6	269	26	10·9	9·1	277	18	4·7	1·9	53	15	4·6	2·8	68	12	12·0	9·6	280
7·5 „ ..	1	12·0	12·0	295					21	15·0	14·3	271	14	5·7	1·7	309	10	6·6	2·7	31	3	14·2	13·7	292
9·0 „ ..	1	23·0	23·0	285					17	22·9	22·4	269	11	8·2	5·6	259	8	8·3	1·8	85				

Height in km.	BAREILLY				BHOPAL												BHUJ							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	0·3	0·3	323	30	1·4	1·2	88	30	0·9	0·6	94	30	2·5	1·4	35	30	0·4	0·4	83	30	0·2	0·2	62
0·15 a. ground	30	4·0	3·6	307	30	5·9	4·7	77	30	5·2	4·1	109	30	3·3	1·9	31	30	4·4	2·3	354	30	4·4	2·7	12
0·6 a. s. l.	30	4·3	4·1	301	30	6·0	4·7	77	30	4·4	3·5	110	30	3·3	1·9	36	30	5·1	3·2	30	30	5·4	2·3	60
1·0 „ ..	30	5·1	4·6	297	30	5·0	3·9	69	30	4·7	3·0	82	30	3·3	2·1	15	30	4·6	2·7	66	30	4·6	2·1	91
1·5 „ ..	30	6·1	5·8	301	30	3·9	2·0	40	30	4·6	3·2	45	30	3·3	1·7	6	30	4·2	2·4	122	29	4·0	1·1	134
2·0 „ ..	30	6·7	6·1	307	22	5·3	2·6	338	30	5·5	3·4	6	29	3·7	1·8	345	29	4·6	3·0	150	29	4·4	1·6	150
2·5 „ ..	30	7·1	6·5	305	14	6·1	3·1	310	29	6·7	3·8	349	27	4·7	2·7	351	24	5·2	2·7	161	29	4·7	1·5	179
3·0 „ ..	30	6·9	6·2	307	4	8·1	4·3	305	26	7·5	4·5	333	27	5·7	3·2	32	16	4·8	1·6	205	29	4·5	1·4	236
4·0 „ ..	30	8·5	7·8	303	1	5·0	5·0	80	15	6·8	4·2	313	23	8·0	5·0	313	3	3·7	1·5	317	29	6·4	3·1	264
5·0 „ ..	29	11·3	10·7	294					9	6·9	4·3	282	19	9·8	7·1	297					27	7·7	5·5	269
6·0 „ ..	25	13·8	13·0	290					2	8·5	7·8	330	16	11·1	8·2	285					22	11·5	9·8	275
7·5 „ ..	16	19·7	18·4	286					1	8·0	8·0	305	7	14·1	7·9	286					16	13·8	12·3	280
9·0 „ ..	11	26·3	23·9	288									4	17·6	8·3	276					11	15·8	14·1	259

Table A—Monthly mean directions and velocities of Upper winds

Winds upto 9 km. above sea level

NOVEMBER 1947

Height in km.	BHUJ								BIKANER								BOMBAY											
	1600				0700				1600				0100				0700				1600							
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
Surface ..	30	0·8	0·1	68	30	1·3	0·9	194	30	0·9	0·8	279	30	0·4	0·2	58	30	1·7	1·0	84	30	3·2	3·0	29				
0·15 a. ground	30	2·5	0·9	77	30	5·0	2·7	146	30	2·5	1·5	284	29	2·9	2·1	23	29	3·7	2·9	67	30	4·1	2·0	28				
0·6 a.s. l. ..	30	2·5	1·0	67	30	4·1	0·9	228	30	3·0	1·9	287	30	4·9	4·2	37	30	5·0	3·5	81	30	2·8	1·6	38				
1·0 „ ..	30	2·7	0·7	64	30	3·6	2·0	284	30	2·9	2·1	292	30	5·1	3·6	59	30	4·9	3·7	78	30	3·5	2·2	6				
1·5 „ ..	30	2·5	0·6	120	30	3·8	2·8	302	30	3·1	2·2	293	25	4·8	3·7	85	30	4·3	2·9	92	29	4·5	3·3	8				
2·0 „ ..	30	2·8	0·6	151	30	3·7	2·9	44	30	3·7	2·1	279	17	4·6	3·3	113	30	4·9	2·8	107	29	5·3	3·9	8				
2·5 „ ..	27	3·8	1·5	233	30	3·7	2·8	332	30	4·2	2·7	300	7	4·9	2·5	133	27	5·1	2·7	94	30	6·6	3·6	9				
3·0 „ ..	27	5·1	1·9	250	30	4·6	3·1	329	30	5·1	3·7	291	4	4·6	0·8	175	26	5·9	2·1	73	30	6·6	2·7	8				
4·0 „ ..	26	6·2	3·4	253	30	6·8	3·4	312	28	7·8	6·7	293	1	7·0	7·0	340	24	6·9	1·7	352	30	7·2	1·4	3				
5·0 „ ..	24	7·9	5·6	267	27	9·9	8·6	283	26	9·7	8·5	290					16	6·1	3·0	294	25	6·3	3·2	30				
6·0 „ ..	22	10·2	8·7	266	11	12·0	10·0	258	22	12·6	11·6	291					10	5·1	3·5	264	21	7·3	4·3	27				
7·5 „ ..	11	11·9	10·9	259					13	16·4	15·4	286					1	3·0	3·0	210	16	9·0	6·9	27				
9·0 „ ..	4	12·0	11·0	259					2	29·2	28·3	288					1	7·0	7·0	245	7	17·9	16·7	28				

Height in km.	CALCUTTA												COCHIN											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface ..	30	1·6	0·6	7	30	1·0	0·9	18	30	1·9	1·6	346	30	1·1	0·7	52	30	1·9	1·7	59	30	3·7	3·0	
0·15 a. ground	30	6·6	4·1	11	30	4·3	3·3	32	30	3·7	2·9	344	30	2·8	1·3	53	30	3·3	2·8	65	30	4·3	3·9	
0·6 a. s. l. ..	30	5·1	4·2	359	30	3·7	2·9	30	30	3·8	3·3	347	30	2·7	1·0	8	30	3·0	1·9	29	30	2·7	1·8	
1·0 „ ..	30	5·1	4·3	345	30	3·8	3·2	11	30	3·8	2·9	347	30	2·1	1·2	66	30	2·7	1·4	43	30	2·8	1·7	
1·5 „ ..	30	5·4	4·3	340	30	4·9	3·1	349	30	3·7	2·7	347	30	3·6	2·5	78	28	3·3	2·2	71	30	4·2	3·4	
2·0 „ ..	30	5·7	3·7	323	29	5·3	2·5	333	30	4·4	2·7	327	25	4·5	3·5	68	28	4·8	3·4	70	30	5·2	4·2	
2·5 „ ..	28	5·9	2·6	284	29	5·5	2·3	287	29	5·6	3·4	295	18	5·6	2·7	44	27	5·5	2·5	64	27	6·1	4·1	
3·0 „ ..	25	6·4	3·6	265	29	6·0	3·4	267	28	7·4	4·9	292	14	5·6	1·0	341	27	6·0	1·5	77	26	5·9	2·3	
4·0 „ ..	7	3·1	1·3	234	26	7·9	6·6	273	23	9·4	8·3	277	2	3·9	2·7	125	22	4·7	1·5	130	21	5·1	1·0	
5·0 „ ..					20	9·4	7·9	274	18	11·1	10·2	275					20	4·7	2·3	121	21	5·3	1·5	
6·0 „ ..					16	11·1	10·3	266	12	11·2	9·8	276					17	5·0	3·0	109	19	4·9	2·3	
7·5 „ ..					4	18·8	18·2	263	6	16·9	16·5	251					5	8·0	4·5	87	12	4·3	3·2	
9·0 „ ..					2	24·5	24·3	276	2	16·0	15·7	265					5	8·2	5·3	109	4	7·6	4·8	

Table A—Monthly mean directions and velocities of Upper winds

Winds upto 9 km. above sea level

NOVEMBER 1947

Height in km.	COOCH BEHAR								CUTTACK												DEOLALI			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	2·0	1·8	72	30	0·3	0·1	210	30	0·1	0·1	24	30	0·5	0·4	317	30	0·8	0·5	24	20	1·0	0·9	39
0·15 a. ground	30	5·0	4·9	79	30	1·5	0·2	221	30	2·7	0·8	279	30	3·6	2·9	347	30	3·1	1·9	38	20	3·3	2·9	84
0·6 a.s.l. ..	30	5·2	4·9	77	30	2·2	0·3	98	30	3·5	2·0	47	30	4·2	3·5	42	30	3·1	2·2	32	20	1·7	1·4	62
1·0 „ ..	30	4·4	4·0	76	30	2·7	0·1	82	30	4·5	3·5	33	30	5·2	4·6	43	30	3·3	2·3	33	20	6·6	5·8	102
1·5 „ ..	30	5·2	4·1	79	30	3·4	0·7	100	30	5·1	3·9	20	30	6·3	5·3	38	30	4·0	2·8	22	20	6·4	5·7	91
2·0 „ ..	30	5·3	3·5	78	30	4·2	1·3	94	26	6·2	4·7	18	30	6·0	4·3	32	30	5·4	3·4	360	20	5·4	3·8	82
2·5 „ ..	29	4·9	2·3	61	30	5·0	1·2	64	22	5·4	2·4	1	29	5·6	2·8	3	30	6·1	3·0	327	20	5·2	2·3	79
3·0 „ ..	29	6·5	0·6	325	29	5·8	1·1	312	19	4·7	2·4	319	29	5·5	2·2	320	29	5·8	3·4	317	20	6·1	2·4	72
4·0 „ ..	28	9·9	7·2	276	23	9·5	7·4	277	2	6·0	5·9	297	28	5·9	4·9	231	23	6·2	4·7	282	18	7·7	1·2	356
5·0 „ ..	20	13·3	12·5	269	25	13·1	11·8	278					2	7·9	6·2	276	27	8·1	7·0	281	18	7·2	3·4	293
6·0 „ ..	17	14·5	13·3	266	19	17·6	16·9	278					25	9·8	8·4	272	27	9·7	8·6	279	14	8·6	6·0	280
7·5 „ ..	9	18·5	16·7	273	13	20·7	19·5	275					16	14·6	13·7	271	22	14·1	12·4	2 9	13	14·1	11·1	275
9·0 „ ..	4	24·4	23·4	262	4	23·5	21·5	276					10	21·9	20·9	267	11	18·9	17·2	271	6	15·1	14·8	261

Height in km.	GADAG								GAYA												GOPALPUR			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	4·5	2·8	117	30	3·8	2·8	84	30	0·7	0·5	167	30	1·2	1·0	188	30	2·0	1·7	325	30	4·3	4·0	338
0·15 a. ground	30	6·7	5·2	112	30	4·8	3·7	86	30	2·7	1·4	349	30	2·6	2·2	226	30	4·6	4·1	324	30	6·0	5·5	353
0·6 a.s.l. ..									30	3·3	2·6	343	30	2·7	1·7	341	30	4·4	4·0	320	30	4·9	4·3	49
1·0 „ ..	30	8·3	6·8	95	30	5·0	4·0	85	30	4·3	3·9	316	30	4·7	4·3	331	30	4·3	3·8	312	30	5·4	4·5	53
1·5 „ ..	30	7·1	5·8	86	30	5·2	4·2	83	30	5·6	4·5	305	30	6·8	5·3	320	30	4·3	3·5	303	29	6·4	5·5	45
2·0 „ ..	29	6·2	4·5	65	30	5·1	4·1	78	26	7·2	5·1	311	30	7·6	4·8	310	30	6·0	4·3	302	27	5·7	3·9	31
2·5 „ ..	29	5·9	4·5	62	28	5·2	3·9	67	5	6·0	4·5	302	30	7·9	5·5	311	30	7·1	4·7	299	27	4·9	2·4	7
3·0 „ ..	27	5·1	3·8	67	26	4·8	3·6	66	4	6·5	4·7	298	29	8·1	6·3	297	30	8·5	6·5	292	26	4·5	2·0	336
4·0 „ ..	24	4·3	1·8	46	22	4·7	2·6	55					16	7·1	5·9	285	26	10·5	8·8	286	25	4·4	2·7	295
5·0 „ ..	19	4·6	2·7	64	16	4·4	1·8	37					10	8·1	7·1	290	20	12·7	12·4	282	23	6·4	4·1	287
6·0 „ ..	19	5·9	2·2	52	12	5·5	0·9	51					8	10·2	9·5	269	12	15·4	14·8	283	21	8·7	6·8	278
7·5 „ ..	13	8·7	4·0	273	10	9·4	1·9	232					1	12·0	12·0	290	7	16·9	16·4	274	13	14·4	13·3	268
9·0 „ ..	9	15·8	13·7	259	5	12·1	8·8	231									3	19·0	17·9	275	10	18·5	16·5	260

Table A—Monthly mean directions and velocities of Upper winds

Winds upto 9 km. above sea level

NOVEMBER 1947

Height in km.	GOPALPUR				GORAKHPUR								HYDERABAD (Dn.)											
	1600				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	3·0	2·3	85	30	0·9	0·3	283	30	1·7	1·0	281	30	1·1	0·8	80	30	0·8	0·6	68	30	3·0	1·9	67
0·15 a. ground	29	3·8	3·0	77	30	2·6	1·4	279	30	2·8	2·5	287	30	5·9	5·0	88	30	4·9	3·6	94	30	5·0	4·9	66
0·6 a. s. l.	29	3·5	2·6	36	30	3·3	2·8	288	30	3·2	3·0	282	30	3·6	2·9	83	30	2·7	1·7	75	30	4·7	3·6	70
1·0 „ ..	29	4·0	3·3	10	30	4·2	3·7	294	30	3·9	3·3	282	30	7·2	6·2	79	30	6·7	5·7	79	30	5·1	4·4	64
1·5 „ ..	29	5·1	4·1	9	30	5·4	4·3	305	30	5·0	3·1	293	29	6·9	5·6	63	28	7·9	6·7	69	30	4·9	4·4	61
2·0 „ ..	28	5·7	4·4	1	30	5·7	3·8	305	30	6·1	4·7	301	29	7·0	5·4	47	28	8·5	7·1	43	29	5·4	4·8	50
2·5 „ ..	28	5·4	3·3	351	30	6·0	3·7	302	30	6·9	4·8	308	27	6·7	5·0	37	27	7·5	5·7	33	25	6·5	5·4	39
3·0 „ ..	28	4·6	2·6	321	29	7·2	4·4	307	30	7·1	4·5	309	22	6·2	3·7	24	25	6·9	4·8	31	23	6·1	4·2	25
4·0 „ ..	24	5·3	3·7	297	19	7·5	4·5	308	21	7·8	4·5	297	1	3·0	3·0	40	24	5·9	3·0	40	19	5·6	2·5	6
5·0 „ ..	22	7·0	5·1	287	6	8·3	5·5	310	14	8·1	5·9	297					21	5·2	2·6	11	15	6·6	3·2	1
6·0 „ ..	21	9·3	7·4	279	2	9·0	8·7	274	9	11·2	8·9	284					20	6·7	2·8	344	15	6·9	3·3	324
7·5 „ ..	16	16·7	14·7	273					4	16·0	10·5	275					6	9·6	5·6	304	10	11·4	6·5	301
9·0 „ ..	10	20·5	18·5	272					1	26·5	26·5	245					1	26·0	26·0	270	8	14·1	8·7	286

Height in km.	JAMSHEDPUR								JHARSUGUDA												JODHPUR			
	0700				1600				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	1·0	0·9	284	30	1·4	0·9	336	30	1·8	1·7	27	30	2·4	2·2	25	30	1·5	1·2	17	30	1·6	0·7	37
0·15 a. ground	30	2·8	2·4	283	30	2·5	1·7	343	29	3·6	2·5	42	30	4·7	4·5	27	29	2·8	2·2	15	30	5·2	1·0	106
0·6 a. s. l.	30	3·1	2·3	21	30	2·7	2·2	344	30	3·5	2·4	45	30	4·3	3·5	53	30	2·7	2·2	12	30	4·2	0·5	107
1·0 „ ..	30	4·0	2·9	18	30	3·0	2·5	343	30	4·0	2·6	28	30	4·9	4·2	44	30	3·1	2·6	11	30	3·4	0·5	346
1·5 „ ..	30	4·8	3·8	3	30	3·7	3·0	343	29	3·8	2·8	16	30	4·6	3·8	27	30	3·5	2·9	4	30	3·7	0·5	1
2·0 „ ..	30	5·5	4·2	356	30	5·0	3·6	331	25	3·9	2·4	10	29	5·6	4·1	360	30	5·0	3·8	357	20	3·4	1·1	27
2·5 „ ..	29	5·6	3·5	342	30	6·1	4·1	311	19	6·0	4·5	337	28	5·9	4·1	355	29	6·4	4·4	344	5	2·7	0·1	2
3·0 „ ..	28	5·4	3·5	306	30	6·7	4·6	297	13	7·3	6·9	327	27	6·3	4·7	332	29	6·5	4·3	327	2	3·3	3·3	1
4·0 „ ..	21	6·0	4·8	270	29	8·3	7·3	278	3	5·3	4·6	316	27	6·0	4·4	288	26	7·8	6·3	294				
5·0 „ ..	11	6·5	5·3	266	24	10·7	9·8	278	2	6·0	5·7	300	25	8·8	7·2	278	25	9·1	8·4	282				
6·0 „ ..	6	7·9	6·9	290	20	12·4	11·5	283	1	4·0	4·0	275	25	10·6	9·4	279	22	11·3	10·3	278				
7·5 „ ..	1	13·5	13·5	260	2	14·5	14·5	264					17	15·2	13·7	272	18	16·8	15·5	278				
9·0 „					1	25·0	25·0	255					10	19·9	18·8	260	9	22·7	21·4	265				

Table A—Monthly mean directions and velocities of Upper winds

Winds upto 9 km. above sea level

NOVEMBER 1947

Height in km.	JODHPUR								JUBBULPORE								MADHOSAGAR							
	0700				1600				0700				1600				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	0·7	0·6	47	30	0·4	0·1	250	30	1·6	1·3	142	30	1·4	1·1	27	30	1·4	1·2	228	30	1·4	0·9	309
0·15 a. ground	30	4·3	1·2	110	30	2·6	0·7	311	30	3·7	2·9	149	30	3·5	2·6	16	30	3·2	1·6	208	30	2·7	2·0	319
0·6 a. s. l. ..	30	3·8	0·6	92	30	2·5	0·7	329	30	4·1	2·4	128	30	3·7	2·7	10	30	3·4	0·4	001	30	2·9	2·2	325
1·0 „ ..	30	3·2	0·4	29	30	2·3	0·6	327	30	3·8	2·1	65	30	3·3	2·6	10	30	2·9	1·7	350	30	3·0	2·3	328
1·5 „ ..	30	2·8	0·6	353	30	2·8	1·0	343	30	4·2	3·3	24	30	3·4	2·5	4	30	3·7	3·1	334	30	3·2	2·3	329
2·0 „ ..	30	3·8	1·3	342	30	2·9	1·3	342	30	5·4	4·1	358	30	4·2	2·8	349	30	5·3	4·4	326	30	3·7	3·0	328
2·5 „ ..	30	3·2	2·0	348	30	3·8	2·1	342	30	6·5	4·9	336	30	5·1	3·7	328	30	5·9	4·7	327	30	5·1	3·8	325
3·0 „ ..	28	4·9	1·6	282	29	4·7	2·5	330	30	7·4	5·2	322	30	6·4	4·9	320	29	6·4	4·9	325	27	6·3	4·9	311
4·0 „ ..	19	7·2	4·2	317	25	6·1	4·0	299	30	8·4	5·7	314	28	7·7	5·6	316	25	8·3	6·8	305	24	8·9	7·8	297
5·0 „ ..	3	9·0	7·4	329	21	9·8	7·2	297	25	9·4	7·0	286	27	9·2	7·5	296	16	11·9	10·8	282	11	11·0	10·3	289
6·0 „ ..	2	2·5	2·3	327	18	12·6	9·8	289	19	10·2	9·4	279	23	12·7	10·9	289	9	15·1	14·0	277	5	14·8	13·8	287
7·5 „ ..					7	19·1	15·5	267	6	11·3	11·3	286	16	16·1	14·7	285					1	19·5	19·5	325
9·0 „ ..									5	15·2	14·7	273	12	19·2	17·5	270								

Height in km.	MADRAS												MALEGAON CAMP											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	1·9	1·3	327	30	1·9	1·3	306	30	4·3	3·2	32	30	1·0	0·9	290	30	0·9	0·8	278	30	2·0	1·3	55
0·15 a. ground	30	5·2	3·8	46	30	5·9	3·6	13	30	7·0	5·3	43	30	4·7	3·4	72	30	3·1	1·2	117	30	3·5	2·4	54
0·6 a. s. l. ..	30	6·4	5·2	51	30	7·1	4·6	47	30	6·9	5·4	37	30	4·7	3·4	72	30	3·1	1·2	117	30	3·5	2·4	54
1·0 „ ..	28	6·8	5·3	40	29	6·8	4·9	49	30	7·1	5·6	34	30	5·7	4·9	82	30	6·0	4·1	112	30	3·5	2·6	56
1·5 „ ..	26	7·0	5·0	26	28	6·6	5·2	45	25	6·5	4·9	27	30	5·0	3·9	80	30	5·1	3·4	91	30	3·3	2·1	64
2·0 „ ..	20	6·7	4·8	9	24	6·3	4·6	39	19	5·5	4·0	3	30	4·1	2·1	82	30	4·0	2·5	68	30	3·5	1·3	73
2·5 „ ..	14	6·6	4·1	17	23	6·0	3·8	34	18	7·1	4·9	341	30	4·4	1·9	88	30	4·7	1·9	51	29	4·4	1·4	57
3·0 „ ..	9	7·9	4·1	333	22	7·1	3·3	357	18	7·2	4·5	334	28	4·7	0·9	101	30	6·3	2·1	40	29	5·0	1·2	40
4·0 „ ..	1	8·0	8·0	245	18	5·4	0·2	356	17	4·7	1·8	320	20	5·9	2·5	285	27	7·4	2·7	10	26	6·8	0·9	347
5·0 „ ..					16	4·0	1·2	39	16	3·7	1·0	292					25	7·4	3·8	300	25	6·8	3·7	298
6·0 „ ..					14	3·7	1·4	347	15	4·3	1·1	326					22	8·7	5·7	290	23	7·9	4·2	294
7·5 „ ..					4	6·0	0·7	108	9	5·2	2·2	310					17	10·6	9·1	270	15	11·2	8·6	275
9·0 „ ..					2	7·7	1·7	344	5	8·1		25					12	15·6	15·0	258	13	15·1	12·4	270

Table A—Monthly mean directions and velocities of Upper winds

Winds upto 6 km. above sea level

NOVEMBER 1937

Height in km.	MANGALORE												MASULIPATAM											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	2·9	2·5	76	30	3·1	3·0	88	30	3·5	2·9	289	30	0·7	0·5	13	30	0·9	0·8	20	30	1·6	1·1	80
0·15 a. ground	30	4·1	3·1	47	30	5·0	4·6	78	30	4·7	4·3	290	30	4·9	3·5	73	30	5·9	4·8	40	30	4·1	2·8	83
0·6 a.s. l. ..	30	4·5	2·4	29	30	5·0	3·1	58	30	2·8	1·2	331	30	6·1	4·3	72	30	5·8	4·8	63	30	5·2	3·4	42
1·0 „ ..	30	4·7	2·7	64	30	4·9	3·0	68	30	3·3	2·3	72	30	5·9	4·2	56	29	6·0	4·5	57	30	5·0	4·1	30
1·5 „ ..	30	5·3	4·5	84	30	4·1	3·1	82	30	4·5	3·6	73	29	6·2	4·4	47	29	6·1	4·4	40	29	6·4	4·1	25
2·0 „ ..	28	5·3	4·3	83	30	4·1	2·9	83	30	4·9	3·3	67	27	7·1	5·0	45	28	7·4	4·6	38	29	6·8	4·2	20
2·5 „ ..	21	5·3	3·5	66	30	4·3	2·3	66	30	5·1	2·2	62	19	6·6	4·5	11	27	7·3	3·8	23	28	6·9	4·3	21
3·0 „ ..	18	5·4	2·7	54	30	5·5	1·1	41	30	5·0	1·2	74	16	6·2	4·0	10	26	6·3	4·2	22	28	6·0	3·9	13
4·0 „ ..	2	4·0	2·1	126	28	5·2	1·5	78	29	5·0	2·3	82	4	2·9	0·4	47	24	5·0	2·6	357	26	4·8	1·8	358
5·0 „ ..					27	4·3	2·7	90	28	4·7	2·7	89					20	4·8	2·1	11	23	5·0	1·8	333
6·0 „ ..					22	3·7	0·9	36	25	4·0	1·9	73					20	5·7	2·3	339	21	6·2	2·4	316
7·5 „ ..					17	7·1	3·5	276	9	7·7	3·0	235					14	9·5	5·2	286	14	8·4	5·2	276
9·0 „ ..					9	12·0	11·4	247	5	13·4	10·0	257					11	13·8	7·8	269	8	11·6	10·3	266

Height in km.	MINICOY								NAGERCOIL												NAGPUR			
									0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..									30	3·6	2·8	28	30	2·5	2·2	36	30	4·7	0·4	306	30	1·2	0·9	
0·15 a. ground									30	5·8	3·7	17	30	5·5	3·9	25	30	7·2	0·8	321	30	4·6	3·3	6
0·6 a.s. l. ..									30	6·7	4·7	23	30	6·4	5·2	29	30	6·3	2·9	24	30	5·0	3·7	7
1·0 „ ..									30	6·9	5·7	39	30	6·8	5·8	36	30	5·8	3·8	32	30	4·7	4·0	7
1·5 „ ..									30	6·8	6·0	48	30	6·6	5·6	50	29	6·9	6·1	35	29	4·8	4·1	8
2·0 „ ..									30	6·9	5·5	53	29	6·0	4·7	55	28	7·9	6·8	36	22	4·5	3·4	3
2·5 „ ..									25	6·2	4·2	36	29	6·3	3·3	54	25	7·8	5·4	34	17	6·1	3·5	35
3·0 „ ..									25	5·2	3·0	36	27	5·6	2·2	57	24	6·0	2·9	42	8	8·4	5·9	30
4·0 „ ..									10	5·1	1·7	97	24	5·3	2·6	93	22	5·6	2·1	92				
5·0 „ ..													22	4·2	2·5	112	19	5·2	1·9	84				
6·0 „ ..													22	4·7	3·3	91	17	5·6	4·5	79				
7·5 „ ..													21	5·6	1·5	82	15	5·6	3·7	61				
9·0 „ ..													18	7·3	2·9	209	14	5·8	1·6	267				

Table A—Monthly mean directions and velocities of Upper winds

Winds upto 9 km. above sea level

NOVEMBER 1947

Height in km.	NAGPUR								NEW DELHI												POONA			
	0700				1600				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	0·7	0·5	9	30	1·5	1·3	45	30	0·7	0·4	314	30	9·7	0·7	277	30	2·7	2·2	335	30	0·5	0·3	233
0·15 a.s.l.	30	4·4	4·0	39	30	3·2	2·9	40	30	4·8	2·4	354	30	4·4	2·4	273	30	4·2	3·6	330	30	3·1	1·2	97
0·6 a.s.l. ..	30	4·7	4·1	81	30	3·4	2·8	45	30	4·8	3·2	343	30	4·7	3·4	309	30	4·5	4·2	320	30	1·6	0·6	177
1·0 ,, ..	30	4·5	3·9	81	30	3·1	2·7	40	30	4·8	4·2	323	30	5·2	4·7	310	30	4·8	4·6	312	30	5·6	3·3	83
1·5 ,, ..	30	4·3	3·6	60	30	3·6	3·0	33	29	6·8	6·2	312	30	7·6	7·2	316	30	6·3	6·0	308	30	7·6	6·4	84
2·0 ,, ..	30	5·2	3·8	21	30	3·9	2·2	22	17	7·6	7·0	306	28	8·5	7·8	320	30	7·0	6·5	311	30	6·5	5·8	88
2·5 ,, ..	30	6·6	4·7	359	30	5·4	3·1	352	9	9·0	8·3	307	27	9·0	8·2	318	29	7·0	6·5	309	29	5·6	4·8	94
3·0 ,, ..	30	7·4	5·0	346	30	6·2	3·3	333	4	8·5	8·3	305	21	8·4	7·5	318	27	7·2	6·5	307	27	5·5	3·7	96
3·5 ,, ..	27	5·7	2·8	327	28	7·0	4·3	309					14	8·8	8·3	310	22	7·5	6·9	310	18	6·1	1·1	359
4·0 ,, ..	24	5·7	4·0	300	26	7·5	5·5	293					3	7·5	5·9	315	12	8·6	7·4	301				
4·5 ,, ..	21	7·9	6·0	281	21	9·0	7·4	293					1	11·5	11·5	320	5	11·0	10·0	287				
5·0 ,, ..	14	10·9	9·7	262	12	14·1	12·1	284									3	14·5	14·0	258				
5·5 ,, ..	8	14·4	12·9	265	7	19·2	17·5	273									2	14·0	13·9	268				

Height in km.	POONA								PORT BLAIR								RAIPUR							
	0700				1600				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	0·4	0·6	171	30	1·2	1·0	85	30	3·2	1·9	44	30	3·5	1·8	55	30	1·7	0·5	42	30	0·7	0·7	34
0·15 a. ground	30	2·4	1·1	116	29	2·9	2·2	82	28	6·7	4·5	46	30	3·9	3·9	53	30	4·4	2·8	82	30	3·6	3·1	51
0·6 a. s. l. ..	30	1·1	0·5	116	29	1·9	1·4	85	29	6·8	4·8	55	30	6·1	3·9	45	30	4·3	3·5	69	30	4·3	3·7	67
1·0 ,, ..	30	5·7	4·8	111	29	3·1	2·1	77	29	6·8	4·8	70	26	5·5	3·6	57	30	4·2	3·7	47	30	4·7	4·2	62
1·5 ,, ..	30	7·2	6·4	100	30	3·5	2·5	76	27	6·2	4·0	65	24	4·9	2·4	61	27	4·9	4·3	26	30	4·8	4·3	40
2·0 ,, ..	30	6·1	5·2	84	30	3·7	2·3	79	23	6·2	4·8	61	23	5·0	2·5	63	22	5·0	3·9	10	29	6·4	5·3	21
2·5 ,, ..	30	5·5	3·7	82	29	4·2	2·8	77	20	5·9	4·8	64	22	4·5	2·8	65	9	5·8	4·8	333	26	6·4	4·8	12
3·0 ,, ..	30	6·1	3·1	72	28	5·2	3·2	76	20	5·2	4·3	70	19	5·1	3·5	77	6	8·0	5·8	326	24	6·2	4·8	4
3·5 ,, ..	29	6·4	2·3	8	28	6·2	1·3	18	15	4·3	2·3	33	14	4·9	3·0	47	1	3·5	3·5	275	14	4·6	3·1	335
4·0 ,, ..	28	6·4	2·3	331	26	5·8	2·3	307	14	4·7	2·5	50	11	7·2	6·1	65					14	7·2	4·9	320
4·5 ,, ..	28	6·4	3·0	309	25	6·3	2·0	296	13	4·1	2·6	42	8	4·3	3·0	57					10	8·7	7·4	320
5·0 ,, ..	23	8·9	5·8	280	19	9·1	5·6	270	9	4·1	2·3	74	4	6·1	1·9	263					7	17·2	14·7	302
5·5 ,, ..	12	9·9	8·6	252	14	13·5	11·9	252	6	5·0	2·8	119	3	7·7	1·3	284					6	23·5	23·3	284

Table A—Monthly mean directions and velocities of Upper winds

Winds upto 9 km. above sea level

NOVEMBER 1947

Height in km.	RAIPUR 1600				SAHARSA 0700				SAHARSA 1600				TEZPUR 0100				TEZPUR 0700				TEZPUR 1600		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface ..	30	1·6	1·3	38	30	0·2	Calm		30	0·7	0·5	264	30	1·3	1·3	46	30	1·0	1·0	57	30	0·9	0·8
0·15 a. ground	30	3·9	3·1	38	29	2·8	0·3	231	30	2·8	2·2	288	30	4·4	4·1	61	30	4·3	4·2	68	30	2·9	2·6
0·6 a.s.l. ..	30	3·7	3·2	37	29	2·7	1·2	320	30	2·5	1·9	289	30	3·2	2·9	83	30	4·5	4·4	86	30	2·7	2·5
1·0 „ ..	30	4·1	3·4	34	29	3·3	1·7	313	30	2·8	1·8	295	30	3·1	2·2	78	30	4·7	4·6	77	30	2·8	2·3
1·5 „ ..	30	4·1	3·5	35	30	4·8	2·1	326	30	3·7	1·4	292	30	3·3	1·1	94	30	4·2	3·8	73	30	3·6	1·9
2·0 „ ..	28	4·8	3·8	19	30	5·5	1·9	345	30	5·4	2·0	299	30	3·9	0·4	103	30	4·3	2·3	82	30	4·7	1·5
2·5 „ ..	25	6·2	3·9	2	29	6·4	1·8	322	29	6·5	3·3	300	29	4·8	0·6	64	30	4·6	2·2	83	30	5·0	1·5
3·0 „ ..	23	6·8	4·5	335	28	8·4	3·9	302	29	7·3	4·4	296	28	4·6	0·1	223	30	4·4	0·8	37	30	4·7	1·6
4·0 „ ..	18	7·7	5·1	311	18	11·1	8·8	286	25	11·4	9·9	285	17	6·0	3·5	248	25	7·2	5·1	267	29	8·5	7·3
5·0 „ ..	14	9·0	7·3	296	6	12·7	10·9	292	16	12·4	11·6	285					20	12·0	10·5	270	27	13·6	12·7
6·0 „ ..	13	11·6	10·1	289	2	15·0	13·3	289	6	11·3	10·9	276					20	14·6	13·6	276	26	17·9	17·2
7·5 „ ..	12	14·2	12·5	282													12	19·5	18·1	273	18	24·0	22·5
9·0 „ ..	10	18·8	17·6	281													8	22·9	22·1	270	9	27·1	24·0

Height in km.	TRICHINOPOLY 0100				TRICHINOPOLY 0700				TRICHINOPOLY 1600				TRIVANDRUM 0700				UDAIPUR 0100				UDAIPUR 0700		
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface ..	30	1·9	1·3	43	30	1·7	1·2	6	30	2·8	2·0	62	30	1·5	1·2	38	30	0·2	0·2	253	30	0·2	0·2
0·15 a.ground	30	6·6	5·0	45	30	5·3	4·3	10	30	4·7	3·7	60	30	2·5	1·5	41	30	2·1	1·2	46	30	2·1	1·4
0·6 a. s. l. ..	30	9·2	7·3	54	30	7·4	6·0	41	30	5·5	4·6	47	30	2·7	0·6	45							
1·0 „ ..	30	8·1	7·3	52	30	7·3	6·2	52	30	5·7	4·6	39	30	2·7	1·3	73	30	3·2	1·9	84	30	3·1	2·1
1·5 „ ..	29	6·9	5·7	37	30	6·8	5·6	49	30	6·6	5·4	34	30	3·5	2·1	57	30	3·2	1·3	59	30	3·4	2·0
2·0 „ ..	26	6·5	4·1	22	29	6·8	4·7	39	27	6·8	4·6	25	30	4·3	2·6	50	30	3·5	0·9	43	30	4·1	1·7
2·5 „ ..	24	7·2	4·5	6	28	7·3	4·3	31	25	7·5	4·4	9	30	4·8	2·3	50	30	4·4	1·0	344	30	5·1	1·9
3·0 „ ..	23	6·3	3·9	355	27	7·7	2·7	34	24	7·2	3·5	350	29	4·8	2·1	76	25	4·3	1·1	298	30	5·9	2·4
4·0 „ ..	11	4·9	1·4	329	23	5·2	1·4	89	23	5·0	1·1	279	26	4·4	1·8	97					26	5·9	3·8
5·0 „ ..	4	4·0	2·9	78	21	5·0	3·2	93	19	4·2	1·2	199	23	4·1	2·6	117					15	7·4	4·7
6·0 „ ..					16	4·2	1·3	98	17	3·7	2·0	60	22	4·7	3·7	88					10	10·4	8·8
7·5 „ ..					15	4·7	0·5	265	14	5·6	2·0	15	12	4·2	1·0	40							
9·0 „ ..					10	6·2	1·1	245	10	6·3	1·9	189	7	5·9	1·3	261							

Table A—Monthly mean directions and velocities of Upper winds

Winds upto 9 km. above sea level

NOVEMBER 1947

Height in km.	UDAIPUR				VENGURLA												VERAVAL							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	30	0·8	0·4	51	30	0·2	0·2	24	30	0·4	0·4	13	10	2·9	1·8	261	4	3·0	2·2	8	8	3·3	2·8	14
0·15 a. ground	28	2·6	1·1	52	30	3·8	3·1	17	30	3·3	2·5	63	30	3·7	2·6	262	4	2·9	2·1	18	8	6·0	4·2	21
0·6 a. s. l. ..					30	4·9	2·9	21	30	5·2	3·4	87	30	2·8	1·3	58	4	5·3	4·3	41	8	3·4	2·1	49
1·0 „ ..	28	2·5	1·1	54	30	5·1	2·2	62	30	5·9	4·1	89	30	3·8	2·9	67	4	6·9	5·9	60	8	3·8	2·7	102
1·5 „ ..	28	2·8	1·0	28	28	5·7	4·5	73	30	5·3	4·2	74	29	5·2	4·8	73	4	5·5	5·1	71	8	4·7	2·6	145
2·0 „ ..	30	2·9	1·4	79	23	6·3	5·7	75	29	4·7	3·7	68	29	5·7	5·1	70	4	3·9	3·8	84	8	6·0	4·7	163
2·5 „ ..	30	3·7	1·9	340	16	5·9	5·2	77	29	5·0	3·6	78	30	5·6	4·6	75	4	5·7	5·5	97	8	5·6	3·1	143
3·0 „ ..	29	4·3	2·3	308	10	5·5	4·9	96	29	4·6	3·5	83	29	4·9	3·3	67	2	6·7	6·5	75	8	5·7	0·3	85
4·0 „ ..	28	7·3	4·9	293					27	5·6	1·8	61	25	4·6	1·5	40					8	6·3	3·3	273
5·0 „ ..	24	8·9	6·3	294					21	4·7	0·9	339	22	5·5	2·0	46					8	8·4	7·1	267
6·0 „ ..	21	11·6	9·9	278					15	4·9	1·6	320	20	5·9	1·1	67					8	9·7	8·4	262
7·5 „ ..	9	19·2	18·3	262					5	10·0	6·4	291	16	9·8	1·8	239					7	10·6	8·9	274
9·0 „ ..	1	13·0	13·0	265					3	14·0	9·6	258	11	12·9	4·5	222					3	13·2	10·9	256

Height in km.	VERAVAL				VIZAGAPATAM											
	1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface ..	8	5·2	3·9	229	30	1·1	0·7	338	30	1·2	0·6	339	30	2·3	2·1	73
0·15 a. ground	8	5·9	4·1	204	27	3·9	3·2	36	30	4·8	4·1	16	30	5·6	5·3	73
0·6 a. s. l. ..	8	3·3	1·8	189	26	4·8	4·4	65	30	5·7	5·4	56	30	6·2	5·6	51
1·0 „ ..	8	2·6	0·4	121	27	4·9	4·7	58	29	6·1	5·6	50	30	5·6	4·9	31
1·5 „ ..	8	3·7	1·0	20	28	5·9	5·2	33	28	6·5	5·6	48	30	6·1	4·7	17
2·0 „ ..	8	5·7	2·1	41	27	6·3	4·1	23	28	6·5	4·4	49	28	6·2	4·2	14
2·5 „ ..	8	6·9	2·5	58	26	5·9	3·4	14	28	6·1	3·8	29	27	5·9	4·1	13
3·0 „ ..	8	7·8	1·6	84	19	4·9	2·8	357	27	5·7	3·1	12	27	5·0	2·9	23
4·0 „ ..	8	7·1	2·8	280	7	4·6	2·4	278	25	5·1	2·3	344	23	4·7	1·9	317
5·0 „ ..	8	8·7	6·8	255					24	4·9	2·1	325	24	5·0	2·5	286
6·0 „ ..	8	9·3	8·6	255					23	6·4	3·5	294	23	6·8	4·6	288
7·5 „ ..	6	12·3	10·6	261					18	12·9	11·1	266	11	13·0	10·4	277
9·0 „ ..	1	24·0	24·0	245					13	19·3	17·7	260	6	21·5	20·4	259

Table B—Monthly mean directions and velocities of Upper winds

Winds above 9 km. above sea level

NOVEMBER 1947

AHMEDABAD

Height (Km)	n	V	v	D
10·0	3	16·7	16·7	263
11·0	2	13·0	12·8	270
12·0	2	20·0	19·8	255
13·0	1	23·0	23·0	250

BHOPAL

Height (Km)	n	V	v	D
10·0	2	21·3	2·3	141
11·0	1	24·5	24·5	80
12·0	1	34·0	34·0	70

BALASORE

Height (Km)	n	V	v	D
10·0	3	30·0	29·0	263

BANGALORE

Height (Km)	n	V	v	D
10·0	5	8·2	4·4	176
11·0	3	10·7	6·3	156
12·0	3	14·0	9·8	160
13·0	3	22·3	12·8	170
14·0	2	17·0	16·9	131
15·0	1	15·0	15·0	120

BAREILLY

Height (Km)	n	V	v	D
10·0	3	36·0	35·1	285
11·0	2	35·0	34·9	294
12·0	1	41·0	41·0	290

HYDERABAD (Dn.)

Height (Km)	n	V	v	D
10·0	2	16·0	16·0	279
11·0	1	5·5	5·5	315
12·0	1	13·0	13·0	325

COCHIN

Height (Km)	n	V	v	D
10·0	3	9·7	4·1	217
11·0	3	11·0	2·7	163
12·0	3	9·8	3·1	222
13·0	2	8·5	7·1	107

COOCH BEHAR

Height (Km)	n	V	v	D
10·0	2	32·7	32·6	242
11·0	2	42·7	42·7	237
12·0	1	56·5	56·5	235

CUTTACK

Height (Km)	n	V	v	D
10·0	4	22·1	20·8	270
11·0	1	6·0	6·0	230
12·0	1	15·0	15·0	180

DEOLALI

Height (Km)	n	V	v	D
10·0	4	24·9	24·7	252
11·0	3	23·7	22·2	249

POONA

Height (Km)	n	V	v	D
10·0	10	18·5	15·5	248
11·0	6	17·4	14·4	241
12·0	2	24·3	24·1	243
13·0	1	35·5	35·5	235

PORT BLAIR

Height (Km)	n	V	v	D
10·0	2	8·0	2·5	170
11·0	2	9·3	1·2	198
12·0	1	19·5	19·5	115

RAIPUR

Height (Km)	n	V	v	D
10·0	8	22·5	21·7	278
11·0	6	23·6	22·0	284
12·0	3	27·8	22·9	269
13·0	2	28·5	16·9	262
14·0	1	45·0	45·0	310
15·0	1	56·5	56·5	315

TEZPUR

Height (Km)	n	V	v	D
10·0	7	34·8	32·7	267
11·0	5	38·9	36·7	274
12·0	1	30·0	30·0	290
13·0	1	40·0	40·0	275
14·0	1	52·0	52·0	280

TRICHINOPOLY

Height (Km)	n	V	v	D
10·0	7	10·4	5·0	221
11·0	6	10·7	6·7	189
12·0	3	12·8	8·7	168
13·0	2	15·3	13·4	127
14·0	2	18·5	17·3	133
15·0	1	31·0	31·1	125

TRIVANDRUM

Height (Km)	n	V	v	D
10·0	4	7·3	5·0	123
11·0	1	2·5	2·5	150

VENGURLA

Height (Km)	n	V	v	D
10·0	9	15·5	6·0	243
11·0	6	16·3	9·7	214
12·0	3	19·8	15·6	228
13·0	2	17·0	14·5	258
14·0	2	10·5	8·0	254
15·0	1	24·0	24·0	265

VIZAGAPATAM

Height (Km)	n	V	v	D
10·0	4	26·3	25·8	253

H3 DGOb—325—10-11-52—GIPS

Registered No. B-3097.

INDIA WEATHER REVIEW, 1947

Monthly Weather Report

December

LIBRARY
MAY 1 1953
WEATHER BUREAU

Published by authority of the Government of India

Chief features.—(i) The formation of a cyclonic storm and a depression in the Bay of Bengal and their movement across the country and (ii) deficiency of precipitation in Western Pakistan owing to feeble activity of the western disturbances.

Ten western disturbances of varying degree of activity affected northwest India during the month. Among these, the second disturbance which was over Baluchistan on the 3rd induced a secondary 'low' off the Mekran-Sind coast on the same day. Both then moved northeastwards and caused local or nearly general precipitation in Baluchistan on the 5th and 6th and in the North-West Frontier Province and the Punjab on the 6th. In association with the third disturbance which approached the North-West Frontier Province on the 6th and moved northeastwards, fairly well-distributed rain and snow occurred in Kashmir between the 6th and 8th. The next three disturbances were feeble and did not cause appreciable precipitation. The seventh lay over Baluchistan on the 18th and moved away across Kashmir on the 19th, inducing a secondary 'low' off the Sind coast. They were responsible for widespread rain in west Central India on the 19th and 21st and in the east Punjab between the 21st and 23rd and local rain in Kashmir on the 22nd and in east Rajputana and the United Provinces on the 22nd and 23rd with extension of rainfall on these dates into the east Central Provinces and Chota Nagpur. The eighth disturbance followed close upon the previous one and caused local precipitation in Kashmir on the 23rd and 24th. The ninth disturbance did not cause any appreciable precipitation. The tenth disturbance lay over north Baluchistan and the North-West Frontier Province on the 26th and moved through the Punjab and Kashmir during the next two days. It induced a shallow 'low' over the Punjab on the 27th, which remained there without any appreciable movement till the 30th and caused scattered thundershowers in the east Punjab and Kashmir between the 28th and 30th.

Weather was disturbed over the southwest Bay of Bengal to the east of Ceylon during the first ten days of the month. A low pressure wave moved westwards across the south Andaman Sea and the neighbourhood on the 8th and the south Bay of Bengal on the 9th. In association with this, a depression formed in the southeast Bay of Bengal on the 10th with its central region at 1700 hrs. I.S.T. within a degree of Lat. 7½° N, Long. 92½° E. It developed rapidly into a deep depression and was centred near Lat. 7½° N, Long. 91½° E at 0800 hrs. I.S.T. on the 11th. Moving northwestwards and simultaneously intensifying into a cyclonic storm, it lay with its centre, about 300 miles southeast of Madras on the 13th morning. Weakening rapidly thereafter, it lay as a depression 50 miles southeast of Masulipatam at 0800 hrs. I.S.T. on the 15th and became unimportant the same evening. It was responsible for widespread rain with isolated heavy falls along the Coromandel-Circars and Orissa coasts and local precipitation in the Madras Deccan, south Hyderabad, Chota Nagpur and southwest Bengal between the 14th and 16th and widespread and locally heavy rain along the Circars coast on the following day. According to newspaper reports, the heavy rain and high winds associated with this storm caused considerable damage to the paddy and other standing crops in the Bandar, Divi and Kaikulur talukas in the north Madras Coast.

Conditions were again disturbed in the southwest Bay of Bengal and the neighbourhood between the 15th and 19th, well distributed rainfall occurring in the Peninsula during this period. The unsettled conditions concentrated into a depression centred near Lat. 9° N, Long. 86° E, at 1700 hrs. I.S.T. on the 19th. It then intensified into a deep depression with its centre within a degree of Lat. 11° N, Long. 86° E on the following morning. Weakening thereafter as it moved northwestwards, it lay near Lat. 15° N, Long. 83° E at 0800 hrs. I.S.T. on the 21st. It subsequently moved northeastwards as a low pressure area and became unimportant on the 23rd. It caused widespread and locally heavy rain along the north Coromandel coast on the 21st, along the Circars coast between the 20th and 23rd and along the Orissa coast between the 22nd and 24th. Due to its re-curvature towards the northeast, rainfall extended to south Bengal between the 22nd and 24th.

The seasonal trough of low pressure in the southwest Bay of Bengal became more marked on the last day of the month and caused local showers among the north Coromandel and south Circars coasts on that day.

Night temperatures were appreciably below normal in most parts of the country outside the south of the Peninsula and the northwest frontier on most days during the first half of the month and markedly below normal in the extreme north of the country, in Rajputana, Sind and west Central India on most days during the second week. The incursion of moist air into the country in association with the Bay depression was responsible for unusually high night temperatures in most parts of the country outside northwest India between the 20th and 24th. Thereafter the minimum temperatures fell and remained appreciably below normal in the Peninsula, Gujarat and the Central Provinces.

The total rainfall of the month was in moderate to large excess in northeast India outside Bihar, in the east Punjab, east Rajputana, west Central India, Berar, the east Central Provinces and the Peninsula outside Mysore and southeast Madras, and in slight excess in Mysore. It was normal in west Rajputana and in slight to moderate defect in the Bay Islands, the west United Provinces and the west Central Provinces, elsewhere it was in large defect except in Gujarat where no rain fell. Averaged over the plains of India the month's rainfall was 53% in excess.

The maximum temperature was normal except in Assam, Bihar and east Central India where it was in excess. The minimum temperature was above normal in West Bengal, Orissa, Chota Nagpur, west Central India, Berar, the Central Provinces and north Hyderabad and normal elsewhere. Relative humidity was in excess in Orissa, the west United Provinces, the east Punjab, Rajputana, Gujarat, west Central India, Berar and south Hyderabad. Cloud amount was in defect in the east Punjab, east Rajputana, Gujarat and the Konkan and normal in the west United Provinces, west Rajputana, Central India, Berar, the Bombay Deccan, Hyderabad, Mysore and southeast Madras. Elsewhere it was in excess.

Data from Kashmir are absent.

Table I contains the divisional and sub-divisional means of rainfall, temperature and 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.

N.B.—The Indian Standard Time used in this publication is 5 hrs. 30 mins. in advance of G. M. T.

Poona 5;
Dated the 1st April 1948.

S. BASU
for Director General of Observatories.

	Rainfall.				Departure from normal of				
							8 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	0·49	0·28	+0·21	+75	+2·0	+1·9	+0·8	−3	+0·6
West Bengal	1·05	0·15	+0·90	+600	+0·8	+2·3	+0·7	+1	+1·4
Orissa	4·15	0·22	+3·93	+1786	−1·1	+2·5	+1·4	+6	+2·6
Bihar	0·31	0·18	+0·13	+72	+1·6	+1·7	+0·6	+1	+1·2
United Provinces	0·17	0·40	−0·23	−57	+1·4	+0·9	+0·4	+4	+0·2
East Punjab	0·85	0·57	+0·28	+49	+0·4	+1·0	+1·1	+8	−0·5
Rajputana	0·37	0·17	+0·20	+118	+1·0	+1·3	+1·5	+10	−0·3
Sub-Division									
1. Bay Islands	6·44	7·92	−1·28	−16	+0·8	+1·4	+0·7	+2	+1·3
2. Assam	0·49	0·28	+0·21	+75	+2·0	+1·9	+0·8	−3	+0·6
3. West Bengal	1·05	0·15	+0·90	+600	+0·8	+2·3	+0·7	+1	+1·4
4. Orissa	4·15	0·22	+3·93	+1786	−1·1	+2·5	+1·4	+6	+2·6
5. Chota Nagpur	0·80	0·24	+0·56	+233	+0·6	+2·1	+1·1	+3	+1·3
6. Bihar	0·06	0·15	−0·09	−60	+2·5	+1·5	+0·2	−1	+1·2
7. United Provinces, East.	0·08	0·30	−0·22	−73	+1·5	+1·0	+0·1	+2	+0·5
8. United Provinces, West.	0·26	0·50	−0·24	−48	+1·3	+0·7	+0·7	+7	−0·1
9. East Punjab	0·85	0·57	+0·28	+49	+0·4	+1·0	+1·1	+8	−0·5
10. Kashmir	Data incomplete								
11. Rajputana, West	0·12	0·13	−0·01	−8	+0·7	+1·1	+1·5	+9	0
12. Rajputana, East	0·63	0·21	+0·42	+200	+1·2	+1·5	+1·5	+10	−0·7
13. Gujarat	0	0·07	−0·07	−100	+0·5	+0·8	+0·9	+8	−0·7
14. Central India, West	0·41	0·27	+0·14	+52	+1·9	+2·3	+1·3	+11	+0·2

	Rainfall.				Departure from normal of				
							8 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. Bombay	0·32	0·18	+0·14	+78	+0·6	+1·0	+0·7	+5	−0·4
9. Central India	0·31	0·32	−0·01	−3	+2·4	+1·7	+1·0	+7	0
10. Central Provinces and Berar.	0·53	0·36	+0·17	+47	+1·0	+2·8	+1·0	+3	+1·0
11. Hyderabad	0·42	0·21	+0·21	+100	−1·1	+1·7	+1·1	+6	+0·3
12. Mysore	0·59	0·50	+0·09	+18	−0·7	+1·1	+0·3	+2	+0·5
13. Madras	2·19	2·51	−0·32	−13	+0·4	+1·1	+0·4	+1	+1·0
Mean of India	0·84	0·55	+0·29	+53	+0·7	+1·6	+0·9	+4	+0·5
Sub-Division—*contd.*									
15. Central India, East.	0·17	0·39	−0·22	−56	+3·0	+0·9	+0·6	+2	−0·2
16. Berar	1·09	0·49	+0·60	+122	+0·3	+2·1	+0·9	+7	0
17. Central Provinces, West.	0·39	0·44	−0·05	−11	+1·9	+2·2	+0·5	+1	+0·8
18. Central Provinces, East.	0·48	0·21	+0·27	+129	+0·2	+3·8	+1·7	+4	+1·6
19. Konkan	0·29	0·23	+0·06	+26	+1·3	+1·0	+0·4	0	−0·6
20. Bombay Deccan	0·68	0·28	+0·40	+143	+0·4	+1·2	+0·5	+3	+0·1
21. Hyderabad, North.	0·35	0·23	+0·12	+52	−1·0	+2·4	+0·6	+5	+0·2
22. Hyderabad, South	0·48	0·20	+0·28	+140	−1·1	+1·3	+1·5	+7	+0·4
23. Mysore	0·59	0·50	+0·09	+18	−0·7	+1·1	+0·3	+2	+0·5
24. Malabar	1·78	1·40	+0·38	+27	+0·9	+0·9	+1·1	+1	+0·8
25. Madras, South-East.	0·95	4·55	−3·60	−79	+1·3	+1·1	−0·2	−1	+0·6
26. Madras Deccan	1·06	0·33	+0·73	+221	−0·7	+1·6	+0·1	−1	+0·8
27. Madras Coast, North.	5·90	1·06	+4·84	+457	−0·9	+1·0	+1·3	+5	+2·1

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2·30 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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 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	261	1003·8	−0·2	1001·2	84·4	+0·8	87	1,2	74·3	+1·4	70	26,28	80·7	78·1	75·0	73·7	27·2	+0·7	26·3	76	+2	8
Assam																						
Dibrugarh	348	1004·6	−1·6	1000·5	77·2	+3·2	81	20	51·9	+0·8	44	28,29	56·9	69·3	55·7	65·5	14·7	−0·4	19·5	92	−2	8
Sibsagar	317	1006·6	−0·7	1002·9	76·0	+3·8	79	5 days	53·0	+2·1	45	4 days.	58·9	68·4	58·4	65·7	16·5	+1·1	20·4	97	0	8
Tezpur	258	1009·1	−0·4	1004·3	77·9	+2·7	80	7 days	54·6	+0·5	47	28	59·6	70·3	57·7	64·8	15·4	0	18·5	88	−3	7
Gauhati	182	1011·0	−0·5	1006·8	77·0	+1·4	83	9	55·8	+3·2	49	28,30,31	61·3	71·1	59·5	64·6	16·5	+0·6	17·9	90	−2	6
Dhubri	115	1013·0	−0·7	1009·5	74·7	+0·6	78	8,11,25	58·5	+2·8	55	28,29,30	61·3	72·0	59·9	64·7	16·9	+1·1	17·5	92	+6	6
Silchar	96	1013·3	−0·9	1009·7	80·2	+0·4	86	14	58·5	+3·8	50	27	62·0	74·5	60·4	67·2	17·3	+1·0	19·4	91	+5	6
West Bengal																						
Dum Dum	33	1015·3	..	1012·3	78·8	..	86	21	57·2	..	49	26	64·8	73·1	59·4	62·9	14·8	..	15·1	71	..	5
Calcutta	21	1015·9	−0·9	1012·7	79·4	0	86	3	58·6	+3·6	51	26	62·7	72·3	59·5	64·1	16·1	+1·4	16·5	82	+2	6
Saugor Island	10	1015·7	−1·2	1012·9	76·7	−0·2	83	24	62·9	+3·7	57	27	67·7	72·7	62·6	64·5	17·1	−0·2	17·8	73	−7	6
Sandheads	28	1015·7	−0·5	1013·0	..	..	..	..	..	..	..	..	73·8	75·6	71·1	71·6	24·9	+6·8	24·6	86	+25	8
Midnapore	149	1011·3	−1·0	1008·1	79·0	−0·8	86	3	57·6	+2·1	50	27	63·9	75·1	58·9	63·4	14·7	+1·7	14·7	72	+6	5
Burdwan	106	1013·2	−0·8	1009·7	79·0	+0·1	85	3	57·3	+1·4	50	26	63·3	75·9	58·8	64·4	14·9	+1·5	15·4	73	+2	5
Krishnagar	48	1014·7	−1·3	1012·2	80·4	+1·7	86	4	55·4	+2·3	48	26	59·8	75·8	57·5	65·2	15·0	+0·6	16·5	86	+9	5
Asansol	414	1002·2	−0·8	999·1	78·4	−0·2	85	3	55·4	+2·0	48	26	61·6	73·0	57·2	62·6	13·9	+1·0	14·6	74	+4	5
Berhampore	62	1014·4	−1·2	1011·1	80·3	+3·2	85	4	57·0	+1·9	50	26	62·8	73·8	58·5	64·5	14·7	+0·1	16·5	75	−4	5
Malda	103	1013·4	−0·9	1009·9	77·4	+1·6	81	4	55·4	+2·9	50	29	63·9	72·3	58·8	63·9	14·7	+0·5	16·4	73	−3	6
Jalpaiguri	271	1007·3	−0·8	1003·7	98·7	+2·0	82	1,13	54·1	+0·9	46	30	56·8	73·7	55·1	64·1	14·1	−0·4	16·1	89	+2	5
Orissa																						
Balasore	65	1014·4	−1·0	1011·2	79·0	−1·0	87	3	58·7	+3·0	53	8,11	66·0	72·4	60·4	64·3	15·5	+1·4	16·9	72	−1	6
Chandbali	20	1015·7	−0·7	1013·0	79·4	−0·9	88	3	59·7	+1·9	53	6,11,12	64·8	73·6	61·4	65·2	17·0	+1·1	17·4	82	+4	6
Puri	20	1015·6	−0·8	1012·8	79·6	−0·9	88	4	64·0	+1·5	59	26	67·3	75·1	63·1	66·8	17·9	+0·9	18·6	78	+3	6
Gopalpur	56	1014·0	−1·2	1011·2	78·6	−1·8	87	5	63·1	+2·1	58	7	67·0	74·9	63·7	68·2	18·6	+1·5	20·6	81	+6	6
Cuttack	87	1013·2	−1·4	1010·2	79·9	−1·3	89	4	61·4	+2·7	56	4 days	64·8	75·8	61·6	65·9	17·4	+1·7	17·2	82	+4	5
Angul	455	1000·5	−0·8	997·5	78·2	−1·8	85	3,4	58·8	+3·8	51	6	63·0	75·0	59·4	63·1	15·7	+1·3	14·3	80	+5	5
Sambalpur	486	999·6	−1·1	996·4	80·6	+0·4	88	4	56·9	+3·1	48	7,26	61·7	76·7	59·1	65·6	16·0	+1·9	16·5	88	+12	5
Chota Nagpur																						
Jamshedpur	423	1002·1	−0·7	998·7	78·7	−1·1	85	3	55·1	+3·6	48	7,26	60·3	74·3	56·7	62·4	14·1	+1·3	13·9	79	+1	4
Chaibasa	742	990·7	−0·8	987·4	79·3	+1·1	87	4	55·3	+3·7	48	26	59·7	75·3	56·6	63·4	14·3	+1·1	14·5	81	+2	5
Ranchi	2,150	942·0	−0·8	940·1	73·8	+0·9	79	3,4	51·4	+0·8	45	5days	58·1	68·5	53·4	58·5	11·9	+1·7	12·4	72	+11	5
Hazaribagh	2,006	947·4	−0·4	945·0	73·4	+1·0	80	23	50·1	+0·1	43	7,27	58·5	66·2	52·7	56·3	11·0	+0·7	11·1	68	+4	5
Daltonganj	725	992·0	−0·7	988·4	77·7	+1·3	83	4	48·6	+2·1	41	13	56·5	73·0	53·2	61·7	12·3	+0·8	13·6	80	−2	5
Dhanbad	839	987·7	..	..	..	..	..	..	53·8	..	48	7,26,27	62·9	..	56·0	..	12·1	..	..	62	..	..
Bihar																						
Purnea	124	1012·6	−1·0	1009·2	79·5	+3·2	83	4	51·0	+1·5	44	26	57·7	71·1	55·5	64·8	14·1	+0·5	18·0	86	−2	6
Darbhanga	161	1011·6	−0·7	1008·2	77·7	+1·3	81	7,22	51·3	−0·5	47	26,27,28	55·7	72·4	54·2	63·4	13·7	−0·4	15·9	90	+4	5
Motihari	218	1009·8	−0·4	1005·9	..	..	..	..	49·5	+1·4	44	18	59·6	68·5	56·4	62·1	14·2	+0·8	16·1	81	−2	6
Patna	173	1011·0	−1·0	1008·0	77·4	+2·8	83	3	54·0	+1·7	48	26	60·3	71·7	54·8	61·0	12·2	−0·5	13·6	68	−5	5
Dehri	352	1004·9	..	1001·5	77·3	..	83	4	53·6	..	47	13	59·5	73·7	55·0	60·5	12·8	..	12·1	73	..	4
Gaya	365	1004·1	−0·6	1001·1	77·9	+3·3	84	4	51·4	+2·8	46	13	58·3	72·3	53·5	59·6	11·7	+0·8	11·8	71	+1	4
Naya Dumka	489	999·1	−1·4	996·1	79·3	+2·9	85	31	53·6	+2·0	47	26	60·1	73·9	55·6	62·0	13·1	+0·4	13·6	71	+2	4
Sabour	122	1012·7	−0·7	1009·3	77·1	+1·4	82	4,23	49·3	+1·4	44	12,18,26	59·1	69·7	55·7	63·4	13·6	+0·2	17·0	80	−5	6

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION.
											8 hrs. I. S.T.										17 hrs. I. S.T.									
Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
6·5	+1·3	7·5	6·64	−1·28	1·74	11	8	+0·8	9·8	+0·7	2	16	11	2	0	0	0	0	0	1	16	11	3	0	0	0	0	0	Port Blair
																													Assam
2·7	−0·6	2·3	0·43	−0·20	0·43	25	1	−0·4	1·0	+0·5	0	5	20	0	2	0	1	0	3	0	1	3	0	0	0	5	0	22	Dibrugarh
8·8	+1·4	3·0	1·36	+0·78	0·67	25	2	+0·5	1·2	+0·2	5	7	2	1	2	5	0	0	9	6	2	1	0	0	1	0	2	19	Sibsagar
1·9	−0·6	0·8	0·45	+0·20	0·45	25	1	+0·3	1·3	−0·1	2	13	9	1	0	0	1	0	5	2	6	5	0	0	0	1	0	17	Tezpur
4·7	+2·3	2·0	0·29	+0·13	0·29	25	1	+0·5	2·0	+0·9	7	4	4	3	6	1	0	0	6	0	10	1	2	0	1	1	1	15	Gauhati
1·8	+0·2	1·4	0	−0·07	0	..	0	−0·1	3·5	0	0	6	9	3	0	0	0	0	13	1	17	5	3	0	0	0	0	5	Dhubri
4·2	+1·7	2·9	1·73	+1·31	1·54	24	1	+0·3	0·9	0	0	4	8	6	2	4	1	1	5	0	2	1	0	1	3	0	1	23	Silchar
																													West Bengal
3·5	..	3·2	0·93	..	0·66	23	3	..	..	..	8	2	1	0	0	0	0	8	12	7	1	0	1	0	0	0	12	10	Dum Dum
3·5	+1·8	3·4	1·05	+0·87	0·83	23	2	+1·7	1·4	−0·5	7	0	0	0	0	0	0	7	17	4	0	0	0	0	0	0	4	23	Calcutta
3·4	+1·0	3·6	4·02	+3·81	3·62	23	3	+2·6	7·3	+1·8	13	6	3	0	0	0	1	8	0	15	3	1	1	0	2	1	7	1	Saugor Island
4·1	+1·8	3·8	3·70	+3·55	2·57	23	3	+2·7	..	..	12	12	0	1	0	0	0	5	1	8	12	0	0	1	1	0	3	6	Sandheads
3·0	+1·4	3·5	2·02	+1·86	1·14	23	3	+2·7	2·4	+1·0	10	15	0	0	0	0	0	3	3	12	10	1	1	0	0	0	1	6	Midnapore
2·8	+1·1	3·0	1·06	+0·87	0·42	23	3	+2·7	1·5	+0·3	8	1	1	0	0	1	4	8	8	9	0	2	1	0	0	1	5	13	Burdwan
3·3	+1·7	3·1	0·97	+0·86	0·58	15	3	+2·8	0·6 (g)	−0·5	1	0	0	0	0	0	0	2	28	2	0	0	0	0	0	0	2	27	Krishnagar
2·7	+1·0	2·9	1·00	+0·82	0·86	15	2	+1·6	3·8	+0·5	1	1	0	0	0	0	10	14	5	2	0	1	1	1	0	3	11	12	Asansol
3·0	+1·3	2·9	0·50	+0·34	0·42	15	1	+0·6	0·5	−0·4	0	1	0	0	0	0	3	4	23	1	0	0	0	1	0	0	0	29	Berhampore
2·6	+1·8	2·2	0·08	+0·01	0·08	15	0	−0·2	2·9	+0·1	6	2	1	1	1	3	0	12	5	2	0	0	0	0	1	3	15	10	Malda
2·4	+1·2	2·5	0	−0·17	0	..	0	−0·4	1·9	+1·1	18	4	0	0	0	0	1	1	7	0	0	1	1	0	3	2	0	24	Jalpaiguri
																													Orissa
4·3	+2·4	4·3	4·45	+4·29	3·10	23	4	+3·7	1·7	+0·1	12	2	0	0	0	0	0	12	5	1	0	0	0	0	0	0	0	30	Balasore
3·9	+1·8	4·1	4·60	+4·57	1·95	23	5	+4·9	3·5	+0·2	13	1	0	0	0	0	3	12	2	5	12	10	3	0	0	1	0	0	Chandbali
5·0	+3·2	5·4	5·30	+5·06	1·56	23	6	+5·6	6·9	+1·1	22	6	0	0	0	0	0	3	0	3	8	1	12	4	1	0	2	0	Puri
5·7	+3·9	5·7	9·31	+8·78	3·20	22	6	+5·3	6·5	+0·4	18	1	0	0	0	0	0	12	0	9	3	12	6	0	0	0	1	0	Gopalpur
4·3	+2·0	4·7	3·78	+3·55	1·90	23	4	+3·6	2·6	+1·7	2	4	4	0	0	0	6	1	14	1	4	5	0	0	0	1	1	19	Cuttack
4·6	+2·6	4·8	1·34	+1·20	0·44	23	4	+3·6	3·2	+0·2	0	0	1	0	0	0	10	12	8	7	3	3	2	1	2	1	7	5	Angul
3·9	+2·2	4·2	0·56	+0·39	0·32	14	2	+1·7	2·3	+0·4	7	9	1	1	0	0	0	0	13	3	11	2	4	0	0	1	2	8	Sambalpur
																													Chota Nagpur
3·0	+1·0	3·3	0·91	+0·68	0·40	15	3	+2·6	2·2	+0·7	1	1	1	2	0	1	14	3	8	5	1	1	7	0	0	3	4	10	Jamshedpur
4·0	+2·1	3·5	0·78	+0·60	0·41	16	2	+1·6	0·9	−0·2	0	1	0	0	0	12	0	0	18	3	5	0	0	0	2	0	2	19	Chaibasa
2·1	+1·0	2·5	1·33	+1·06	1·18	15	2	+1·4	2·1	−0·8	5	0	0	0	0	0	1	3	22	7	0	1	0	0	0	0	3	20	Ranchi
3·1	+1·5	3·1	0·79	+0·52	0·74	15	1	+0·5	4;4	−0·1	2	1	3	0	2	2	5	8	8	5	0	1	2	2	0	0	17	4	Hazaribagh
2·3	+1·1	2·4	0·21	−0·04	0·21	15	1	+0·5	1·1	−0·4	0	0	2	4	1	0	1	0	23	5	0	0	0	0	0	6	3	17	Daltonganj
..	..	..	1·54	..	1·52	16	1	..	4·5	..	2	3	1	0	0	2	7	6	10	..	..	..	..	..	..	..	..	..	Dhanbad
																													Bihar
1·9	+0·8	1·4	0	−0·12	0	..	0	−0·3	1·4	+0·3	0	3	3	0	0	5	3	1	16	0	1	0	0	0	1	1	0	28	Purnea
2·4	+1·3	2·0	0	−0·12	0	..	0	−0·3	0·5	−0·6	0	2	1	0	1	2	10	1	14	0	0	0	0	0	1	5	0	25	Darbhanga
2·3	+0·8	1·4	0	−0·15	0	..	0	−0·4	1·2	−0·1	3	1	4	0	0	0	5	2	16	0	0	0	0	0	0	4	0	27	Motihari
2·8	+1·6	2·3	0	−0·22	0	..	0	−0·5	2·6	+0·9	0	2	0	4	3	4	9	2	7	1	1	0	0	0	0	9	6	14	Patna
1·9	..	2·1	0	−0·16	0	..	0	−0·5	2·3	..	0	0	0	2	3	13	1	4	8	3	6	1	1	0	0	0	14	6	Dehri
2·6	+1·3	2·2	0	−0·18	0	..	0	−0·4	3·3	+0·2	0	0	2	2	15	0	0	0	12	4	5	0	0	0	1	1	11	9	Gaya
2·3	+1·2	2·6	0·62	+0·49	0·42	15	2	+1·7	1·6	+0·5	0	2	0	2	0	9	0	7	11	0	2	0	2	0	12	0	10	5	Naya Dumka
2·4	+0·8	2·3	0	−0·12	0	..	0	−0·1	2·1	−0·6	1	3	0	0	4	12	4	1	6	2	0	0	0	0	0	6	7	16	Sabour

(g) Mean of 24 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2·30 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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 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
U. P., East																						
Gonda	360	1004·5	..	1001·7	76·0	+0·2	81	4 days	47·7	0	41	18	52·0	69·0	50·4	60·2	10·9	−1·0	13·7	88	+3	5
Gorakhpur	254	1008·6	−0·1	1005·5	76·2	+1·7	81	24	51·2	+2·4	44	18,19	56·9	72·1	53·9	61·0	12·9	+0·4	13·4	82	+1	5
Banaras	250	1008·3	−0·9	1005·0	76·8	+1·6	83	2,9	48·4	+0·2	42	19	52·5	73·5	51·3	60·8	12·4	+0·5	12·6	90	+11	4
Allahabad (Bamrauli).	322	1006·0	−0·8	1003·5	77·6	+1·9	..	..	49·5	+2·4	42	17	53·8	72·9	51·1	60·0	12·0	+1·1	13·6	83	+3	4
Fatehpur	375	1004·8	..	1001·0	77·4	+1·3	87	2	48·5	+1·0	40	4	55·8	71·5	51·4	60·5	10·9	−0·6	13·1	72	0	5
Cawnpore	413	1002·6	−0·5	1000·2	77·0	+3·9	86	2	47·7	+1·5	38	18	51·4	72·7	49·0	59·6	10·8	+0·1	11·5	82	+2	4
Lucknow	371	1004·5	−0·2	1003·8	76·4	+0·5	84	2	47·9	+0·6	38	18	52·4	70·2	49·7	60·4	10·9	0	13·5	83	+3	5
Bahraich	407	1002·6	−0·3	1000·2	75·9	+0·9	81	2,9	48·4	+0·2	42	12	53·9	72·8	51·6	61·3	12·0	+0·5	10·4	85	+2	5
U. P., West																						
Jhansi	824	988·8	−0·5	985·4	79·2	+1·1	88	8	49·2	+0·9	41	25	52·4	75·5	49·7	63·2	10·9	+0·9	14·4	82	+19	4
Agra	553	996·7	−1·8	995·6	75·7	+0·3	86	1	46·4	+0·1	39	19	48·8	72·3	46·4	58·5	9·6	+0·9	10·5	80	+15	4
Mainpuri	516	998·9	−0·8	996·3	71·3	+1·9	85	4 days	47·2	+0·9	37	18	50·3	71·3	49·8	60·9	11·9	+2·2	12·7	82	+8	4
Aligarh	615	995·6	..	993·1	75·2	+1·2	85	1	47·5	+0·9	37	18	50·4	71·3	47·5	58·1	9·9	+0·8	10·7	79	+14	4
Bareilly	568	997·0	−0·5	994·3	75·3	+2·2	82	23	48·6	+2·0	42	16,17	54·5	69·3	50·9	57·5	11·0	+0·3	11·0	77	−7	4
Roorkee	899	984·8	−1·0	983·0	71·8	+0·6	77	2,3	44·9	+1·5	38	16,17	47·9	67·9	48·0	56·5	9·7	+0·2	10·4	86	+1	4
Dehra Dun	2,239	939·1	−0·2	937·7	70·7	+1·6	76	5	44·0	−1·1	39	11,15,25	47·8	64·8	44·7	55·6	8·4	−0·2	11·6	79	+1	5
East Punjab																						
New Delhi	714	991·7	−0·8	989·6	73·4	−0·3	83	10	41·2	+1·2	36	18	49·3	69·3	45·9	56·6	9·1	+0·8	10·0	75	+8	4
Hissar	725	991·9	−0·3	989·4	75·0	+0·8	83	7,8	43·4	+0·2	34	18	46·8	70·0	44·2	58·3	8·8	+0·7	11·3	80	+8	4
Ambala	892	984·8	−1·1	982·4	73·0	+0·7	80	1,7	45·9	+2·1	38	13,17,18	49·2	67·3	47·4	56·6	10·4	+1·6	11·1	82	+5	4
Ludhiana	812	988·3	−0·7	986·9	71·1	+0·3	80	1	44·8	+0·6	36	16	47·3	66·9	45·9	57·1	9·9	+1·3	11·5	90	+12	5
Kashmir																						
Srinagar	5,205	846·5	−0·1	845·1	45·7	−2·5	60	1,3	28·5	+0·9	22	17	31·4	41·5	29·9	37·0	5·1	−0·3	5·8	85	−8	6
Gulmarg	8,709	Closed during winter months.																				
Dras	10,059	705·6	+0·4	704·4	..	..	..	..	..	..	..	..	7·5	18·4	7·3	17·9	1·8	−0·2	3·0	84	−4	9
Leh	11,529	668·7	+2·1	665·7	33·9	−1·4	43	1	11·3	−1·4	3	26	14·3	30·2	12·3	24·0	1·8	0	2·6	70	+9	4
Skardu (R)	7,505																					
Gilgit (R)	4,890																					
Misgar (R)	10,190																					
Rajputana, West																						
Sri Ganganagar	580	996·5	..	994·9	74·1	+0·5	83	1,2,6	43·7	+2·7	34	18	46·0	69·9	44·4	58·3	9·3	+1·9	11·6	87	+19	4
Bikaner	734	990·4	−1·4	988·7	76·2	..	89	6	43·0	..	33	17,18	46·5	74·1	43·8	63·0	8·5	..	14·7	80	..	5
Phalodi	800	988·0	..	987·2	77·4	..	89	2	48·2	..	40	18,19	49·8	81·2	46·8	69·0	9·5	..	18·7	77	..	6
Jodhpur	736	980·9	+0·8	988·4	79·9	+0·9	90	2	51·5	+1·0	36	17	54·9	77·4	47·4	58·7	7·9	+0·6	8·5	52	−1	2
Barmer	638	994·2	0	991·9	80·8	+0·7	92	2	53·1	−0·4	44	17	55·4	77·8	49·6	63·9	10·2	+1·9	15·6	64	+8	4
Rajputana, East																						
Sikar	1,406	967·5	..	965·3	77·2	..	87	2	44·5	..	34	16,17,18	47·3	73·2	43·8	56·5	8·2	..	8·1	73	..	2
Jaipur	1,431	967·0	−1·1	964·8	76·8	+0·4	86	1	48·8	+1·2	37	17	52·4	73·0	47·7	56·8	9·4	+1 2	8·5	69	+11	3
Ajmer	1,593	961·9	−0·5	958·6	75·5	+0·1	..	..	47·5	+0·9	..	..	58·2	73·4	51·5	57·7	9·9	+1·5	10 0	63	+3	3
Kotah	843	987·8	−0·4	984·6	80·6	+1·5	89	1,3	53·4	+1·3	46	17	55·5	77·2	51·7	61·4	11·3	+2·0	11·5	75	+15	3
Brijnagar	1,053	979.5	−1·0	976·3	81·1	+2·9	88	2	51·1	+2·4	39	16	54·0	77·4	50·6	60·8	10·9	+1·3	10·5	78	+12	3
Udaipur	1,910	950·6	..	947·8	79·0	..	85	2,27	47·6	..	37	16	51·5	75·6	47·6	58·9	9·6	..	10·2	75	..	3

(R) Register not received.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0.10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I.S.T.										17 hrs. I. S. T.									
8 hrs. I.S.T.	Departure from normal.	Mean 17 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
2·4	+0·5	2·2	0·02	—0·30	0·02	22	0	—1·1	2·2	+0·1	1	0	1	3	0	0	12	1	13	1	0	1	1	0	0	8	2	18	**U. P., East** Gonda
1·5	+0·4	1·6	0	—0·19	0	..	0	-0·4	1·6	+0·8	1	2	0	0	0	0	11	0	17	0	0	0	0	1	0	10	2	18	Gorakhpur
1·4	0	1·8	0	—0·27	0	..	0	—0·5	3·8	+2·0	0	2	2	0	3	16	1	0	7	1	2	3	1	1	3	8	11	1	Banaras
2·9	+1·0	2·7	0	—0·34	0	..	0	—0·7	2·3	+0·2	1	0	1	1	1	1	10	1	15	3	4	4	0	0	0	4	10	6	Allahabad (Bamrauli)
1·4	—0·4	1·7	0·03	—0·31	0·02	22	0	—1·1	2·1	+0·5	0	2	3	1	0	0	2	10	13	0	2	3	0	0	0	0	12	14	Fatehpur
1·6	+0·7	1·7	0·28	0	0·18	21	2	+1·2	4·0	+2·6	2	4	2	1	1	6	5	3	7	6	5	2	1	0	1	5	10	1	Cawnpore
1·8	+0·5	1·9	0·17	—0·15	0·10	22	1	+0·3	1·9	+0·9	2	0	1	0	2	3	5	2	17	2	0	1	0	0	1	5	0	22	Lucknow
2·3	+1·1	2·1	0·12	—0·22	0·09	22	0	—0·9	2·3	+1·1	0	0	4	0	0	2	3	4	18	0	0	0	1	0	1	3	0	26	Bahraich
1·5	+0·1	1·5	0·15	—0·14	0·15	22	1	—0·2	1·4	—0·3	0	7	1	0	0	0	3	6	14	0	5	5	0	0	3	8	6	4	**U. P., West** Jhansi
1·5	—0·3	1·3	0·11	—0·19	0·10	22	1	+0·2	1·8	—0·5	1	0	2	0	0	0	5	2	20	2	2	5	0	1	0	1	7	13	Agra
1·8	0	1·2	0·69	—0·32	0·44	21	2	+1·2	2·0	+0·9	2	0	2	1	0	1	7	6	12	0	0	4	2	0	1	9	6	9	Mainpuri
2·3	+0·6	2·0	0·40	—0·03	0·30	21	1	—0·2	3·4	+0·4	0	0	3	1	0	0	14	0	13	2	1	3	3	0	0	2	3	7	Aligarh
1·9	+0·1	2·0	0	—0·41	0	..	0	—1·0	2·2	+1·0	4	2	4	1	0	1	8	3	8	0	0	4	1	0	1	10	4	11	Bareilly
2·0	—0·2	2·0	0·28	—0·40	0·20	21	1	—0·3	2·2	+0·9	0	2	0	7	0	0	0	16	6	0	1	0	9	1	1	0	14	5	Roorkee
2·0	—1·1	2·9	0·31	—0·71	0·17	21	2	+0·3	1·5	0	8	6	0	0	0	0	0	1	16	1	0	0	1	1	1	6	2	19	Dehra Dun
3·2	+1·0	2·2	0·34	—0·09	0·20	21	2	+1·1	4·4	..	0	0	2	6	1	4	11	3	4	2	1	5	5	0	0	0	16	2	**East Punjab** New Delhi
1·2	—0·9	2·0	0·10	—0·29	0·10	22	1	0	3·8	+0·8	0	5	2	4	3	8	5	1	3	7	3	2	2	1	0	2	8	6	Hissar
1·0	—1·7	1·8	0·44	—0·32	0·21	23	2	+0·5	2·0	0	0	2	0	5	0	3	0	21	0	0	0	0	7	0	1	0	22	0	Ambala
3·3	+0·7	3·1	2·53	+1·81	1·86	22	4	+2·6	1·1	0	1	5	1	1	0	2	2	2	17	0	4	1	1	0	0	0	4	21	Ludhiana
7·8	+1·7	6·2	4·66	+3·34	2·09	30	6	+2·6	2·0	0	0	0	1	9	1	0	0	1	19	0	1	0	4	3	0	6	5	12	**Kashmir** Srinagar
																													Gulmarg
9·8	+4·6	6·8	2·53	+0·42	0·51	23	10	+3·9	..	..	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	1	1	29	Dras
5·9	+0·1	6·9	0·06	—0·11	0·06	7	0	—0·6	2·2	+0·8	1	12	1	0	2	0	0	0	15	0	0	0	0	11	10	2	0	8	Leh
																													Skardu (R)
																													Gilgit (R)
																													Misgar (R)
3·0	+0·7	2·1	0·62	+0·50	0·48	21	1	0	2·1	—1·5	2	1	3	0	0	0	0	1	24	0	4	2	0	0	0	0	5	20	**Rajputana, West** Sri Ganganagar
1·5	—0·1	1·0	0	—0·20	0	..	0	—0·5	2·1	—0·4	0	5	0	1	0	0	0	0	25	1	15	0	0	0	4	0	4	7	Bikaner
1·7	..	1·9	0	—0·10	0	..	0	—0·2	9·7	..	1	3	1	7	0	4	1	4	10	7	6	0	0	1	3	2	10	2	Phalodi
1·1	—1·0	1·8	0	—0·11	0	..	0	—0·3	3·4	—2·7	3	26	0	0	0	0	1	0	1	4	11	1	0	0	4	2	4	5	Jodhpur
1·5	+0·5	0·9	0	—0·10	0	..	0	—0·3	3·8	—0·3	1	1	0	0	0	0	1	22	6	6	7	0	0	1	3	2	4	8	Barmer
2·1	..	1·9	0	..	0	..	0	...	2·1	..	0	0	2	16	0	0	0	0	13	4	1	2	3	0	2	4	14	1	**Rajputana, East** Sikar
2·0	+0·1	2·5	0·31	+0·01	0·16	22	2	+1·3	3·7	+0·6	2	3	10	3	2	0	0	0	11	7	0	4	2	2	2	1	7	6	Jaipur
(e) 1·3	..	(d) 1·5	0·08	—0·18	0·08	21	0	—0·4	(e) 0·8	..	0	0	0	0	0	0	0	0	26	1	3	2	1	0	2	5	3	10	Ajmer
0·1	—1·7	1·3	0·70	+0·49	0·48	21	2	+1·5	1·1	+0·1	0	2	0	0	0	2	1	3	23	6	2	0	1	0	3	1	1	17	Kotah
1·3	—0·6	2·3	3·09	+1·85	1·74	21	3	+2·7	1·3	—0·2	1	1	0	1	0	0	0	1	27	7	8	1	0	0	1	0	4	10	Brijnagar
1·0	..	2·3	0	—0·11	0	..	0	—0·3	1·4	..	2	0	0	1	0	0	2	5	21	0	5	4	3	3	4	7	0	5	Udaipur

(e) Mean of 26 days.

(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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
Gujarat																						
Deesa*	466																					
Bhuj	343	1004·5	−0·2	1001·8	82·2	+0·4	91	2,3,4	53·1	−1·3	41	17	54·8	80·1	49·7	59·1	9·9	−0·8	7·8	66	+14	21
Dwarka	37	1014·2	−1·0	1011·8	81·5	+0·3	90	1,2	62·3	+0·4	56	17,18	64·7	78·2	59·1	63·3	14·6	−0·4	13·1	69	+2	40
Jamnagar	60	1011·1	−3·3	..	80·0	−1·2	89	3	56·0	+1·3	49	19	61·0	..	56·6	..	13·7	+2·5	..	73	+11	..
Rajkot	432	1000·4	−0·4	997·3	85·5	+0·4	93	5	55·1	+1·6	45	18	57·8	83·2	52·1	64·0	12·7	+1·8	11·7	65	+13	31
Veraval	26	1013·4	−1·2	1010·7	85·8	..	91	1,11	58·9	..	49	23,25	63·0	81·3	55·3	69·7	11·5	..	19·6	60	+8	55
Surat	39	1013·1	−1·0	1010·3	90·7	+2·8	95	2,5	60·7	+1·3	55	23	64·6	86·1	60·3	71·3	15·9	+2·8	19·5	67	+6	47
Bhavnagar	55	1013·4	−0·8	1010·2	85·4	+0·3	91	2	55·0	−0·7	48	25,26	57·1	83·6	51·2	63·6	10·2	+0·6	11·1	64	+13	29
Ahmedabad	163	1010·2	−0·6	1007·2	84·8	−1·6	89	3,4,5	60·9	+1·3	55	16,17	62·5	82·7	54·3	63·1	10·8	+1·2	10·9	56	+5	29
Dohad	1,093	977·5	..	974·9	85·7	+1·4	90	3	55·3	+2·2	43	22,26	57·8	82·6	51·7	63·0	10·3	−0·3	10·8	63	−5	38
Baroda	115	1011·4	..	1008·1	89·0	+1·8	94	4 days	52·5	+1·2	44	25	55·2	81·3	52·3	66·9	12·1	+0·6	14·6	82	+15	36
Central India, West																						
Neemuch	1,626	960·3	0·7	957·9	80·5	+2·1	87	2	51·2	+1·8	41	16	54·5	77·9	49·2	58·8	9·9	+1·3	9·2	68	+12	30
Indore	1,823	952·8	−1·0	950·3	80·7	+1·0	86	3,4,5	51·3	+1·7	41	16	54·7	78·7	51·4	60·7	11·7	+1·3	10·8	80	+17	33
Bhopal	1,643	959·7	−0·5	956·8	81·5	+2·5	87	3,4	52·1	+2·6	44	14	58·4	77·7	52·4	61·0	11·0	+1·3	11·6	67	+6	36
Guna	1,571	962·3	−0·4	959·7	80·1	+2·2	86	2	48·6	+3·1	36	16	53·2	76·8	49·5	60·1	10·6	+1·5	11·0	77	+8	36
Gwalior	681	993·4	..	990·5	77·2	..	87	1	47·1	..	37	16	55·1	74·4	50·1	65·6	10·1	..	17·5	69	..	61
Madhosagar	757	990·5	..	987·8	78·0	..	87	1	53·4	..	46	17,18	56·1	73·6	51·1	58·6	10·5	..	10·0	69	..	36
Central India, East																						
Nowgong	750	991·2	−0·4	988·0	78·3	+3·8	87	2	47·2	+0·8	38	15	50·3	74·6	48·7	60·5	10·8	+0·5	11·7	89	+10	41
Sutna	1,041	980·4	−0·8	977·5	79·0	+3·3	86	3	48·0	+0·5	42	17	53·1	75·1	49·7	62·0	10·6	+0·6	13·1	78	+9	44
Umaria	1,506	964·3	..	961·5	78·9	+2·0	85	2	47·3	+1·5	40	13	53·8	74·6	50·0	60·1	10·8	+0·6	11·9	76	+6	40
Berar																						
Akola	925	983·4	−1·1	979·7	84·9	+0·2	89	3,4	56·0	+2·7	49	26,27,28	58·7	82·7	54·0	63·4	12·1	+1·3	11·2	71	+11	31
Amraoti	1,213	974·0	−0·5	970·5	83·6	+0·4	87	3,5	59·9	+1·5	52	29	63·9	81·9	56·7	63·5	11·5	+0·6	11·7	56	+2	33
C. P., West																						
Khandwa	1,044	979·3	−1·0	975·9	85·4	+1·3	90	3,4	54·1	+2·6	47	27	59·5	81·7	53·5	63·0	11·3	+0·8	11·3	64	+1	32
Hoshangabad	992	981·9	−1·1	978·6	81·0	+1·0	86	4	55·8	+1·9	47	26	58·9	78·9	53·5	62·7	11·5	+0·8	12·2	68	+5	37
Saugor	1,808	954·1	−0·5	951·4	78·1	+1·2	83	4 days	54·9	+1·9	47	25	59·5	74·2	50·9	57·3	9·3	+0·6	9·2	53	−1	32
Jubbulpore	1,289	971·9	−0·4	968·7	81·8	+4·7	87	4	49·5	+3·0	42	13	55·6	76·6	51·6	61·6	11·0	+0·1	11·6	74	−2	38
Seoni	2,027	946·7	−0·3	944·1	78·9	+1·2	84	4,18	52·9	+2·3	45	25	59·4	75·1	52·8	59·3	11·0	+0·4	10·9	63	0	37
Nagpur	1,022	980·4	−1·1	977·1	83·9	+2·2	89	4	58·7	+1·5	52	26	62·4	80·3	55·7	62·9	12·1	+0·6	11·7	63	+2	34
C. P., East																						
Gondia	1,026	980·4	..	977·4	81·5	..	86	4	57·2	..	51	13	61·4	78·6	56·4	63·2	13·3	..	12·8	73	..	40
Pendra	2,040	946·3	−0·5	943·8	75·7	+2·0	83	4	52·9	+3·3	46	25	58·8	70·7	53·9	61·3	12·2	+1·4	14·7	73	+6	58
Champa	805	988·6	..	985·2	80·3	..	87	4	57·6	..	52	15	61·0	78·2	57·2	63·5	14·3	..	13·5	79	..	41
Raipur	970	982·6	−0·7	979·5	81·1	+1·1	87	4	58·2	+3·7	52	13	65·2	77·1	57·4	65·2	14·7	+2·5	15·9	70	+3	51
Titilagarh	691	992·2	..	988·7	80·2	..	88	11	57·8	..	50	26	62·9	76·7	59·7	64·9	16·4	..	15·6	81	..	51
Kanker	1,318	970·7	−0·4	967·3	79·2	−0·9	84	4,5,20	66·9	+5·2	47	13	62·5	76·4	59·4	67·2	15·9	+2·8	18·6	83	+5	61
Chanda	634	993·8	−1·0	990·5	82·5	0	86	19	55·9	+3·1	47	26,27	60·8	80·0	57·4	65·0	14·6	+0·5	14·3	80	+5	41
Jagdalpur	1,815	953·1	−0·8	950·0	77·5	−1·3	82	17	53·3	+3·6	45	26,27,28	58·9	73·8	57·2	62·7	15·3	+1·1	15·0	90	+1	53

* Data not reliable.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																STATION.
											8 hrs. I. S. T.										17 hrs. I. S. T.								
Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
																													Gujarat
																													Deesa*
0·5	—0·9	1·1	0	—0·07	0	..	0	—0·1	3·0	—0·6	0	0	0	0	0	0	0	0	31	11	11	1	0	1	2	1	9	3	Bhuj
1·9	0	2·0	0	—0·09	0	..	0	—0·2	8·2	+0·7	3	23	2	1	0	0	1	0	1	5	10	0	0	0	0	2	14	0	Dwarka
1·8	+0·5	..	0	—0·08	0	..	0	—0·1	5·8	+0·2	5	5	1	3	1	2	2	0	12	...	...	...	...	...	...	...	...	...	Jamnagar
0·6	—1·1	1·1	0	—0·06	0	..	0	—0·2	4·9	+1·3	1	6	5	3	2	1	0	0	13	0	10	6	1	0	0	2	5	7	Rajkot
0·5	—1·0	0·8	0	—0·07	0	..	0	—0·2	9·1	...	9	21	0	0	0	0	0	1	0	1	5	0	3	4	3	10	5	0	Veraval
0·8	—0·8	0·7	0	—0·08	0	..	0	—0·1	3·2	+0·5	2	11	8	0	0	0	0	0	10	4	6	0	0	0	2	6	9	4	Surat
0·3	—1·5	0·9	0	—0·06	0	..	0	—0·1	3·2	+0·1	1	0	0	1	0	6	16	2	5	3	7	7	4	2	0	0	2	6	Bhavnagar
0·6	—0·7	0·6	0	—0·04	0	..	0	—0·1	4·0	+0·1	2	13	9	1	0	0	0	5	1	4	5	4	3	1	1	1	5	7	Ahmedabad
0·9	—1·0	0·5	0	—0·08	0	..	0	—0·3	4·4	+1·9	2	6	5	5	6	1	2	2	2	4	5	0	2	6	6	7	1	0	Dohad
0·9	—0·4	0·3	0	—0·02	0	..	0	—0·1	1·6	—0·5	2	6	2	1	0	0	0	1	19	7	4	2	0	0	0	7	5	6	Baroda
																													Central India, West
1·8	+0·1	3·7	0	—0·18	0	..	0	—0·5	3·5	0	1	14	6	1	1	1	1	0	6	2	8	1	0	0	8	4	2	6	Neemuch
1·7	0	2·1	0·38	+0·11	0·20	19	2	+1·4	2·1	+0·6	0	5	4	3	0	0	0	0	19	1	10	3	3	3	2	2	0	7	Indore
1·1	+1·0	1·8	0·43	+0·23	0·43	21	1	+0·5	2·4	+0·8	4	4	0	3	2	1	1	1	15	5	10	1	2	3	1	1	1	7	Bhopal
1·3	—0·4	1·5	0·84	+0·42	0·60	21	2	+0·8	2·7	+1·1	1	3	2	4	3	0	2	2	14	6	2	3	1	2	0	6	6	5	Guna
1·7	..	2·2	0·22	..	0·22	21	1	..	1·6	..	1	1	1	0	0	0	0	4	24	4	6	4	1	0	0	0	10	6	Gwalior
1·5	..	2·2	0·40	..	0·23	21	2	..	3·8	..	4	1	0	1	1	13	0	1	10	9	10	2	0	1	0	3	6	0	Madhosagar
																													Central India, East
1·1	+0·2	2·1	0·52	+0·12	0·39	21	2	+1·3	1·7	+0·8	1	1	1	0	2	4	0	1	21	8	11	1	0	0	0	2	4	5	Nowgong
1·7	0	2·2	0·	—0·43	0	..	0	—0·9	2·2	+0·5	1	0	1	1	1	3	4	2	18	5	5	4	0	0	0	5	9	3	Sutna
1·6	—0·7	2·1	0	—0·35	0	..	0	—0·9	2·0	+0·2	0	0	2	4	4	0	0	0	21	6	6	4	0	0	0	1	5	9	Umaria
																													Berar
1·7	—0·3	1·7	1·81	+1·27	1·48	19	2	+1·1	2·9	+0·5	1	4	3	2	2	1	2	0	16	0	15	7	0	0	0	1	4	3	Akola
1·3	+0·3	2·4	0·36	—0·08	0·18	19,23	2	+1·2	5·0	+1·7	0	23	7	0	0	0	0	1	0	1	18	2	4	0	1	1	2	2	Amraoti
																													C. P., West
1·6	—0·1	2·1	1·37	+1·05	0·83	22	3	+2·5	2·8	+0·6	1	5	2	3	8	0	0	1	11	7	10	2	5	1	2	0	3	1	Khandwa
1·3	+0·5	2·8	0·86	+0·39	0·71	19	2	+1·3	2·1	+0·2	0	7	16	1	0	0	0	0	7	1	5	11	0	1	1	0	1	11	Hoshangabad
1·7	+1·9	4·3	0	—0·51	0	..	0	—0·8	7·1	—0·2	1	8	6	6	4	1	2	2	1	11	7	3	1	1	1	4	3	0	Saugor
1·9	+0·3	2·0	0	—0·37	0	..	0	—0·7	2·2	+1·1	2	3	3	15	4	0	0	2	2	9	16	2	1	0	0	1	0	2	Jubbulpore
1·9	+1·2	2·4	0·02	—0·50	0·02	22	0	—0·9	2·9	+0·9	4	5	1	0	0	0	1	0	20	8	12	4	3	2	0	0	0	2	Seoni
1·1	+1·0	3·3	0·10	—0·37	0·10	20	1	+0·2	3·3	0	22	4	0	0	0	0	0	5	0	4	12	11	2	0	0	0	1	1	Nagpur
																													C. P., East
1·5	..	2·0	0·10	..	0·10	15	1	..	2·1	..	13	2	1	1	1	0	0	3	10	13	8	3	2	2	0	0	3	0	Gondia
1·7	+0·7	2·7	1·17	+0·88	0·94	15	2	+1·5	2·5	+0·2	5	1	2	0	1	2	1	9	10	10	2	1	3	2	1	0	9	3	Pendra
1·8	..	3·2	0·70	..	0·55	15	2	..	3·7	..	14	3	0	0	0	0	0	9	5	15	3	2	2	0	0	2	4	3	Champa
1·6	+2·1	2·8	0·21	+0·01	0·09	15	0	—0·3	2·5	+0·8	0	19	0	0	0	0	0	0	12	0	24	0	0	0	0	0	0	7	Raipur
1·6	..	3·4	0·25	..	0·15	15	1	..	1·2	..	4	4	0	0	1	0	0	0	22	9	9	0	1	0	0	0	0	12	Titilagarh
1·8	+1·7	5·0	0·15	+0·01	0·15	22	1	+0·6	1·7	0	1	3	0	0	0	0	1	0	26	3	7	2	0	0	0	0	0	19	Kanker
1·8	+0·9	3·1	0	—0·27	0	..	0	—0·7	2·1	+0·8	0	5	0	0	0	1	0	5	20	0	13	11	11	0	0	0	3	13	Chanda
1·3	+2·5	4·7	0·87	+0·71	0·48	19	3	+2·6	1·9	+0·7	0	9	0	0	0	0	0	3	19	0	13	0	0	0	1	0	11	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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
Konkan				(a)										(a)		(a)						(a)
Dahanu	15	1013·6	..	1010·8	85·0	..	93	3	63·3	..	59	27,28	65·8	80·6	61·9	74·8	17·2	..	26·8	80	..	75
Bombay	35	1012·3	−1·1	1009·4	88·3	+1·7	92	7,25	69·7	+0·9	65	30,31	73·0	82·6	66·9	72·4	19·8	+0·3	22·9	72	−1	61
Alibag	23	1013·3	−0·4	..	86·3	+1·1	92	15,25	66·6	+1·4	61	28	70·0	..	64·2	..	17·9	+1·0	...	72	+5	..
Harnai	66	1010·8	..	1008·7	85·6	..	90	25,26	74·3	..	70	29,30	76·2	81·5	66·1	73·3	17·3	..	24·5	58	..	66
Devgad	117	1008·0	..	1005·5	89·3	..	93	24,25	73·5	..	63	28	75·0	84·6	69·5	77·0	22·1	..	28·3	76	..	70
Marmagao	202	1006·1	−0·6	1002·4	87·7	+1·0	93	25	71·6	+0·8	66	29	75·8	84·1	67·6	72·2	18·6	−0·1	21·6	62	−3	51
Honavar	85	1010·3	..	1006·6	91·4	..	96	25	69·8	..	62	28	75·8	85·6	67·0	74·2	18·0	..	23·6	62	..	57
Bombay (Deccan)																						
Jalgaon	660	991·1	..	987·9	86·0	..	90	7	54·4	..	45	26,27	59·5	83·9	54·5	65·8	12·3	..	13·5	70	..	35
Malegaon	1,432	966·1	−0·6	961·1	85·2	+0·2	88	18,28,29	53·7	+1·4	46	26	58·9	82·0	53·1	61·8	11·2	+0·8	9·9	65	+5	27
Ahmednagar	2,154	941·0	−1·2	937·8	83·0	−0·1	86	18	53·9	+1·0	48	28	61·3	79·6	54·8	62·9	12·0	+1·0	12·8	65	+7	35
Poona	1,834	952·0	−0·7	948·3	86·5	+1·6	90	19,29	55·2	+2·2	47	27	58·7	82·5	55·0	63·7	13·2	+0·9	12·5	79	+5	34
Sholapur	1,570	961·3	−0·3	957·5	86·0	+0·5	88	5 days	59·8	+1·3	57	27,28	64·7	83·1	57·1	63·7	12·8	+0·8	12·3	63	+7	33
Miraj	1,817	952·0	−1·1	948·2	85·5	+1·5	92	23	59·5	+2·5	48	29	63·5	82·8	57·1	65·5	13·4	+0·3	14·4	66	+3	38
Bijapur	1,950	949·6	+1·0	945·0	82·8	−1·4	87	22,23	59·6	+1·0	50	27	66·8	81·7	59·0	63·7	13·9	0	12·9	62	−2	36
Belgaum	2,562	927·2	−0·6	924·0	82·1	+0·1	85	23,24,25	58·1	−0·3	54	6,28	62·8	80·1	57·1	62·7	13·4	+0·1	11·6	70	+5	35
Gadag	2,131	941·8	−0·4	938·3	84·2	+0·8	91	23,24	61·9	+0·6	57	12	68·9	81·0	60·5	65·1	14·6	+0·1	14·8	61	−4	42
Hyderabad, North																						
Aurangabad	1,905	950·5	−0·7	947·2	84·1	+0·6	87	18,19,28	58·7	+2·9	51	27,28,29	64·4	80·6	56·1	63·3	12·0	+1·1	12·8	59	+3	36
Parbhani	1,350	967·4	..	963·9	84·5	..	87	3,4	55·8	..	49	26,29	62·1	82·2	55·7	63·9	12·6	..	12·8	63	..	32
Bidar	2,178	940·3	..	937·0	78·2	−2·9	83	22	62·0	+1·3	58	13,27	66·1	74·4	59·3	61·5	14·5	0	13·4	67	+1	38
Nizamabad	1,250	971·7	−0·7	968·3	83·0	−0·7	86	22,24,25	57·9	+2·9	49	27	61·3	80·9	58·1	63·3	15·1	+0·8	11·9	81	+11	34
Peddapalli (R)	755																					
Hyderabad, South																						
Gulbarga	1,503	962·9	−1·2	959·7	83·5	−1·9	89	19	59·9	+1·2	51	27	66·3	83·2	59·5	65·0	14·6	+1·5	13·7	65	+3	36
Raichur	1,311	969·2	−1·1	915·7	83·4	−1·4	89	23,24	64·3	+0·6	59	13	68·0	81·9	62·5	65·4	16·8	+0·6	13·9	72	+4	39
Hyderabad (Begumpet)	1,778	953·8	−0·9	950·9	82·4	−1·1	85	6 days	57·8	+1·4	50	28	62·3	77·3	60·1	64·5	16·9	+2·2	15·5	87	+13	49
Hanamkonda	881	984·6	−1·3	981·3	83·1	−0·1	86	5,22,25	62·1	+1·8	55	26,27,28	66·1	79·7	62·8	65·9	18·1	+1·5	15·8	82	+9	46
Khammameth	367	1002·2	..	989·8	84·2	..	89	23	62·2	..	54	27	67·9	81·4	64·8	68·3	19·5	..	17·7	83	..	49
Mysore																						
Chitaldrug	2,405	932·2	−0·6	928·4	80·9	−1·5	87	24	61·7	−0·1	55	28	68·1	79·5	62·9	64·4	17·5	+1·1	14·5	75	+4	43
Hassan	3,149	907·7	..	904·8	79·6	−1·0	83	23	59·3	+1·7	52	29	64·5	77·0	60·4	63·1	16·3	−0·4	14·1	79	+1	45
Bangalore	3,021	911·9	−0·8	908·9	78·8	+0·6	85	23	60·2	+2·0	55	28,29	64·0	76·3	60·9	61·9	17·0	+0·5	13·1	84	+3	43
Mysore	2,518	928·2	−0·8	924·9	80·9	−1·0	85	18,23	62·9	+1·8	57	13,28	66·5	80·5	62·3	63·7	17·3	−0·2	13·3	79	+21	38
Malabar																						
Mangalore	72	1010·0	−0·7	1006·6	89·2	+0·1	93	3	71·8	+0·6	67	29	74·9	84·2	69·1	74·3	21·6	+0·5	24·5	73	+3	61
Calicut	27	1011·1	−0·8	1007·5	89·5	+1·8	93	4	73·2	+1·9	67	31	76·1	86·5	71·7	76·5	24·5	+1·0	26·6	80	0	62
Palghat	319	1001·6	..	997·4	91·0	..	94	22,25	73·3	..	69	14,29	76·5	87·9	71·6	75·9	24·2	..	25·1	76	..	56
Cochin	10	1011·7	−0·8	1008·2	87·3	+0·8	90	26	74·5	+0·3	70	30	78·4	85·0	72·8	75·7	25·1	+1·6	26·1	76	0	64
Alleppey	12	1011·4	..	1008·1	88·3	..	92	4	74·5	...	69	30,31	79·1	84·6	74·4	76·1	26·9	...	26·9	79	..	66
Trivandrum	211	1004·4	−0·7	1001·4	87·6	..	90	6	72·8	..	68	30,31	75·3	84·0	72·4	75·1	25·9	+1·2	25·7	86	+3	65
Nagercoil	195	1005·1	..	1002·1	90·7	..	94	25,27	74·5	..	71	31	78·2	85·0	70·4	74·9	21·9	..	23·7	67	..	59
Madras, South-East																						
Pamban	37	1011·6	−0·3	1008·6	82·3	−0·3	84	9 days	75·1	+0·3	73	14	78·7	78·3	75·1	74·9	28·1	+0·3	28·0	84	−4	85
Madura	437	997·9	−0·9	993·9	87·2	+2·5	92	14,21	71·1	+0·9	65	30	75·5	83·8	69·8	71·9	22·3	−0·7	21·3	74	−6	55

(R) Register not received.

(a) Mean of 30 days.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days (0.10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from:—																	STATION.
											8 hrs. I.S.T.									17 hrs. I. S. T.									
8 hrs. I.S.T.	Departure from normal.	Mean 17 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
		(a)																										**Konkan**
·5	..	0·9	0	..	0	..	0	..	7·0	..	3	4	13	9	0	0	1	0	1	18	0	0	0	0	0	3	9	0	Dahanu
·8	—0·9	0·7	0	—0·08	0	..	0	..	6·7	+0·2	5	14	9	2	0	0	0	0	1	6	0	0	0	0	0	2	23	0	Bombay
·7	—1·5	..	0·18	+0·03	0·17	19	1	+0·6	2·7	—1·8	0	7	11	1	0	0	0	0	12	..	..	..	..	..	..	..	..	..	Alibag
·7	..	0·3	0·09	..	0·09	19	0	..	8·0	..	3	9	10	3	2	1	2	1	0	1	0	0	0	0	2	15	13	0	Harnai
·2	..	2·5	0	..	0	..	0	..	7·5	..	0	4	24	3	0	0	0	0	0	0	0	0	0	0	0	6	25	0	Devgad
·7	+0·5	2·7	0	—0·35	0	..	0	..	6·1	+0·7	0	3	19	9	0	0	0	0	0	0	0	1	0	0	5	16	9	0	Marmagao
·6	..	3·6	0·99	+0·62	0·99	17	1	+0·6	3·1	..	0	8	21	0	0	0	0	0	2	1	0	3	2	0	2	17	4	2	Honavar
																													Bombay (Deccan)
·7	...	2·6	1·23	+1·01	0·88	21	3	+2·6	3·4	..	0	1	12	11	1	0	0	0	6	0	9	14	1	0	0	3	2	2	Jalgaon
·9	—1·1	1·5	0·16	—0·05	0·09	21	0	—0·4	2·9	0	0	0	0	0	0	1	0	3	27	1	14	5	5	1	1	0	1	3	Malegaon
·9	—0·8	1·3	1·37	+1·11	0·99	20	3	+2·5	4·1	+0·7	0	1	0	3	0	7	0	18	2	1	11	9	5	1	1	0	3	0	Ahmednagar
·8	+0·1	2·4	0·14	—0·01	0·14	21	1	+0·5	1·7	—1·8	0	0	1	1	0	0	2	0	27	0	4	12	1	1	1	0	0	12	Poona
·4	+1·4	3·0	0·28	—0·13	0·28	18	1	+0·3	6·3	+0·6	2	13	6	6	0	0	1	0	3	2	10	10	5	1	2	0	1	0	Sholapur
·4	+1·1	3·0	0·05	—0·23	0·05	20	0	—0·6	5·6	+0·7	2	8	8	1	0	0	3	2	7	1	13	11	1	1	0	1	1	2	Miraj
·7	—0·5	2·7	0·16	—0·09	0·13	19	1	+0·4	3·0	+0·7	2	7	1	9	4	0	0	0	8	5	15	7	1	2	0	0	0	1	Bijapur
·4	—0·8	2·1	2·56	+2·22	1·82	20	2	+1·5	3·8	+0·7	0	29	2	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	Belgaum
·7	+1·5	4·6	0·15	—0·26	0·11	16	1	+0·4	4·6	+0·2	0	10	16	3	0	0	0	0	0	0	12	15	4	0	0	0	0	0	Gadag
																													Hyderabad, North
·6	—1·5	1·3	1·11	+0·84	0·70	19	2	+1·5	4·5	+0·2	0	14	14	0	0	0	0	0	3	3	5	15	1	0	1	1	2	3	Aurangabad
·7	..	3·3	0	—0·22	0	..	0	—0·4	..	..	0	9	21	0	0	0	0	1	0	1	25	3	0	0	0	0	0	2	Parbhani
·8	+1·3	4·1	0·21	—0·03	0·13	17	1	+0·5	5·9	+0·4	4	6	7	6	1	1	0	0	6	2	16	8	3	0	0	0	0	2	Bidar
·7	+0·7	3·1	0·10	—0·08	0·05	14	0	—0·4	2·5	+0·7	0	1	0	1	1	0	0	0	28	12	12	1	3	1	0	0	0	2	Nizamabad
																													Peddapalli (R)
																													Hyderabad, South
·5	—0·2	2·5	0·17	+0·02	0·17	18	1	+0·7	7·0	+2·1	4	24	3	0	0	0	0	0	0	4	13	8	2	2	2	0	0	0	Gulbarga
·0	+0·9	4·9	0·44	+0·31	0·40	14	1	+0·7	6·0	+0·7	1	11	8	9	1	0	0	0	1	2	10	13	5	0	1	0	0	0	Raichur
·9	+0·3	4·0	1·14	+0·84	0·35	18	3	+2·6	3·9	+0·8	1	2	0	2	0	0	0	1	25	1	16	10	2	0	0	0	0	2	Hyderabad (Begumpet)
·3	+0·6	4·1	0·17	—0·06	0·07	15	0	—0·4	3·4	+0·8	9	1	0	1	3	0	1	4	12	10	13	3	3	1	0	0	0	1	Hanamkonda
·3	..	3·9	0·70	..	0·70	15	1	..	2·7	..	27	1	2	0	0	0	0	0	1	11	10	8	0	0	0	0	0	2	Khammameth
																													Mysore
·6	+0·2	4·5	0·84	+0·32	0·81	18	1	+0·2	4·6	0	1	0	16	13	0	0	0	0	1	0	13	14	2	0	0	0	2	0	Chitaldrug
·8	—0·2	4·2	0·78	+0·12	0·65	18	2	+0·9	3·4	+0·4	0	5	19	2	0	1	0	0	4	2	6	18	2	0	0	0	1	2	Hassan
·5	+1·1	4·7	0·26	—0·18	0·17	17	1	—0·2	5·5	+0·7	0	9	18	4	0	0	0	0	0	6	14	9	2	0	0	0	0	0	Bangalore
·4	+1·1	5·5	0·15	—0·25	0·08	28	0	—0·9	6·3	0	3	21	4	0	0	0	1	0	2	3	14	13	1	0	0	0	0	0	Mysore
																													Malabar
·1	+0·1	3·1	1·44	+0·93	1·16	17	3	+2·3	4·6	+0·1	0	2	27	2	0	0	0	0	0	1	1	0	0	0	5	7	16	1	Mangalore
·3	+1·9	5·3	0·37	—0·64	0·37	17	1	—0·6	5·9	+1·9	0	9	19	3	0	0	0	0	0	0	0	0	1	1	9	15	5	0	Calicut
·2	..	4·6	1·14	..	0·99	17	2	..	5·7	..	0	0	16	11	0	0	1	0	3	0	3	15	6	0	0	3	1	3	Palghat
·4	+2·2	4·7	3·74	+2·14	2·54	18	2	—0·5	4·3	+0·7	1	6	17	0	0	0	0	0	7	0	0	0	0	0	8	19	3	1	Cochin
·4	..	4·1	5·67	..	3·25	5	6	..	4·7	..	0	1	17	8	1	0	1	0	3	0	0	0	0	0	0	23	8	0	Alleppey
·6	—0·9	4·6	1·57	—0·90	0·64	18	5	+1·3	3·3	+0·7	1	16	5	5	0	0	0	0	4	1	1	0	0	8	12	6	1	2	Trivandrum
·3	..	7·1	0·24	..	0·20	18	1	..	6·1	..	3	24	2	0	0	0	0	1	1	1	8	3	1	1	9	5	2	1	Nagercoil
																													Madras, South-East
·0	+1·2	5·1	2·91	—4·68	1·75	14	6	—3·4	12·5	+1·1	15	11	3	0	0	0	0	2	0	16	13	0	0	0	0	0	0	0	Pamban
·2	—0·1	6·1	0·87	—1·14	0·59	15	2	—1·6	3·8	—0·4	10	6	3	0	0	0	0	1	11	3	12	10	0	0	1	0	1	4	Madura

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 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.	Mean 8 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
Madras, South-East—*contd.*																						
Negapatam	31	1011·9	—0·7	1009·1	82·2	+0·2	85	21	73·1	+0·8	68	28	75·6	79·5	71·6	73·7	24·6	—0·6	25·8	88	—2	7
Trichinopoly	255	1004·8	—0·7	1000·9	87·7	+2·3	93	22	72·0	+2·4	66	29,30	75·0	84·9	70·4	72·4	23·4	+0·7	21·5	79	+1	5
Coimbatore	1,341	967·1	—1·1	963·2	86·6	+2·3	91	22	67·9	+1·9	60	15	70·8	84·2	66·5	68·3	20·2	—0·8	16·5	79	—3	4
Salem	913	981·7	—1·2	977·6	88·8	+2·7	95	22	67·7	+1·8	62	28,29,30	69·8	84·4	66·3	70·2	20·5	—0·3	18·8	82	+4	4
Cuddalore	39	1012·1	—0·9	1009·1	82·7	+0·1	86	22	70·3	+0·1	64	28	72·5	79·7	69·9	72·5	23·8	—0·7	24·0	88	+2	7
Vellore	703	989·8	—0·5	985·9	85·1	+2·7	90	23	66·5	+1·7	58	28	69·7	82·2	67·2	70·1	21·7	+0·3	19·7	88	0	5
Madras	51	1011·9	—1·1	1008·9	83·3	—0·8	86	17,18	69·1	+0·2	64	28	72·9	79·2	70·3	71·9	24·1	—0·4	23·4	87	0	6
Arogyavaram	2,299	936·0	..	932·9	78·6	..	85	24	60·4	..	54	28	68·2	76·0	62·6	63·8	17·9	..	16·1	81	..	5
Madras Deccan																						
Cuddapah	428	999·9	—0·7	995·9	87·6	+1·6	92	23,24	66·9	+1·2	59	3	74·9	79·5	66·8	68·5	18·8	—2·1	18·8	64	—15	5
Bellary	1,473	963·7 (h)	—0·8	959·7 (g)	84·0	—1·7	89	23,24	64·2	+2·3	60	5 days	68·5	82·4	62·9	65·8	17·1	+1·0	14·2	72	+2	3
Kurnool	923	983·3	—0·3	979·2	86·3	—0·1	91	24	61·3	+0·5	51	31	67·0	83·7	62·6	66·7	17·2	+0·6	14·7	77	+3	3
Rentichintala	348	1002·8	..	999·2	83·8	—2·0	88	23,24,25	63·1	+1·2	57	27,28	67·3	82·3	64·3	68·5	19·2	+1·4	17·5	84	+10	4
Anantapur	1,148	974·2	..	970·5	83·5	..	90	24	63·6	..	55	28	70·3	81·6	64·7	67·7	18·3	..	16·9	72	..	4
Madras Coast, North																						
Nellore	66	1011·6	+1·4	1008·8	83·5	—0·2	88	18	68·2	—0·2	62	15	71·3	79·2	69·4	71·8	23·6	—0·1	23·3	91	+4	6
Ongole	38	1013·0	..	1009·9	83·6	..	88	24	67·7	..	63	4 days	71·1	79·0	68·3	72·8	22·4	..	24·7	86	..	7
Masulipatam	10	1014·3	—1·5	1011·2	81·3	—1·3	85	12,24	68·9	+2·4	65	18,27,28	72·5	78·8	69·2	71·8	22·9	+1·8	23·4	84	+3	7
Cocanada	26	1014·1	—1·2	1011·1	79·7	—0·8	83	6	67·9	+1·5	62	13,27	74·0	77·9	68·5	70·4	21·3	+1·7	22·0	95	0	8
Vizagapatam	126	1010·5	—1·5	1007·9	80·1	—0·6	84	5,6	68·1	+0·2	62	27	71·5	76·6	67·3	68·8	21·0	+3·0	20·5	79	+13	6
Calingapatam	19	1014·3	—1·7	1011·7	78·8	—1·5	84	4,5	64·4	+1·3	59	27	67·4	76·4	64·3	68·7	19·2	+0·3	20·5	84	+3	6
Hill Stations excluding Kashmir																						
Shillong	4,921	852·9	+0·1	850·7	64·3	+2·7	72	14	41·5	+1·5	31	26	54·9	56·0	47·4	52.5	8·3	—0·9	12·6	54	—18	3
Cherrapunji	4,309	872·0	+0·2	869·6	64·7	+2·4	71	14	50·1	+2·1	42	26	59·9	57·3	50·8	52·3	9·1	—1·0	11·4	53	—10	3
Aijal	3,599	893·4	..	891·2	69·9	..	80	14	53·0	..	42	26	61·1	63·0	56·3	57·8	13·5	..	14·4	77	..	4
Darjiling	7,432	777·5	—0·5	775·8	55·9	+5·4	68	14	39·8	+3·2	32	25	47·0	45·9	40·1	42·0	5·9	—1·0	7·6	58	—11	2
Kalimpong	3,965	882·5	—1·1	880·4	64·5	+2·2	68	19	48·9	+0·7	43	13,26	52·6	55·7	49·0	51·5	10·5	—0·3	11·4	78	+2	4
Katmandu	4,388	871·0	..	867·9	67·8	+1·9	72	17	37·5	—0·2	31	26,27,28	42·6	57·7	40·8	49·9	7·9	+0·2	9·2	85	—4	3
Muktesar	7,592	773·1	—0·6	772·0	55·7	+2·5	63	6	39·9	+1·5	33	24,25	43·2	48·3	33·2	38·9	2·8	—1·0	4·8	33	—9	2
Mussooree	6,699	798·5	..	797·2	57·2	+3·6	65	27	41·5	+1·9	34	26	46·9	48·4	37·3	42·9	4·3	—0·6	7·5	39	—9	2
Simla	7,224	782·2	—0·8	781·4	52·5	+1·9	59	1,5,6	39·6	+0·3	32	25	43·9	47·1	33·9	39·6	3·1	—0·3	5·6	34	—3	2
Abu	3,945	881·5	—2·3	881·1	74·7	+6·3	80	8 days	51·9	—0·6	43	26	54·7	63·2	48·6	54·7	3·7	—2·7	11·6	64	+17	3
Pachmarhi	3,528	898·1	—0·1	896·2	72·9	+1·6	77	19	46·9	+1·1	40	25	53·6	68·2	48·9	57·0	9·9	—0·1	11·1	71	+6	3
Mahabaleshwar	4,534	864·7	—0·5	863·1	73·3	+0·6	77	20	56·6	+0·1	54	5 days	58·6	67·5	52·0	56·4	10·6	+1·3	11·1	64	+6	3
Mercara	3,781	886·4	—0·9	884·2	71·9	—3·0	70	25	58·9	+1·2	52	29	61·6	71·9	58·1	62·0	15·1	—0·5	14·9	81	—5	3
Ootacamund	7,364	780·9	+0·1	779·3	67·6	+2·6	71	15,28,30	41·5	—2·4	30	27,28,30	47·3	59·7	44·2	53·9	8·7	—0·2	12·1	80	+13	3
Coonoor	5,730	827·9	..	..	67·0	+1·4	71	21	48·7	—0·5	39	28,29	56·1	..	51·9	..	11·7	—0·2	..	75	0	..
Kodaikanal	7,688	771·8	+0·2	770·3	62·3	+0·6	68	28	47·6	+0·4	42	29,31	52·3	55·6	46·4	52·9	8·7	—0·4	12·7	68	+1	3
Ceylon																						
Colombo	24	1011·0	—0·5	1007·9	84·9	—1·5	87	7 days	72·0	—0·5	67	29,30	74·5	81·1	71·7	74·4	25·3	—0·5	26·0	87	—2	3
Trincomalee	24	1011·4	+0·3	1008·5	80·9	—1·6	89	1	73·4	—1·0	69	28	76·6	78·2	74·1	79·9	27·6	+0·5	28·1	88	0	3
Hambantota	61	1008·3	—1·3	1005·0	84·1	—0·5	87	28,29	73·0	—0·2	69	30	75·3	81·8	73·0	75·8	26·7	+1·0	27·7	89	—1	3
Mannar	12	1011·9	..	1008·9	82·5	..	87	24	74·8	..	70	28	77·0	80·2	73·3	74·2	26·3	..	26·2	83	..	3

(g) Mean of 24 days. (h) Mean of 23 days.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0.10″ or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from :—																	STATION.
											8 hrs. I.S.T.										17 hrs. I.S.T.									
Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 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
																													Madras, South-East—*contd.*
7·3	+1·0	6·8	2·21	−8·74	1·26	31	3	−6·1	9·7	+1·4	5	7	0	2	0	0	0	17	0	3	25	2	0	0	0	0	1	0	Negapatam
5·4	+0·6	5·5	0·42	−2·38	0·42	14	1	−3·5	4·3	+0·9	7	10	2	0	0	0	1	2	9	1	14	10	0	1	0	1	0	4	Trichinopoly
5·0	+0·3	4·9	0·16	−1·20	0·10	22	1	−1·6	3·4	+0·9	10	13	4	1	0	0	1	0	2	6	10	7	5	2	0	0	0	1	Coimbatore
4·8	+0·9	5·6	0·02	−1·01	0·02	14	0	−2·2	5·7	+2·4	0	10	16	0	0	0	0	0	5	0	3	16	3	0	0	0	0	9	Salem
5·8	+0·5	5·9	0·70	−6·79	0·33	18	3	−3·3	6·4	+1·6	5	1	0	0	0	0	2	19	4	1	20	7	1	0	0	0	1	1	Cuddalore
4·5	+0·4	5·6	0·43	−2·19	0·15	14	3	−0·9	3·5	+1·2	1	4	1	0	1	2	3	0	19	1	12	19	1	0	0	0	0	7	Vellore
5·7	+0·7	6·4	0·57	−4·88	0·37	21	1	−4·4	12·2	−0·3	1	2	1	0	0	0	1	26	0	1	23	2	0	0	0	0	5	0	Madras
5·5	..	6·2	0·49	..	0·25	21	2	..	2·3	..	2	0	0	0	2	0	0	0	27	5	10	9	1	0	0	0	3	3	Arogyavaram
																													Madras, Deccan
4·0	+0·4	4·3	0·39	−0·42	0·30	14	1	−0·5	2·9	−1·6	0	0	2	0	0	0	0	0	29	1	1	17	3	0	0	0	0	9	Cuddapah
5·0 (h)	+1·8	4·6 (g)	0·70	+0·57	0·57	14	2	+1·7	2·2 (k)	−0·2	0	2	3	1	0	0	0	0	25	0	7	15	1	0	0	0	0	8	Bellary
4·6	+2·3	4·9	0·45	+0·25	0·45	18	1	+0·7	2·0	−0·4	0	0	0	0	0	0	1	0	30	1	3	8	5	0	0	0	1	13	Kurnool
4·2	+0·2	5·1	2·59	+2·47	1·00	14	4	+3·6	2·9	−0·3	1	2	1	1	0	3	2	1	20	7	12	7	2	0	0	0	1	2	Rentichintala
3·2	..	4·0	0·55	+0·30	0·51	14	1	+0·5	4·5	..	1	3	4	0	0	0	0	0	23	1	12	11	1	0	0	0	0	6	Anantapur
																													Madras Coast, North
5·4	+0·4	4·9	1·73	−1·13	0·77	21	5	+2·0	3·5	+0·5	7	0	0	0	0	0	1	12	11	2	10	15	1	0	0	0	1	2	Nellore
6·4	..	5·5	3·62	..	1·55	15	4	..	3·6	..	12	1	2	0	0	0	2	12	2	5	10	11	2	0	0	1	1	1	Ongole
5·2	+2·7	5·3	8·88	+8·23	6.27	15	4	+3·1	6·1	+2·0	13	10	0	0	0	0	0	7	1	1	8	12	6	0	0	0	0	4	Masulipatam
4·5	+1·2	5·2	2·69	+1·99	1·88	15	3	+2·2	10·1	+3·7	5	20	0	0	0	0	0	6	0	0	12	4	15	0	0	0	0	0	Cocanada
5·2	+1·8	5·5	9·89	+9·32	5·05	15	8	+7·1	5·7	+2.3	8	7	0	0	0	0	4	1	11	2	13	15	1	0	0	0	0	0	Vizagapatam
6·6	+1·2	5·8	6·29	+5·75	3·05	15	6	+5·6	10·7	+5·2	0	5	5	0	0	0	10	11	0	0	8	16	7	0	0	0	0	0	Calingapatam
																													Hill Stations excluding Kashmir
2·5	+0·7	6·5	0·32	+0·04	0·19	1	1	+0·1	2·1	+0·9	1	2	3	3	1	3	0	1	17	1	2	0	0	0	1	0	3	24	Shillong
2·7	+0·5	3·4	0·05	−0·44	0·05	15	0	−0·7	3·8	+1·3	1	16	7	2	0	4	1	0	0	1	9	0	0	1	11	3	0	6	Cherrapunji
3·1	..	3·3	2·40	..	1·19	24	4	..	3·9	..	0	3	20	0	1	3	3	0	1	0	1	1	0	1	4	21	1	2	Aijal
3·8	+0·6	4·9	0·13	−0·14	0·11	25	1	+0·3	3·7	+1·8	0	3	14	4	0	0	5	1	4	1	3	1	2	0	1	15	1	7	Darjiling
2·9	+0·3	4·5	0·12	−0·20	0·12	3	1	+0·3	6·5	−0·3	3	0	0	0	0	0	2	24	2	0	0	1	26	4	0	0	0	0	Kalimpong
6·9	−0·7	2·3	0·05	−0·28	0·05	22	0	0·8	0·8	−0·2	1	3	4	1	1	0	0	0	21	3	1	0	1	0	0	0	1	25	Katmandu
1·8	−1·1	2·2	0·40	−0·65	0·31	22	1	−0·8	7·4	+2·2	0	6	7	1	1	2	7	3	4	0	1	4	2	2	6	12	2	2	Muktesar
2·3	−0·9	3·4	0·31	−1·07	0·19	21	1	−1·6	2·9	−1·6	5	5	1	7	4	1	1	0	7	3	1	0	3	14	6	0	0	4	Mussooree
2·7	−0·8	4·1	0·99	−0·25	0·62	23	2	−0·4	2·3	−0·7	1	3	2	8	8	1	0	0	8	3	6	1	4	9	5	0	0	3	Simla
0·4	−1·3	0·8	0	−0·12	0	..	0	−0·3	2·3	−0·6	0	4	1	0	2	1	3	1	19	0	4	0	0	0	2	0	2	23	Abu
2·5	−0·4	2·1	0·25	−0·18	0·25	23	1	−0·2	1·8	0	2	3	3	1	3	8	0	2	9	5	9	3	1	1	0	2	5	5	Pachmarhi
1·0	−0·8	1·3	0·10	−0·16	0·10	23	1	+0·4	1·3	−5·8	0	6	9	5	0	0	0	0	11	0	1	1	0	0	0	0	0	29	Mahabaleshwar
3·7	−1·5	3·8	2·72	+2·00	1·70	19	2	+0·8	6·4	−1·8	0	14	15	0	0	0	0	1	1	1	12	13	0	0	0	2	2	1	Mercara
3·7	−0·1	5·0	0·80	−0·92	0·32	22	4	+0·3	1·9	−1·0	1	3	5	0	1	0	0	0	21	9	7	3	0	2	0	1	0	9	Ootacamund
5·3	+0·1	..	12·06	+6·48	4·20	17	5	−1·6	4·6	+1·4	2	1	1	2	1	0	0	1	23	..	..	..	..	..	..	..	..	..	Coonoor
5·8	+1·4	7·5	1·00	−4·16	0·40	15	3	−4·1	7·5	−0·7	3	6	2	4	1	0	1	8	6	0	3	0	3	1	0	1	9	14	Kodaikanal
																													Ceylon
6·1	+0·6	6·6	6·33	+0·75	2·38	17	6	−1·6	..	..	7	15	5	1	1	0	0	0	2	12	6	0	0	0	2	3	7		Colombo
7·3	+1·3	6·8	29·07	+15·41	7·10	7	14	+0·4	..	..	7	7	3	0	0	1	5	6	2	20	3	2	1	0	0	1	4	0	Trincomalee
7·8	+3·2	8·3	3·29	−1·70	1·10	3	7	−1·3	..	..	21	0	0	0	0	1	0	9	0	5	3	3	8	6	3	1	2	0	Hambantota
6·2	..	6·4	5·54	..	1·69	6	7	..	..	..	10	10	8	1	0	0	1	1	0	19	10	2	0	0	0	0	0	0	Mannar

(*k*) Mean of 20 days.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2·30 HRS. G. M. T.) AT 4TH CLASS STATIONS—DECEMBER 1947.

STATION.	Maximum temperature, °F.				Minimum temperature, °F.				Mean dry bulb temperature, °F. 8 hrs. I.S.T.	Mean wet bulb temperature, °F. 8 hrs. I.S.T.	Vapour pressure, millibars.		Relative humidity. %		Mean cloud amount 8 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 8 hrs. I.S.T.	Departure from normal.	Mean 8 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 8 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	77·8	+3·8	81	1,11	52·0	+1·3	43	30,31	69·5	63·9	17·8	+2·6	73	—21	..	0.06	—0·08	0·04	25	0	—0·4	..	..
Kashmir																							
Jammu	68·3	+0·3	76	17	50·8	+1·7	46	25,26	52·8	48·4	9·6	+1·3	70	+5	4·8	4.74	+3·50	2·00	23	6	+3·4	N2W	..
Kargil (R)																							
Mysore																							
Balehonnur	78·5	—0·4	82	23	58·9	+0·3	51	29	64·6	60·5	16·4	+0·3	79	0	..	0·91	+0·44	0·77	17	1	+0·2	..	..
Tibet																							
Yatung (Chumbi)	50·3	+3·5	60	14	19·0	—2·1	13	25	25·4	24·3	4·2	+0·1	89	+3	1·7	0·05	—0·32	0·03	25	0	—0·8	..	..

R—Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2·30 HRS. G. M. T.) AT 5TH CLASS STATIONS—DECEMBER 1947.

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	..	Kashmir	Sonamarg (R)						
									Gurez	4·69	—0·93	1·25	29	7	—0·3
West Bengal	Bankura	0·80	+0·69	0·45	15	3	+2·7	Bombay, Deccan	Khandala (R)						
	Cooch Behar	0	—0·16	0	..	0	—0·3	Madras, Southeast	Palamcottah	1·24	—3·00	1·24	16	1	—4·4
								Sikkim	Lachung	0·67	+0·04	0·48	25	1	—0·9
Bihar	Muzaffarpur	0	—0·12	0	..	0	—0·3								
	Chapra	0	—0·14	0	..	0	—0·4								
	Arrah	0	—0·17	0	..	0	—0·5								
United Provinces, West	Meerut	0·17	—0·31	0·17	21	1	—0·2								
East Punjab	Dharampore	1·43	—0·35	0·68	22	2	—0·5								
	Kyelang	1·51	+0·39	0·60	22	4	+1·1								
	Dalhousie	3·59	—0·26	2·00	27	2	—2·5								

R—Register not received.

MONTHLY MEANS OF UPPER WINDS

Note.—Data upto 9·0 Km.a.s.l. are given under Table A and data above 9·0 Km. under Table B. In Tables A & B:—

n represents the number of observations,

V represents the mean speed in m/sec. irrespective of directions,

v represents the resultant mean velocity in m/sec.,

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

For the co-ordinates of the stations for which data have been published in these tables and other particulars please refer to the Introduction to the Monthly Weather Report, January 1947, and the subsequent issues.

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 km. above sea level

December 1947

Height in km.	AHMEDABAD												ALLAHABAD											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	1·4	6	31	1·5	1·3	33	31	1·8	0·9	40	31	0·1	0·1	284	31	1·0	0·6	287	31	2·2	1·6	307
0·15 a. g.	31	7·3	5·8	27	31	8·6	7·4	57	30	3·4	1·5	17	31	5·8	2·0	353	31	5·2	1·1	313	31	3·9	2·4	316
0·6 a. s. l.	31	5·0	3·3	41	31	6·0	3·9	66	31	3·0	1·0	25	31	5·4	2·9	326	31	5·6	2·4	327	31	4·3	2·6	309
1·0 ,,	31	3·8	1·1	86	31	4·0	1·5	75	30	2·8	0·5	11	31	5·6	4·4	311	31	6·3	4·3	309	31	5·7	4·4	305
1·5 ,,	31	4·2	1·8	177	31	4·7	1·7	186	31	3·7	0·9	227	30	6·8	5·7	308	31	8·0	6·2	304	31	8·1	4·4	307
2·0 ,,	31	5·8	3·4	192	31	6·5	3·4	202	31	5·0	2·5	230	26	6·7	5·5	298	31	9·4	7·4	302	31	8·1	6·9	301
2·5 ,,	30	6·6	4·0	214	31	6·7	4·0	215	31	5·6	3·6	236	13	4·0	2·4	267	30	8·8	7·0	299	31	8·3	6·9	299
3·0 ,,	28	7·4	4·2	217	31	7·0	4·4	243	31	6·9	5·4	249	9	6·6	4·9	267	29	8·5	6·7	289	30	9·6	8·2	288
4·0 ,,	3	14·0	9·9	282	26	8·5	5·9	253	31	10·1	8·9	258					22	9·3	7·6	262	26	12·4	10·8	273
5·0 ,,					25	12·8	10·1	257	29	13·4	12·2	256					13	12·4	11·0	252	21	15·0	13·5	266
6·0 ,,					20	15·9	13·4	258	29	18·6	17·6	256					8	16·1	14·9	244	17	18·4	16·9	268
7·5 ,,					7	19·9	18·2	258	24	24·6	22·6	256					2	22·5	22·4	245	9	24·3	20·8	264
9·0 ,,					3	25·5	25·3	248	8	25·5	23·8	264									5	32·3	28·8	259

Height in km.	AMBALA												ANANTAPUR								ASANSOL			
	0100				0700				1600				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	0·4	40	31	1·6	0·4	39	31	1·9	0·5	109	31	0·6	0·4	76	31	2·6	2·4	61	31	1·6	1·3	320
0·15 a. g.	13	7·6	2·3	112	13	9·1	3·5	110	14	7·0	1·1	137	30	3·9	3·1	91	31	4·7	4·4	64	29	4·9	4·1	353
0·6 a. s. l.	13	8·4	2·9	113	13	10·5	3·1	121	14	7·6	1·8	131	30	5·5	4·7	102	31	4·9	4·6	66	29	5·9	4·2	344
1·0 ,,	13	8·8	3·5	124	13	10·5	3·2	135	14	9·3	2·4	127	29	8·4	7·8	90	31	5·2	4·7	70	29	6·1	5·1	325
1·5 ,,	13	8·5	3·2	149	13	9·5	3·7	132	13	10·4	3·6	140	28	7·7	6·7	75	28	5·5	4·6	70	22	6·4	5·1	313
2·0 ,,	11	7·3	2·2	228	12	8·8	2·2	144	11	8·5	1·5	201	27	7·8	6·1	71	27	5·4	4·2	73	18	6·5	6·3	308
2·5 ,,	8	5·4	3·3	243	12	9·3	1·3	61	10	9·5	2·3	273	27	6·3	3·8	65	27	4·8	3·1	77	4	6·1	5·8	308
3·0 ,,	6	7·3	5·4	262	10	8·5	3·2	268	9	9·8	3·8	229	27	5·3	2·8	67	26	4·4	1·7	86	3	7·8	7·1	296
4·0 ,,					10	10·6	7·8	269	8	10·0	7·1	264	26	4·0	1·1	117	25	4·1	1·0	90				
5·0 ,,					6	13·2	10·8	266	6	11·3	8·9	235	23	5·3	1·4	98	22	4·9	1·3	91				
6·0 ,,					4	20·4	15·3	279	5	12·4	10·9	234	17	5·7	2·1	330	19	5·1	0·2	294				
7·5 ,,					1	20·5	20·5	295	1	15·0	15·0	265	9	8·4	6·8	302	6	9·1	6·6	259				
9·0 ,,					1	29·5	29·5	290					5	12·7	11·3	286	2	14·0	13·5	262				

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 km. above sea level

December 1947

Height in km.	ASANSOL								BALASORE				BANGALORE								BAREILLY			
	0700				1600				0700				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	1·2	303	31	1·9	1·5	323	31	2·4	2·2	335	31	2·5	2·4	64	31	2·9	2·4	68	31	0 5	0·3	336
0·15 a. g.	30	5·3	4·0	334	30	3·9	3·0	332	27	5·3	5·0	4	27	6·9	6·6	72	31	4·7	4·0	63	31	6·7	3·3	323
0·6 a. s. l.	30	5·5	3·5	357	30	4·5	3·7	332	27	5·1	4·3	22	..	..	..	..	..	..	..	..	31	7·4	2·9	317
1·0 „	30	5·9	4·0	338	30	4·9	4·2	324	27	5·7	4·1	11	27	5·6	5·3	73	31	4·4	3·7	61	30	7·7	3·2	319
1·5 „	30	6·6	5·2	327	28	5·7	4·7	317	27	6·6	3·7	342	27	6·7	5·5	62	30	5·1	4·5	71	30	7·6	3·7	313
2·0 „	28	7·1	5·5	310	27	6·7	5·9	316	26	6·5	3·7	331	27	5·4	4·1	58	29	4·6	4·0	74	30	7·2	4·0	29(
2·5 „	23	7·8	6·5	308	22	6·9	6·0	297	26	6·5	3·4	290	26	4·8	2·8	67	23	4·4	3·5	68	28	6·9	4·4	28
3·0 „	17	8·8	7·1	293	18	7·8	6·8	290	26	6·9	4·0	275	25	4·4	2·7	69	22	4·3	1·8	65	28	7·6	5·5	269
4·0 „	6	6·1	5·1	269	11	9·7	8·1	280	24	8·5	5·7	278	24	3·4	2·1	84	19	3·4	1·9	92	23	9·3	7·3	259
5·0 „	4	11·5	11·3	259	6	15·1	13·1	269	21	10·6	8·3	276	22	4·4	2·3	70	18	4·5	2·3	85	16	12·7	11·3	251
6·0 „	3	17·0	16·3	260	2	20·7	20·7	250	16	12·2	11·0	262	21	4·5	1·9	48	18	5·1	1·6	74	11	16·5	15·9	249
7·5 „	1	29·0	29·0	245	1	24·0	24·0	240	6	14·5	12·2	262	16	4·4	0·9	53	12	5·5	2·6	308	3	18·5	18·5	235
9·0 „									1	17·5	17·5	210	8	4·9	2·5	204	11	7·2	4·3	243				

Height in km.	BAREILLY				BHOPAL								BHUJ							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·8	0·4	273	31	2·6	1·6	81	31	2·3	1·0	82	31	2·5	1·1	35	31	0·8	0·3	15	31	0·1	Calm.	
0·15 a. g.	31	5·4	2·6	291	31	6·2	4·7	84	31	6·6	4·0	121	31	3·7	1·9	29	31	5·6	4·6	25	31	5·9	4·4	29
0·6 a. s. l.	31	5·5	2·6	298	31	5·9	4·0	82	31	5·5	3·3	117	31	3·6	1·9	24	31	7·4	5·8	37	31	7·6	·7	40
1·0 „	31	6·1	3·0	301	31	5·4	3·5	87	31	5·7	2·5	126	31	3·5	1·8	13	30	5·5	3·9	40	30	6·0	3·3	40
1·5 „	31	6·9	4·2	309	31	4·4	0·3	190	31	4·9	1·1	153	30	3·6	1·3	336	30	6·0	2·7	25	30	6·4	1 6	37
2·0 „	31	7·2	4·7	292	25	4·5	1·7	281	30	4·8	2·3	291	29	4·1	1·6	294	28	5·9	1·9	305	30	6·2	1·6	196
2·5 „	31	7·8	5·1	289	12	4·5	2·6	265	29	5·7	3·1	287	29	4·8	2·5	271	22	6·1	2·3	287	29	6·2	2·1	219
3·0 „	31	8·5	5·7	290	7	6·8	2·8	248	28	6·4	3·8	286	29	6·5	3·9	267	14	7·0	4·2	260	28	6·5	3·9	259
4·0 „	29	10·4	8·0	276					19	8·9	6·2	274	23	10·6	8·3	260	4	9·5	8·2	259	25	7·8	6·8	256
5·0 „	23	13·5	11·8	257					9	11·2	9·0	270	19	15·0	13·5	258					21	11·7	11.0	257
6 0 „	22	19·4	18·1	257					4	23·3	19·8	240	16	18·4	17·1	246					17	15·5	14·8	250
7·5 „	15	25·3	24·3	251									7	22·0	20·8	250					9	19·9	19·2	247
9·0 „	4	29·5	29·3	255									4	29·1	29·0	256								

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 km. above sea level

December 1947

Height in km.	BHUJ				BIKANER								BOMBAY							
	1600				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·0	2·5	10	31	1·9	1·2	102	31	1·0	0·6	335	31	0·5	0·4	32	31	1·6	0·9	78	31	4·5	4 1	308
0·15 a. g.	30	5·0	3·4	22	29	5·1	2·5	87	30	3·3	1·8	334	31	4·2	3·8	23	31	4·7	3·5	62	31	4·1	3·5	307
0·6 a. s. l.	31	4·8	2·7	22	29	4·7	2·1	35	30	3·6	2·0	342	31	4·9	3·3	49	31	5·1	3·7	88	30	2 9	1·4	6
1·0 ,,	31	4·2	2·1	13	29	4·3	1·8	327	30	3·8	1·7	339	31	4·4	2·6	89	31	4·2	3·1	99	30	3·1	1·8	73
1·5 ,,	31	4·5	0·9	302	29	5·0	2·4	303	30	4·6	1·5	276	31	4·1	3·1	125	31	3·6	2·5	142	28	3·8	2·1	94
2·0 ,,	30	5·5	2·4	255	29	6·6	3·1	261	31	5·7	3·2	261	26	4·8	3·2	147	31	4·2	2·8	166	28	4·6	2·0	127
2·5 ,,	30	6·5	4·0	260	28	6·9	5·1	252	31	7·5	5·2	257	22	4·7	1·9	190	31	4·7	2·4	194	30	4·7	1·7	158
3·0 ,,	29	7·2	5·9	260	26	7·5	5·5	253	29	9·4	6·5	255	11	5·2	1·4	259	30	5 7	2·2	245	31	5·0	1·1	215
4·0 ,,	28	10·0	8·7	261	21	9·5	8·8	253	26	11·1	9·5	267	2	8·5	6·0	310	30	6·5	3·8	258	30	6·2	3·5	251
5·0 ,,	27	13·9	12·3	259	13	10·6	9·9	255	25	14·1	12·5	266					28	8·7	6·7	264	30	9·0	6·9	254
6·0 ,,	20	17·7	16·3	261	2	13·3	13·1	252	18	19·0	18·1	258					27	10·9	9·1	258	30	11·4	9·5	255
7·5 ,,	11	23·2	22·0	255					3	19·0	18·4	263					13	13·3	11·3	268	25	17·1	15·7	256
9·0 ,,	1	13·0	13·0	275					1	24·5	24 5	270					5	17·2	14·6	281	11	22·1	20 9	249

Height in km.	CALCUTTA												COCHIN							
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·1	1·0	336	31	1·7	1·5	353	31	2·4	2·0	337	31	1·6	1·1	76	31	1·5	1·3	69	31	4·5	4·3	255
0·15 a. g.	29	6·5	4·6	4	30	5 1	4·3	12	31	4·1	3·3	343	28	2·3	0·7	52	31	3·0	2·7	82	31	3·6	3·5	259
0·6 a. s. l.	29	6·8	5·6	353	29	5·3	4·3	4	30	4·5	3·5	343	28	2·2	0·2	14	31	2·7	1·4	65	31	2·2	1·3	29
1·0 ,,	29	7·6	6·0	341	29	6·0	4·4	360	30	4·9	3·8	332	28	2·8	1·8	97	31	2·9	1·4	49	31	3·1	2·0	34
1·5 ,,	29	7·5	5·0	314	29	7·0	4·3	313	29	5·7	3·9	311	27	3·1	2·5	81	29	3·2	1·9	43	31	4·0	3·3	61
2·0 ,,	27	8·8	6·5	294	27	6·9	4·6	301	27	6·8	5·6	310	24	3·6	2·9	47	25	3·6	1·3	353	31	3·6	2·8	65
2·5 ,,	18	8·9	7·8	281	25	7·7	6·0	291	27	8·9	7·8	298	16	3·9	1·6	35	24	3·7	1·1	50	31	3·7	2·5	67
3·0 ,,	15	9·1	8 1	277	25	8·5	7·0	278	25	8·7	7·2	285	9	3·5	1·1	2	24	4·2	1·8	75	31	3·8	2·5	63
4·0 ,,					18	8·9	7·5	268	20	10·5	9·9	277	2	5·5	4·9	163	17	3·1	1·2	55	29	4·1	2·6	65
5·0 ,,					13	10·6	8·5	274	16	11·9	10·6	276					17	3·5	2·5	78	24	3·9	2·7	49
6·0 ,,					10	14·1	11·3	259	11	15·6	14·4	269					13	4·3	2·7	43	20	3·9	2·7	44
7·5 ,,					1	24·0	24·0	250	3	23·2	22·4	265					9	4·2	1·9	40	15	5·4	1·6	63
9·0 ,,									2	29·3	29·3	270					5	3·9	1·6	355	11	5·3	0·3	82

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 km. above sea level

December 1947

Height in km.	COOCH BEHAR								CUTTACK												DEOLALI			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·1	1·8	68	31	0·9	0·1	84	31	0·3	0·3	21	31	1·0	0·6	14	31	0·9	0·6	19	24	1·3	1·1	20
0·15 a. g.	31	5·1	4·7	76	31	2·3	0·3	95	27	4·1	1·3	22	28	4·8	3·8	21	28	3·5	2·4	13	24	3·3	2·8	94
0·6 a. s. l.	31	5·1	4·3	80	31	2·6	0·5	76	26	4·9	3·1	37	26	6·4	5·3	42	27	3·6	2·5	14	24	1·9	1·7	53
1·0 „	31	5·3	4·2	76	31	3·2	1·1	80	26	5·2	3·5	16	26	6·9	5·3	35	26	4·4	3·4	359	24	7·0	6·3	123
1·5 „	31	5·3	4·6	82	31	4·1	1·7	92	26	6·6	3·9	5	25	7·1	4·7	8	23	6·2	4·7	348	24	5·2	4·8	126
2·0 „	31	4·6	3·2	82	31	4·1	0·7	69	24	6·7	4·1	2	25	6·9	4·2	359	23	6·7	4·8	335	24	4·1	2·6	156
2·5 „	30	4·9	0·7	66	31	5·4	2·8	289	18	5·5	3·3	340	24	5·5	2·3	323	23	6·2	4·1	314	24	4·7	3·0	196
3·0 „	30	6·7	4·4	268	30	7·2	6·0	280	11	6·0	3·8	303	24	5·3	2·5	283	22	6·3	4·2	299	24	5·5	2·9	233
4·0 „	29	11·8	11·5	273	29	12·7	12·0	277	1	2·0	2·0	280	21	6·6	4·6	275	20	6·8	4·8	289	24	7·4	5·0	253
5·0 „	22	16·4	15·9	269	25	17·9	16·7	275					18	8·0	5·9	275	18	8·8	6·3	273	24	9·6	7·7	251
6·0 „	15	19·2	18·4	266	17	21·4	20·4	271					15	9·8	7·5	267	16	11·1	8·5	271	21	12·9	11·2	251
7·5 „	5	24·5	21·8	282	3	27·3	27·2	238					7	13·5	12·3	238	14	14·6	13·0	245	14	17·5	15·0	269
9·0 „													5	13·7	13·0	236	8	16·4	15·6	245	10	21·4	20·6	256

Height in km.	GADAG								GAYA												GOPALPUR			
	0700				1600				0100				0700				1600				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·8	4·4	113	31	4·1	3·4	76	31	1·3	0·8	154	31	1·4	1·0	178	31	2·2	1·7	315	31	4·8	4·7	340
0·15 a. g.	31	7·5	7·1	106	30	5·4	4·7	74	31	4·1	1·4	318	31	4·5	2·5	236	31	4·0	3·2	314	28	6·7	6·1	2
0·6 a. s. l.	..	..	..	..	..	..	..	..	31	5·3	2·8	320	31	5·3	2·5	303	31	4·6	3·4	305	28	6·4	5·9	41
1·0 „	31	9·1	8·6	98	30	5·3	4·7	71	31	6·1	4·4	304	31	5·7	3·5	302	31	5·0	3·8	298	26	6·6	5·5	39
1·5 „	30	7·2	6·7	86	30	5·1	4·6	79	28	7·2	5·0	310	31	7·7	5·9	308	31	6·9	5·6	296	26	8·0	5·7	38
2·0 „	28	6·2	5·2	76	28	4·9	4·3	82	14	5·0	3·6	300	30	8·1	6·4	308	30	9·2	8·2	300	24	6·9	4·3	40
2·5 „	25	5·5	3·4	77	26	5·2	3·6	88	2	3·7	1·7	54	29	9·1	7·7	304	29	10·4	9·3	293	20	5·3	2·3	21
3·0 „	25	4·6	2·0	96	23	4·5	1·7	75	2	4·0	3·9	48	25	8·4	6·4	288	27	10·2	9·2	292	20	4·6	1·7	1
4·0 „	24	4·0	0·2	129	21	4·0	1·1	126					11	9·2	7·8	260	25	11·6	10·3	278	18	5·0	2·6	289
5·0 „	22	5·5	1·2	194	19	5·6	1·8	129					3	12·7	12·2	248	11	15·6	14·8	248	15	6·4	4·1	274
6·0 „	19	5·6	0·3	276	13	6·5	1·4	189					1	26·0	26·0	245	5	15·6	15·2	248	11	8·4	6·3	268
7·5 „	17	7·9	6·4	268	8	10·7	8·7	234									1	30·0	30·0	245	5	8·2	7·2	258
9·0 „	12	12·1	12·0	235	4	12·2	10·7	233									1	41·5	41·5	240	4	11·4	9·3	242

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 km. above sea level

December 1947

Height in km.	GOPALPUR 1600				GORAKHPUR 0700				GORAKHPUR 1600				HYDERABAD (Dn.) 0100				HYDERABAD (Dn.) 0700				HYDERABAD (Dn.) 1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·9	2·9	64	31	1·6	0·8	303	31	1·8	1·1	269	31	1·7	1·2	68	31	0·6	0·4	60	31	2·9	2·5	71
0·15 a. g.	28	5·6	4·6	61	31	4·3	2·4	314	31	3·4	1·9	279	31	6·6	5·6	80	31	4·7	3·5	91	31	4·7	3·7	70
0·6 a. s. l.	27	4·6	4·0	28	31	4·8	1·5	309	31	4·2	2·2	286	31	4·0	3·4	71	30	2·4	1·6	74	31	4·1	3·4	75
1·0 ,,	26	5·9	4·3	7	31	5·3	1·1	334	31	5·2	2·3	287	29	8·2	7·0	81	30	7·4	6·3	78	31	5·3	4·5	69
1·5 ,,	25	6·6	4·3	359	31	6·2	2·3	315	31	6·7	2·9	296	27	7·4	6·4	69	29	7·5	6·0	71	30	4·9	4·1	68
2·0 ,,	23	6·4	3·8	9	30	7·1	4·1	308	28	6·3	4·5	299	25	5·8	4·4	59	28	6·7	4·6	55	29	5·1	4·0	54
2·5 ,,	23	5·5	2·4	360	28	7·7	5·0	302	26	8·2	6·7	291	24	4·9	2·7	38	27	5·6	2·8	47	26	5·3	2·9	59
3·0 ,,	21	5·4	2·9	328	23	6·4	4·9	290	22	8·2	6·6	295	23	5·0	1·5	28	27	5·3	1·8	64	26	5·9	2·2	69
4·0 ,,	20	5·4	2·8	305	16	7·3	6·1	257	16	7·3	5·9	252	5	4·8	2·6	192	27	6·0	0·5	237	22	5·6	0·9	198
5·0 ,,	18	7·0	2·2	271	9	13·1	12·8	246	12	11·2	9·2	244	1	4·5	4·5	265	26	6·8	2·1	249	19	6·5	1·8	207
6·0 ,,	17	9·0	5·0	255	4	17·6	17·5	247	9	14·8	12·0	243					26	7·4	3·3	254	19	7·9	2·0	239
7·5 ,,	13	11·3	8·7	251					3	34·0	33·2	254					14	10·9	9·3	255	18	9·8	5·6	240
9·0 ,,	10	12·3	9·8	259													4	15·6	14·5	248	17	13·8	10·6	242

Height in km.	JAMSHEDPUR 0700				JAMSHEDPUR 1600				JHARSUGUDA 0100				JHARSUGUDA 0700				JHARSUGUDA 1600				JODHPUR 0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surafce	31	1·2	0·7	285	31	1·6	0·9	333	31	1·1	1·0	16	31	1·5	1·4	13	31	1·0	0·7	348	31	3·2	3·0	85
0·15 a. g.	30	3·1	2·0	289	31	3·1	1·7	347	31	4·3	2·8	33	31	4·6	4·3	31	31	2·7	1·7	357	31	6·9	5·4	46
0·6 a. s. l.	30	3·8	1·9	18	30	3·1	1·9	346	31	4·4	2·5	31	29	4·6	3·1	38	31	2·8	1·7	355	31	5·7	4·0	48
1·0 ,,	29	4·7	2·7	359	28	4·1	3·3	334	30	4·8	2·5	15	29	4·9	3·1	21	30	3·1	2·1	347	31	5·1	1·8	49
1·5 ,,	28	6·2	4·1	330	28	5·4	4·4	322	29	5·4	2·8	1	27	6·4	4·2	356	27	4·5	3·4	341	30	5·3	0·7	337
2·0 ,,	27	7·4	4·6	315	27	7·4	6·2	314	20	5·5	3·6	342	26	7·0	4·6	332	26	6·5	4·8	333	19	3·9	2·8	242
2·5 ,,	23	7·6	5·7	307	24	8·5	7·5	303	16	6·6	4·4	310	26	6·8	4·9	327	26	7·1	5·1	315	5	3·6	3·3	248
3·0 ,,	20	6·0	6·5	295	24	9·3	7·9	292	10	7·1	5·6	304	24	7·4	4·7	317	26	7·5	5·6	293	1	4·0	4·0	355
4·0 ,,	9	6·9	6·7	283	18	10·8	8·9	285	1	9·5	9·5	315	22	8·9	6·6	272	24	10·2	8·4	282				
5·0 ,,	2	7·7	7·7	257	14	13·2	11·6	267					22	11·3	8·9	265	21	12·6	10·7	271				
6·0 ,,	1	15·0	15·0	260	12	16·4	15·5	256					18	14·4	13·0	252	18	16·4	14·2	271				
7·5 ,,					2	22·3	22·2	239					7	17·3	16·4	252	15	19·7	17·7	257				
9·0 ,,													2	19·3	18·7	249	5	20·2	19·1	246				

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 km. above sea level

December 1947

Height in km.	JODHPUR								JUBBULPORE								MADHOSAGAR							
	0700				1600				0700				1600				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·9	2·7	48	31	2·7	1·1	18	31	1·2	0·8	130	31	1·8	1·4	7	31	1·2	0·4	221	31	2·1	0·8	355
0·15 a. g.	31	6·1	4·5	67	30	3·7	1·2	342	31	3·5	1·7	105	31	3·6	3·0	360	30	5·4	1·3	104	31	3·7	1·5	346
0·6 a. s. l.	31	5·6	3·6	68	30	3·8	0·2	321	31	3·9	1·9	94	31	3·6	3·0	359	30	6·5	1·5	119	31	3·5	1·1	343
1·0 „	31	5·6	1·6	69	31	4·0	0·3	323	31	4·5	1·1	34	31	3·6	2·8	1	30	6·6	0·6	222	31	4·2	1·2	300
1·5 „	30	6·8	0·3	111	31	4·4	0·5	229	31	4·7	2·4	340	31	3·8	2·4	346	30	6·6	2·7	276	29	6·1	4·0	283
2·0 „	28	6·6	2·3	261	30	5·9	2·6	245	31	5·7	3·3	334	31	4·6	3·0	331	29	6·6	4·9	280	29	7·7	6·0	281
2·5 „	25	6·7	4·6	244	30	7·8	4·3	252	31	5·4	3·4	307	31	5·4	3·6	301	28	7·7	6·1	272	29	9·0	7·2	279
3·0 „	25	8·4	5·3	240	30	9·8	5·5	253	31	6·2	4·3	285	31	6·8	4·9	277	26	8·1	6·9	262	29	9·7	7·7	276
4·0 „	15	10·2	8·3	243	26	13·2	11·0	258	27	9·9	7·7	265	30	10·7	8·1	263	22	9·5	8·7	264	23	12·2	10·4	271
5·0 „	3	10·9	10·0	311	20	15·4	14·3	260	23	14·7	13·7	256	27	14·4	12·1	264	15	13·7	12·9	256	11	15·5	13·1	263
6·0 „					14	20·6	18·6	265	17	18·8	17·5	253	25	18·5	16.0	256	5	17·5	17·0	256	4	15·0	11·6	266
7·5 „					4	25·0	22·5	270	2	21·0	21·0	264	23	25·6	23·6	252	1	27·5	27·5	290				
9·0 „									1	28·0	28·0	230	10	33·7	30·9	248	1	31·5	31·5	260				

Height in km.	MADRAS												MALEGAON CAMP											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·7	2·2	342	31	2·2	2·1	327	31	4·8	4·3	37	31	1·2	0·9	283	31	1·0	0·9	281	31	1·9	1·3	82
0·15 a. g.	30	6·3	5·5	28	30	5·6	5·1	6	31	6·2	5·5	34	31	4·2	3·0	80	31	3·0	1·2	141	31	3·1	2·2	76
0·6 a. s. l.	30	7·5	6·7	37	28	6·9	6·3	35	29	6·7	6·2	35	31	4·1	3·0	80	31	3·0	1·2	141	31	3·0	2·2	76
1·0 „	28	7·3	6·6	42	27	7·5	6·8	42	27	7·2	6·7	33	31	5·7	4·7	93	31	5·8	4·7	127	31	3·4	1·8	90
1·5 „	24	7·0	6·1	43	23	7·3	6·1	50	23	6·2	5·7	32	31	4·6	3·7	108	31	5·4	4·3	128	31	3·9	1·3	136
2·0 „	19	5·5	4·3	45	22	6·2	4·9	60	18	5·2	3·7	34	31	4·0	2·7	129	30	4·0	1·9	146	31	4·0	1·6	169
2·5 „	12	3·7	1·8	98	19	4·9	4·1	69	13	4·5	1·4	60	30	4·4	2·7	194	30	4·8	1·8	204	29	4·8	1·7	204
3·0 „	8	4·4	2·9	98	18	4·3	3·3	88	9	2·8	1·2	57	28	5·2	3·0	218	30	6·0	3·1	239	29	4·4	2·0	234
4·0 „	1	3·0	3·0	155	13	3·7	2·6	115	5	3·6	2·2	140	18	7·5	6·2	250	27	7·4	5·1	261	27	10·5	4·9	254
5·0 „					12	4·4	2·3	126	4	4·5	3·6	191					27	10·1	7·5	259	25	12·7	7·3	259
6·0 „					10	4·2	2·5	134	2	2·5	2·2	216					26	12·5	9·6	254	23	17·7	10·9	246
7·5 „					3	5·8	3·9	339	2	4·3	1·7	299					15	16·9	14·7	262	17	18·2	16·9	251
9·0 „					2	8·5	4·2	285	1	6·0	6·0	260					8	19·9	18·4	247	9	17·0	16·5	258

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 km. above sea level

December 1947

Height in km.	MANGALORE												MASULIPATAM											
	0100				0700				1600				0100				0700				1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·5	2·0	68	31	3·6	3·5	87	31	3·1	2·6	283	31	1·1	1·0	32	31	1·3	1·2	16	31	2·1	1·7	79
0·15 a. g.	31	3·8	2·8	28	30	6·0	5·7	86	30	4·0	3·5	278	30	6·1	5·4	68	29	6·0	5·7	41	30	5·2	4·5	71
0·6 a. s. l.	31	3·5	2·3	5	30	5·3	4·2	80	29	2·1	0·7	47	29	7·6	6·7	71	29	7·2	6·6	67	30	6·2	5·3	55
1·0 ,,	31	3·6	2·3	60	30	4·0	3·4	91	29	3·2	2·9	78	30	7·3	5·9	58	29	7·2	6·3	62	29	7·4	6·0	46
1·5 ,,	29	4·7	4·2	84	30	3·7	2·9	99	31	4·7	4·3	73	30	7·6	6·1	59	28	7·5	6·3	62	25	6·9	5·3	48
2·0 ,,	29	6·0	5·5	93	30	3·4	2·0	97	30	5·1	4·3	71	23	7·0	5·0	57	24	6·8	5·6	54	23	6·0	4·5	44
2·5 ,,	25	5·2	3·2	99	29	3·6	1·7	71	30	4·0	2·8	71	17	4·0	2·2	58	24	5·5	3·7	56	22	5·0	2·7	50
3·0 ,,	18	3·9	1·4	110	28	3·4	2·0	73	30	3·7	2·7	77	15	3·2	1·5	112	23	4·9	2·2	80	22	4·9	1·1	88
4·0 ,,	1	2·5	2·5	200	27	3·1	2·1	76	29	3·4	1·5	85	9	4·6	2·7	173	22	4·4	1·6	115	22	4·5	1·3	105
5·0 ,,					26	3·8	2·0	84	27	4·2	1·8	52					21	5·3	1·9	116	22	5·0	1·5	115
6·0 ,,					25	5·2	2·7	32	24	4·6	2·0	39					13	4·1	1·4	229	21	6·0	0·5	15
7·5 ,,					12	5·4	3·0	268	10	5·8	2·8	240					10	7·5	4·1	243	18	7·9	3·6	254
9·0 ,,					8	5·6	3·8	226	2	7·5	2·3	181					8	10·6	7·2	255	15	11·5	8·2	250

Height in km.	MINICOY								NAGERCOIL												NAGPUR			
									0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·0	0·3	10	31	2·1	1·3	14	31	3·2	2·9	51	31	2·1	1·8	42	31	3·7	0·6	106	31	1·4	0·9	27
0·15 a. g.	31	2·8	1·0	358	31	3·5	2·4	16	31	6·8	6·2	50	31	4·6	3·9	41	31	6·5	1·9	70	31	5·0	3·9	70
0·6 a. s. l.	31	2·8	1·2	32	31	3·4	2·6	20	31	6·3	5·7	44	31	4·4	3·6	30	31	4·6	2·0	38	31	5·8	4·8	81
1·0 ,,	30	3·2	1·9	52	26	2·9	2·2	38	31	5·8	5·0	30	31	4·0	3·2	22	31	4·3	3·1	30	31	5·5	4·6	76
1·5 ,,	29	3·8	2·6	64	23	3·0	1·9	42	31	5·7	4·9	27	31	4·3	2·9	21	26	4·5	4·1	17	29	4·6	3·3	58
2·0 ,,	28	3·0	2·0	63	22	2·9	1·3	11	31	5·0	3·4	46	31	4·4	2·7	26	26	5·1	4·3	11	20	4·5	3·5	31
2·5 ,,	28	3·1	1·1	30	22	3·1	1·6	336	29	3·6	2·6	45	30	3·7	2·1	28	25	4·5	2·9	19	14	5·8	3·5	22
3·0 ,,	28	3·6	1·1	334	22	3·7	1·6	316	29	3·3	1·6	48	29	3·4	1·4	56	25	4·1	2·2	35	5	6·8	1·5	313
4·0 ,,	26	3·4	0·7	60	18	4·0	1·1	352	17	4·3	2·4	53	27	3·8	1·3	31	21	4·3	3·1	30	1	12·0	12·0	245
5·0 ,,	25	4·4	1·5	70	18	4·0	1·1	352	9	4·9	1·9	47	25	3·8	1·9	53	20	4·3	2·6	33				
6·0 ,,	20	4·2	2·9	63	10	4·7	2·4	70	3	6·8	6·7	80	24	4·3	2·8	64	19	4·1	2·5	50				
7·5 ,,	14	5·4	3·4	104	7	4·4	2·2	101	1	12·0	12·0	40	19	4·9	3·6	102	14	4·7	3·7	49				
9·0 ,,	10	5·3	1·8	175	4	3·4	2·9	213					17	5·2	2·9	117	11	4·3	1·8	59				

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 km. above sea level

December 1947

Height in km.	NAGPUR								NEW DELHI								POONA			
	0700				1600				0100				0700				1600				0100			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·8	0·7	16	31	1·7	1·5	50	31	2·1	1·0	311	31	2·0	0·6	247	31	3·9	1·7	335	31	0·3	0·1	199
0·15 a. g.	31	4·5	4·1	36	31	3·2	2·8	54	30	7·8	3·1	327	30	6·5	2·1	334	31	4·9	2·0	337	31	3·9	1·9	98
0·6 a. s. l.	30	5·1	3·9	75	31	3·1	2·7	58	30	8·0	2·7	310	30	7·6	2·6	309	31	5·5	2·0	323	31	1·9	0·7	126
1·0 „	30	4·7	3·3	79	31	3·3	2·8	56	30	7·7	2·9	306	30	7·6	3·3	304	31	6·1	2·0	307	31	6·4	4·9	89
1·5 „	29	4·7	2·7	55	30	3·1	2·0	39	28	7·4	4·6	296	29	7·5	4·1	297	31	6·7	2·8	284	28	6·8	6·2	104
2·0 „	29	4·7	2·5	35	29	3·8	2·1	24	13	6·2	4·4	262	28	7·4	4·4	278	31	7·6	4·1	279	28	5·7	5·2	112
2·5 „	29	4·5	1·3	8	29	4·9	1·4	332	5	6·0	4·7	282	28	7·1	5·1	269	29	8·4	5·8	279	27	4·9	3·5	126
3·0 „	27	5·0	1·6	311	28	5·5	2·4	296	1	1·0	1·0	225	27	8·1	6·3	269	27	8·9	6·5	274	24	4·5	1·8	180
4·0 „	24	7·1	5·3	262	27	7·6	5·4	261					13	9·4	8·1	254	17	11·6	9·9	276	16	6·5	4·2	270
5·0 „	19	10·2	8·8	260	25	11·0	8·5	256					5	10·3	10·0	237	10	14·1	12·7	253				
6·0 „	18	13·0	11·4	254	21	13·3	10·9	247					1	14·5	14·5	250	8	19·1	17·1	257				
7·5 „	4	17·5	14·5	264	10	17·6	16·1	257									3	23·5	23·3	231				
9·0 „	1	25·5	25·5	250	4	25·0	24·5	255																

Height in km.	POONA								PORT BLAIR								RAIPUR							
	0700				1600				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·1	0·1	69	31	1·1	0·9	94	31	4·4	3·8	69	31	4·5	4·1	69	31	1·4	0·7	40	31	1·2	0·9	25
0·15 a. g.	31	2·6	1·7	110	31	3·0	2·2	88	31	7·8	6·5	66	30	7·3	6·4	64	30	4·5	3·1	65	30	4·0	3·5	48
0·6 a. s. l.	31	1·1	0·7	110	31	2·2	1·6	89	28	9·9	8·9	75	27	7·6	6·4	73	30	4·9	3·7	64	29	5·0	3·9	63
1·0 „	31	6·4	5·6	111	31	3·2	2·6	96	25	10·1	9·3	87	19	7·2	6·1	89	29	4·5	3·2	55	29	5·1	3·8	53
1·5 „	31	6·1	5·7	108	31	3·5	2·5	104	20	9·5	8·8	96	17	6·5	5·2	95	28	4·9	3·0	34	28	5·3	3·0	37
2·0 „	30	4·6	3·8	111	31	3·6	2·0	117	15	6·4	5·4	83	14	6·6	5·9	103	28	4·9	3·0	25	26	5·7	3·5	18
2·5 „	30	4·7	2·0	151	31	3·8	1·3	149	14	5·9	5·1	81	14	5·9	4·9	103	25	4·7	1·8	326	26	6·0	3·0	345
3·0 „	30	4·9	1·5	214	31	4·4	1·0	211	13	5·3	4·5	86	12	5·3	4·5	91	21	5·2	3·1	293	26	5·6	2·7	319
4·0 „	30	5·3	1·9	265	27	5·5	2·4	240	9	4·8	3·6	87	8	3·4	2·6	81	8	8·2	6·9	267	20	8·0	5·7	281
5·0 „	28	7·9	5·1	260	27	7·6	5·5	247	6	5·1	3·5	77	4	6·0	4·7	102	1	24·0	24·0	275	15	12·6	10·3	270
6·0 „	26	9·3	7·2	248	26	9·6	8·2	251	6	4·4	3·3	48	2	8·0	7·9	95					13	14·8	13·0	267
7·5 „	18	13·2	11·9	261	16	12·7	11·4	253	4	4·6	2·6	251									5	18·3	11·3	256
9·0 „	6	17·0	15·9	265	12	13·0	14·9	255	3	11·0	10·4	287									4	17·0	15·8	261

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 km. above sea level

December 1947

Height in km.	RAIPUR 1600				SAHARSA 0700				SAHARSA 1600				TEZPUR 0100				TEZPUR 0700				TEZPUR 1600			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	1·7	38	31	0·5	0·4	244	31	1·0	0·7	239	31	1·5	1·2	37	31	1·1	1·1	60	31	1·0	0·9	65
0·15 a. g.	30	3·4	2·8	35	31	5·0	2·6	311	31	3·5	2·3	269	31	4·4	3·7	56	31	4·1	3·8	71	31	3·3	3·0	69
0·6 a. s. l.	30	3·6	3·0	36	31	3·5	1·2	322	31	3·2	2·3	290	31	4·1	2·8	84	31	4·8	3·9	83	31	3·2	2·5	84
1·0 „	29	3·6	2·7	39	31	4·5	0·3	342	31	4·0	2·3	307	31	4·2	2·3	82	31	5·9	4·7	76	31	3·7	2·8	108
1·5 „	28	3·9	2·7	21	31	6·8	1·2	349	31	5·8	2·3	307	31	4·1	1·7	77	31	5·5	4·2	81	31	3·7	2·2	117
2·0 „	26	5·6	3·9	8	28	7·1	3·2	301	31	6·9	4·4	298	31	4·8	0·5	120	31	4·6	2·7	76	31	3·6	1·0	174
2·5 „	26	5·4	3·4	336	26	7·6	6·2	296	31	7·8	6·8	291	29	4·5	0·6	224	31	4·5	1·1	98	31	5·4	3·1	255
3·0 „	26	5·8	3·9	316	24	9·3	8·7	286	30	9·9	9·3	289	28	6·7	4·3	264	30	6·4	3·8	255	31	8·5	6·9	262
4·0 „	24	8·6	6·6	271	10	13·1	12·1	280	15	9·2	8·6	280	9	10·3	7·3	267	28	12·7	11·7	268	30	14·0	13·5	268
5·0 „	23	11·2	9·1	262	2	13·3	12·7	256	10	13·1	12·1	270					23	18·2	17·4	268	28	20·3	19·8	269
6·0 „	23	14·5	12·6	254					6	19·0	16·5	270					19	21·8	20·2	272	25	24·3	23·6	267
7·5 „	19	19·0	16·7	257													9	29·0	26·3	272	10	31·7	30·6	272
9·0 „	15	25·8	23·0	259													2	31·7	28·5	299	3	42·7	42·2	286

Height in km.	TRICHINOPOLY 0100				TRICHINOPOLY 0700				TRICHINOPOLY 1600				TRIVANDRUM 0700				UDAIPUR 0100				UDAIPUR 0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·5	2·2	43	31	2·2	1·7	16	31	2·5	2·2	71	31	0·9	0·7	60	31	0·4	0·4	283	31	0·4	0·3	301
0·15 a. g.	31	7·6	7·1	41	31	5·7	5·0	22	31	4·9	4·4	65	31	2·2	1·4	76	31	3·3	1·7	18	31	2·6	1·9	333
0·6 a. s. l.	31	10·0	9·4	47	31	8·5	7·9	35	31	5·9	5·5	55	31	1·9	0·4	38	..	..	..	..	..	..	..	..
1·0 „	31	8·7	8·1	41	31	7·8	7·2	33	31	7·0	6·5	43	31	2·2	1·1	19	31	4·2	1·1	69	31	4·1	1·1	115
1·5 „	28	6·1	5·3	29	30	6·5	5·7	27	31	6·9	6·4	29	31	3·0	1·8	5	31	4·4	2·3	191	31	4·6	1·6	206
2·0 „	26	5·1	3·7	22	29	5·5	4·4	35	29	5·6	4·7	28	30	3·1	1·5	13	31	5·3	3·2	213	31	5·3	3·1	230
2·5 „	21	4·3	3·0	40	27	5·0	3·2	47	28	4·1	2·8	34	29	2·9	1·3	29	31	6·5	4·1	224	31	6·5	4·7	236
3·0 „	21	4·0	2·4	70	27	4·3	2·7	78	26	3·6	2·0	41	28	2·8	0·9	30	24	7·2	5·7	254	31	7·5	5·9	246
4·0 „	5	5·9	5·3	64	25	4·4	2·9	86	22	3·4	1·8	63	26	3·7	1·7	45					26	9·2	8·0	261
5·0 „	1	11·5	11·5	45	22	4·1	2·9	86	19	3·9	3·1	74	23	3·5	2·1	68					8	14·7	13·7	265
6·0 „	1	13·0	13·0	50	19	3·9	2·7	53	19	4·8	3·0	49	21	4·3	2·9	70								
7·5 „	1	14·0	14·0	50	12	4·9	1·4	31	13	3·9	1·5	61	15	5·1	3·6	76								
9·0 „					9	5·3	3·1	185	11	6·1	2·8	177	11	5·7	5·2	145								

Table A—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9 km. above sea level

December, 1947

Height in km.	UDAIPUR				VENGURLA												VERAVAL							
	1600				0100				0700				1600				0100				0700			
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	0·3	191	31	1·2	1·0	11	31	1·2	0·9	24	31	3·1	2·3	245	31	4·0	3·6	18	31	4·1	3·6	32
0·15 a. g.	31	4·4	1·3	191	31	5·1	4·0	34	31	4·6	4·1	71	31	4·0	3·3	266	31	7·9	6·5	15	31	7·9	7·3	30
0·6 a. s. l.	..	..	..	..	31	6·0	4·3	53	31	6·1	5·2	92	31	2·9	1·5	38	31	5·7	4·0	36	31	5·4	3·6	48
1·0 „	31	4·3	1·6	210	31	5·8	4·2	77	31	5·4	4·8	105	31	4·0	3·5	60	31	4·7	2·6	68	31	4·1	2·4	57
1·5 „	31	3·9	1·7	258	31	5·7	4·6	85	31	5·1	4·0	105	31	5·7	5·3	74	30	4·3	2·3	105	30	4·8	1·9	135
2·0 „	31	4·5	3·0	248	27	5·3	4·8	96	31	4·3	3·5	95	30	5·7	5·1	74	25	5·3	2·3	112	30	6·3	3·0	175
2·5 „	31	5·6	4·1	254	22	3·8	2·2	119	30	3·9	2·6	93	30	4·7	3·2	65	17	1·7	1·7	190	30	6·2	2·9	204
3·0 „	31	7·2	5·8	254	13	3·9	0·8	232	30	4·0	1·5	86	29	3·7	1·6	56	11	6·1	2·4	207	30	6·1	3·0	231
4·0 „	27	10·4	9·3	254	8	4·0	1·5	126	26	4·1	0·7	257	29	4·1	0·4	23	1	3·5	3·5	230	28	7·9	6·2	250
5·0 „	23	12·7	11·5	261	3	4·8	3·0	20	25	5·1	1·6	247	27	5·8	1·8	286					23	11·0	10·1	256
6·0 „	22	17·0	15·8	260					22	6·5	2·8	258	25	7·3	3·5	286					17	14·3	13·2	259
7·5 „	6	23·5	23·0	264					16	7·4	6·0	260	21	10·0	7·8	257					6	20·1	19·1	256
9·0 „									13	9·7	7·7	236	18	13·6	12·3	260								

Height in km.	VERAVAL				VIZAGAPATAM																			
	1600				0100				0700				1600											
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·5	1·9	277	31	1·9	1·5	18	31	1·7	1·3	14	31	2·9	2·6	65								
0·15 a. g.	31	5·5	1·2	260	29	5·5	5·3	44	30	5·6	5·1	25	30	6·9	6·6	66								
0·6 a. s. l.	31	3·6	1·1	30	28	5·7	5·5	68	29	6·1	6·1	53	27	6·7	6·5	48								
1 0 „	31	3·6	1·6	40	25	5·3	4·7	60	29	7·3	6·3	57	26	6·6	5·9	36								
1 5 „	31	4·2	1·0	43	24	7·0	5·7	46	28	7·8	5·9	57	24	7·0	5·6	33								
2·0 „	30	4·8	0·3	291	22	6·8	4·8	55	26	6·8	4·6	58	23	6·0	4·4	21								
2 5 „	29	5·5	1·4	279	20	5·3	2·5	49	25	5·2	4·4	74	23	4·9	2·1	22								
3 0 „	29	5·7	3·4	263	18	4·3	1·4	46	24	3·8	1·0	46	23	4·7	0·8	23								
4 0 „	28	9·5	7·0	263	8	3·7	1·7	61	23	4·4	0·2	286	23	4·4	0·5	325								
5 0 „	25	12·2	10·7	259					23	4·9	0·9	269	21	5·1	1·5	264								
6·0 „	18	15·4	12·6	262					21	6·5	2·7	268	20	7·0	3·5	274								
7·5 „	7	18·3	17·2	283					18	8·4	6·4	293	18	8·8	6·7	245								
9·0 „	2	24·0	19·7	288					14	11·4	9·7	250	9	16·2	14·7	270								

Table B—Monthly Mean Directions and Velocities of Upper Winds.

Winds above 9 km. above sea level

December 1947

Height (km.)	n	V	v	D
		AHMEDABAD		
10·0	2	38·5	31·5	281
11·0	1	49·0	49·0	320
		ALLAHABAD		
10·0	1	30·0	30·0	290
11·0	1	24·5	24·5	290
		BANGALORE		
10·0	7	11·2	7·3	230
11·0	6	14·7	7·8	250
12·0	4	14·0	10·8	222
		BAREILLY		
10·0	2	33·5	33·4	260
		BHOPAL		
10·0	1	34·5	34·5	250
11·0	1	43·0	43·0	235
		BOMBAY		
10·0	3	29·2	29·0	255
		COCHIN		
10·0	7	5·9	0·7	8
11·0	3	7·3	5·8	345
12·0	1	5·5	5·5	65
		CUTTACK		
10·0	4	18·3	16·9	251
11·0	2	20·0	19·7	249
12·0	2	22·3	21·7	246
13·0	1	28·0	28·0	240
		DEOLALI		
10·0	4	20·0	19·8	244
11·0	3	22·3	22·3	238
		GADAG		
10·0	1	13·5	13·5	220
		GOPALPUR		
10·0	6	18·4	16·2	267
11·0	4	18·6	17·2	277
12·0	1	12·5	12·5	265
		HYDERABAD Dn.		
10·0	8	13·9	12·6	223
11·0	7	17·6	17·0	233
12·0	5	20·0	18·3	229
13·0	2	21·3	21·2	199
14·0	1	20·0	20·0	205
		JHARSUGUDA		
10·0	2	23·5	23·5	246
11·0	1	41·0	41·0	260
		JUBBULPORE		
10·0	3	34·0	29·7	240
11·0	2	30·5	27·7	263
		MALEGAON CAMP		
10·0	4	17·0	15·0	271
11·0	2	24·7	22·1	274
		MASULIPATAM		
10·0	9	15·8	13·2	254
11·0	4	16·9	13·4	259
12·0	1	31·0	31·0	240
13·0	1	35·0	35·0	230
		NAGERCOIL		
10·0	7	5·6	5·1	149
11·0	6	9·0	8·2	136
12·0	4	12·3	10·3	130
13·0	2	15·5	15·5	124
14·0	1	12·5	12·5	110
15·0	1	16·0	16·0	110
		NAGPUR		
10·0	2	24·0	23·5	237
11·0	1	33·0	33·0	230
12·0	1	35·0	35·0	230
13·0	1	45·0	45·0	235
		POONA		
10·0	7	21·9	20·9	257
11·0	5	20·5	18·4	253
12·0	2	15·0	14·9	222
13·0	1	15·0	15·0	225
14·0	1	15·0	15·0	210
		RAIPUR		
10·0	9	26·1	24·6	250
11·0	5	32·6	29·7	263
12·0	2	40·7	35·2	257
13·0	2	42·0	37·4	235
14·0	1	44·0	44·0	265
		TEZPUR		
10·0	2	54·3	52·9	293
11·0	1	63·5	63·5	295
		TRICHINOPOLY		
10·0	5	8·5	4·9	193
11·0	4	8·6	7·0	176
12·0	3	9·2	7·3	183
13·0	3	4·5	3·1	169
14·0	3	7·2	1·6	167
15·0	2	12·0	6·1	130
		TRIVANDRUM		
10·0	4	8·7	4·4	116
11·0	1	14·0	14·0	255
		VENGURLA		
10·0	13	13·6	12·2	24
11·0	9	18·3	15·0	26
12·0	6	18·3	14·7	27
13·0	4	17·7	12·9	27
14·0	4	19·5	15·9	26
15·0	4	18·6	13·8	25
16·0	2	24·3	19·7	27
17·0	1	22·5	22·5	22
		VERAVAL		
10·0	1	26·0	26·0	31
		VIZAGAPATAM		
10·0	7	20·4	19·8	28
11·0	5	23·4	22·0	27
12·0	4	28·5	27·5	28
13·0	2	22·2	22·2	30
14·0	2	19·0	18·9	28
15·0	2	14·0	14·0	28
16·0	2	12·7	12·0	29
		MINICOY		
10·0	1	7·0	7·0	135
11·0	1	15·0	15·0	130
12·0	1	21·5	21·5	125
13·0	1	12·0	12·0	155
14·0	1	4·0	4·0	175

GIPN—S1—4 D.D. .O. Poona—31-10-52—325.